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·	Installation 625

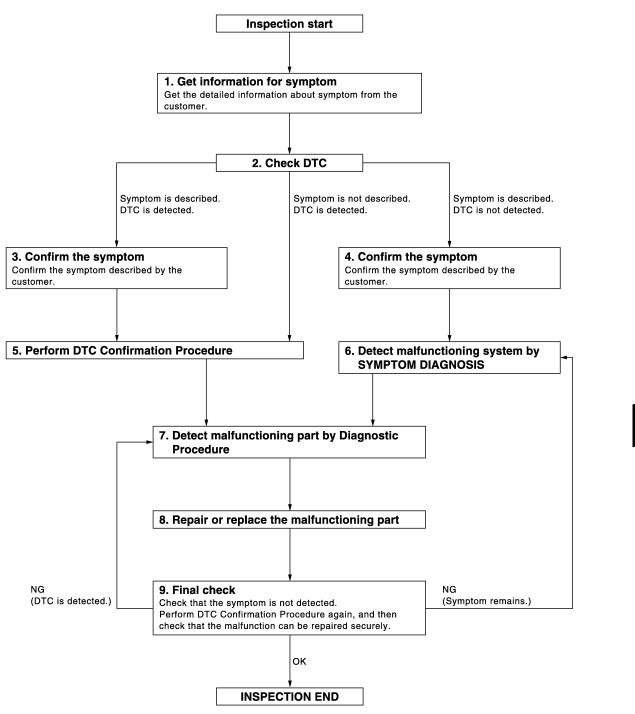
[COUPE] < BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow INFOID:0000000004204564 В

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > [COUPE]

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2.check dtc

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3

Symptom is described, DTC is not displayed>>GO TO 4

Symptom is not described, DTC is displayed>>GO TO 5

3.confirm the symptom

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.

At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>DLK-178</u>, "<u>DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This
 simplified check procedure is an effective alternative though DTC cannot be detected during this check.
 If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 7

NO >> Refer to GI-42, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

DIAGNOSIS AND REPAIR WORKFLOW

[COUPE] < BASIC INSPECTION >

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 8

NO >> Check voltage of related BCM terminals using CONSULT-III.

8.repair or replace the malfunctioning part

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replace-2. ment.
- 3. Check DTC. If DTC is displayed, erase it.

>> GO TO 9

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is the inspection result normal?

NO (DTC is detected)>>GO TO 7

NO (Symptom remains)>>GO TO 6

YES >> Inspection End.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [COUPE]

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000004204565

Perform the system initialization when replacing BCM, replacing Intelligent Key or registering an additional Intelligent Key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

Refer to the CONSULT-III Operation Manual for the initialization procedure.

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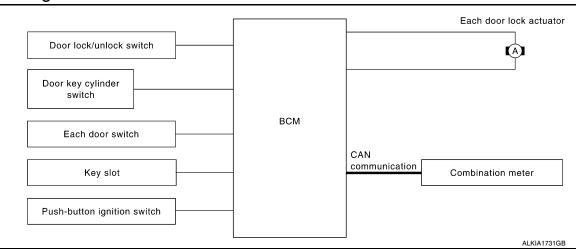
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FUNCTION DIAGNOSIS

AUTOMATIC DOOR LOCKS

System Diagram



System Description

INFOID:0000000004466869

Input	Single	Function	Actuator			
Door lock/unlock switch	Door lock/unlock signal	Door lock function				
Door key cylinder switch	Door lock/urllock signal	DOOF TOCK TUTICLIOTT				
Each door switch	Door open/close signal					
Key slot	Key insert/remove signal	Key reminder function	Each door lock actuator			
	Warning buzzer signal					
Combination meter	Vehicle speed signal	Automatic door lock/unlock function				

DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is build into power window main switch.
- The door lock and unlock switch (passenger side) is on door trim.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to "LOCK", will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to "UNLOCK" once unlocks the driver side door lock actuator; turning it to "UNLOCK" again within 60 seconds after the first unlock operation unlocks all of the other doors. - (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using "DOOR LOCK-UNLOCK SET" mode in "WORK SUP-PORT". Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

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AUTOMATIC DOOR LOCKS

< FUNCTION DIAGNOSIS >

[COUPE]

If a door is opened and closed at any time during one ignition cycle (OFF \rightarrow ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

(P)With CONSULT-III

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to <u>DLK-53</u>. "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Without CONSULT- III

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Push the ignition switch to the ON position
- Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
- 4. The switching is completed when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

The ignition switch must be turned OFF and ON again between each setting change.

AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

IGN OFF Interlock Door Unlock*1

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

(P)With CONSULT- III

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Without CONSULT- III

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Push the ignition switch to the ON position
- Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
- 4. The switching is completed when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

- 5. The ignition switch must be turned OFF and ON again between each setting change.
- *1: This function is set to ON before delivery.

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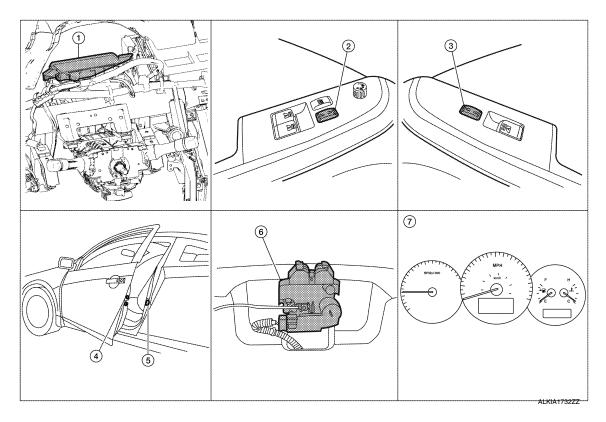
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Component Parts Location

INFOID:0000000004466870



- BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- Front door lock assembly LH (actuator) (key cylinder switch) D10 Front door lock actuator RH D108
- 7. Combination meter M24

- Main power window and door lock/un- 3. lock switch D7
- Front door switch LH B8 **RH B108**

- Power window and door lock/unlock switch RH D105
- Trunk lamp switch and trunk release solenoid T4

Component Description

INFOID:0000000004466871

Item	Function						
ВСМ	Controls the door lock function and fuel lid door lock actuator function.						
Door lock and unlock switch	Input lock or unlock signal to BCM.						
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.						
Door switch	Input door open/close condition to BCM.						
Door key cylinder switch	 Input lock or unlock signal to power window main switch. Power window main switch transmits door lock/unlock signal to BCM. 						
Key slot	Input key insert/remove signal to BCM.						
Combination meter	 Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to CAN communication line. 						
Push-button ignition switch	Input push-button ignition switch ON/OFF condition to BCM.						

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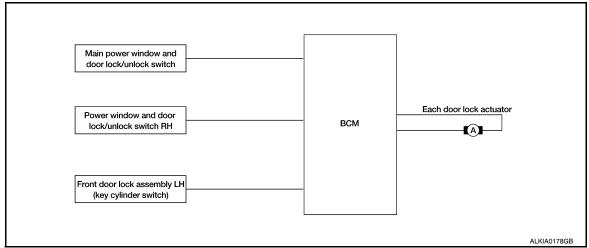
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DLK-17 Revision: February 2010 2009 Altima

DOOR LOCK FUNCTION DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH: System Diagram

INFOID:0000000004204567



DOOR LOCK AND UNLOCK SWITCH: System Description

INFOID:0000000004204568

Switch	Input/output signal to BCM	BCM function	Actuator
Main power window and door lock/unlock switch			
Power window and door lock/ unlock switch	Door lock/unlock signal	Door lock/unlock control	Door lock actuator
Door key cylinder switch			

DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door

- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all door lock actuators are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all door lock actuators are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door

 Interlocked with the locking operation of door key cylinder, door lock actuators of all door lock actuators are locked.

Selective Unlock Operation

- When door key cylinder is unlocked, door lock actuator driver side is unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using DOOR LOCK-UNLOCK SET mode in "WORK SUP-PORT". Refer to <u>DLK-53</u>, "DOOR LOCK: <u>CONSULT-III Function</u> (<u>BCM - DOOR LOCK</u>)".

Key Reminder System

Refer to DLK-48, "System Description".

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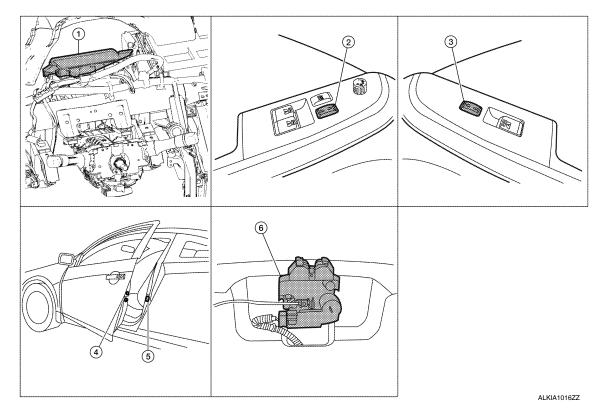
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DOOR LOCK AND UNLOCK SWITCH: Component Parts Location

INFOID:0000000004204569



- 1. BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- Front door lock assembly LH (actuator) (key cylinder switch) D10
 Front door lock actuator RH D108
- Main power window and door lock/un- 3. lock switch D7
 - Front door switch LH B8 RH B108

- Power window and door lock/unlock switch RH D105
- Trunk lamp switch and trunk release solenoid T4

DOOR LOCK AND UNLOCK SWITCH: Component Description

INFOID:0000000004204570

Item	Function		
BCM	Controls the door lock function and room lamp function.		
Door lock and unlock switch	h Transmits lock or unlock signal to BCM.		
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.		
Door switch	Transmits door open/close condition to BCM.		

DOOR REQUEST SWITCH

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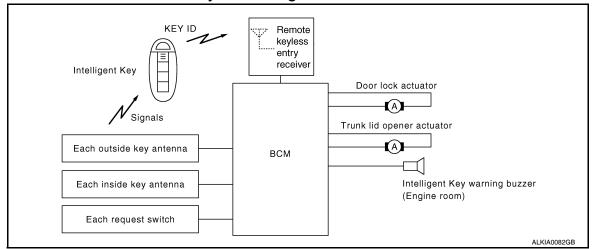
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Revision: February 2010 DLK-19 2009 Altima

DOOR REQUEST SWITCH: System Diagram

INFOID:0000000004204571



DOOR REQUEST SWITCH: System Description

INFOID:0000000004204572

Only when pressing the request switch, it is possible to lock and unlock the door by carrying the Intelligent Key.

 The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/ unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (BCM).
 CAUTION:

The driver should always carry the Intelligent Key

- If an action that does not meet the operating conditions of the Intelligent Key system is taken, the buzzer goes off to inform the driver (Warning chime function).
- When a door lock is locked, unlocked or trunk open with request switch or remote controller button operation, the hazard lamps flash and the Intelligent Key warning buzzer or horn sounds (Hazard and buzzer/horn reminder function).
- The settings for each function can be changed with the CONSULT-III.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with the CONSULT-III.

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK

- When the BCM detects that each door request switch is pressed, it starts the outside key antenna and inside
 key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM sends the door lock/unlock signal and sounds Intelligent Key buzzer warning (lock: 2 time, unlock: 1 times) at the same time as a reminder.

OPERATION CONDITION

If the following conditions are not satisfied, door lock/unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition					
Lock operation	 All doors are closed Ignition switch is in OFF position Intelligent Key is out of key slot Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area 					
Unlock Operation	Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area *					

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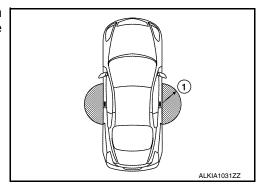
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*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver and passenger door handles (1).



SELECTIVE UNLOCK FUNCTION

When an LOCK signal is sent from door request switch (driver side or passenger side), all doors will be locked. When an UNLOCK signal is sent from door request switch (driver side or passenger side) once, driver's door will be unlocked.

Then, if an UNLOCK signal is sent from door request switch (driver side and passenger side) again within 5 seconds, all other door will be unlocked.

HAZARD AND BUZZER REMINDER FUNCTION

During lock, unlock, or trunk opening operation by each request switch, the hazard warning lamps and Intelligent Key warning buzzer will blink or honk as a reminder.

When doors are locked, unlocked by each request switch, IPDM E/R honks Intelligent Key warning buzzer as a reminder and transmits hazard request signal to BCM via CAN communication line.

BCM flashes hazard warning lamps as a reminder.

Operating function of hazard warning lamps and buzzer reminder

Operation	Hazard warning lamps flash	Intelligent Key warning buzzer honk
Unlock	Once	Once
Lock	Twice	Twice
Trunk open	_	Four times

How to change hazard and buzzer reminder mode

Refer to DLK-53, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is in OFF position and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with door request switch

When BCM does not receive the following signals within 60 seconds, all doors are locked.

- Door switch is ON (door is opened)
- · Door is locked
- Ignition switch is ON (ignition switch is pressed)
- Key switch is ON (Intelligent Key is inserted in key slot)

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-53</u>, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

ROOM LAMP OPERATION

When the following conditions are met:

- Condition of interior lamp switch is in DOOR position
- Door switch OFF (all the doors are closed)

Intelligent Key system turns on interior lamp (for up to 30 seconds maximum) by receiving UNLOCK signal from door request switch. For detailed description, refer to DLK-18, "DOOR LOCK AND UNLOCK SWITCH: System Description".

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

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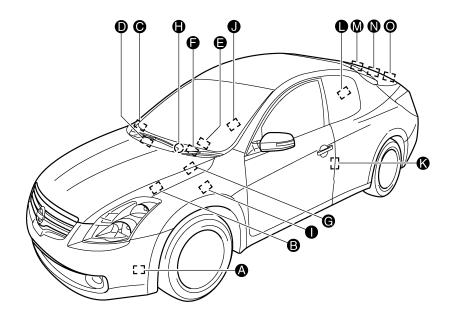
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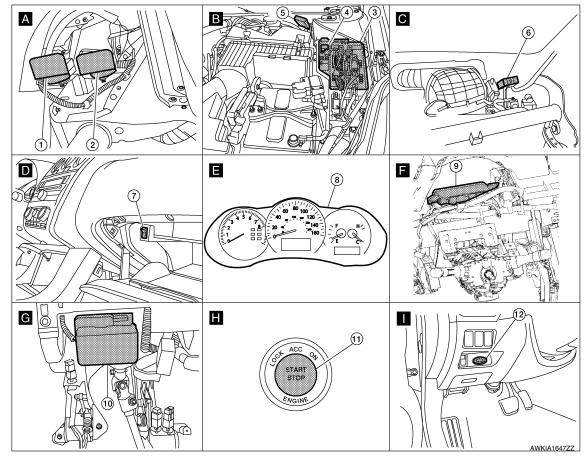
Revision: February 2010 DLK-21 2009 Altima

Door lock function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Door request switch (Driver, Passenger)	Door lock actuator	nside key antenna	Outside key antenna (Driver, Passenger)	ntelligent Key warning buzzer	CAN communication system	ВСМ	Hazard warning lamp	Push-button ignition switch
Door lock/unlock function by request switch	×	×	×	×	×	×	×	×		×	×		
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×	
Key reminder function	×	×	×	×	×	×	×	×	×	×	×	×	
Selective unlock function by request switch (Driver side)	×				×	×	×	×		×	×		
Selective unlock function by request switch (Passenger side)	×				×	×	×	×		×	×		
Auto door lock function	×	×		×	×	×				×	×		×

DOOR REQUEST SWITCH : Component Parts Location

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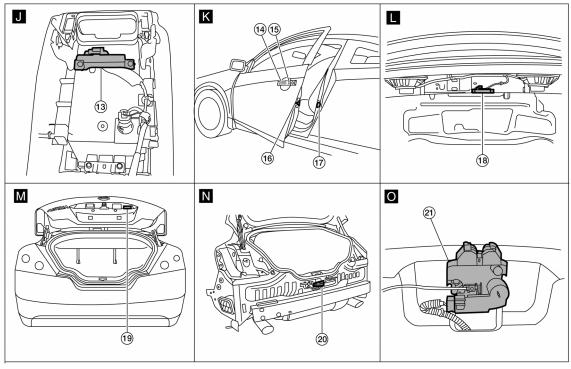
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- Horn (low) E215 (view with front fender protector LH removed)
- Horn relay H-1
- Trunk lid opener cancel switch M74
- 10. Electronic steering column lock M32 (view with instrument panel LH removed)
- 13. Front console antenna M203 (view with center console assembly removed)
- 16. Front door lock assembly LH D10 Front door lock actuator RH D108
- 19. Trunk opener request switch B33

- Horn (high) E216
- Intelligent Key warning buzzer E73
- Combination meter M24
- Push button ignition switch M38
- 14. Front outside handle LH (outside key an- 15. Front outside handle LH (request Front outside handle RH (outside key antenna) D106
- 17. Front door switch LH B8 **RH B108**
- 20. Rear bumper antenna B46

- IPDM E/R E17, E18
- Remote keyless entry receiver M27 (view with instrument panel removed)
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- Key slot M40
- switch) D6 Front outside handle RH (request switch) D106
- 18. Rear parcel shelf antenna B29
- 21. Trunk lamp switch and trunk release solenoid B28

DOOR REQUEST SWITCH: Component Description

INFOID:0000000004204574

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Transmits lock or unlock signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Transmits door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Transmits lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.

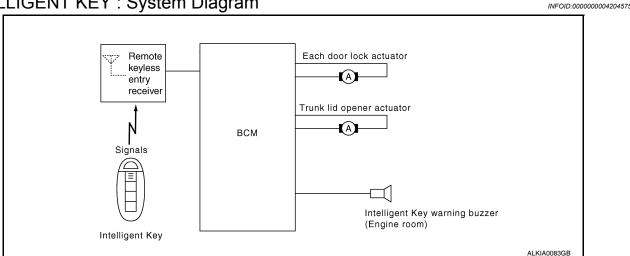
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

Item	Function
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTELLIGENT KEY

INTELLIGENT KEY: System Diagram



INTELLIGENT KEY: System Description

The Intelligent Key has the same functions as the remote control entry system. Therefore, it can be used in the same manner as the remote controller by operating the door lock/unlock button.

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- When BCM receives the door lock/unlock signal, it operates door lock actuator, flashes the hazard lamp (lock: 2 times, unlock: 1 time) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 time) as a reminder

OPERATION CONDITION

Remote controller operation	Operation condition	Operation
Lock	All doors closed	All doors lock
Unlock	Intelligent Key is out of key slot	All doors unlock

OPERATION AREA

- Operating Range
- To ensure the Intelligent Key works effectively, use within 80 cm range of each doors, however the operable range may differ according to surroundings. The remote control operation range is greater than that of the Intelligent Key. Refer to Owner's Manual for more details.

SELECTIVE UNLOCK FUNCTION

When a LOCK signal is transmitted from Intelligent Key, all doors will be locked.

When an UNLOCK signal is transmitted from Intelligent Key once, driver's door will be unlocked.

Then, if an UNLOCK signal is transmitted from Intelligent Key again within 5 seconds, all other doors will be unlocked.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM flashes hazard warning lamps as a reminder and sends horn chirp signal to IPDM E/R. IPDM E/R sounds horn as a reminder.

The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[COUPE]

Operating function of hazard and horn	n reminder										
		C mode		S mode							
Intelligent Key operation	Lock	Unlock	Trunk open	Lock	Unlock	Trunk open					
Hazard warning lamp flash	Twice	Once	_	- Twice		_					
Horns sound	Once	_	_	_	_	_					

Hazard and horn reminder does not operate if any door switch is ON (any door is OPEN).

How to change hazard and horn reminder mode

(III) With CONSULT-III

Refer to DLK-53, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

⊗ Without CONSULT-III

Refer to Owner's Manual for instructions.

AUTO DOOR LOCK FUNCTION

Auto Door Lock Function

When all doors are locked, ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with Intelligent Key button. When BCM does not receive the following signals within 60 seconds, all doors are locked.

- · Door switch is ON (door is opened)
- Door is locked
- Ignition switch is ON
- Key switch is ON (Intelligent Key is inserted in key slot)

Auto door lock mode can be changed by DOOR LOCK-UNLOCK SET mode in "WORK SUPPORT". Refer to DLK-53, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

PANIC ALARM FUNCTION

When ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), BCM receives PANIC ALARM signal from Intelligent Key.

BCM turns on and off headlamp intermittently and transmits theft warning horn signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.

The headlamp flashes and the horn sounds intermittently.

The alarm automatically turns off:

- · After 25 seconds
- When BCM receives any signal from Intelligent Key

Panic alarm function mode can be changed by PANIC ALARM SET mode in "WORK SUPPORT". Refer to DLK-53, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

Front power windows (with left and right front power window anti-pinch system) open when the unlock button on Intelligent Key is activated and kept pressed for more than 3 seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

The power window opening stops when the following operations are performed:

- When the unlock button is kept pressed more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

While retained power operation activate, Keyless power window down (open) function cannot be operated. Keyless power window down operation mode can be changed by PW DOWN SET mode in "WORK SUP-PORT". Refer to DLK-53, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

ROOM LAMP ILLUMINATION OPERATION

When the following conditions are met:

- Condition of interior lamp switch is in DOOR position
- Door switch OFF (all the doors are closed)

Intelligent Key system turns on interior lamp (for 15 seconds) by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to <u>DLK-25</u>, "INTELLIGENT KEY: System <u>Description"</u>.

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS > [COUPE]

Remote keyless entry functions	Intelligent Key	Key slot	Door request switch (Driver, Passenger)	Door switch	Door lock actuator	Intelligent Key warning buzzer	CAN communication system	ВСМ	Combination meter	Hazard warning lamp	Horn	IPDM E/R	Head lamp
Door lock/unlock function by remote control button	×	×		×	×		×	×					
Hazard and horn reminder function	×					×	×	×	×	×	×	×	
Selective unlock function	×			×	×		×	×					
Keyless power window down (open) function	×	×					×	×					
Auto door lock function	×	×		×			×	×					
Panic alarm function	×	×	×				×	×	×		×	×	×

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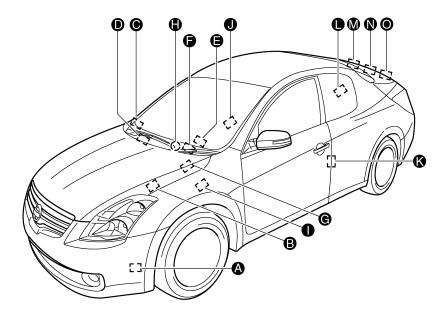
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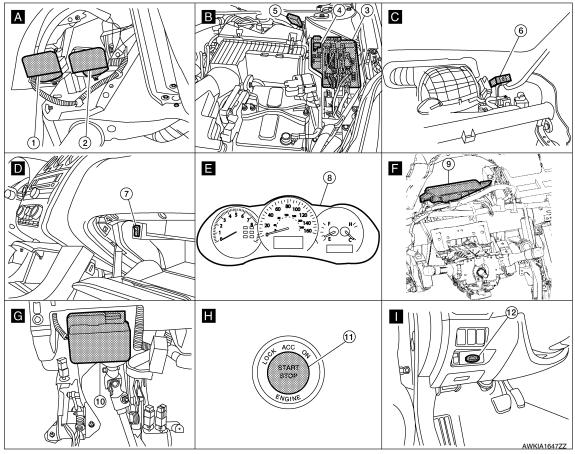
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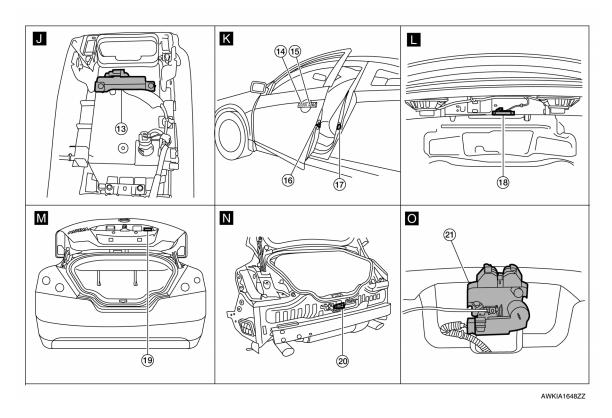
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INTELLIGENT KEY: Component Parts Location

INFOID:0000000004495181







- Horn (low) E215 (view with front fender protector LH removed)
- Horn relay H-1
- Trunk lid opener cancel switch M74
- 10. Electronic steering column lock M32 (view with instrument panel LH removed)
- 13. Front console antenna M203 (view with center console assembly removed)
- 16. Front door lock assembly LH D10 Front door lock actuator RH D108
- 19. Trunk opener request switch B33

- Horn (high) E216
- Intelligent Key warning buzzer E73
- Combination meter M24
- 11. Push button ignition switch M38
- 14. Front outside handle LH (outside key an- 15. Front outside handle LH (request tenna) D6 Front outside handle RH (outside key antenna) D106
- 17. Front door switch LH B8 **RH B108**
- 20. Rear bumper antenna B46

- IPDM E/R E17, E18
- Remote keyless entry receiver M27 (view with instrument panel removed)
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- Key slot M40
- switch) D6 Front outside handle RH (request switch) D106
- 18. Rear parcel shelf antenna B29
- 21. Trunk lamp switch and trunk release solenoid B28

INTELLIGENT KEY: Component Description

INFOID:0000000004204578

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Intelligent key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

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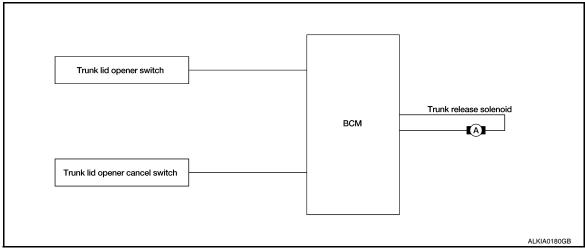
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TRUNK OPEN FUNCTION TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH: System Diagram

INFOID:0000000004204579



TRUNK LID OPENER SWITCH: System Description

INFOID:0000000004204580

Switch	Input/output signal to BCM	BCM function	Actuator			
Trunk lid opener switch	Trunk open signal	Trunk open control	Trunk lid opener actuator			
Trunk lid opener cancel switch	Trunk open signal	Trank open control	Trank lid opener actuator			

TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM opens trunk opener actuator.

BCM can open trunk lid opener actuator when

- vehicle speed is less than 5 km/h (3MPH)
- · vehicle security system is disarmed or pre-armed phase

BCM does not open trunk lid opener actuator when

- trunk lid opener cancel switch is OFF (CANCEL)
- vehicle speed is more than 5 km/h (3MPH)
- · vehicle security system is armed or alarm phase
- · Within 3 seconds of removing the Intelligent Key from the key slot

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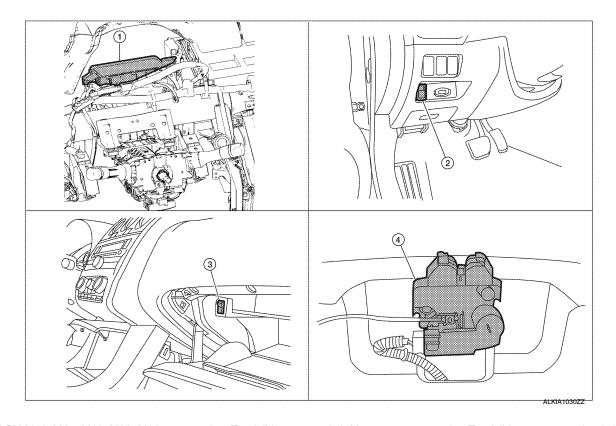
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TRUNK LID OPENER SWITCH : Component Parts Location

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- 1. BCM M16, M17, M18, M20, M21
- 2. Trunk lid opener switch M75
- 3. Trunk lid opener cancel switch M74

 Trunk lamp switch and trunk release solenoid B28

TRUNK LID OPENER SWITCH: Component Description

INFOID:0000000004204582

Item	Function
ВСМ	Transmits trunk open operation to BCM.
Trunk lid opener switch	Transmits trunk open operation to BCM.
Trunk release solenoid	Opens the trunk with the open signal from BCM
Trunk lid opener cancel switch	Cancels the trunk open operation.

TRUNK REQUEST SWITCH

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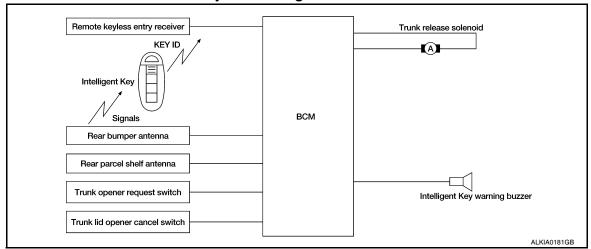
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TRUNK REQUEST SWITCH: System Diagram

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TRUNK REQUEST SWITCH: System Description

INFOID:0000000004204584

Only when pressing the request switch, it is possible to open the trunk by carrying the Intelligent Key.

The Intelligent Key system is a system that makes it possible to open the trunk (trunk open function) by carrying the Intelligent Key which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (BCM).

CAUTION:

The driver should always carry the Intelligent Key

- If an action that does not meet the operating conditions of the Intelligent Key system is taken, the buzzer goes off to inform the driver (warning chime functions).
- When a trunk open with request switch or remote controller button operation, the hazard lamps flash and the Intelligent Key warning buzzer or horns sound (hazard and buzzer/horn reminder function).
- The settings for each function can be changed with the CONSULT-III.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with the CONSULT-III.

OPERATION DESCRIPTION/TRUNK OPEN

- When the BCM detects that trunk open request switch is pressed, it starts the outside key antenna (trunk room) and inside key antenna corresponding to the pressed trunk open request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the trunk.
- If the Intelligent Key is within the outside key antenna (trunk room) detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits the trunk open request signal and sounds Intelligent Key warning buzzer 4 consecutive times.
- When BCM receives the trunk open request signal, it operates the trunk release solenoid and opens the trunk.

OPERATION CONDITION

If the following conditions are not satisfied, trunk open operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition				
Trunk open operation	 Intelligent Key is within outside key antenna (trunk room) detection area* Trunk cancel switch is ON Key reminder functions operate (trunk) 				

^{*:} Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

OUTSIDE KEY ANTENNA DETECTION AREA

TRUNK OPEN FUNCTION

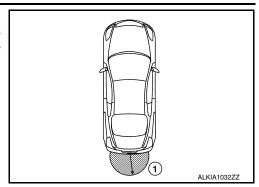
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The outside key antenna detection area of trunk open function is in the range of approximately 80 cm (31.50 in) surrounding Trunk opener request switch (1). However, this operating range depends on the ambient conditions.



KEY REMINDER FUNCTION

Key reminder function	ey reminder function Operation condition	
Trunk is closed	Right after trunk is closed under the following conditions Intelligent Key is inside trunk room All doors are closed All doors are locked	Trunk open Honk Intelligent Key warning buzzer

^{*:}If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob might activate the door locks accidentally but unlock operation will be perform at these cases.

CAUTION:

- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.
- When the key reminder function is operated when the trunk is opened/closed and the buzzers sound, if the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped.
- Remote controller door lock button operation of Intelligent Key
- Remote controller door unlock button operation of Intelligent Key
- When the trunk is closed, the Intelligent Key is not inside the vehicle
- When any door is open

HAZARD AND BUZZER REMINDER FUNCTION

During trunk opening operation by request switch, the hazard warning lamps and Intelligent Key warning buzzer will flash or honk as a reminder.

When trunk open by each request switch, IPDM E/R honks Intelligent Key warning buzzer as a reminder and transmits hazard request signal to BCM via CAN communication line.

BCM flashes hazard warning lamps as a reminder.

Operating function of hazard and buzzer reminder

Operation	Hazard warning lamp flash	Intelligent Key warning buzzer honks
Trunk open	_	Four times

How to change hazard and buzzer reminder mode

(III) With CONSULT-III

Refer to DLK-53, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

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TRUNK OPEN FUNCTION

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Trunk open function		Key slot	Remote keyless entry receiver	Door switch	Trunk room lamp switch	Trunk opener request switch	Trunk release solenoid	Inside key antenna	Outside key antenna (Trunk)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamps	Trunk lid opener cancel switch
Trunk open function by the trunk opener request switch	×		×		×	×	×	×	×		×	×		×
Hazard and buzzer reminder function for door lock/unlock operation										×	×	×	×	
Buzzer reminder for trunk open operation										×	×	×		
Key reminder function	×	×	×	×				×	×	×	×	×	×	

TRUNK REQUEST SWITCH: Component Parts Location

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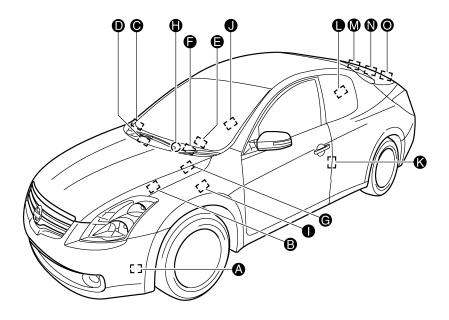
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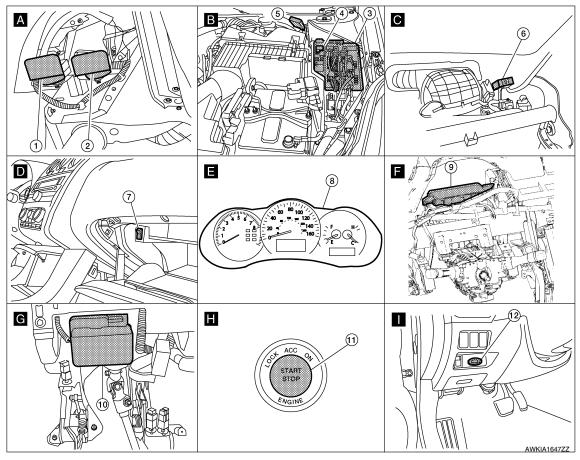
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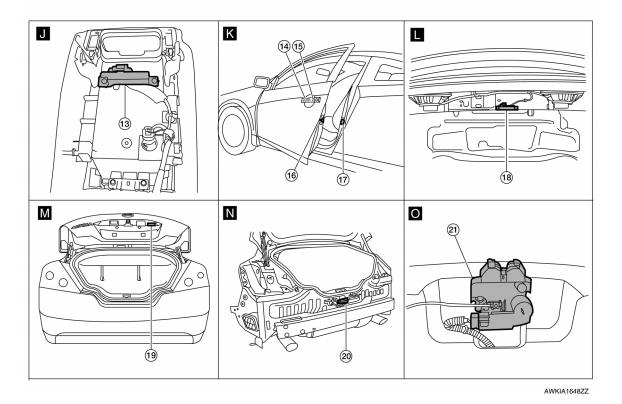
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(view with front fender protector LH re-

Horn (high) E216

IPDM E/R E17, E18

moved) Horn relay H-1

Horn (low) E215

- Trunk lid opener cancel switch M74
- 10. Electronic steering column lock M32 (view with instrument panel LH removed)
- 13. Front console antenna M203 (view with center console assembly removed)
- 16. Front door lock assembly LH D10 Front door lock actuator RH D108
- 19. Trunk opener request switch B33

- Intelligent Key warning buzzer E73
- Combination meter M24
- Push button ignition switch M38
- 14. Front outside handle LH (outside key an- 15. Front outside handle LH (request Front outside handle RH (outside key antenna) D106
- 17. Front door switch LH B8 **RH B108**
- 20. Rear bumper antenna B46

- Remote keyless entry receiver M27
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)

(view with instrument panel removed)

- Key slot M40
- switch) D6 Front outside handle RH (request switch) D106
- 18. Rear parcel shelf antenna B29
- 21. Trunk lamp switch and trunk release solenoid B28

TRUNK REQUEST SWITCH: Component Description

INFOID:00000000004204586

Item	Function
BCM	Controls trunk open function.
Trunk release solenoid	Transmits trunk open operation to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Trunk opener request switch	Transmits trunk open operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTELLIGENT KEY

INTELLIGENT KEY: System Diagram

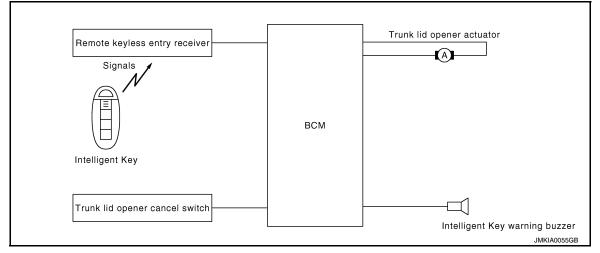
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INTELLIGENT KEY: System Description

INFOID:0000000004204588

The Intelligent Key has the same functions as the remote control entry system. Therefore, it can be used in the same manner as the remote controller by operating the trunk open button.

OPERATION DESCRIPTION/TRUNK OPEN FUNCTION

- When trunk button of the Intelligent Key is pressed, the trunk open signal is transmitted from the Intelligent Key to the BCM via remote keyless entry receiver.
- When BCM receives the trunk open request signal, it operates the trunk lid opener actuator and opens the trunk.

OPERATION CONDITION

Remote controller operation	Operation condition	Operation
Trunk open	Press and hold the trunk open button for 0.5 second or more	Trunk open

OPERATION AREA

• To ensure the Intelligent Key works effectively, use within 80 cm (31.50 inches) range of each door, however the operable range may differ according to surroundings.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM flashes hazard warning lamps as a reminder and transmits horn chirp signal to IPDM E/R. IPDM E/R sound horns as a reminder.

The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating function of hazard and horn reminder

		C mode			S mode	
Intelligent Key operation	Lock	Unlock	Trunk open	Lock	Unlock	Trunk open
Hazard warning lamp flash	Twice	Once	_	Twice	_	_
Horn sound	Once	_	_	_	_	_

Hazard and horn reminder does not operate if any door switch is ON (any door is OPEN).

How to change hazard and horn reminder mode

(P) With CONSULT-III

Refer to DLK-53, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

₩ Without CONSULT-III

Refer to Owner's Manual for instructions.

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

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TRUNK OPEN FUNCTION

< FUNCTION DIAGNOSIS >

[COUPE]

Remote keyless entry functions	Intelligent Key	Key slot	Trunk room lamp switch	Trunk release solenoid	Intelligent Key warning buzzer	CAN communication system	ВСМ	Combination meter	Hazard warning lamps	Horns	IPDM E/R
Trunk open function by remote control button	×	×	×	×		×	×				
Hazard and horn reminder function	×				×	×	×	×	×	×	×

INTELLIGENT KEY: Component Parts Location

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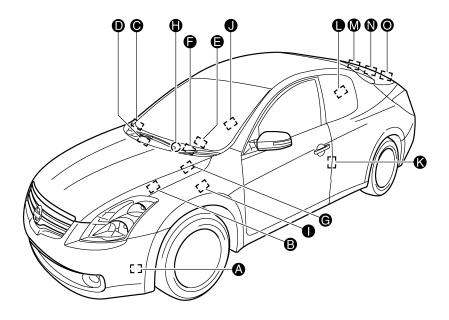
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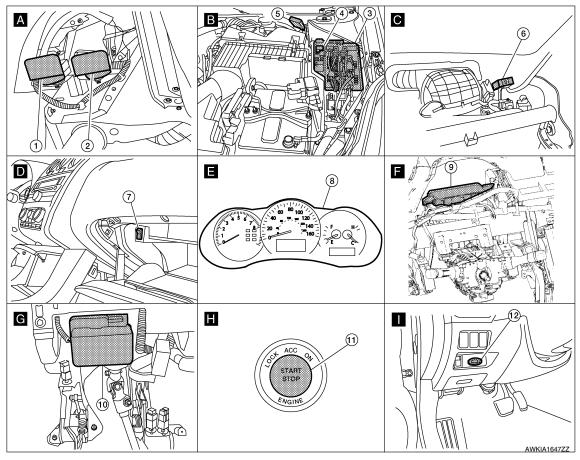
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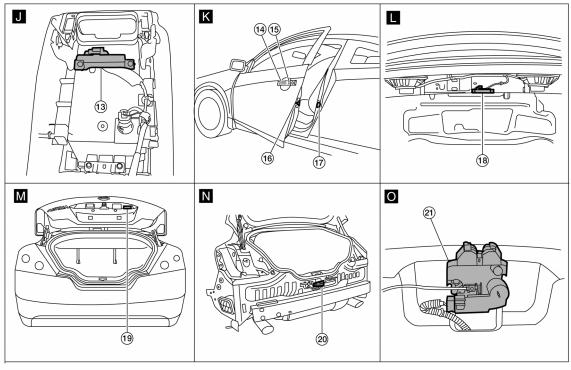
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- Horn (low) E215 (view with front fender protector LH removed)
- Horn relay H-1
- Trunk lid opener cancel switch M74
- 10. Electronic steering column lock M32 (view with instrument panel LH removed)
- 13. Front console antenna M203 (view with center console assembly removed)
- 16. Front door lock assembly LH D10 Front door lock actuator RH D108
- 19. Trunk opener request switch B33

- Horn (high) E216
- Intelligent Key warning buzzer E73
- Combination meter M24
- Push button ignition switch M38
- 14. Front outside handle LH (outside key an- 15. Front outside handle LH (request Front outside handle RH (outside key antenna) D106
- 17. Front door switch LH B8 **RH B108**
- 20. Rear bumper antenna B46

- IPDM E/R E17, E18
- Remote keyless entry receiver M27 (view with instrument panel removed)
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- Key slot M40
- switch) D6 Front outside handle RH (request switch) D106
- 18. Rear parcel shelf antenna B29
- 21. Trunk lamp switch and trunk release solenoid B28

INTELLIGENT KEY: Component Description

INFOID:0000000004204590

Item	Function					
BCM	Controls trunk open function.					
Trunk release solenoid	Opens the trunk with the open signal from BCM.					
Remote keyless entry receiver	Receives trunk open signal from the Intelligent Key, and then transmits to BCM.					
Intelligent Key	Transmits button operation to remote keyless entry receiver.					
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with a buzzer sound.					

< FUNCTION DIAGNOSIS > [COUPE]

WARNING FUNCTION

System Description

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OPERATION DESCRIPTION

The warning functions are as follows and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, KEY warning lamp, key slot illumination and combination meter display in combination meter.

- · Intelligent Key system malfunction
- OFF position warning
- P position warning
- ACC warning
- Take away warning
- · Door lock operation warning
- Key warning
- · Intelligent Key insert information
- Engine start information
- Steering lock information
- Intelligent key low battery warning
- Key ID warning

OPERATION CONDITION

Once the following condition from below is established, alert or warning will be executed.

Warning/Info	rmation functions	Operation procedure
Intelligent Key system m	alfunction	When a malfunction is detected on BCM, "KEY" warning lamp will illuminate.
	For internal	 Ignition switch: ACC position. Door switch (driver side): ON (Door is open).
OFF position warning	For external	OFF position warning (For internal) is in active mode, driver side door has been closed. NOTE: OFF position (For external) active only when each of the sequence has occurred as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning		 Shift position: Except P position Engine is running to stopped (Ignition switch is ON to OFF)
ACC warning		 During P position warning is in active mode, shift position has changed P position. Ignition switch: Except OFF position.
	Door is open to close	 Ignition switch: Except LOCK position. Door switch: ON to OFF (Door is open to close). Intelligent Key can not be detected inside the vehicle.
	Door is open	 Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key can not be detected inside the vehicle.
Take away warning	Push-ignition switch operation	 Ignition switch: Except LOCK position. Press ignition switch. Intelligent Key can not be detected inside the vehicle.
	Take away through window	 Engine is running. Key ID verification every 30 seconds when registered Intelligent Key can not be detected inside the vehicle. After vehicle speed verification, the registered Intelligent Key can not be detect inside the vehicle.
	Intelligent Key is removed from key slot	When Intelligent Key is removed from key slot, Intelligent Key can not be detected inside the vehicle.

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Warning/Inform	nation functions	Operation procedure
Door lock operation warn-	Request switch operation	 When request switch is pushed (lock operation) under the following conditions. Door switch: ON (Any door is open). Intelligent Key is inside vehicle.
ing	Intelligent Key button operation	When Intelligent Key button is pushed (lock operation) under the following conditions. Door switch: ON (Any door is open). For 3 seconds after Intelligent Key is removed from key slot.
Key warning		 Ignition switch is OFF position. Driver side door switch: ON (Driver side door is open). Intelligent Key is inserted in key slot.
Intelligent Key insert inforr	nation	 Door switch: ON to OFF (Door is open to close). Ignition switch: OFF to ON position. Intelligent Key is out of key slot. Intelligent Key can not be detected inside the vehicle.
	Ignition switch is ON position	Ignition switch: ON position.Shift position: P positionEngine is stopped
Engine start information	Ignition switch is except ON position	 Ignition switch: Except ON position. Shift position: P position Intelligent Key is inserted in key slot. Intelligent Key can be detected inside the vehicle.
Steering lock information		When steering lock can not be released after ignition switch is turned ON.
Intelligent Key low battery	warning	When Intelligent Key has low battery, it is detected by BCM after ignition switch is turned ON.
Key ID warning		When registered intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON.

WARNING METHOD

The following table shows the alarm or warning methods with chime. Meter display, "KEY" indicator or key slot illumination when the warning conditions are met.

					Warning chime			
Warning/Informa	ation functions	"KEY" warn- ing lamp	Combination meter display	Key slot il- lumination	Combination meter buzzer	Intelligent Key warning buzzer		
Intelligent Key syste	m malfunction	Illuminate	_	_	_	_		
OFF position warn-	For internal	_	_	_	Activate	_		
ing	For external	_	_	_	_	Activate		
P position warning		_	_	Activate	_			
ACC warning		_	PUSH JMKIA0047GB	_	Activate	_		

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					Warning chime				
Warning/Informa	ation functions	"KEY" warn- ing lamp	Combination meter display	Key slot il- lumination	Combination meter buzzer	Intelligent Key warning buzzer			
	Door is open to close	_		Flash	Activate	Activate			
	Door is open	_		Flash	_	_			
Take away warning	Push-ignition switch operation	_	NO	Flash	Activate	_			
Take away warming	Take away through window		NO KEY	Flash	Activate	_			
	Intelligent Key is removed from key slot	_	JMKIA0036GB	Flash	_	_			
Door lock operation	Request switch operation	_	_	_	_	Activate			
warning	Intelligent Key operation	_	_	_	_	Activate			
Key ID warning		_	NO KEY	_	_	_			
Key warning		_	JMKIA0035GB	Flash	Activate	_			
Intelligent Key inser	t information	_	JMKIA0034GB	Flash	_	_			
Engine start infor-	Automatic trans- mission models	_	BRAKE JMKIA0032GB	_	_	_			
mation	Manual trans- mission models	_	CLUTCH ALKIA1326GB	_	_	_			

			Warning chime					
Warning/Information functions	Warning/Information functions "KEY" warning lamp Combination meter display							
Steering lock information	_	JMKIA0033GB	_	_	_			
Intelligent Key low battery warning	_	JMKIA0048GB	_	_	_			

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

Warning function		Intelligent Key	Key slot	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Combination meter display	Key slot illumination	Park position switch	"KEY" warning lamp
Intelligent Key system ma	function										×	×				×
OFF position warning	For internal				×					×	×	×				
Or i position warning	For external				×				×		×	×				
P position warning				×						×	×	×	×		×	
ACC warning				×						×	×	×	×		×	
	Door is open or close	×			×		×		×	×	×	×	×	×		
	Door is open	×			×		×				×	×	×	×		
Take away warning	Push-ignition switch operation	×		×			×			×	×	×	×	×		
rane away warriing	Take away through win- dow	×					×			×	×	×	×	×		
	Intelligent Key is removed from key slot	×	×				×				×	×	×	×		
Door lock operation warning		×	×		×	×	×	×	×		×	×				
Key ID warning		×	×	×			×				×	×	×			
Key warning		×	×		×					×	×	×	×	×		
Intelligent Key insert inform	nation	×	×	×	×		×				×	×	×	×		

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Warning	g function	Intelligent Key	Key slot	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Combination meter display	Key slot illumination	Park position switch	"KEY" waming lamp
Engine start information	Ignition switch is ON position	×	×	×			×				×	×	×		×	
Engine start information	Ignition switch is except ON position	×	×	×			×				×	×	×			
Steering lock information				×							×	×	×			
Intelligent Key low battery	warning	×					×				×	×	×			

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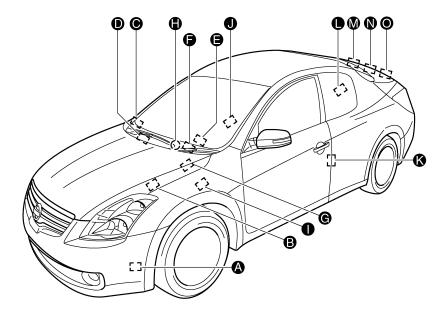
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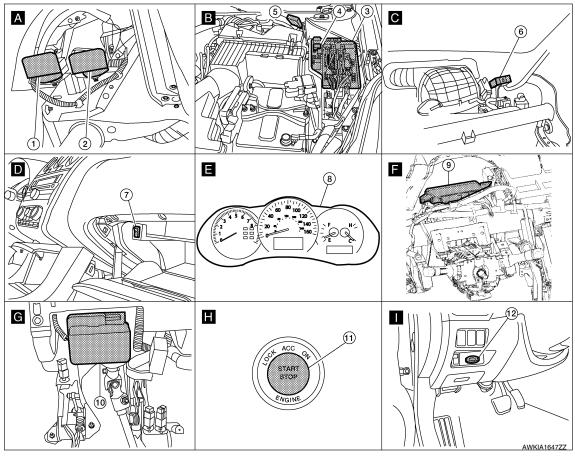
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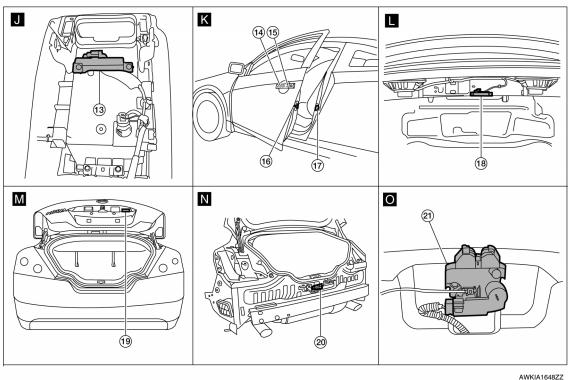
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Component Parts Location

INFOID:0000000004495184







AWKIA1648ZZ

- Horn (low) E215 (view with front fender protector LH removed)
- Horn relay H-1
- Trunk lid opener cancel switch M74
- 10. Electronic steering column lock M32 (view with instrument panel LH removed)
- 13. Front console antenna M203 (view with center console assembly removed)
- 16. Front door lock assembly LH D10 Front door lock actuator RH D108
- 19. Trunk opener request switch B33

- Horn (high) E216
- Intelligent Key warning buzzer E73
- Combination meter M24
- 11. Push button ignition switch M38
- 14. Front outside handle LH (outside key an- 15. Front outside handle LH (request tenna) D6 Front outside handle RH (outside key antenna) D106
- 17. Front door switch LH B8 **RH B108**
- 20. Rear bumper antenna B46

- IPDM E/R E17, E18
- Remote keyless entry receiver M27 (view with instrument panel removed)
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- Key slot M40
- switch) D6 Front outside handle RH (request switch) D106
- 18. Rear parcel shelf antenna B29
- 21. Trunk lamp switch and trunk release solenoid B28

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KEY REMINDER FUNCTION

System Description

INFOID:0000000004204593

Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 3 functions.

Key reminder function	Operation condition	Operation					
Driver door closed*	Priver door closed* Right after driver side door is closed under the following conditions Door lock operation is performed Driver side door is opened Driver side door is in unlock state						
Door is open or closed	Right after all doors are closed under the following conditions Intelligent Key is inside the vehicle Any door is opened All doors are locked by door lock and unlock switch or door lock knob	All doors unlock Sounds Intelligent Key warning buzzer					
Trunk is closed	Right after trunk is closed under the following conditions Intelligent Key is inside trunk room All doors are closed All doors are locked	Trunk open Sounds Intelligent Key warning buzzer					

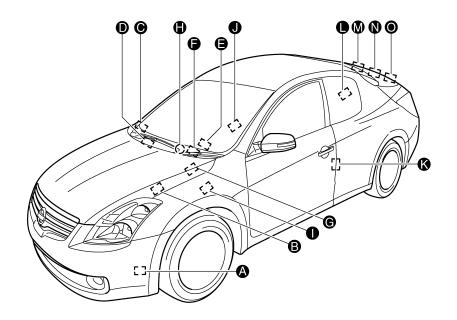
^{*:}If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob might activate the door locks accidentally but unlock operation will be performed in these cases.

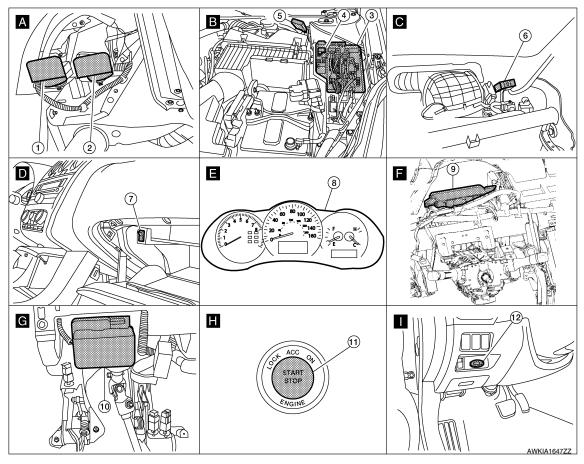
CAUTION:

- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.
- When the key reminder function is operated when the trunk is open/closed and the buzzers sound, if the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped.
- Remote controller door lock button operation of Intelligent Key
- Remote controller door unlock button operation of Intelligent Key
- When the trunk is closed, the Intelligent Key is not inside the vehicle
- When any door is open

Component Parts Location

INFOID:0000000004495185





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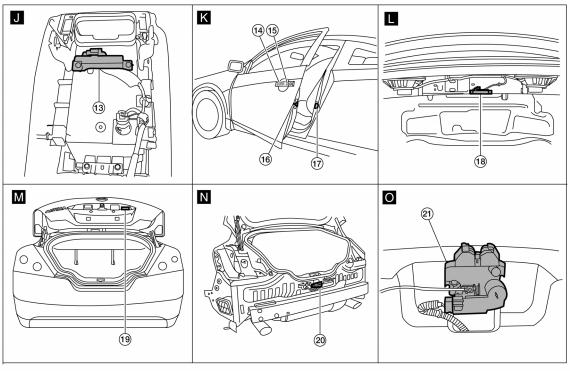
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AWKIA1648ZZ

- Horn (low) E215 (view with front fender protector LH removed)
- Horn relay H-1
- Trunk lid opener cancel switch M74
- 10. Electronic steering column lock M32 (view with instrument panel LH removed)
- 13. Front console antenna M203 (view with center console assembly removed)
- 16. Front door lock assembly LH D10 Front door lock actuator RH D108
- 19. Trunk opener request switch B33

- Horn (high) E216
- Intelligent Key warning buzzer E73
- Combination meter M24
- 11. Push button ignition switch M38
- 14. Front outside handle LH (outside key an- 15. Front outside handle LH (request tenna) D6 Front outside handle RH (outside key antenna) D106
- 17. Front door switch LH B8 **RH B108**
- 20. Rear bumper antenna B46

- IPDM E/R E17, E18
- Remote keyless entry receiver M27 (view with instrument panel removed)
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- Key slot M40
- switch) D6 Front outside handle RH (request switch) D106
- 18. Rear parcel shelf antenna B29
- 21. Trunk lamp switch and trunk release solenoid B28

HOMELINK UNIVERSAL TRANSCEIVER

< FUNCTION DIAGNOSIS > [COUPE]

HOMELINK UNIVERSAL TRANSCEIVER

Component Description

INFOID:0000000004204595

Item	Function	Reference page
Homelink universal transceiver	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.	Refer to Owner's Manual

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: Diagnosis Description

INFOID:0000000004495155

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

System	Sub system selection item	Diagnosis mode		
System	WORK SUPPORT	DATA MONITOR	ACTIVE TEST	
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Remote keyless entry system	MUTI REMOTE ENT	×	×	×
Exterior lamp	HEADLAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	

COMMON ITEM: CONSULT-III Function

INFOID:0000000004495156

ECU IDENTIFICATION Displays the BCM part No.

SELF-DIAG RESULT

Refer to BCS-93, "DTC Index".

DIAGNOSIS SYSTEM (BCM)

[COUPE] < FUNCTION DIAGNOSIS >

DOOR LOCK

DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)

INFOID:0000000006114296

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WORK SUPPORT

Work Item	Description
DOOR LOCK-UNLOCK SET	• ON • OFF
AUTOMATIC DOOR LOCK SELECT	SHIFT OUT OF P VH SPD
AUTOMATIC DOOR UNLOCK SE- LECT	 MODE1 MODE2 MODE3 MODE4 MODE5 MODE6
AUTOMATIC LOCK/UNLOCK SE- LECT	• ON • OFF

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [ON/OFF]	Indicates condition of door request switch LH
REQ SW-AS [ON/OFF]	Indicates condition of door request switch RH
REQ SW-BD/TR [ON/OFF]	Indicates condition of trunk request switch
CDL LOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
CDL UNLOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH
DOOR SW-RR [ON/OFF]	Indicates condition of rear door switch RH
DOOR SW-RL [ON/OFF]	Indicates condition of rear door switch LH
DOOR SW-BK [ON/OFF]	Indicates condition of trunk switch
KEY CYL LK-SW [ON/OFF]	Indicates condition of lock signal from door key cylinder switch
KEY CYL UN-SW [ON/OFF]	Indicates condition of unlock signal from door key cylinder switch

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK].

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:000000004495158

DATA MONITOR

Monitor Item [Unit]	Condition
PUSH SW [ON/OFF]	Indicates condition of ignition knob switch
I-KEY LOCK [ON/OFF]	Indicates condition of lock signal from Intelligent Key
I-KEY UNLOCK [ON/OFF]	Indicates [condition of unlock signal from Intelligent Key

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[COUPE]

Monitor Item [Unit]	Condition
I-KEY PW DWN [ON/OFF]	Indicates condition of all power window signal from Intelligent Key
I-KEY TRUNK [ON/OFF]	Indicates condition of trunk open signal from Intelligent Key
I-KEY PANIC [ON/OFF]	Indicates condition of panic signal from Intelligent Key

TRUNK

TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000004495159

DATA MONITOR

Monitor Item	Contents
PUSH SW	Indicates [ON/OFF] condition of push button ignition switch.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter.
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.
TR CANCEL SW	Indicates [ON/OFF] condition of trunk cancel switch.
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk opener switch.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
TRUNK/GLASS HATCH	This test is able to check trunk open operation. Trunk opens when "OPEN" on CONSULT-III screen is touched.

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

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COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000004204600

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause	F
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. • Transmission • Receiving (ECM) • Receiving (VDC/TCS/ABS) • Receiving (METER/M&A) • Receiving (TCM) • Receiving (MULTI AV) • Receiving (IPDM E/R)	G

Diagnosis Procedure

INFOID:0000000004204602

1.PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.

2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-42, "Intermittent Incident".

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U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[COUPE]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display de- scription	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:0000000004204604

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to BCS-100, "Removal and Installation".

Special Repair Requirement

INFOID:0000000004204605

1.REQUIRED WORK WHEN REPLACING BCM

Initialize NVIS by CONSULT-III. For the details of initialization refer to CONSULT-III Operation Manual.

>> Work End.

B2622 INSIDE KEY ANTENNA 2

< COMPONENT DIAGNOSIS >

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B2622 INSIDE KEY ANTENNA 2

Description INFOID:0000000004204609

Detects whether Intelligent Key is inside the vehicle. Installed in the console.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	Front console antenna Between BCM and front console antenna.

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(E)With CONSULT-III

- Perform front console antenna INSIDE ANT DIAGNOSIS on "Work Support" of "INTELLIGENT KEY".
- 2. Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is front console antenna DTC detected?

YES >> Refer to <u>DLK-57</u>, "<u>Diagnosis Procedure</u>".

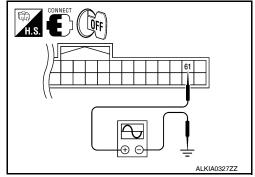
NO >> Front console antenna is OK.

Diagnosis Procedure

INFOID:0000000004204611

1. CHECK FRONT CONSOLE ANTENNA INPUT SIGNAL 1

- 1. Turn ignition switch OFF.
- Check signal between BCM connector and ground with oscilloscope.



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	Terminals				Ciamal.
	(+)		(–)	Condition	Signal (Reference value.)
ВС	M connector	Terminal	()		` ,
M19	Front console	61	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
WTS	antenna	01	Glound	Place Intelligent Key outside the vehicle.	(V) 15 10 15 10 1

Is the inspection result normal?

YES >> Check the condition of harness and connector.

NO >> GO TO 2

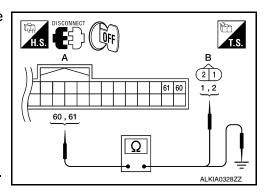
2.CHECK FRONT CONSOLE ANTENNA CIRCUIT

- 1. Disconnect BCM and front console antenna connector.
- 2. Check continuity between BCM connector and front console antenna connector.

BCM connector	Terminal	Front console antenna connector		Terminal	Continuity
A: M19	60	B: M203	Console	2	Yes
7. W19	61	D. 1VIZUS	Corisole	1	103

3. Check continuity between BCM connector and ground.

BCM	BCM connector			Continuity
A: M19	Console	60	Ground	No
A: W19		61	_	



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and front console antenna.

${f 3}.$ CHECK FRONT CONSOLE ANTENNA INPUT SIGNAL 2

- 1. Replace front console antenna (New antenna or other antenna).
- 2. Connect BCM and front console antenna connector.

B2622 INSIDE KEY ANTENNA 2

< COMPONENT DIAGNOSIS >

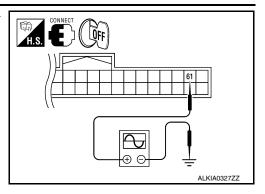
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Check signal between BCM connector and ground with oscilloscope.



	Terminals					_
	(+)		()	Condition	Signal (Reference value.)	Е
ВС	M connector	Terminal	(–)		(111 111,	
M40	Front console			Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 JMKIA0062GB	F G H
M19	antenna	61	Ground	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 JMKIA0063GB	J

Is the inspection result normal?

>> Replace front console antenna. Refer to IP-19, "Disassembly and Assembly". YES

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation". DLK

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B2623 INSIDE KEY ANTENNA 3

< COMPONENT DIAGNOSIS >

[COUPE]

B2623 INSIDE KEY ANTENNA 3

Description INFOID:000000004204612

Detects whether Intelligent Key is inside the vehicle. Installed in the trunk room.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3 CIRCUIT	An excessive high or low voltage from rear parcel shelf antenna is sent to BCM.	rear parcel shelf antenna Between BCM and rear parcel shelf antenna

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(E) With CONSULT-III

- 1. Perform rear parcel shelf antenna INSIDE ANT DIAGNOSIS on "Work Support" of "INTELLIGENT KEY".
- Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is rear parcel shelf antenna DTC detected?

YES >> Refer to <u>DLK-60</u>, "<u>Diagnosis Procedure</u>".

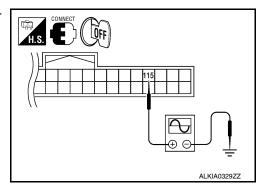
NO >> rear parcel shelf antenna is OK.

Diagnosis Procedure

INFOID:0000000004204614

$1.\mathsf{check}$ rear parcel shelf antenna input signal 1

- 1. Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



	Terminals				Cimpal
	(+)		(–)	Condition	Signal (Reference value.)
BCM	M connector	Terminal	()		
M21	Rear parcel	115	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 JMKIA0062GB
WZI	M21 Real parcel shelf antenna	113	Ground	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Check the condition of harness and connector.

NO >> GO TO 2

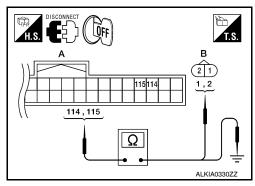
2.CHECK REAR PARCEL SHELF ANTENNA CIRCUIT

- 1. Disconnect BCM and rear parcel shelf antenna connector.
- 2. Check continuity between BCM connector and rear parcel shelf antenna connector.

BCM connector	Terminal	Rear parcel shelf an- tenna connector		Terminal	Continuity
A: M21	114	B: B29	Trunk room	2	Yes
A. W.Z.1	115	D. D29	TIGHK TOOM	1	

3. Check continuity between BCM connector and ground.

BCN	BCM connector			Continuity
A: M21	Trunk room	114	Ground	No
A. IVIZ I	Trunk room	115	_	



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and rear parcel shelf antenna.

3.CHECK REAR PARCEL SHELF ANTENNA INPUT SIGNAL 2

- 1. Replace rear parcel shelf antenna (New antenna or other antenna).
- 2. Connect BCM and rear parcel shelf antenna connector.

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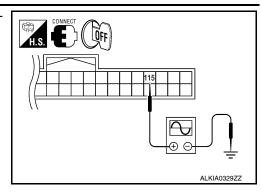
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Check signal between BCM connector and ground with oscilloscope.



	Terminals					
	(+)		(-)	Condition	Signal (Reference value.)	
BCM connector Terminal		()		,		
M21	Trunk room	115	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 JMKIA0062GB	
WE!	Trank (SSIII	110	Clound	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 JMKIA0063GB	

Is the inspection result normal?

YES >> Replace rear parcel shelf antenna. Refer to INT-16, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000004495931

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.	
1	Battery power supply	Н	
11	battery power supply	10	

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Is the fuse or fusible link blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

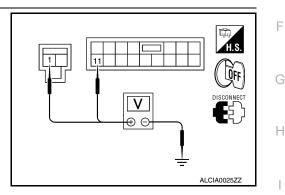
NO >> GO TO 2

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2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check voltage between BCM harness connector and ground.

((+) (-)				
В	СМ		(Approx.)		
Connector	Terminal	Ground			
M16	1	Ground	Detter veltere		
M17	11		Battery voltage		



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

$3.\,$ CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	СМ		Continuity	
Connector	Connector Terminal		Continuity	
M17	13		Yes	

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INFOID:0000000004495932

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-6, "CONFIGURATION (BCM): Special Repair Requirement".

>> Work End.

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DOOR SWITCH

Description INFOID:000000004204616

Detects door open/close condition.

Component Function Check

INFOID:0000000004204617

1. CHECK FUNCTION

(II) With CONSULT-III

Check door switches DOOR SW-DR, DOOR SW-AS in Data Monitor mode with CONSULT-III.

Monitor item	Condition
DOOR SW-DR	CLOSE → OPEN: OFF → ON
DOOR SW-AS	CLOSE → OPEN. OFF → ON

Is the inspection result normal?

YES >> Door switch is OK.

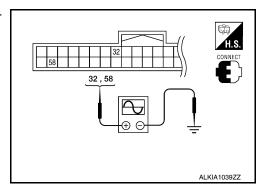
NO >> Refer to <u>DLK-64, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000004204618

1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



	Terminals					
(+)		Door c		ndition	Voltage (V)	
BCM connector	Terminal	(–)	200.00.10.10.1		(Approx.)	
				OPEN	0	
M18	58	Ground	Driver side	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB	
WITO		Ground		OPEN	0	
	32		Passenger side	CLOSE	(V) 15 10 5 0 10 ms	

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

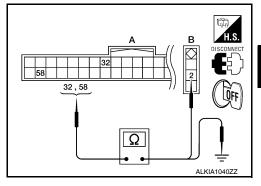
2. CHECK DOOR SWITCH CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
A: M18	58	B: B8 (Driver side)	2	Yes
A. WHO	32	B: B108 (Passenger side)	2	163

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	58	Ground	No
A: M18	32		NO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door switch.

3. CHECK DOOR SWITCH

Refer to DLK-66, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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>> Inspection End.

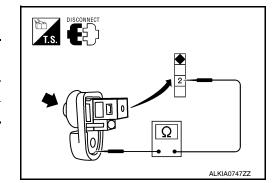
Component Inspection

INFOID:0000000004204619

1. CHECK DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- 3. Check door switch.

Terminal		Door switch condition	Continuity	
Door	switch	Door switch condition	Continuity	
2	Ground part of	Pressed	No	
2	door switch	Released	Yes	



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

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DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004204620

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000004204621

1. CHECK FUNCTION

(II) With CONSULT-III

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT-III.

Monitor item	C	Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK SW	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> With LH and RH anti-pinch, refer to <u>DLK-67, "DRIVER SIDE : Diagnosis Procedure (With LH and RH Anti-Pinch)"</u>.

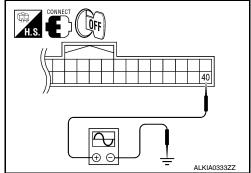
NO >> With LH anti-pinch only, refer to <u>DLK-68</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u> (With LH Anti-<u>Pinch Only</u>)".

DRIVER SIDE: Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:0000000004204622

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

 Read voltage signal between BCM connector and ground with oscilloscope when door lock and unlock switch (driver side) is turned "LOCK" or "UNLOCK".



2. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (driver side) is turned "LOCK" or "UNLOCK".

	Terminal			6: 1
(+)	(_)	Condition	Signal (Reference value)
BCM connector	Terminal	(-)	(111111,	,
M18	40	Ground	Door is closed	(V) 15 10 5 0 10 ms

< COMPONENT DIAGNOSIS > Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2.CHECK POWER WINDOW SWITCH GROUND

- 1. Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch connector.

3. Check continuity between main power window and door lock/ unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D7	15	Ground	Yes

Is the inspection result normal?

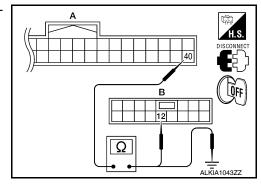
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
A: M18	40	B: D7	12	Yes



3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M18	40	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

DRIVER SIDE: Diagnosis Procedure (With LH Anti-Pinch Only)

INFOID:0000000004204623

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.

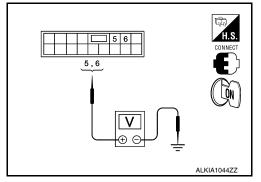
DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Terminal		Voltage
	Neutral → Lock	5	Ground	Battery voltage → 0
	Neutral → Unlock	6	Ground	Battery voltage → 0



Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.CHECK POWER WINDOW SWITCH GROUND

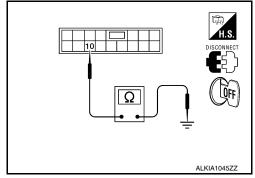
- 1. Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch connector.
- 3. Check continuity between main power window and door lock/ unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D7	10	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

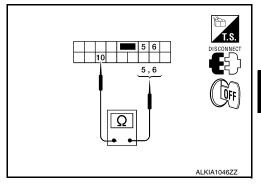
NO >> Repair or replace harness.



3. CHECK POWER WINDOW SWITCH

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity
Lock	5 - 10	Yes
Unlock	6 - 10	Yes
Neutral/Unlock	5 - 10	No
Neutral/Lock	6 - 10	No



Is the inspection result normal?

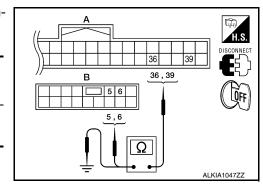
YES >> GO TO 4

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-94, "Removal and Installation".

4. CHECK POWER WINDOW SWITCH CIRCUITS

- 1. Disconnect BCM connector.
- Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
A: M18	36	B: D7	5	Yes
A. W10	39	Б. П	6	ies



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DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	36	Ground	No
	39	Giodila	INO

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE: Description

JER SIDE: Description INFOID:000000004204625

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE: Component Function Check INFOID:000000004204626

1. CHECK FUNCTION

(P)With CONSULT-III

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT-III.

Monitor item	Condition		
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDL UNLOCK SVV	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> With LH and RH anti-pinch, refer to <u>DLK-70, "PASSENGER SIDE : Diagnosis Procedure (With LH and RH Anti-Pinch)"</u>.

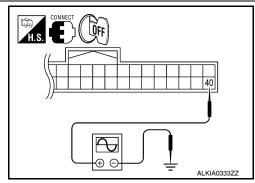
NO >> With LH anti-pinch only, refer to <u>DLK-71</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure (With LH Anti-Pinch Only)</u>".

PASSENGER SIDE: Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:0000000004204627

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- Read voltage signal between BCM connector and ground with oscilloscope when door lock and unlock switch (passenger side) is turned to "LOCK" or "UNLOCK".
- 2. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (passenger side) is turned "LOCK" or "UNLOCK".



	Terminal			
(-	+)	()	Condition	Signal (Reference value)
BCM connector	Terminal	(-)		(
M18	40	Ground	Door is closed	(V) 15 10 5 0

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2.CHECK POWER WINDOW SWITCH GROUND

- 1. Turn ignition switch OFF.
- 2. Disconnect power window and door lock/unlock switch RH connector.
- Check continuity between front power window switch (passenger side) connector and ground.

Power window and door lock/ unlock switch RH connector	Terminal		Continuity
D105	11	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3.check power window serial link circuit

- Disconnect BCM connector.
- Check continuity between BCM connector and front power window switch (passenger side) connector.

BCM connector	Terminal	Front power window switch (passenger side) connector	Terminal	Continuity
A: M18	40	B: D105	16	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M18	40	Ground	No

Power window and door lock/unlock switch RH connector

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

YES >> Inspection End.

PASSENGER SIDE : Diagnosis Procedure (With LH Anti-Pinch Only)

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

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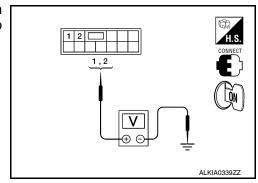
DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

- 1. Turn ignition switch ON.
- Check voltage at the power window and door lock/unlock switch RH connector when the switch (passenger side) is turned to "LOCK" or "UNLOCK".

Connector	Power window and door lock/unlock switch RH state	Terminal		Voltage
D105	Neutral → Lock	2	Ground	Battery voltage → 0
D105	Neutral → Unlock	1	Ground	Battery voltage → 0



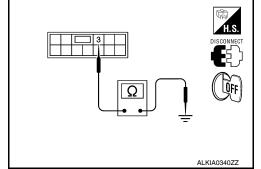
Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

$2.\mathsf{CHECK}$ POWER WINDOW SWITCH GROUND

- Turn ignition switch OFF.
- 2. Disconnect power window and door lock/unlock switch RH connector.
- 3. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/ unlock switch RH connector	Terminal		Continuity
D105	3 Ground		Yes



Is the inspection result normal?

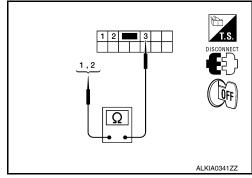
YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK POWER WINDOW SWITCH

Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH state	Terminals	Continuity
Lock	2 - 3	Yes
Unlock	1 - 3	Yes
Neutral/Unlock	2 - 3	No
Neutral/Lock	1 - 3	No



Is the inspection result normal?

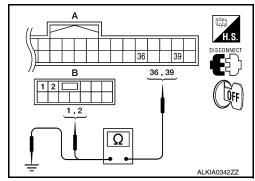
YES >> GO TO 4

NO >> Replace power window and door lock/unlock switch RH.

4. CHECK POWER WINDOW SWITCH CIRCUITS

- Disconnect BCM connector.
- 2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
A: M18	36	B: D105	2	Yes
	39		1	Yes



DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	36	Ground	No
A. WTO	39	Glound	NO

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Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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KEY SLOT

Description

Detect whether Intelligent Key is inserted.

Immobilizer antenna amp checks Intelligent Key transponder.

Component Function Check

INFOID:0000000004204631

1. CHECK FUNCTION

(P) With CONSULT-III

Check KEY SW -SLOT in Data Monitor mode with CONSULT-III.

Monitor item	Condition
KEY SW-SLOT	Key is inserted in key slot: ON
KEY SW-SLOT	Key is removed from key slot: OFF

Is the inspection result normal?

YES >> Key slot is OK.

NO >> Refer to <u>DLK-74, "Diagnosis Procedure"</u>.

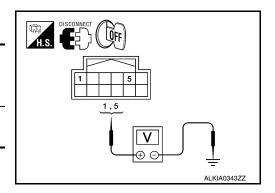
Diagnosis Procedure

INFOID:0000000004204632

1. CHECK KEY SLOT POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect key slot connector.
- 3. Check voltage between key slot connector and ground.

	Voltage (V) (Approx.)		
(+			
Key slot connector	Terminal	(-)	(11 /
M40	1	Ground	Battery voltage
IVI T O	5	Ground	Dattery voltage



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace key slot power supply circuit.

2.CHECK KEY SLOT GROUND CIRCUIT

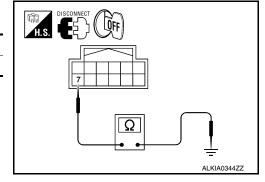
Check continuity between key slot connector and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7	Glound	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot ground circuit.



3. CHECK KEY SLOT CIRCUIT

1. Disconnect BCM connector.

KEY SLOT

< COMPONENT DIAGNOSIS >

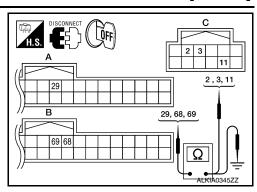
[COUPE]

Check continuity between BCM connector and key slot connector.

BCM connector	Terminal	Key slot connector	Terminal	Continuity
A: M18	29		11	Yes
B: M19	68	C: M40	2	Yes
D. W19	69		3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	29		
B: M19	68	Ground	No
B. W19	69		



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Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness between BCM and key slot.

4. CHECK KEY SLOT

Refer to DLK-75, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace key slot.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204633

1. CHECK KEY SLOT

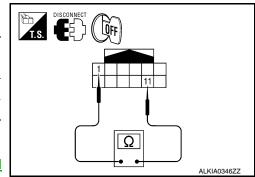
Check key slot.

Terminal		Condition	Continuity
Key slot		Continuity	Continuity
1	1 11	Intelligent Key inserted	Yes
ı		Intelligent Key removed	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace key slot. Refer to <u>SEC-219</u>, "Removal and Installation".



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KEY CYLINDER SWITCH

Description INFOID:0000000004204634

For vehicles equipped with LH and RH anti-pinch system, the main power window and door lock/unlock switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signal.

For vehicles equipped with LH anti-pinch system only, the door lock assembly LH (key cylinder switch) transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:0000000004204635

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to DLK-11, "Work Flow".

Monitor item	Co	ndition	
KEY CYL LK-SW	Lock	: ON	
RET CTL LR-SW	Neutral / Unlock	: OFF	
KEN CAL TIN CM	Unlock	: ON	
KEY CYL UN-SW	Neutral / Lock	: OFF	

Is the inspection result normal?

>> Key cylinder switch is OK. YES

>> With LH and RH anti-pinch, refer to <u>DLK-76</u>, "<u>Diagnosis Procedure (With LH and RH Anti-Pinch)</u>". >> With LH anti-pinch only, refer to <u>DLK-77</u>, "<u>Diagnosis Procedure (With LH Anti-Pinch Only)</u>". NO

NO

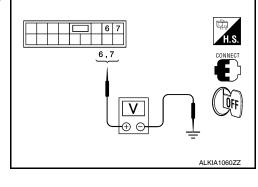
Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:0000000004204636

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- Turn ignition switch ON.
- Check voltage between main power window and door lock/ unlock switch connector and ground.

Terminals					
(+)			Voltage (V)		
Main power window and door lock/unlock switch connector	Terminal	(–)	Key position	(Approx.)	
	6	Lock	0		
D7	O	Ground	Neutral / Unlock	5	
DI	7	Giodila	Unlock	0	
	,		Neutral / Lock	5	



Is the inspection result normal?

>> Replace main power window and door lock/unlock switch. Refer to DLK-218, "FRONT DOOR YES LOCK: Removal and Installation".

NO >> GO TO 2

2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch connector and door lock assembly LH (key cylinder switch) connector.

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Check continuity between main power window and door lock/ unlock switch connector and door lock assembly LH (key cylinder switch) connector.

Main power window and door lock/unlock switch connector	Terminal	Door lock assembly LH (key cylinder switch) connector	Terminal	Continuity
A· D7	6	B: D10	6	Yes
Α: υ/	7	סוט.	5	168

Check continuity between main power window and door lock/ unlock switch connector and ground.

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Power window main switch connector	Terminal		Continuity
A: D7	6	Ground	No
A. D1	7		INO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

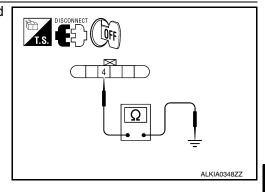
Check continuity between door lock assembly LH connector and ground.

Door lock assembly LH connector	Terminal	Ground	Continuity
D10	4	Ground	Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.



4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to <u>DLK-78</u>, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace door lock assembly LH (key cylinder switch). Refer to DLK-218, "FRONT DOOR LOCK: Removal and Installation".

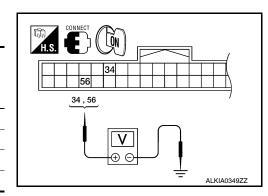
Diagnosis Procedure (With LH Anti-Pinch Only)

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Turn ignition switch ON.

Check voltage between BCM connector and ground.

	Terminals			
(+)		(-)	Key position	Voltage (V) (Approx.)
BCM connector	Terminal	(-)		(
	56	Ground	Lock	0
M18			Neutral / Unlock	5
34	Giouna	Unlock	0	
34			Neutral / Lock	5
		•	•	



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INFOID:0000000004204637

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< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-94, "Removal and Installation".

NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect door lock assembly LH (key cylinder switch) connector.

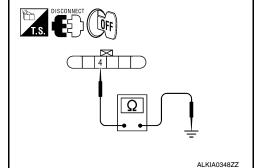
3. Check continuity between door lock assembly LH (key cylinder switch) connector and ground.

Door lock assembly LH connector	Terminal	Ground	Continuity
D10	4	Orouna	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.



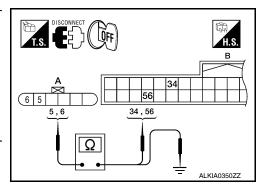
3.check door key cylinder signal circuit

- Disconnect BCM connector M18.
- Check continuity between door lock assembly LH (key cylinder switch) connector and BCM connector M18.

Door lock assembly LH connector	Terminal	BCM connector	Terminal	Continuity
A: D10	5	B: M18	34	Yes
A. D10	6	B. WTO	56	163

Check continuity between door lock assembly LH (key cylinder switch) connector and ground.

	_		
Door lock assembly LH connector	Terminal		Continuity
A: D10	5	Ground	No
A. D10	6		NO



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-78, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace door lock assembly LH (key cylinder switch). Refer to <u>DLK-218, "FRONT DOOR LOCK : Removal and Installation"</u>.

Component Inspection

INFOID:0000000004204638

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

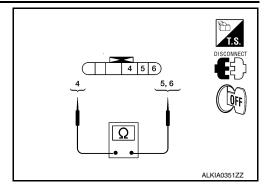
KEY CYLINDER SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

Check door lock assembly LH (key cylinder switch).

Terminal			
Door lock assembly LF	(key cylinder switch)	Key position	Continuity
5		Unlock	Yes
3	4	Neutral / Lock	No
6		Lock	Yes
		Neutral / Unlock	No



Is the inspection result normal?

NO

YES >> Key cylinder switch is OK.

>> Replace door lock assembly LH (key cylinder switch). Refer to DLK-218, "FRONT DOOR LOCK: Removal and Installation".

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UNLOCK SENSOR

Description

Detects door lock condition of driver door.

Component Function Check

INFOID:0000000004204641

1. CHECK FUNCTION

(P)With CONSULT-III

Check unlock sensor UNLK SEN-DR in "Data Monitor" mode.

Monitor item		Condition
UNLK SEN-DR		Door lock (driver side) LOCK: OFF
ONER SEN-DR	Door lock (driver side) UNLOCK: ON	

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to <u>DLK-80, "Diagnosis Procedure"</u>.

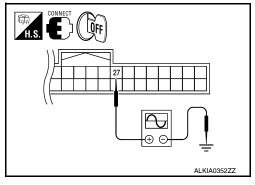
Diagnosis Procedure

INFOID:0000000004204642

1. CHECK UNLOCK SENSOR POWER SUPPLY

Check signal between BCM connector and ground with oscilloscope.

	Terminals			
(+	-)		Door lock assembly	Voltage (V)
BCM connector	Terminal	(-)	LH condition	(Approx.)
M18	27	Ground	Locked	(V) 15 10 5 0 10 ms JPMIA0011GB
			Unlocked	0



Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

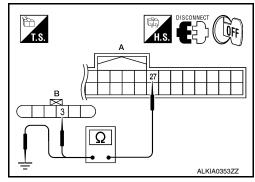
2.CHECK UNLOCK SENSOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM and door lock assembly LH connector.
- Check continuity between BCM connector and door lock assembly LH connector.

BCM connector	Terminal	Door lock assembly LH connector	Terminal	Continuity
A: M18	27	B: D10	3	Yes

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M18	27	Orodria	No



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Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door lock assembly LH.

3.check unlock sensor ground circuit

Check continuity between door lock assembly LH connector and ground.

Door lock assembly LH connector	Terminal	Ground	Continuity
D10	4		Yes

DISCONNECT OFF

Is the inspection result normal?

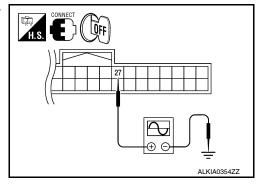
YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM harness connector.
- Check signal between BCM connector and ground with oscilloscope.

Terr	minals		
(+)		()	Voltage (V) (Approx.)
BCM connector	Terminal	(–)	(
M18	27	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to <u>BCS-100</u>, "Removal and Installation".

5. CHECK UNLOCK SENSOR

Refer to DLK-81, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace door lock assembly LH. Refer to <u>DLK-218, "FRONT DOOR LOCK: Removal and Installation"</u>.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK UNLOCK SENSOR

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INFOID:0000000004204643

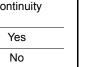
UNLOCK SENSOR

< COMPONENT DIAGNOSIS >

[COUPE]

Check unlock sensor.

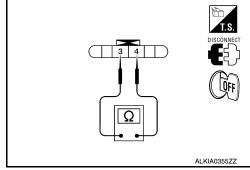
Term	ninal	Door lock assembly LH condition	Continuity	
Door lock assembly LH		Door lock assembly Lift condition	Continuity	
2	4	Unlock	Yes	
3	4	Lock	No	



Is the inspection result normal?

YES >> Inspection End.

>> Replace door lock assembly LH. Refer to <u>DLK-218</u>. "FRONT DOOR LOCK: Removal and Installation". NO



TRUNK LID OPENER SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

INFOID:0000000004204645

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TRUNK LID OPENER SWITCH

Description

Description INFOID:000000004204644

Transmits trunk lid open signal to BCM.

Component Function Check

1. CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Does trunk lid opener cancel switch turn ON (CANCEL)?

Yes >> Turn off trunk lid opener cancel switch.

No >> GO TO 2

2. CHECK FUNCTION

(P) With CONSULT-III

Check trunk lid opener switch TR/BD OPEN SW in "Data Monitor mode with CONSULT-III.

• When trunk lid opener switch is turned to "ON".

Monitor item	Condition	
TR/BD OPEN SW	Trunk lid opener switch is pressed: ON	
TIVED OF LINGW	Trunk lid opener switch is released: OFF	

Is the inspection result normal?

YES >> Trunk lid opener switch is OK.

NO >> Refer to <u>DLK-83</u>, "<u>Diagnosis Procedure</u>".

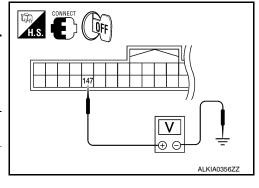
Diagnosis Procedure

INFOID:0000000004204646

1. CHECK TRUNK LID OPEN INPUT SIGNAL

- 1. Remove Intelligent Key from key slot.
- 2. Turn on trunk lid opener cancel switch.
- 3. Check voltage between BCM connector and ground.

Terminals			Condition of	Voltage (V)	
(+)			trunk lid		
BCM connector	Terminal	(–)	opener switch	(Approx.)	
			ON (press and hold)	0	
M21	147	Ground	OFF (re- lease)	(V) 15 10 5 0 10 ms JPMIA0011GB	



Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.CHECK TRUNK LID OPENER SWITCH CIRCUIT

Disconnect BCM connector.

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TRUNK LID OPENER SWITCH

< COMPONENT DIAGNOSIS >

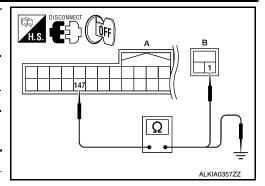
[COUPE]

Check continuity between BCM connector and trunk lid opener switch connector.

BCM connector	Terminal	Trunk lid opener switch connector	Terminal	Continuity
A: M21	147	B: M75	1	Yes

3. Check continuity between BCM connector and ground.

		Ground	Continuity	
A: M21	147	Oround	No	



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3.check trunk lid opener switch ground circuit

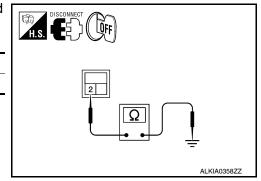
Check continuity between trunk lid opener switch connector and ground.

Trunk lid opener switch	Terminal	Ground	Continuity
M75	2	Oloulia	Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.



4. CHECK TRUNK LID OPENER SWITCH

Refer to DLK-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace trunk lid opener switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

1.CHECK TRUNK LID OPENER SWITCH

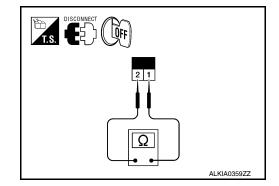
1. Turn ignition switch OFF.

Component Inspection

- 2. Disconnect trunk lid opener switch connector.
- 3. Check continuity between trunk lid opener switch connector.



INFOID:0000000004204647



TRUNK LID OPENER SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

Ter	minal	Condition	Continuity	
Trunk lid o	pener switch	Condition		
1	2	ON (press and hold)	Yes	
ı	2	OFF (release)	No	

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Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.

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TRUNK LID OPENER CANCEL SWITCH

Description INFOID:0000000004204648

Cancels trunk lid open operation.

Component Function Check

INFOID:0000000004204649

1. CHECK FUNCTION

(P) With CONSULT-III

Check trunk lid opener cancel switch TR CANCEL SW in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
TR CANCEL SW	Trunk lid opener cancel switch is turned to "ON": ON	
TR CANGLE SW	Trunk lid opener cancel switch is turned to "OFF": OFF	

Is the inspection result normal?

YES >> Trunk lid opener cancel switch is OK.

>> Refer to DLK-86, "Diagnosis Procedure". NO

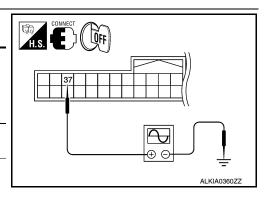
Diagnosis Procedure

INFOID:0000000004204650

1. CHECK TRUNK LID OPENER CANCEL SIGNAL

Check voltage between BCM connector and ground.

	Terminals		Condition of	Voltage (V)	
(+)			trunk lid		
BCM connector	Terminal	(-)	opener can- cel switch	(Approx.)	
			ON (press and hold)	0	
M18	37	Ground	OFF (cancel)	(V) 15 10 5 0 10 ms JPMIA0012GB	



Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

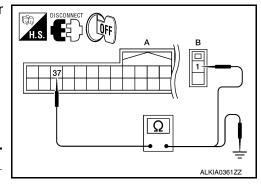
2.check trunk lid opener cancel switch circuit

- Disconnect BCM connector.
- Check continuity between BCM connector and trunk lid opener cancel switch connector.

BCM connector	Terminal	Trunk lid opener cancel switch connector	Terminal	Continuity
A: M18	37	B: M74	1	Yes

Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity	
A: M18	37	Oround	No	



TRUNK LID OPENER CANCEL SWITCH

< COMPONENT DIAGNOSIS >

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Is the inspection result normal?

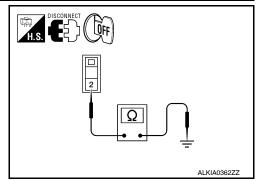
YES >> GO TO 3

NO >> Repair harness or connector.

${f 3.}$ CHECK TRUNK LID OPENER CANCEL SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch connector and ground.

Trunk lid opener cancel switch	Terminal	Ground	Continuity
M74	2		Yes



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER CANCEL SWITCH

Refer to DLK-87, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace trunk lid opener cancel switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

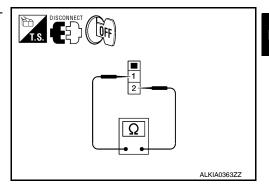
>> Inspection End.

Component Inspection

INFOID:0000000004204651

1. CHECK TRUNK LID OPENER CANCEL SWITCH

- 1. Disconnect trunk lid opener cancel switch connector.
- Check continuity between trunk lid opener cancel switch terminals.



Ter	minal	Condition	Continuity	
Trunk lid opener switch		Condition	Continuity	
1	2	ON	Yes	
ı	2	OFF (cancel)	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener cancel switch.

Revision: February 2010 DLK-87 2009 Altima

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TRUNK ROOM LAMP SWITCH

Description INFOID:0000000004204652

Detects trunk open/close condition.

Component Function Check

INFOID:0000000004204653

1. CHECK FUNCTION

(III) With CONSULT-III

Check TRNK/HAT MNTR in Data Monitor mode with CONSULT-III.

Monitor item		Condition	
TRNK/HAT MNTR	OPEN	: ON	
TIMINITAL WINTE	CLOSE	: OFF	

Is the inspection result normal?

YES >> Trunk room lamp switch is OK.

>> Refer to DLK-88, "Diagnosis Procedure". NO

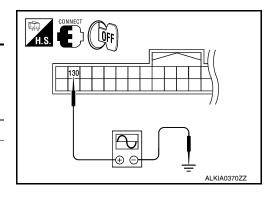
Diagnosis Procedure

INFOID:0000000004204654

1. CHECK TRUNK LAMP SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between BCM connector and ground.

	Terminals				
(+)			Trunk	Voltage (V)	
BCM connector	Terminal	(–)	condition	(Approx.)	
			OPEN	0	
M21	130	Ground	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB	
			10		



Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

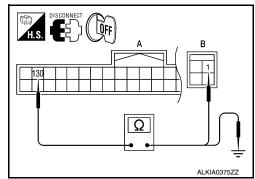
2.CHECK TRUNK LAMP SWITCH CIRCUIT

Disconnect BCM and trunk lamp switch and trunk release solenoid connectors.

Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
A: M21	130	B: T4	1	Yes

Check continuity between BCM connector and ground.



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BCM connector	Terminal	Ground	Continuity
A: M21	130	Ground	No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk lamp switch and trunk release solenoid.

3.CHECK TRUNK LAMP SWITCH GROUND CIRCUIT

Check continuity between trunk lid lock assembly connector and ground.

Trunk lamp switch and trunk release solenoid connector	Terminal	Ground	Continuity
T4	2		Yes

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Is the inspection result normal?

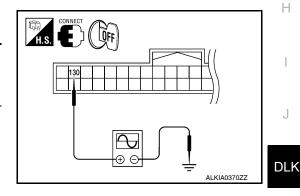
YES >> GO TO 4

NO >> Repair or replace trunk lamp switch and trunk release solenoid ground circuit.

4. CHECK BCM OUTPUT SIGNAL

- 1. Insure trunk remains closed during this step.
- Connect BCM connector.
- 3. Check voltage between BCM connector and ground.

	minals	Voltage (V)	
(+)	Torminal	(-)	Voltage (V) (Approx.)
BCM connector	Terminal		
M21	130	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

5. CHECK TRUNK ROOM LAMP SWITCH

Refer to DLK-89, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk lamp switch and trunk release solenoid.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK TRUNK LAMP SWITCH

Turn ignition switch OFF.

Revision: February 2010

INFOID:0000000004204655

DLK-89 2009 Altima

TRUNK ROOM LAMP SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

2. Disconnect trunk lamp switch and trunk release solenoid connector.

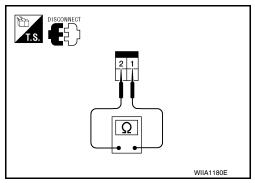
3. Check trunk lamp switch.

Terminal		Trunk condition	Continuity	
Trunk lamp switch and	trunk release solenoid	Trank condition	Continuity	
1	2	OPEN	Yes	
,	2	CLOSE	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lamp switch and trunk release solenoid.



DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

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DOOR REQUEST SWITCH

Description INFOID:0000000004204656

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000004204657

INFOID:0000000004204658

1. CHECK FUNCTION

(II) With CONSULT-III

Check door request switch REQ SW-DR, REQ SW-AS in Data Monitor mode.

Monitor item	Condition
REQ SW-DR	Door request switch is pressed : ON
REQ SW-AS	Door request switch is released : OFF

Is the inspection result normal?

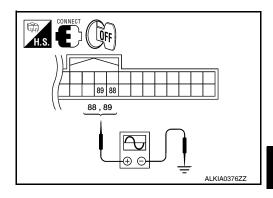
YES >> Door request switch is OK.

NO >> Refer to <u>DLK-91, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK DOOR REQUEST SWITCH OUTPUT SIGNAL

- Turn ignition switch OFF.
- 2. Check voltage between BCM harness connector and ground.



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	Terminals				
	(+)		()	Door request switch Condition	Voltage (V) (Approx.)
-	BCM connector	Terminal	(–)		, , ,
				Pressed	0
M19	Door request switch (driver side)	89	- Ground	Released	(V) 15 10 5 0 20 ms JMKIA0059GB
				Pressed	0
	Door request switch (passenger side)	88		Released	(V) 15 10 5 0 20 ms JMKIA0059GB

Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

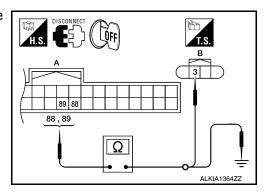
2.CHECK DOOR REQUEST SWITCH CIRCUIT

- 1. Disconnect BCM and front outside handle connector.
- 2. Check continuity between BCM connector and front outside handle connector.

BCM connector	Terminal	Front outside handle connector	Terminal	Continuity
A: M19	89	B: D6 (driver side)	3	Yes
A. WITS	88	B: D106 (passenger side)	3	165

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M19	89	Ground	No
A. IVI 19	88		NO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and front outside handle.

3. CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

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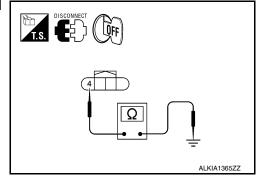
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Check continuity between front outside handle connector and ground.

Front outside handle connector	Terminal	ıl Ground	Continuity
D6 (driver side)	4		Yes
D106 (passenger side)	4		165



Is the inspection result normal?

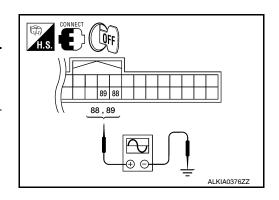
YES >> GO TO 4

NO >> Repair or replace front outside handle ground circuit.

CHECK BCM OUTPUT SIGNAL

- Connect BCM connector.
- Check voltage between BCM connector and ground.

-	Terminals			
(+)		()	Voltage (V) (Approx.)	
BCM connector	Terminal	(–)	(, , , , , , , , , , , , , , , , , , ,	
	89			
M19	88	Ground	(V) 15 10 5 0 20 ms	



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

5. CHECK DOOR REQUEST SWITCH

Refer to DLK-93, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace malfunctioning front outside handle.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

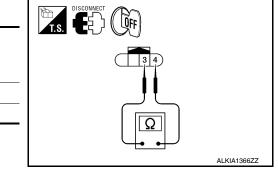
1. CHECK DOOR REQUEST SWITCH

Check front outside handle (request switch).

Terminal		Door request switch		
	nandle (request itch)	condition	Continuity	
3	4	Pressed	Yes	
	7	Released	No	

Is the inspection result normal?

YES >> Inspection End.



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DOOR REQUEST SWITCH

[COUPE]

NO >> Replace malfunction front outside handle.

TRUNK OPENER REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

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TRUNK OPENER REQUEST SWITCH

Description INFOID:0000000004204660

Performs trunk lid open request when it is pressed.

Component Function Check

1. CHECK FUNCTION

(P) With CONSULT-III

Check trunk opener request switch REQ SW -BD/TR in Data Monitor mode.

Monitor item	Condition
REQ SW -BD/TR	Trunk opener request switch is pressed : ON
וועט- אין ועט- און ועט-	Trunk opener request switch is released : OFF

Is the inspection result normal?

YES >> Trunk opener request switch is OK.

NO >> Refer to DLK-95, "Diagnosis Procedure".

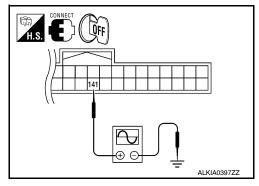
Diagnosis Procedure

1. CHECK TRUNK OPENER REQUEST SWITCH OUTPUT SIGNAL

Turn ignition switch OFF.

Check voltage between BCM connector and ground.

	Terminals		Trunk lid	
(+	-)		opener re-	Voltage (V)
BCM connector	Terminal	(–)	quest switch condition	(Approx.)
			Pressed	0
M21	141	Ground	Released	(V) 15 10 5 0 10 ms JPMIA0016GB



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Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

2.check trunk opener request switch circuit

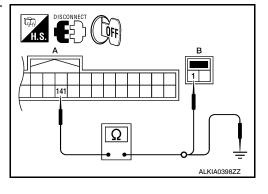
Disconnect BCM and trunk opener request switch connector.

Check continuity between BCM connector and trunk opener request switch connector.

BCM connector	Terminal	Trunk opener request switch connector	Terminal	Continuity
A: M21	141	B: T2	1	Yes

Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M21	141	Glound	No



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< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3 NO >> Repair or replace harness between BCM and trunk opener request switch.

3.check trunk opener request switch ground circuit

Check continuity between trunk opener request switch connector and ground.

Trunk opener request switch connector	Terminal	Ground	Continuity
T2	2		Yes

TI.S. PED OFF

Is the inspection result normal?

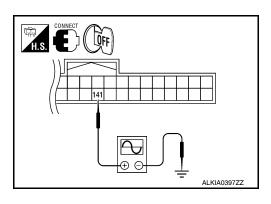
YES >> GO TO 4

NO >> Repair or replace trunk opener request switch ground circuit.

4. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM connector.
- 2. Check voltage between BCM connector and ground.

	Terminals	Voltage (V)		
(+)		(-)	Voltage (V) (Approx.)	
BCM connector	Terminal	()		
M21	141	Ground	(V) 15 10 5 0 10 ms JPMIA0016GB	



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

${f 5}.$ CHECK TRUNK OPENER REQUEST SWITCH

Refer to DLK-96, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk opener request switch.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204663

1. CHECK TRUNK OPENER REQUEST SWITCH

TRUNK OPENER REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[COUPE]

Check trunk opener request switch.

Terminal Trunk opener request switch		Trunk opener request switch	Continuity	
		condition		
1	2	Pressed	Yes	
'	1 2	Released	No	

DISCONNECT OFF

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk opener request switch.

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DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004204664

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000004204665

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-98</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

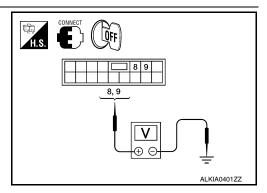
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004204666

1. CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Ter	rminals		Condition of	V II
(+)		door lock and		Voltage (V) (Approx.)
BCM connector	Terminal	(-)	unlock switch	(11 -)
M17	8	Ground	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
IVI I I	9	Ground	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$



Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 2

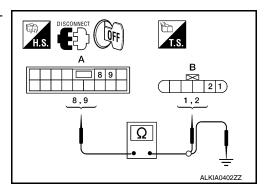
2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and door lock actuator driver side connector.
- 3. Check continuity between BCM connector and door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
A: M17	8	B: D10	1	Yes
A. WH	9	5.010	2	163

Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
	9	Ground	140



Is the inspection result normal?

YES >> Replace door lock actuator LH.

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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INFOID:0000000004204668

INFOID:0000000004204669

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>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

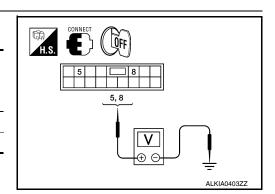
NO >> Refer to <u>DLK-99</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

PASSENGER SIDE: Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Te	rminals		Condition of	V 14 0 0	
(+)		(-)	door lock and	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)	unlock switch	unlock switch	,
M17	8	Ground	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	
IVI I 7	5	Ground -	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	



Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 2

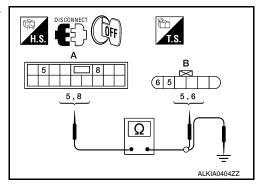
2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM and door lock actuator RH connectors.
- Check continuity between BCM connector and door lock actuator RH.

BCM connector	Terminal	Door lock actuator RH connector	Terminal	Continuity
A: M17	8	B: D108	5	Yes
A. IVI 17	5	D. D100	6	162

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
	5	Giodila	140



Is the inspection result normal?

YES >> Replace door lock actuator RH.

NO >> Repair or replace harness.

3.check intermittent incident

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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TRUNK LID OPENER ACTUATOR

Description INFOID:000000004204670

Performs trunk lid open with signal from BCM.

Component Function Check

INFOID:0000000004204671

1. CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Is trunk lid opener cancel switch turned OFF (CANCEL)?

Yes >> Turn on trunk lid opener cancel switch.

No >> GO TO 2

2. CHECK FUNCTION

- 1. Perform Active Test TRUNK/GLASS HATCH with CONSULT-III.
- 2. Touch "OPEN" and check that trunk lid opens.

Is the inspection result normal?

YES >> Trunk lid opener actuator is OK.

NO >> Refer to <u>DLK-100</u>, "<u>Diagnosis Procedure</u>".

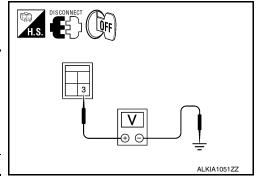
Diagnosis Procedure

INFOID:0000000004204672

1. CHECK OUTPUT CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect trunk lamp switch and trunk release solenoid connector.
- 3. Check voltage between trunk lamp switch and trunk release solenoid connector and ground.

Te	erminals				
(+)			Condition of		
Trunk lamp switch and trunk release solenoid connector	Terminal	(–)	trunk lid opener switch	Voltage (V) (Approx.)	
B28	3	Ground	$OFF \to ON$	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	



Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Te	erminals		Condition of			
(+)		(–) trunk lid opener switch	(-)	trunk lid opener		Voltage (V) (Approx.)
BCM connector	Terminal		•	,		
M20	103	Ground	$OFF \to ON$	$0 \rightarrow \text{Battery voltage} \rightarrow 0$		

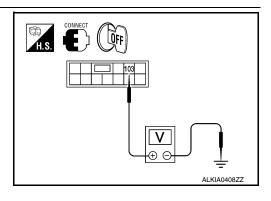
Is the inspection result normal?

YES >> Repair or replace harness.

NO >> GO TO 3

3.check trunk lid opener actuator circuit

Disconnect BCM.



TRUNK LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

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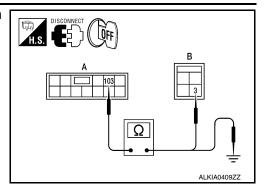
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2. Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
A: M20	103	B: B28	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M20	103 Ground		No



Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-100, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER GROUND CIRCUIT

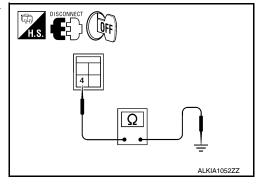
Check continuity between trunk lamp switch and trunk release solenoid connector and ground.

trunk lamp switch and trunk release solenoid connector	Terminal		Continuity
B28	4 Ground		Yes

Is the inspection result normal?

YES >> Replace trunk lamp switch and trunk release solenoid.

NO >> Repair or replace harness.



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Revision: February 2010 DLK-101 2009 Altima

INTELLIGENT KEY WARNING BUZZER

Description INFOID:000000004204673

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:0000000004204674

1. CHECK FUNCTION

(P) With CONSULT-III

Check Intelligent Key warning buzzer OUTSIDE BUZZER in Active Test mode.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer (engine room) is OK.

NO >> Refer to <u>DLK-102</u>, "<u>Diagnosis Procedure</u>".

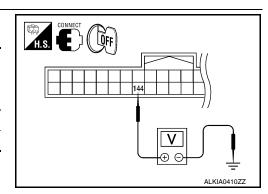
Diagnosis Procedure

INFOID:0000000004204675

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check voltage between BCM connector and ground.

Т	erminals			V 16 0.0	
(+)		(–)	Warning buzzer op- eration condition	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)		(
M21	144	Ground	ON	0	
1012 1	144	Ground	OFF	Battery voltage	



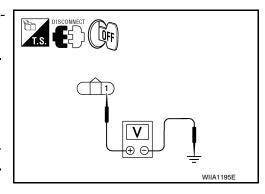
Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect Intelligent Key warning buzzer connector.
- Check voltage between Intelligent Key warning buzzer connector and ground.

(-	+)		Voltage (V)
Intelligent Key warning buzzer Terminal connector		(–)	(Approx.)
E73	1	Ground	Battery voltage



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace Intelligent Key warning buzzer power supply circuit.

${f 3}$.check intelligent key warning buzzer circuit

1. Disconnect BCM connector.

INTELLIGENT KEY WARNING BUZZER

< COMPONENT DIAGNOSIS >

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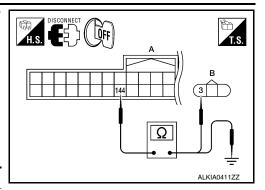
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Check continuity between BCM connector and Intelligent Key warning buzzer connector.

BCM connector	Terminal	Intelligent Key warning buzzer connector	Terminal	Continuity
A: M21	144	B: E73	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M21	144	Ground	No



Is the inspection result normal?

OK >> GO TO 4

NG >> Repair or replace harness between BCM and Intelligent Key warning buzzer.

4. CHECK INTELLIGENT KEY WARNING BUZZER

Check DLK-103, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace Intelligent Key warning buzzer.

5. CHECK INTERMITTENT INCIDENT

Check GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204676

1. CHECK INTELLIGENT KEY WARNING BUZZER

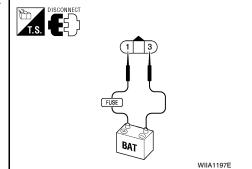
Connect battery power supply to Intelligent Key warning buzzer terminals 1 and 3, and check the operation.

1 (BAT+) - 3 (BAT-) : the buzzer sounds

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace Intelligent Key warning buzzer.



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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

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OUTSIDE KEY ANTENNA

Description

Detects whether Intelligent Key is outside the vehicle.

Integrated in front outside handle (driver side, passenger side) and installed in rear bumper.

Component Function Check

INFOID:0000000004204678

1. CHECK DOOR REQUEST SWITCH

Check that door request switch operates normally.

Is the inspection result normal?

YES >> GO TO 2

NO >> Inspect door request switch. Refer to DLK-91, "Component Function Check".

2. CHECK FUNCTION

Be sure that Intelligent Key is in each outside key antenna detection range.

Does door lock/unlock when each request switch is pressed?

YES >> Outside key antenna is OK.

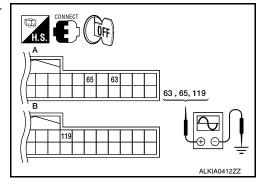
NO >> Refer to <u>DLK-104</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204679

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

- Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



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Terminals (+) BCM connector Terminal (-)				0:		
		()	Condition		Signal (Reference value.)	
		(-)			(13333333)	
	Driver side	65				
A: M19	Passenger side	63			When Intelligent Key is in the antenna detection area.	(V) 15 10 5 0 1 s
B: M21	Rear bumper	119	Ground	Request switch is pushed	When Intelligent Key is not in the antenna detection area.	(V) 15 10 5 0 1 s JMKIA0060GB

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

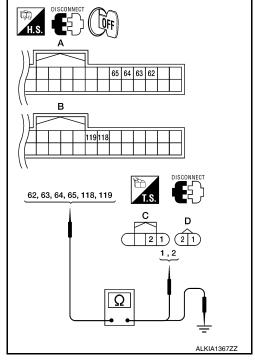
2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM and front outside handle connector.
- 2. Check continuity between BCM connector and outside key antenna connector.

BCM connector	Terminal	Outside key antenna connector	Terminal	Continuity
	65	D6 (driver side)	1	
A: M19	64	Do (driver side)	2	
	63	D106 (passenger	1	Yes
	62	side)	2	162
B: M21	119	B46 (rear bumper)	1	
	118	B40 (real bumper)	2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity	
	62			
A: M19	63		No	
A. WITS	64 Gro	Ground		
	65			
B: M21	118	1		
D. IVIZ I	119			



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and outside key antenna.

${\it 3.}$ CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- 1. Replace outside key antenna. (New antenna or other antenna)
- 2. Connect BCM and outside key antenna connector.

Revision: February 2010 DLK-105 2009 Altima

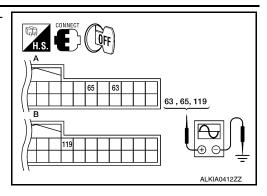
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3. Check signal between BCM connector and ground with oscilloscope.



Terminals (+)						
		()	Condition		Signal (Reference value.)	
BCM	connector	Terminal	(–)			(**************************************
	Driver side	65				
A: M19	Passenger side	63	Ground	Door request	When Intelligent Key is in the antenna detection area.	(V) 15 10 5 0 JMKIA0061GB
B: M21	Rear bumper	119	Glound	switch is pushed	When Intelligent Key is not in the antenna detection area.	(V) 15 10 5 0 1 s JMKIA0060GB

Is the inspection result normal?

YES >> Replace outside key antenna.

NO >> GO TO 4

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

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REMOTE KEYLESS ENTRY RECEIVER

Description INFOID:0000000004204680

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:0000000004204681

1. CHECK FUNCTION

(P)With CONSULT-III

Check remote keyless entry receiver RKE OPE COUN1 in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key.

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

NO >> Refer to DLK-107, "Diagnosis Procedure".

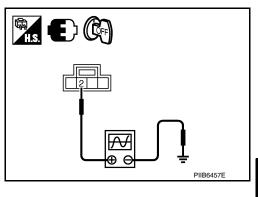
Diagnosis Procedure

INFOID:0000000004204682

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

- Turn ignition switch OFF.
- Check signal between remote keyless entry receiver connector and ground with oscilloscope.

	Terminals				
(+	(+)				
Remote keyless entry receiver connector	Terminal	(–)	Condition	Signal (Reference value)	
M27	2	Ground	Waiting (All doors closed)	(V) 15 10 5 1 ms JMKIA0064GB	
IVIZ 7	2	Glound	When signal is received (All doors closed)	(V) 15 10 5 0 1 ms JMKIA0065GB	



Is the inspection result normal?

YES >> GO TO 7 NO >> GO TO 2

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

Disconnect remote keyless entry receiver connector.

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DLK-107 Revision: February 2010 2009 Altima

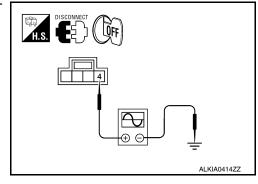
REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

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Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Т	erminals		
(+)			Signal
Remote keyless entry receiver connector	Terminal	(–)	(Reference value)
M27	4	Ground	(V) 15 10 5 0 1 ms JMKIA0064GB



Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 3

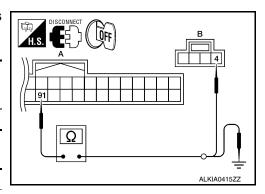
3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	91	B: M27	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	91	Gloulia	No



Is the inspection result normal?

YES >> Reconnect BCM, GO TO 4

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver connector and ground.

Remote keyless entry re- ceiver connector	Terminal	Ground	Continuity
M27	1		Yes

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Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 5

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

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Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M18	45	B: M27	1	Yes

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Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

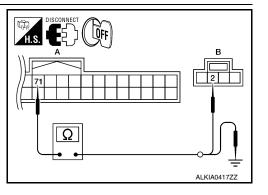
6. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

1. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	71	B: M27	2	Yes

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	71	Ground	No



Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry.

7. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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[COUPE]

INTELLIGENT KEY BATTERY AND FUNCTION

Description INFOID:000000004204683

The following functions are available when having and carrying electronic ID.

- Door lock/unlock
- Trunk open

Remote control entry function and panic alarm function are available when operating the remote buttons.

Component Function Check

INFOID:0000000004204684

1. CHECK FUNCTION

(P)With CONSULT-III

Check remote keyless entry receiver RKE OPE COUN1 in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to <u>DLK-110</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004495968

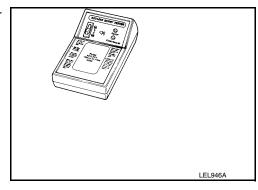
1. CHECK INTELLIGENT KEY FUNCTION

Check Intelligent Key function using Remote Keyless Entry Tester J-43241.

Does the test pass?

YES >> Intelligent Key is OK.

NO >> GO TO 2



2. CHECK INTELLIGENT KEY COMPONENTS

- 1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
- Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The Intelligent Key is water-resistant. However, if it does get wet, immediately wipe it dry.
- 3. Remove the Intelligent Key battery.

CAUTION:

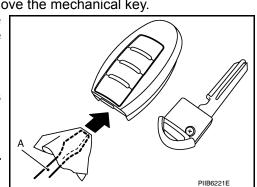
- Keep dirt, grease, and other foreign materials off the electrode contact area.
- 4. Visually inspect Intelligent Key internal components.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace malfunctioning parts.

3.check intelligent key battery



INTELLIGENT KEY BATTERY AND FUNCTION

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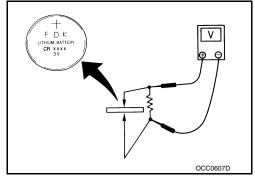
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard: Approx. 2.5 - 3.0V

Is the measurement value within specification?

YES >> Intelligent Key battery is OK. Check remote keyless entry receiver. Refer to <u>DLK-107</u>, "Component Function Check".

NO >> GO TO 4



4. REPLACE INTELLIGENT KEY BATTERY

- 1. Replace the Intelligent Key battery.
- 2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

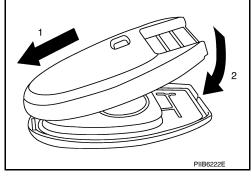
CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- 3. After replacing the battery, check that all Intelligent Key functions work properly.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Check remote keyless entry receiver. Refer to <u>DLK-107</u>, "Component Function Check".



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< COMPONENT DIAGNOSIS >

KEY SLOT ILLUMINATION

Description

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:0000000004204689

1. CHECK FUNCTION

(P) With CONSULT-III

Check key slot illumination KEY SLOT ILLUMI in Active Test mode.

Is the inspection result normal?

YES >> Key slot function is OK.

NO >> Refer to <u>DLK-112</u>, "<u>Diagnosis Procedure</u>".

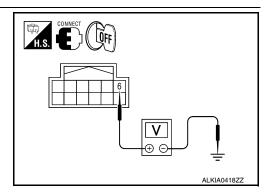
Diagnosis Procedure

INFOID:0000000004204690

1. CHECK KEY SLOT ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot connector and ground.

	Terminals						
(+	(+))		Condition	Key slot	Voltage (V)
Key slot connector	Terminal	(–)		illumination	(Approx.)		
M40	6	Groun	Intelligent Key inserted	OFF	Battery voltage		
10140	0	d	Intelligent Key removed	ON	0		



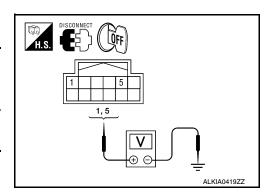
Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect key slot connector.
- Check voltage between slot connector and ground.

	V II 0.0			
(+	-)	(-)	Voltage (V) (Approx.)	
Key slot connector Terminal		(-)	(-4-4)	
M40	1	Ground	Battery voltage	
10140	5	Ground	battery voltage	



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot power supply circuit.

3.CHECK KEY SLOT GROUND CIRCUIT

KEY SLOT ILLUMINATION

< COMPONENT DIAGNOSIS >

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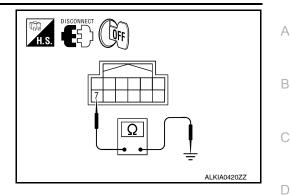
Check continuity between key slot connector and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7		Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace key slot ground circuit.



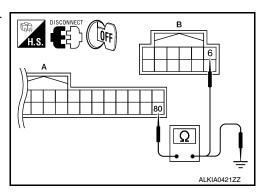
4. CHECK KEY SLOT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and key slot connector.
- Check continuity between BCM connector and key slot connector.

BCM connector	Terminal	Key slot connector	Terminal	Continuity
A: M19	80	B: M40	6	Yes

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	80	Ground	No



Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness between BCM and key slot.

5. CHECK KEY SLOT

Refer to DLK-75, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace key slot.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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INFOID:0000000004204692

INFOID:0000000004204693

HORN FUNCTION

Description INFOID:000000004204691

Perform answer-back for each operation with horn.

Component Function Check

1. CHECK FUNCTION

- Select HORN in "ACTIVE TEST" mode with CONSULT-III.
- Check the horn (high/low) operation.

Test item			Description	
HORN	ON	Horn relay	ON (for 20 ms)	

Is the operation normal?

YES >> Inspection End.

NO >> Refer to <u>DLK-114</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

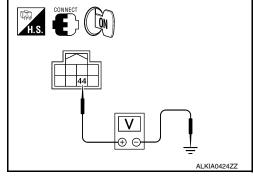
YES >> GO TO 2

NO >> Refer to <u>HRN-4</u>, "Wiring <u>Diagram - Coupe"</u>.

2.CHECK HORN RELAY POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Perform "ACTIVE TEST" ("HORN") with CONSULT-III.
- Using an oscilloscope or analog voltmeter, check voltage between IPDM E/R harness connector and ground.

IPDM	IPDM E/R Ground		Te	st item	Voltage (V)	
Connector	Terminal	Ground	rest item		(Approx.)	
F17	44	Ground	HORN	ON	Battery voltage → 0 → Battery voltage	
L17	44	Ground	HOKN	Otherthan above	Battery voltage	



Is the inspection result normal?

YES >> Repair or replace open harness between IPDM E/R and horn relay.

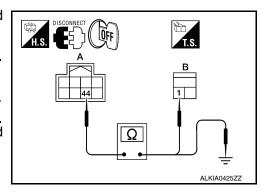
NO >> GO TO 3

3. CHECK HORN RELAY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R and horn relay connector.
- 3. Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPD	IPDM E/R		Horn relay	
Connector	Terminal	Connector Terminal		Continuity
A: E17	44	B: H-1	1	Yes

4. Check continuity between IPDM E/R harness connector and ground.



HORN FUNCTION

< COMPONENT DIAGNOSIS >

[COUPE]

IPD	M E/R	Ground	Continuity	
Connector	Terminal	Giodila	Continuity	
A: E17	44	Ground	No	

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Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace IPDM E/R.Refer to PCS-48. "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

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COMBINATION METER DISPLAY FUNCTION

< COMPONENT DIAGNOSIS >

[COUPE]

COMBINATION METER DISPLAY FUNCTION

Description

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:0000000004204695

1. CHECK FUNCTION

(P) With CONSULT-III

Check the operation with ("LCD") in the Active Test.

Is each warning displayed on meter display?

Is the inspection result normal?

YES >> Meter display is OK.

NO >> Refer to <u>DLK-116</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204696

1. CHECK COMBINATION METER

Refer to MWI-95, "DTC Index".

Is the inspection result normal?

YES >> GO TO 2

NO >> Check combination meter. Refer to MWI-38, "Diagnosis Description".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

WARNING CHIME FUNCTION	
< COMPONENT DIAGNOSIS > [COUPE]	=
WARNING CHIME FUNCTION	А
Description INFOID:000000004204697	,
Performs operation method guide and warning with buzzer.	В
Component Function Check	3
1.CHECK FUNCTION	С
 With CONSULT-III 1. Check the operation with "INSIDE BUZZER" in the Active Test. 2. Touch "TAKE OUT", "KNOB" or "KEY" on screen. Is the inspection result normal? 	D
YES >> Warning buzzer into combination meter is OK. NO >> Refer to DLK-117. "Diagnosis Procedure".	Е
Diagnosis Procedure	,
1. CHECK METER BUZZER CIRCUIT	F
Operate the hazard lights by turning ON the hazard warning switch. Is the inspection result normal? YES >> GO TO 2	G
NO >> Replace combination meter. Refer to MWI-179 , "Removal and Installation". 2.CHECK INTERMITTENT INCIDENT	Н
Refer to GI-42, "Intermittent Incident".	
>> Inspection End.	I
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HAZARD FUNCTION

< COMPONENT DIAGNOSIS >

[COUPE]

HAZARD FUNCTION

Description

Perform answer-back for each operation with number of blinks.

Component Function Check

INFOID:0000000004204701

1. CHECK FUNCTION

Check hazard warning lamp ("FLASHER") in Active Test.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to <u>DLK-118</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204702

1. CHECK HAZARD SWITCH CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace hazard warning switch circuit. Refer to EXL-4, "Work Flow".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

HOMELINK UNIVERSAL TRANSCEIVER

< COMPONENT DIAGNOSIS >

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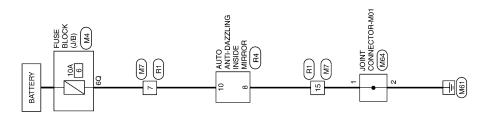
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HOMELINK UNIVERSAL TRANSCEIVER

Wiring Diagram

INFOID:0000000004204703



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HOMELINK UNIVERSAL TRANSCEIVER

ABKIA0715GB

HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Connector No. M64 Connector Name JOINT CONNECTOR-M01 Connector Color GRAY	H.S.	Terminal No. Color of Signal Name 1 B		
Connector No. M7 Connector Name WIRE TO WIRE Connector Color WHITE	H.S. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal No. Color of Wire Signal Name 7 Y/R - 15 B -	Connector No. R4 Connector Name AUTO ANTI-DAZZLING INSIDE MIRROR Connector Color BLACK	Terminal No. Color of Signal Name Wire B GND 10 B/Y BAT+
Connector No. M4 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	(40) 30 (四) 10 (10) (10) (10) (10) (10) (10) (10)	Terminal No. Color of Signal Name 6Q Y/R –	Connector No. R1 Connector Name WIRE TO WIRE Connector Color WHITE H.S. 8 7 6 5 4 3 2 1 1 10 9 10 10	Terminal No. Color of Wire Signal Name 7 B/Y - 15 B -

Description INFOID:000000004204704

Homelink universal transceiver can store and transmit a maximum of 3 radio signals. Allows operation of garage doors, gates, home and office lighting, entry door locks and security system, etc. Homelink universal transceiver power supply uses vehicle battery, which enables it to maintain every program in case battery is discharged or removed.

HOMELINK UNIVERSAL TRANSCEIVER

< COMPONENT DIAGNOSIS >

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Component Function Check

INFOID:0000000004204705

INFOID:0000000004204706

1. CHECK FUNCTION

Check that system receiver (garage door opener, etc.) operates with original hand-held transmitter.

Is the inspection result normal?

YES >> GO TO 2

NO >> Receiver or hand-held transmitter is malfunctioning.

2. CHECK ILLUMINATE

- 1. Turn ignition switch "OFF".
- 2. Press each of the transmitter buttons and watch for the red light to illuminate with each button.

Is the inspection result normal?

YES >> GO TO 3

NO >> Refer to <u>DLK-121, "Diagnosis Procedure"</u>.

3. CHECK TRANSMITTER

Check transmitter with Tool*.

*: For details, refer to Technical Service Bulletin.

Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.

NO >> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to MIR-18, <a href="mailto:"Removal and Installation".

Diagnosis Procedure

1. CHECK POWER SUPPLY

- 1. Disconnect auto anti-dazzling inside mirror (homelink universal transceiver) connector.
- 2. Check voltage between auto anti-dazzling inside mirror (homelink universal transceiver) harness connector and ground.

Auto anti-dazzling inside mirror (homelink universal transceiver) connector	Terminal		Condition	Voltage (V) (Approx.)
R4	10	Ground	Ignition switch position: LOCK	Battery voltage

DISCONNECT OFF 10 10 ALKIA0426ZZ

Is the inspection result normal?

YES >> GO TO 2

NO >> Check the following.

- 10A fuse [No. 6 located in the fuse block (J/B)]
- Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink universal transceiver).

2.CHECK GROUND CIRCUIT

Check continuity between auto anti-dazzling inside mirror (homelink universal transceiver) harness connector and ground.

Auto anti-dazzling inside mirror (Homelink universal transceiver) connector	Terminal	Ground	Continuity
R4	8		Yes

H.S. DISCONNECT OFF

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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HOMELINK UNIVERSAL TRANSCEIVER

[COUPE]

>> Inspection End.

< ECU DIAGNOSIS > [COUPE]

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

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VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
ED WIDED III	Other than front wiper switch HI	OFF	
FR WIPER HI	Front wiper switch HI	ON	D
ED WIDED LOW	Other than front wiper switch LO	OFF	
FR WIPER LOW	Front wiper switch LO	ON	_
FR WASHER SW	Front washer switch OFF	OFF	— E
FR WASHER SW	Other than front wiper switch HI Front wiper switch HI ON Other than front wiper switch LO Front wiper switch LO Front wiper switch LO Front wiper switch OFF Front washer switch OFF Front washer switch OFF Front washer switch INT Other than front wiper switch INT OFF Front wiper switch INT ON Front wiper switch INT ON Front wiper in strop position Wiper intermittent dial is in a dial position 1 - 7 Wiper intermittent dial is in a dial position 1 - 7 Other than turn signal switch RH OFF Turn signal switch RH ON Other than turn signal switch LH Turn signal switch LH Other than lighting switch 1ST and 2ND Lighting switch 1ST or 2ND Other than lighting switch HI Lighting switch 1D Other than lighting switch 2ND Uther than lighting switch 2ND Other than lighting switch 2ND Other than lighting switch PASS ON Other than lighting switch PASS ON Other than lighting switch PASS ON Other than lighting switch OFF Lighting switch AUTO OFF Front fog lamp switch OFF Front fog lamp switch ON On Priver door opened ON Passenger door opened ON Rear door RH closed OFF Rear door RH closed OFF Rear door RH opened	ON	
FR WIPER INT	Other than front wiper switch INT	OFF	F
I IX WIF LIX IIV I	Front wiper switch INT	ON	
FR WIPER STOP	Front wiper is not in STOP position	OFF	_
FR WIFER STOP	Front wiper is in STOP position	ON	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position	
TURN SIGNAL R	Other than turn signal switch RH	OFF	
TORN SIGNAL K	Turn signal switch RH	ON	
TURN SIGNAL L	Other than turn signal switch LH	OFF	
TORN SIGNAL L	Turn signal switch LH	ON	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF	
TAIL LAWIP SVV	Lighting switch 1ST or 2ND	ON	
HI BEAM SW	Other than lighting switch HI	OFF	
HI BEAIN SW	Lighting switch HI	ON	
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF	DL
HEAD LAIVIP SVV I	Lighting switch 2ND	ON	
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF	
FILAD LAWIF SW 2	Lighting switch 2ND	ON	
PASSING SW	Other than lighting switch PASS	OFF	
FASSING SW	Lighting switch PASS	ON	N
AUTO LIGHT SW	Other than lighting switch AUTO	OFF	
AUTO LIGITI SW	Lighting switch AUTO	ON	
FR FOG SW	Front fog lamp switch OFF	OFF	_ N
11(1000W	Front fog lamp switch ON	ON	
DOOR SW-DR	Driver door closed	OFF	C
DOOK SW-DIX	Driver door opened	ON	
DOOR SW-AS	Passenger door closed	OFF	
DOOK GW-AG	Passenger door opened	ON	F
DOOR SW-RR	Rear door RH closed	OFF	
DOOK GW-KK	Rear door RH opened	ON	_
DOOR SW-RL	Rear door LH closed	OFF	
DOON GVV-IVE	Rear door LH opened	ON	

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
DOOR SW-BK	NOTE: This item is displayed, but cannot be monitored.	OFF
	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
1/E// 0// 1 / 0//	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
14574 074 1111 0744	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.	OFF
LIAZADD CW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TD CANCEL OW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN OW	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
TONIC LAT MANTO	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
DKE LOCK	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DKE TIMI OCK	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
KKE-TK/DD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DICE DANIC	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RRE-WODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTICAL OFNICOD	When outside of the vehicle is bright	Close to 5 V
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DEO CW DD	When driver door request switch is not pressed	OFF
REQ SW-DR	When driver door request switch is pressed	ON
DEO SW AS	When passenger door request switch is not pressed	OFF
REQ SW-AS	When passenger door request switch is pressed	ON
DEO SW DD/TD	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
FUSHSW	When engine switch (push switch) is pressed	ON

< ECU DIAGNOSIS > [COUPE]

Monitor Item	Condition	Value/Status
ON DIVA E/D	Ignition switch OFF or ACC	OFF
GN RLY2-F/B	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
ACC RLY-F/B	Ignition switch ACC or ON	ON
CLUTCULOW	When the clutch pedal is not depressed	OFF
CLUTCH SW	When the clutch pedal is depressed	ON
DDAKE OM 4	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
DETE/CANCL CVA	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
OFT DAIM OW	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
0.11 1 0 0 1 4	Electronic steering column lock LOCK status	OFF
S/L-LOCK	Electronic steering column lock UNLOCK status	ON
0/1 11011 0017	Electronic steering column lock UNLOCK status	OFF
S/L-UNLOCK	Electronic steering column lock LOCK status	ON
0/L DEL AV E/D	Ignition switch OFF or ACC	OFF
S/L RELAY-F/B	Ignition switch ON	ON
	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW-IPDM	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SFT P-MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N-MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
	Electronic steering column lock LOCK status	OFF
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON
	Electronic steering column lock UNLOCK status	OFF
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON
	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ	Ignition switch ON	ON
		Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading

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< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK FLAG	Ignition switch ACC or ON	RESET
ID ON I LAG	Ignition switch OFF	SET
PRMT ENG STAT	When the engine start is prohibited	RESET
TRIMIT ENG GIA	When the engine start is permitted	SET
PRMT RKE STAT	NOTE: This item is displayed, but cannot be monitored.	RESET
KEN SIN SINT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.	Operation frequency of Intelligent Key
CONFOMIDALI	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIDMIDO	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIDM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIDM ID4	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
1124	The ID of fourth key is registered to BCM	DONE
TD 2	The ID of third key is not registered to BCM	YET
TP 3	The ID of third key is registered to BCM	DONE
TP 2	The ID of second key is not registered to BCM	YET
1 F Z	The ID of second key is registered to BCM	DONE
TD 1	The ID of first key is not registered to BCM	YET
TP 1	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire

< ECU DIAGNOSIS > [COUPE]

Monitor Item	Condition	Value/Status	
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire	
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire	
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE	
ID REGGI FLI	When ID of front LH tire transmitter is not registered	YET	
ID DECCT ED4	When ID of front RH tire transmitter is registered	DONE	
ID REGST FR1	When ID of front RH tire transmitter is not registered	YET	
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE	
ID REGST RRT	When ID of rear RH tire transmitter is not registered	YET	
ID REGST RI 1	When ID of rear LH tire transmitter is registered	DONE	
ID REGST RLT	When ID of rear LH tire transmitter is not registered	YET	
VALA DALINIO I ANAD	Tire pressure indicator OFF	OFF	
WARNING LAMP	Tire pressure indicator ON	ON	
DUZZED	Tire pressure warning alarm is not sounding	OFF	
BUZZER	Tire pressure warning alarm is sounding	ON	

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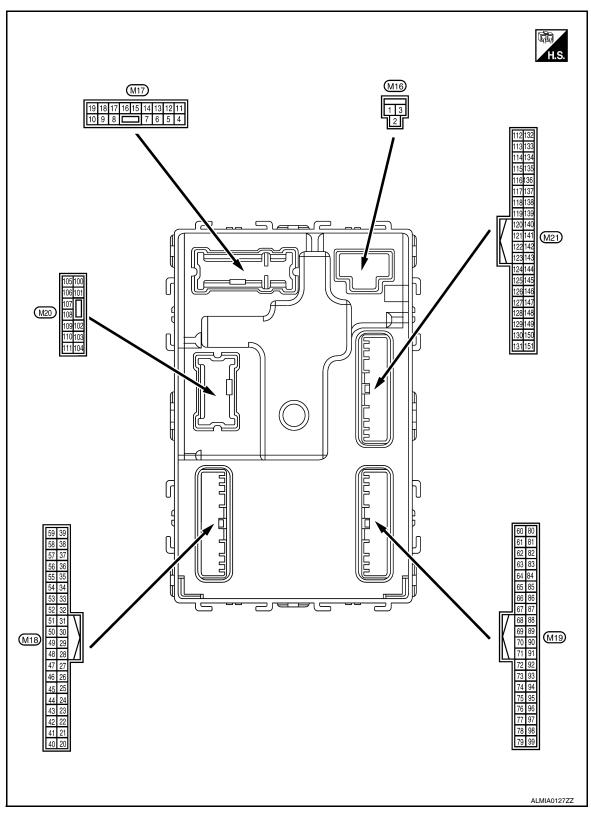
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Terminal Layout



Physical Values

Terminal No. (Wire color)		Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	ı	Battery voltage
4	0	Interior room lamp	Outrot	After passing the ir er operation time	nterior room lamp battery sav-	ov
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
5	0	Front door RH UN-	Outrout	Front do so DII	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	ov
7	Ground	Step lamp	Output	Step lamp	ON	0V
(R/W)	Giodila	στερ ιαπιρ	Output	Step lattip	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Oround	Idulid All doors LOCK Output All doors	All GOOLS	Other than LOCK (actuator is not activated)	0V	
9	Ground	Front door LH UN-	Front door I H	UNLOCK (actuator is activated)	Battery voltage	
(G)	Giouria	LOCK	Output		Other than UNLOCK (actuator is not activated)	0V
10 ¹	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Giouna	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON	1	0V
					OFF	0V
14 (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Cround	7.00 maicator lamp	Culput	iginion switch	ACC or ON	0V

	inal No.	Description				
	e color)	Input/		Condition		Value (Approx.)
(+)	(-)	Signal name	Output			(Αφρίολ.)
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	(V) 15 10 5 0 PKID0926E 6.5 V
					Turn signal switch OFF	0V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)	Giodila	control	Output	lamp	ON	0V
21	Ground	Optical sensor signal	Input	lgnition switch ON	When outside of the vehi- cle is bright	Close to 5V
(P/B)	0.00.10				When outside of the vehi- cle is dark	Close to 0V
22	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	ov
(R/Y)		switch		switch	ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V
(O/L)	0.00				ON (brake pedal is depressed)	Battery voltage
27 (G/W)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB
					UNLOCK status	0V
29	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot		Battery voltage
(Y)				When Intelligent K	ey is not inserted into key slot	0V
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF	Detter welfers
(*/ 1)					ACC or ON	Battery voltage

	inal No.	Description				[COOPE]
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V
(G)		ger feedback signal	•	fogger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (when front door RH opens)	0V
33	01	Compressor ON sig-	1	A/O - 11-15	OFF	9.0 - 12.0V
(SB)	Ground	nal	Input	A/C switch	ON	0V
34 ²		Front door lock as-		Front door lock	OFF (neutral)	5V
(L/R)	Ground	sembly LH (key cylinder switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V
36 ²	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage
(GR)	Orouna	200K GWILOIT SIGNAL	mpat	switch	Unlock	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	1.1V 0V
38	01	Rear window defog-	11	Rear window de-	OFF	5V
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V
39 ² (GR/ R)	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery voltage 0V
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON	I	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF		0V
41	Ground	Engine switch (push	Output	Engine switch (push switch) illu-	ON	5.5V
(W)		switch) illumination		mination	OFF	0V
42		10014 : 11 : :	.	LOCK indicator	ON	0V
(R)	Ground	LOCK indicator lamp	Output	lamp	OFF	Battery voltage

		10515 >				[0001.2]
	inal No. e color)	Description			O a sattle a s	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	OV
(V/W)	Ground	power supply output	Output	igilition switch	ACC or ON	5.0V
47	47 (G/O) Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state	(V) 6 4 2 0 *** 0.2s
					When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
48	Ground	Selector lever P/N	Input	Selector lever	P or N position	12.0V
(R/G)	Giodila	position signal	IIIput	Selector level	Except P and N positions	OV
					ON	0V
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB 11.3V
					OFF	Battery voltage
					All switch OFF	OV
					Lighting switch 1ST	
50			Output	Combination	Lighting switch high-beam	(V) 15
50 (LG/ B)	Ground	Combination switch OUTPUT 5		switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms
						JPMIA0031GB 10.7V

		IOSIS >				[COUPE]
	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0V
					Front wiper switch HI (Wiper intermittent dial 4)	(1/)
51 (L/W)	Ground Combination switch OUTPUT 1 Output Combinat switch	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB		
					All switch OFF (Wiper intermittent dial 4)	0V
52	Ground	Combination switch	Output	Combination	Front washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5
(G/B)	OUTPUT 2		switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms	
					All " 1 OFF	10.7V
				All switch OFF Front wiper switch INT	0V	
				ut Combination switch (Wiper intermittent dial 4)	Front wiper switch LO	(V)
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output		Lighting switch AUTO	15 10 5 0 2 ms JPMIA0034GB
					All switch OFF	0V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V) 15
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit-	Lighting switch flash-to- pass	10 5 0
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
55	•			Front blower mo-	ON	Battery voltage
(BR/ W)	Ground	Front blower monitor	Input	tor switch	OFF	OV
56 ²	Ground	Front door lock as- sembly LH (key cylin-	Input	Front door lock assembly LH (key	OFF (neutral)	5V
(L/B)	Giound	der switch) (lock)	прис	cylinder switch)	ON (lock)	0V
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V

< ECU DIAGNOSIS >

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 JPMIA0011GB 11.8V	
					ON (front door LH OPEN)	0V	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	
(G/R)		ger relay	•	fogger	Not activated	0V	
60	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/R)	Glound				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
62 ⁴ (B/Y)	Crowned	Front outside handle RH antenna (-)	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
	Ground			switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
63 ⁴ (LG)		Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
64 ⁴		Front outside handle		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)	Ground	LH antenna (-)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS >

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
65 ⁴	Ground	Front outside handle		When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(P)	Clound	LH antenna (+)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB
(L/O)	Giound			When operating ei	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB

< ECU DIAGNOSIS > [COUPE]

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V		
						1.3V	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	

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Revision: February 2010 DLK-137 2009 Altima

	nal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
76 (D/O)	Ground				Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
(R/G)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V
77 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed	0V
78 (P)	Ground	CAN-L	Input/ Output	(Facility)	Not pressed	Battery voltage —
79	Ground	CAN-H	Input/		_	_
(L)			Output		OFF	OV
80 (R/L)	Ground	Key slot illumination (Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
					ON	Battery voltage

	inal No.	Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V Battery voltage	
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V	
(L)	Oround	Acc relay control	Output	ignition switch	ACC or ON	Battery voltage	
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage	
85	25.124	Electronic steering	lanut	Flectronic steer-	Lock status	0V	
(L/O)	Ground	column lock condition No. 1	Input	ing column lock	Unlock status	Battery voltage	
86	Ground	Electronic steering column lock condition	Input	out Liectronic steer-	Lock status	Battery voltage	
(G/R)	Giound	No. 2	Input		Unlock status	0V	
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V	
(G/B)	Orodria	tion switch	IIIput	Selector level	Any position other than P	Battery voltage	
					ON (pressed)	0V	
88 ⁴ (P/L)		Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB 1.0V		
					ON (pressed)	0V	
89 ⁴ (B/W)		Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 JPMIA0016GB 1.0V			
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V	
(Y)	Sibulia	lay control	Output	igilition switch	ON	Battery voltage	
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	=	Battery voltage	
94	Ground	Steering wheel lock	Output	Ignition switch	OFF or ACC	Battery voltage	
(G/Y)	Ground	unit power supply	Output	ignition switch	ON	0V	

< ECU DIAGNOSIS >

	inal No.	Description				Value	
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
		Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	
95 (R/W)	Ground				Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	
					Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	

< ECU DIAGNOSIS > [COUPE]

	ninal No.	Description				Value
(Wir (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
96 (P/B)			Input		All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
	Ground	Combination switch INPUT 4 Input		t Combination switch	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V

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	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4) Erectors and the second	All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
97 (R/B)	Ground				Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V

[COUPE] < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		_		Value	1
		Signal name	Input/ Output		Condition	(Approx.)	
					LOCK status	Battery voltage	
99 (L/Y)	Ground	Electronic steering column lock unit communication	Input/ Output	Electronic steer- ing column lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms	
					For 15 seconds after UN- LOCK	Battery voltage	-
					15 seconds or later after UNLOCK	ov	
103 (V)	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	-
					Close (trunk lid opener actuator is not activated)	ov	(
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	_
(V/W)	0.000		Оигрис		OFF	Battery voltage	
114 (B)	Ground	Rear parcel shelf antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
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					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

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< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
(Wire (+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
115 (W)	Ground	Rear parcel shelf antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	
118 ⁴	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(L/O)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
119 ⁴ (BR/ W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	

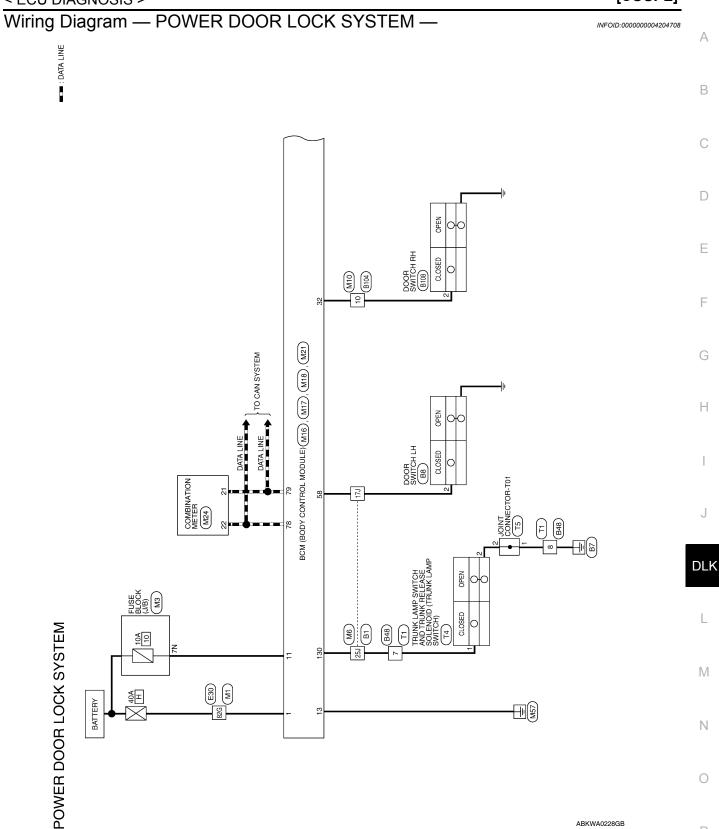
< ECU DIAGNOSIS > [COUPE]

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
127		Ignition relay (IPDM			OFF or ACC	Battery voltage
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (trunk is open)	0V
				Ignition switch	When the clutch pedal is depressed	Battery voltage
				OFF (M/T vehi- cle)	When the clutch pedal is not depressed	0V
132 (R)	Ground	Starter motor relay control	Output	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage
				ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is not depressed	0V
					ON (pressed)	OV
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V
144 ⁴	01	Intelligent Key warn-	0.1.1	Request switch	Sounding	OV
(GR)	Ground	ing buzzer	Output	buzzer	Not sounding	Battery voltage
144 ⁵	Ground	Outside warning	Output	Outside warning	Sounding	0V
(GR)	C. Guild	buzzer	Jaipat	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V
(L/R)		switch		switch	Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (when rear door RH opens)	0V

< ECU DIAGNOSIS > [COUPE]

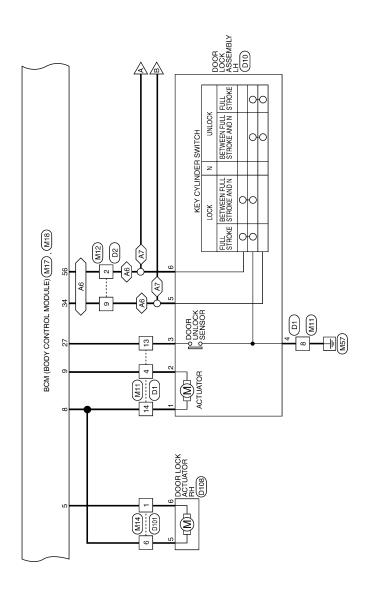
	inal No.	Description				Value
(Wire	e color)	Signal name	Input/		Condition	(Approx.)
(+)	(-)	Oignai name	Output			, , , , , , , , , , , , , , , , , , ,
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when rear door LH opens)	0V

- 1: Sedan only
- 2: With LH front window anti-pinch
- 3: With LH and RH front window anti-pinch
- 4: With intelligent key
- 5: Without intelligent key



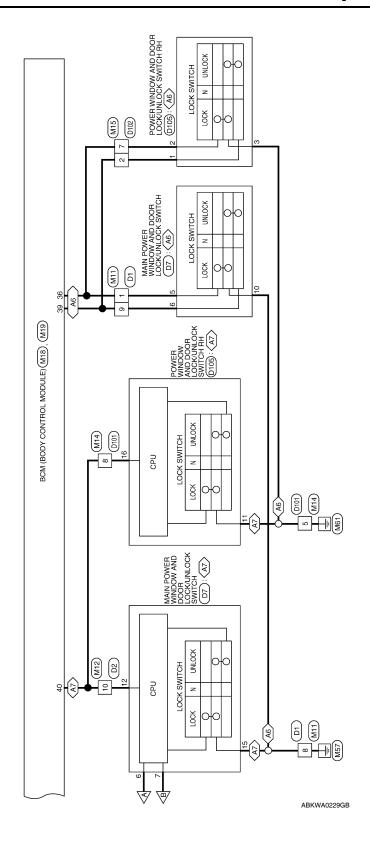
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(A6):WITH LEFT POWER WINDOW ANTI-PINCH SYSTEM (A7):WITH LEFT AND RIGHT POWER WINDOW ANTI-PINCH SYSTEM



ABKWA0192GB





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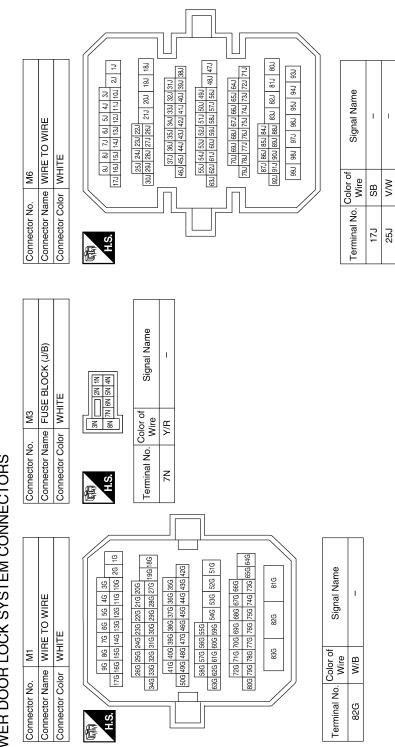
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Signal Name	I	
Color of Wire	R/B	
Terminal No.	10	

Connector Name WIRE TO WIRE

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Connector No.

Connector Color BROWN





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TO WIRE	Signal Name	Connector No. M17 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE 4 5 6 7	Signal Name CDL_AS CDL_COMMON CDL_DR/FL
M14 M16 MHTE MHTE	Color of Wire G/Y B B V/G	M17 M0DULE) MODULE) MODULE MODULE M1 12 13 14 15 16	Color of Wire G/Y
Connector No. M14 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. 1 5 5 6 8	Connector No. Connector Name Connector Color	Terminal No. 5 8 8
Connector No. M12	Terminal No. Color of Signal Name	Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK	Terminal No. Color of Signal Name Wire 1 W/B BAT_POWER_F/L
TO WIRE E 4 5 6 7 2 13 14 15 16	Signal Name	TO WIRE 10 11 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Signal Name
M11 MRE TO Olor WHITE 2 3	Color of Wire GR GR GR/R GR/R G/W	M15 or WHITE	Color of Wire GR
Connector No. M11	Terminal No. 1 4 4 8 9 13 14	Connector No. M15 Connector Name WIRE TO WIRE Connector Color WHITE H.S. 1 2 3 4 5 6 17 12	Terminal No.

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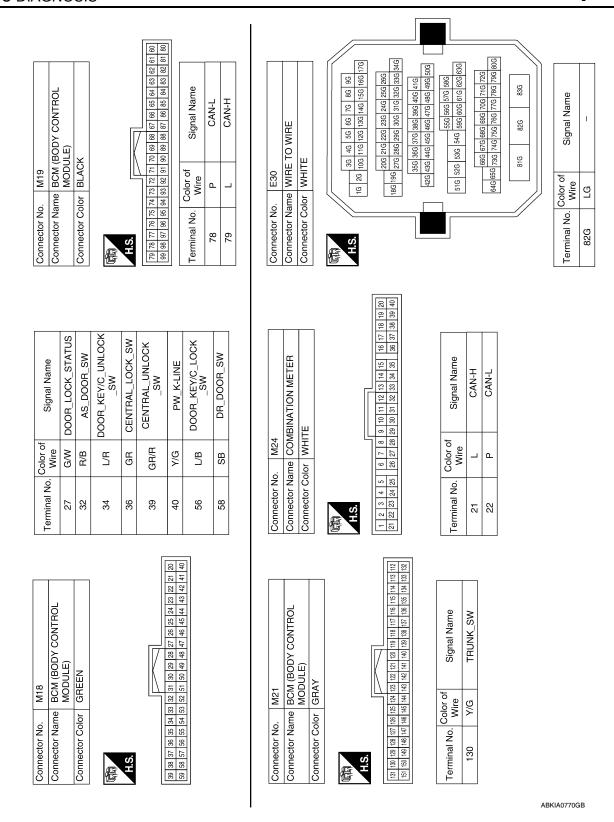
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DLK-151 Revision: February 2010 2009 Altima



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SWITCH LH Signal Name DOOR SW(DR)	Signal Name DOOR SW (AS)	В
Connector No. B8 Connector Name DOOR SWITCH LH Connector Color WHITE Terminal No. Wire 2 SB DOOR SW 2 SB DOOR SW	nector No. B108 nector Color WHIT S. Wire 2 R/B	D
		E F
Signal Name	TO WIRE NN Signal Name	G
Color of Wire SB SB Y/G	B104 B104	Н
Terminal No.	Connector No. Connector Cold Connector Cold Terminal No. 10	J
WHE TO WIRE WHITE WHITE 3J 4J 5J 6L 7J 8J 9J 2J 22J 23J 24J 25J 3J 3J 3ZJ 3ZJ 3ZJ 24J 2ZJ 3ZJ 3ZJ 2ZJ 2ZJ 2ZJ 2ZJ 2ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 4ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 4ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 4ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 6ZJ 3ZJ 3ZJ 3ZJ 3ZJ 3ZJ 8ZJ 3ZJ 3ZJ 3ZJ 8ZJ 3ZJ 3ZJ 3ZJ 8ZJ 3ZJ 3ZJ 3ZJ 8ZJ	Signal Name	DLI L
	Connector No. B48	M
Connector No. Connector Name Connector Color H.S.	Connector No. Connector Name Connector Name Connector No. H.S. H.S. Reminal No. Q A A A A B B B B B B B B B	0
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	Connector Name JOINT CONNECTOR-T01	ш	3 2 1 1	Signal Name	_	I
T5	ne JOIN	or WHIT	4	Color of Wire	В	В
Connector No. T5	Connector Nar	Connector Color WHITE	H.S.	Terminal No. Wire	1	2
		<u>. 1</u>				
	Connector Name TRUNK LAMP SWITCH AND TRI INK BEI FASE SOI ENDID	E E E E E E E E E E E E E E E E E E E	<u> </u>	Signal Name	ı	1
T	ne TRUN	or WHIT	0 4	Color of Wire	Y/G	В
Connector No. 74	Connector Nar	Connector Color WHITE	南 H.S.	Terminal No. Wire	1	2
	TO WIRE		12 13 14 15 16	Signal Name	I	1
F	e WIRE	v WHITE	0102	Color of Wire	J/K	В
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No. Wire		8

D7 MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH(WITH LEFT POWER WINDOW ANTI-PINCH SYSTEM) WHITE 2 3 4	UNLOCK	GND
	GR/R	a
Connector No. Connector Name Connector Color H.S.	9	10

		Γ	ı		
	TO WIRE	Щ	12 11 10 9 1	Signal Name	
D2	ne WIRE	or WHIT	8 8 7 7 8 9 12 12 12 12 12 12 12 12 12 12 12 12 12	Color of Wire	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No.	

16 15 14 13 12 11 10 9	Signal N			
15 14 13 .	Color of Wire	B/T	Н/Л	Y/G
31	Terminal No.	2	6	10

Signal Name	1	1	-			I
Color of Wire	GR	В	В	GR/R	G/W	^
Terminal No.	1	4	8	6	13	14

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Connector Name WIRE TO WIRE Connector Color WHITE

Connector No. D1

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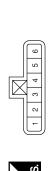
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	O WIRE	8 8 0 1 0 4 p		Signal Name	1	-	I	I		
D101	or WHITE	1 2 6 7		Color of Wire	G/Y	В	>	Y/G		
Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE	H.S.		Terminal No.	1	5	9	8		
			•						T	
	Connector Name DOOR LOCK ASSEMBLY LH Connector Color GRAY		t -	Signal Name				GND	DOOR_KEY/C_UNLOCK_SW	DOOR_KEY/C_LOCK_
D10	ne DOOI or GRA	,		Color of Wire	^	G	G/W	В	L/R	L/B
Connector No.	Connector Name DOOR			Terminal No.	Į.	7	е	4	5	9
									,	
	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT AND	RIGHT POWER WINDOW ANTI-PINCH SYSTEM) WHITE	12 13 14 15 16	Signal Name	LOCK	UNLOCK	COM	GND		
D7	AND D SWITC	ANTI-F WHITE	8 9 10 11	Color of Wire	L/B	K.	Y/G	В		
Connector No.	Connector Name MAIN POWER WII AND DOOR LOCK SWITCH (WITH LE	RIGHT ANTI-P Connector Color WHITE	H.S.	Terminal No.	9	7	12	15		

Connector No. D102). D102		Connector No.	D105		Connector No. D105	. D105	
Connector Name WIRE TO WIRE Connector Color WHITE	ame WIRE :	TO WIRE	Connector Na	me POWE DOOR SWITC AND R AND R	Connector Name POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT AND RIGHT WINDOW ANTI-PINCH SYSTEM)	Connector Na	me POW DOO SWIT POW ANTI	Connector Name POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT POWER WINDOW ANTI-PINCH SYSTEM)
H.S.	6 5 4 6	3 2 1	Connector Color WHITE	or WHITE		Connector Color WHITE	lor WHIT	Щ
		•	H.S.	8 9 10 11 11 11 11 11 11 11 11 11 11 11 11	12 13 14 15 16	H.S.	1 2 7 7 8	8 9 10 11 12
Terminal No.	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
2	GR	1	Ξ	m	GND	-	GR	LOCK
7	GR/R	1	16	5/A	COM	2	GR/R	UNLOCK
						က	В	GND

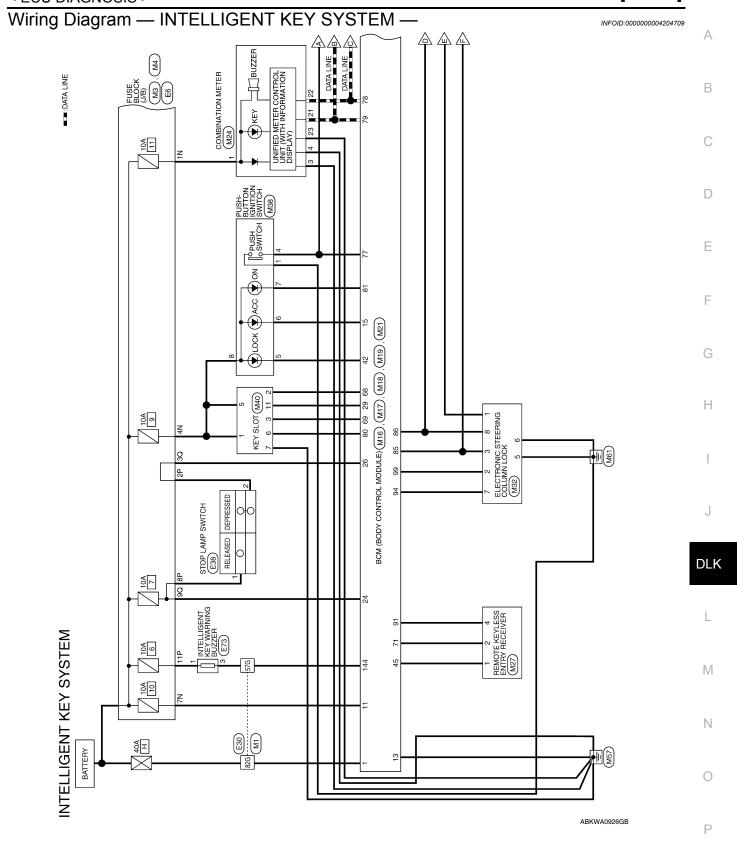
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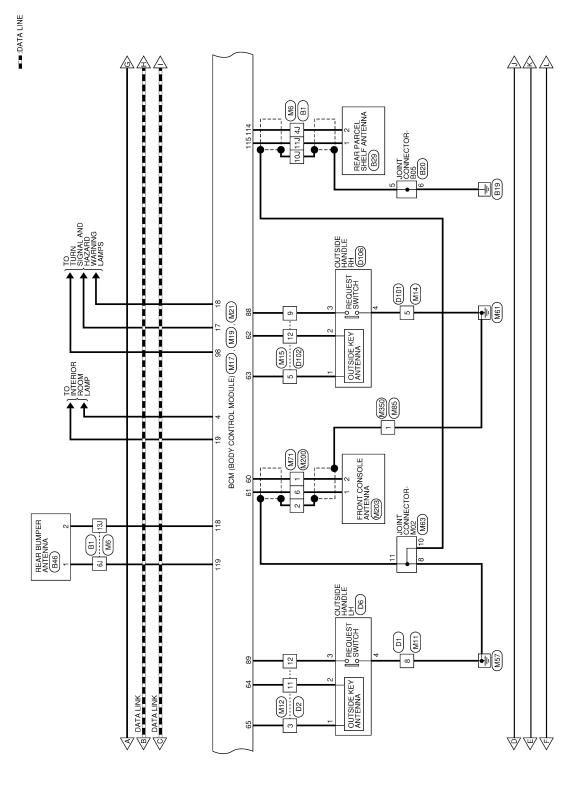
Connector No.	D108
Connector Name	Connector Name DOOR LOCK ACTUATOR RH
Connector Color GRAY	GRAY



or of / re /	Signal Name	_	_
S S S	Color of Wire	۸	G/Y
Terminal No. 5	Terminal No.	5	9

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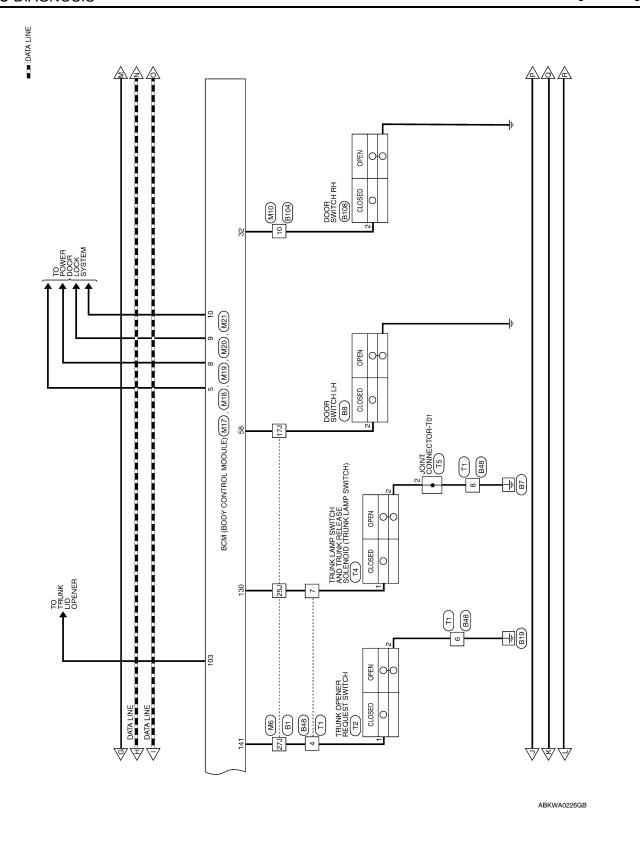
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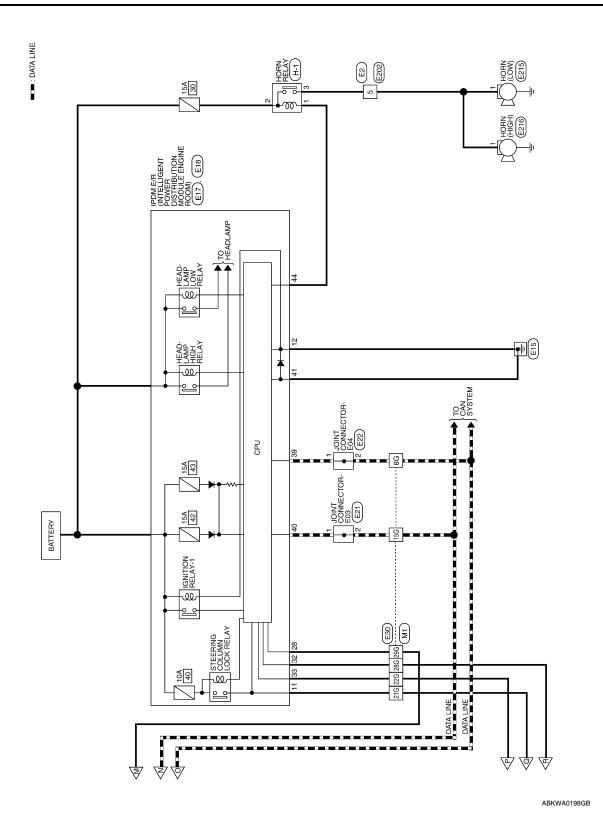
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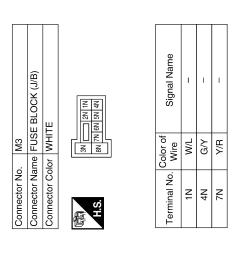




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Signal Name	1	I	ı	1	1	I	ı	_
Color of Wire	Ф	_	P/L	G/R	0/1	BR	GR	W/B
Terminal No.	8G	15G	21G	22G	28G	29G	57G	82G

	ı											
M1	WIRE TO WIRE	WHITE		176 166 156 146 136 126 116 106 26 15	26G 25G 24G 23G 22G 21G 20G 33G 32G 31G 30G 29G 28G 27G 19G 18G	416 406 396 386 376 366 356	506 496 486 476 486 456 446 436 426	63G 62G 61G 60G 59G 54G 53G 52G 51G	72G 71G 70G 69G 68G 67G 66G	79G 78G 77G 76G 75G 74G 73G 65G 64G	83G 82G 81G	
Connector No.	Connector Name	Connector Color	v;	176	346 33		750c	29 989		806 79		<i>))</i>

	BLOCK (J/B)		0 80 50 10	Signal Name	1	1	
M4	ne FUSE B	or WHITE	40 30 20 10 100 90 80 70 80 50	Color of Wire	O/L	B/W	
Connector No. M ²	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE		Terminal No. Wire	3Q O/L	9Q R/M	
Conne	Conne	Conne	师 H.S.		ABKI.		4GB

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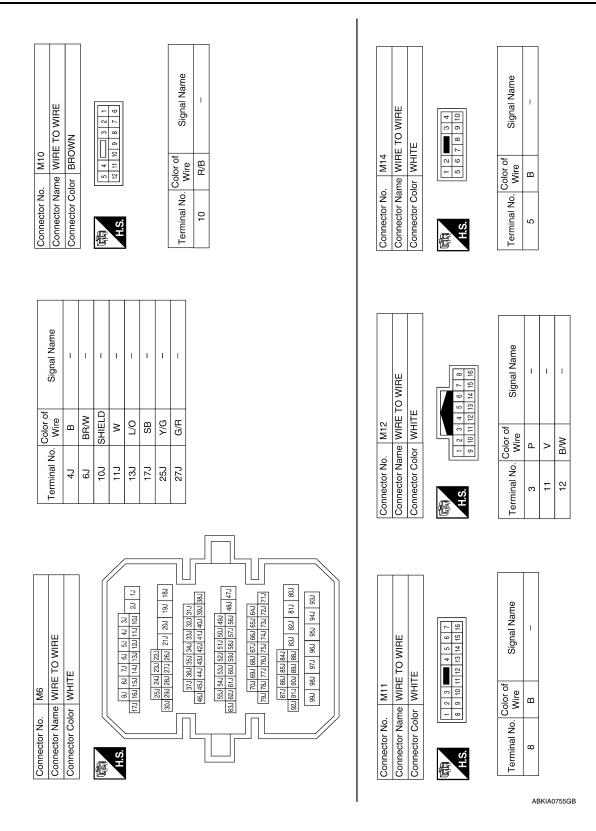
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M17	Connector Name BCM (BODY CONTROL	MODULE)	/HITE	
Connector No.	Connector Name E	_	Connector Color WHITE	

11 12 13 14 15 16 17 18 19	lor of Signal Name	/W ROOM_LAMP_BAT_ SAVER	CDL_AS	V CDL_COMMON	G CDL_DR/FL	A/Y CDL_RR_RL_BACK	//R BAT_BCM_FUSE	B GND1	//L ACD_LED	3/B FR_FLASHER	3/Y FL_FLASHER	Y ROOM_LAMP_OUTPUT	
	Color of Wire	P/W	G/Y	>	5	G/Y	Y/R	В	Y/L	G/B	G/Y		
	Ferminal No.	4	2	8	6	10	11	13	15	17	18	19	

BAT_POWER_F/L Signal Name

Terminal No. Wire 1 W/B

Signal Name

Terminal No. Wire

LG P/L B/Y

9 2

	Signal Name	ROOM_LAMP_BAT	CDL_AS	CDL_COMMON	CDL_DR/FL	CDL_RR_RL_BACK	BAT_BCM_FUSE	GND1	ACD_LED	FR_FLASHER	FL_FLASHER	ari o arre i recoa
Color of	Wire	P/W	G∕Y	>	G	G∕	Y/R	В	J/K	G/B	G∕	>
	l erminal No.	4	5	8	6	10	Ε	13	15	L 1	18	0,

Signal Name	STOP_LAMP_LOW_ SW	STOP_LAMP_HIGH_ SW	FOB_IN_SW_1	AS_DOOR_SW	S/L_LOCK_LED	GND_RF2_A/L	WS_ROOD_RO
Color of Wire	B/W	O/L	>	B/B	В	Ь	SB
Terminal No.	24	26	29	32	42	45	58

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									22	42
									23	43
	占								24	44
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	E								56	46
	ုဂ္ဂ							Ш	27	47
	>							17	88	48
	2 (1)							V	53	49
	18 H	z						Λ	8	20
ω	ΣĞ	出						$ \rangle$	31	21
M18	BCM (BOI MODULE)	GREEN							32 31 30 29 28 27 26 25 24 23 22 21	25
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Connector No.	Connector Name BCM (BODY CONTROL MODULE)	Connector Color		ŀ	偃	7	₹		99	59
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	BCM (BODY CONTROI MODULE)						98	47 46 45 44
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	BCM (BOE MODULE)	III					8	
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M18	B M M M	5				\Box	32	53 52 51
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8	Connector Name	ec			ιĠ		38 37	58 57
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Connector No.	ပိ	Connector Color GREEN		唱	4		89	23
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me BCM (BODY CONTROL MODULE) or WHITE	M17 BCM (BODY CONTROL MODULE) WHITE
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	()
onnector No.	MID
onnector Name	onnector Name BCM (BODY CONTROL
	MODULE)
onnector Color BLACK	BLACK



Connector (·E
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	TO WIRE	щ	3 4 5 6 9 10 11 12
M15	III		
Σ	3	≥	7 8
	ne	٥	1
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	雨 H.S.



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DLK-163 Revision: February 2010 2009 Altima Ν

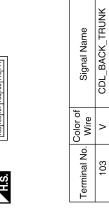
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M21	Connector Name BCM (BODY CONTROL MODULE)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	H.S.

Signal Name	TRUNK_ANT_1_B	TRUNK_ANT_1_A	BACK_DOOR_ANT_B	BACK_DOOR_ANT_A	TRUNK_SW	BUZZER
Color of Wire	В	Μ	0/7	BR/W	Y/G	GR
Terminal No. Wire	114	115	118	119	130	144

	BCM (BODY CONTROL	JULE)	믣	
Connector No. M20	Connector Name BCM (BODY CONTROL	5	Connector Color WHITE	



Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK
H.S.	

Signal Name	ROOM_ANT_2_B	ROOM_ANT_2_A	AS_DOOR_ANT_B	AS_DOOR_ANT_A	DR_DOOR_ANT_B	DR_DOOR_ANT_A	FOB_READER_CLOCK	FOB_READER_DATA	RF1_TUNER_SIGNAL	ENG START SW	CAN-L	CAN-N	FOB_SLOT_ ILLUMINATION	IGN_ON_LED	S/L_CONDITION_1	S/L_CONDITION_2	AS_REQUEST SWITCH	RF1_POWER_SUPPLY	S/L_POWER_SUPPLY_ 12V	HAZARD_SW	S/L K-LINE
Color of Wire	B/R	W/R	B/∀	LG	>	۵	0/9	0	9	BR	۵	_	R/L	LG	9	G/R	P/L	Ľ	G/Y	0/9	≥
Terminal No.	09	61	62	63	64	65	89	69	71	77	78	62	80	81	85	98	88	91	94	86	66

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Connector No.	o. M24		Connector No.	No. M27		Connector No.	o. M32	
Connector Na	ame COM	Connector Name COMBINATION METER	Connector	Name REN	Connector Name REMOTE KEYLESS ENTRY	Connector Na	ame ELE	Connector Name ELECTRONIC STEERING
Connector Color	olor WHITE			REC	RECEIVER		3	COLUMN LOCK
			Connector (Connector Color BLACK	CK	Connector Color WHITE	olor WHI	3
H.S.			晋	L	2 3 4	E	4	IK ⊢
1 2 3 4 5	8 / 9	9 10 11 12 13 14 15 16 17 18 19 20	H.S.		-H	H.S.	4 @	7 6 5
21 22 23 24 25	26 27 28	29 30 31 32 33 34 35 36 37 38 39 40				Terminal No. Wire	Color of Wire	Signal Name
Terminal No. Wire	Color of Wire	Signal Name	Terminal N	erminal No. Wire	Signal Name	-	P/L	S/L_12V_MECHANICAL (V1)
-	I/M	ВАТТ	-	<u>a</u>	GND	2	Lγ	S/L_COM
რ	<u> </u>	GND	2	9	SIGNAL	က	97	S/L_CONDITION_1
4	ω	GND	က	Z,	12V	5	В	GND
24		CAN-H				9	В	GND
52	ı a	CAN-L				7	G/Y	S/L_12V_CPU_(V2)
23	. @	UNU				8	G/R	S/L_CONDITION_2

	Connector Name JOINT CONNECTOR-M02		7 6 5 4 3 2 1	Signal Name	-	ı
M63	ne JOINT	or BLUE	12 11 10 9 8	Color of Wire	GR	GR
Connector No.	Connector Nan	Connector Color BLUE	H.S. 1211	Terminal No.	10	11

Connector No. M40
Connector Name KEY SLOT
Connector Color WHITE

9 0 0 1 1 1 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name	B+	CLOCK	DATA	LIGHT_BAT+	LIGHT_A	GND	CABE SW 1
- 1 2 8	Color of Wire	G/Y	G/O	0	G/Y	B/L	В	>
(6	inal No.	_	2	3	5	9	7	11

Connector No.	. M38		
Connector Name		PUSH-BUTTON IGNITION SWITCH	
Connector Color		BROWN	
	<u>- 4</u>	5 6 7 8	
i i			
Terminal No.	Color of Wire	Signal Name	
-	В	GND	
4	BR	START_SW	
5	Œ	LOCK	
9	Y/L	ACC	
7	рп	NO	
8	Д/9	B+	

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Connector No. M200	Connector Name WIRE TO WIRE	Connector Color WHITE	(京本) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Terminal No. Wire Signal Name	1 B/B –	2 SHIELD -	- W/R -
Connector No. M85	Connector Name WIRE TO WIRE	Connector Color WHITE	所 H.S.	Terminal No Signal Name		1 B -			
Connector No. M71	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Color of Sized Nome	l'ellillal No. Wire Signal Ivalile	1 B/R –	2 SHIELD -	6 W/R –	

Connector No.	o. E2	
Connector Name	ame WIF	WIRE TO WIRE
Connector Color WHITE	olor WH	ITE
是 H.S.	1 4	2 6 7 8
Terminal No.	Color of Wire	Signal Name
5	0	1

0'	WIRE TO WIRE	TE		Signal Name	_
. M350	me WIF	lor WH	α	Color of Wire	8
Connector No.	Connector Name	Connector Color WHITE	明.S.	Terminal No.	-
	•	-			

Color of Wire 1 B	Sign	
Ferminal No.	Color of Wire	В
	Terminal No.	1

Signal Name	ANT+	ANT-	
Color of Wire	W/R	B/R	
erminal No.	1	2	

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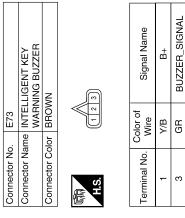
Connector No. M203
Connector Name FRONT CONSOLE ANTENNA
Connector Color GRAY

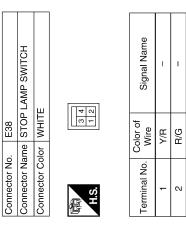
				А
		JOINT CONNECTOR-E03 WHITE	Signal Name	В
		JOINT CONNE WHITE		С
			Color of Wire L L L	D
		Connector No. Connector Color	Terminal No.	Е
				F
POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE At 14 14 15 15 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	GND (SIGNAL) HORN_RLY	Signal Name ESCL GND (POWER) PUSH_START_SW SL_CONDITION_1 SL_CONDITION_2		G
POWER D MODULE I WHITE WHITE WHITE GO OF				Н
	B B/W	Color of Wire P/L P/L B B BR BR C/O		I
Connector No. Connector Name Connector Color H.S. Terminal No. W 39 F 40 U	44	Terminal No. 11 12 28 32 33	8 8	J
			35 37	
	_		30 31 32 33 34 20 21 22 23 24	DLK
CK (J/B) Signal Name	1	E18 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) WHITE		L
		M E/R (IN WER DIST JULE EN		M
No.	A/B		11 21 21 21 21 21 21 21 21 21 21 21 21 2	N
	<u>a</u>	Connector No. Connector Name Connector Color	9 8 5 4 7 0	0

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Signal Name	I	1	I	ı	1	ı	I	ı								
Color of Wire	۵	7	0	ŋ	Д	SB	œ	PC								
Terminal No. Wire	8G	15G	21G	22G	28G	29G	57G	82G								
Connector No. E30 Connector Name WIRE TO WIRE	Connector Color WHITE				36 46 56 66 76		20G 21G 22G 23G 24G 25G 26G	18G 19G 27G 28G 29G 30G 31G 32G 33G 34G	356 366 376 386 396 416	426 436 446 436 466 476 466 436 306	55G 56G 57G 58G	nca nza n1a n0a n8c n.a. n2c nza n1a	666 676 686 686 716 726	64G 65G 73G 74G 75G 77G 77G 79G 80G	81G 82G 83G	
Connector No. E22 Connector Name JOINT CONNECTOR-E03	Connector Color WHITE								Color of Signal Name	- 7	- 7					
Connector No.	Connector C		E	ATT T	Д.				Terminal No.	-	2					



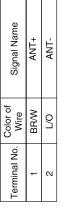


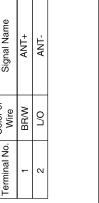
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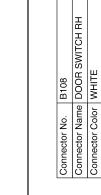
Connector No. B8 Connector Name DOOR SWITCH LH Connector Color WHITE Terminal No. Wire Signal Name 2 SB DOOR SW(DR)	A B C D
Connector No. E216	F G H
Connector No. Connector No. Connector No. Connector No. Connector No. Terminal No. 6J 6J 11J 11J 11J 17J 22J 22J 22J 22	J DLK
E215 Signal Name HORN (LOW) Signal Name HORN (LOW) Signal Name Signal Na	L
Connector Name HORN (LOW) Connector Name HORN (LOW) Connector Color of Signs Terminal No. Color of Signs Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Color WHITE (Signs 31 41 51 51 51 51 51 51 51 51 51 51 51 51 51	N O

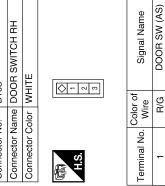
	Connector No. B46	B46
PARCEL SHELF	Connector Name	Connector Name REAR BUMPER ANTENNA
INA	Connector Color GRAY	GRAY

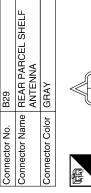
Signal Name	ANT+	ANT-
Color of Wire	BR/W	9
Terminal No.	-	2

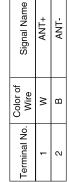






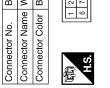






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Wire	Μ	В	

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	WIF			4		
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à	≥	8		7	7	
No.	Name WIRE TO WIRE	Color	L	-	9	

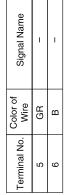


Signal Nar	-	-	
Color of Wire	R/G	R/W	
Terminal No.	10	11	

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B20	Connector Name JOINT CONNECTOR-B05	GRAY	
Connector No.	Connector Name	Connector Color GRAY	







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	ΕJ	쁘	l IN	5	13	
B48	E	WHITE		9	14	
ň	≥	≥		7	15	
	пе	٦٢		∞	16	
ė Š	Name WIRE TO WIRE	Color	·			_



Signal Name	-	1	
Color of Wire	J//G	В	
Terminal No.	7	8	

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Connector No. T1 Connector Name WIRE TO WIRE Connector Color WHITE	o. T1 ame WIRE olor WHITE	TO WIRE	Connector No. T2 Connector Name TRUNK OPENER REQUEST SWITCH Connector Color BROWN	Connector No. T4 Connector Name TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID Connector Color WHITE
明.S.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4 5 6 7 8 10 11 12 13 14 15 16	H.S.	
Terminal No.	Color of Wire Wire B	Signal Name	Terminal No. Wire Signal Name 1 G/R TRUNK_REQUEST_SW 2	al No. Color of Wire Signal Name Y/G - B -
Connector No. Connector Colc	Connector No. T5 Connector Name JOINT of Connector Color WHITE	Connector No. T5 Connector Name JOINT CONNECTOR-T01 Connector Color WHITE TH.S.	Connector No. D1 Connector Connector Name WIRE TO WIRE Connector Color WHITE Connector Color	Connector No. D2 Connector Name WIRE TO WIRE Connector Color WHITE M.S. 8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9
Terminal No.	Color of Wire B	Signal Name	Terminal No. Wire Signal Name 8 B - 3	al No. Wire Signal Name

Signal Name	I	-	I
Color of Wire	Ь	۸	B/W
Terminal No.	3	11	12

Signal Name	ı	
Color of Wire	В	
erminal No.	8	

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Connector No.	D102
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE

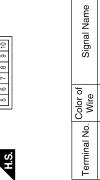
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Signal Name	_	_	_	
Color of Wire	ГG	P/L	В/У	
Terminal No.	5	6	12	

Signal Name	1	1	ı	
Color of Wire	G/W	SB	G	
Terminal No.	1	2	3	

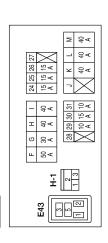


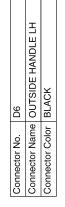




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Signal Name	ANT+	ANT-	+MS	-MS
Color of Wire	Ь	>	B/W	В
Terminal No.	-	2	3	4

Connector No.	D106
Connector Name	Connector Name OUTSIDE HANDLE RH
Connector Color BLACK	BLACK





Signal Name	ANT+	ANT-	SW+	SW-
Color of Wire	LG	В/Υ	P/L	В
Terminal No.	-	2	3	4

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Wiring Diagram — TRUNK LID OPENER SYSTEM —

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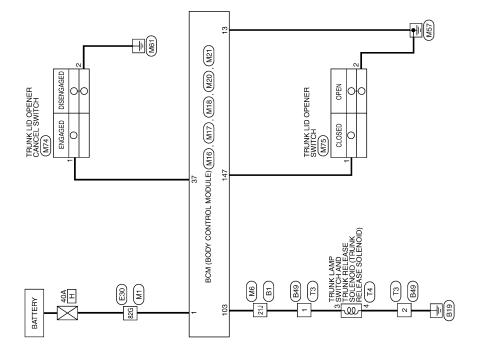
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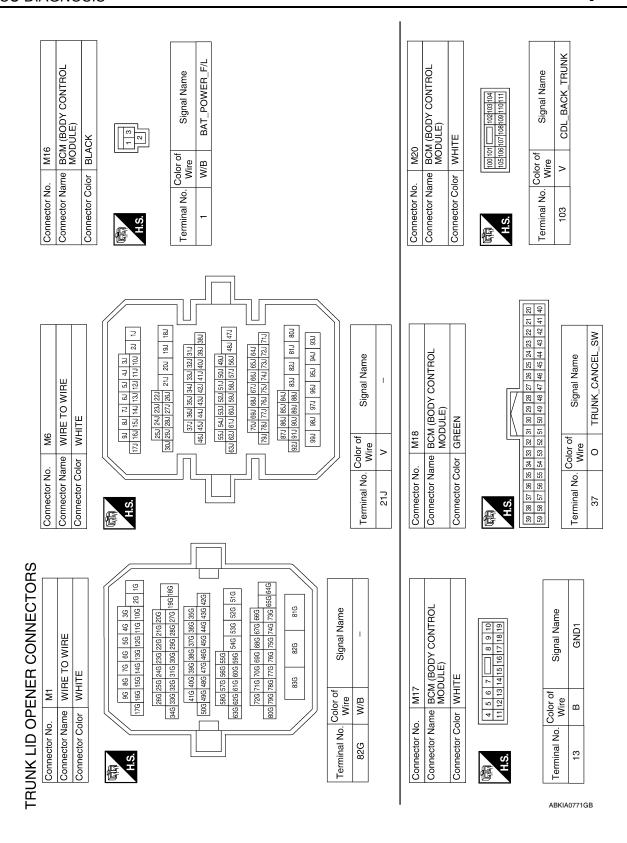
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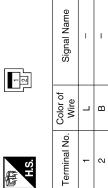
TRUNK LID OPENER



TRUNK LID OPENER SWITCH BLACK		Signal Name	Signal Name
	2 1	Color of Wire L/R	Color of Wire V
Connector Name	H.S.	Terminal No.	Z1J
CO		Ter	
ener CH		Signal Name	B1 WHRE TO WIRE WHRE TO WIRE 31 44 54 64 74 64 84 84 74 154 164 174 164 174 164 174 164 174 164 174 164 174 164 174 174 174 174 174 174 174 174 174 17
TRUNK LID OPENER CANCEL SWITCH WHITE	2 0		B1 WINE TO WINE WHITE WHITE 31 41 51 61 71 81 91 13 10 11 11 12 13 14 11 15 1161 13 20 20 20 20 20 20 20 20 20 20 20 20 20
		o. Wire O	No. B1 Name WIRE Color WHITE Name Name
Connector Name	南 H.S.	Terminal No.	Connector No. Connector Name Connector Color H.S.
	Talla	ก	
IOL	7 116 115 114 113 112 136 135 134 133 132	N N C	256 236 336 346 376 376 376 376 376 376 376 376 376 37
METI BCM (BODY CONTROL MODULE) GRAY	(15) (15) (15) (15) (15) (15) (15) (15)	Signal Name BACK_TRUNK_OPENER	246 446
	25 124 123 122 12 45 144 143 142 14	Color of Wire	E30
Connector Name	129 128 127 126 11 149 148 147 146 1	Terminal No. Co	ctor No.
Conn	H.S.	Termi	
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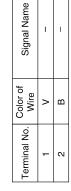
Connector No.	- T4	
Connector Name		TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
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Terminal No.	Color of Wire	Signal Name
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Connector No.	T3
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE









Fail Safe

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ABKIA0767GB

Display contents of CONSULT	Fail-safe	Cancellation	
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC	
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC	
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC	

[COUPE] < ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation	
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms	
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal	
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V	
B2601: SHIFT POSITION	Inhibit electronic steering column lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)	
Doggo OLUET DOGITION	Inhibit electronic steering	5 seconds after the following BCM recognition conditions are ful- filled • Ignition switch is in the ON position	
B2602: SHIFT POSITION	column lock	 Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more 	
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V) 	
B2604: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF	
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission range switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage)	
B2606: S/L RELAY	Inhibit engine cranking	 transmission range switch signal (CAN): ON 500 ms after the following CAN signal communication status has become consistent Electronic steering column lock relay signal (Request signal) Electronic steering column lock relay signal (Condition signal) 	
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)	

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< ECU DIAGNOSIS > [COUPE]

Display contents of CONSULT	Fail-safe	Cancellation		
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)		
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status		
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) 		
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilledPower position changes to ACCReceives engine status signal (CAN)		
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)		
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal		
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM b comes normal		
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power sup- ply output control inside BCM becomes normal		
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization		
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)		
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)		
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to electronic steel ing column lock, and receives LOCK response signal from electronic steering column lock, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)		

DTC Inspection Priority Chart

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If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)

< ECU DIAGNOSIS > [COUPE]

Priority	DTC	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	
	B2193. ANTI SCANNING B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP	
	 B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION 	
	 B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW 	
	 B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS 	
4	 B260A: IGNITION RELAY B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT 	
	 B260F: ENG STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC 	
	 B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM 	
	B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E1: ENG STATE NO RECIV B26E8: CLUTCH SW	
	 B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	

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< ECU DIAGNOSIS > [COUPE]

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [OHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [POBESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-39
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-40
U0415: VEHICLE SPEED SIG	_	_	_	BCS-41
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-39 (Coupe) SEC-249 (Sedan with I-Key) SEC-458 (Sedan without I-Key)
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-40 (Coupe) SEC-250 (Sedan with I-Key) SEC-459 (Sedan without I-Key)
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe) SEC-275 (Sedan with I-Key) SEC-478 (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	_	_	SEC-68 (Coupe) SEC-278 (Sedan with I-Key) SEC-481 (Sedan without I-Key)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS > [COUPE]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	_
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-69 (Coupe) SEC-279 (Sedan with I-Key) SEC-482 (Sedan without I-Key)	=
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-70 (Coupe) SEC-280 (Sedan with I-Key) SEC-483 (Sedan without I-Key)	_
B2195: ANTI SCANNING	×	_	_	SEC-70 (Coupe) SEC-281 (Sedan with I-Key) SEC-484 (Sedan without I-Key)	_
B2553: IGNITION RELAY	_	_	_	PCS-62	_
B2555: STOP LAMP	_	_	_	SEC-72 (Coupe) SEC-282 (Sedan with I-Key) SEC-485 (Sedan without I-Key)	=
B2556: PUSH-BTN IGN SW	_	×	_	SEC-74 (Coupe) SEC-284 (Sedan with I-Key) SEC-487 (Sedan without I-Key)	_
B2557: VEHICLE SPEED	×	×	_	SEC-76 (Coupe) SEC-286 (Sedan with I-Key) SEC-489 (Sedan without I-Key)	_
B2560: STARTER CONT RELAY	×	×	_	SEC-77 (Coupe) SEC-287 (Sedan with I-Key) SEC-490 (Sedan without I-Key)	_
B2562: LOW VOLTAGE	_	_	_	BCS-42	-
B2601: SHIFT POSITION	×	×	_	SEC-78 (Coupe) SEC-288 (Sedan with I-Key) SEC-491 (Sedan without I-Key)	=
B2602: SHIFT POSITION	×	×	_	SEC-81 (Coupe) SEC-291 (Sedan with I-Key) SEC-494 (Sedan without I-Key)	_
B2603: SHIFT POSI STATUS	×	×	_	SEC-84 (Coupe) SEC-294 (Sedan with I-Key) SEC-497 (Sedan without I-Key)	
B2604: PNP SW	×	×	_	SEC-87 (Coupe) SEC-297 (Sedan with I-Key) SEC-500 (Sedan without I-Key)	_
B2605: PNP SW	×	×	_	SEC-89 (Coupe) SEC-299 (Sedan with I-Key) SEC-502 (Sedan without I-Key)	_
B2606: S/L RELAY	×	×	_	SEC-91 (Coupe) SEC-301 (Sedan with I-Key) SEC-504 (Sedan without I-Key)	_
B2607: S/L RELAY	×	×	_	<u>SEC-92</u> (Coupe) <u>SEC-302</u> (Sedan with I-Key) <u>SEC-505</u> (Sedan without I-Key)	_
B2608: STARTER RELAY	×	×	_	SEC-94 (Coupe) SEC-304 (Sedan with I-Key) SEC-507 (Sedan without I-Key)	_
B2609: S/L STATUS	×	×	_	SEC-96 (Coupe) SEC-306 (Sedan with I-Key) SEC-509 (Sedan without I-Key)	_
B260A: IGNITION RELAY	×	×		PCS-64	_
B260B: STEERING LOCK UNIT	_	×	_	SEC-100 (Coupe) SEC-310 (Sedan with I-Key) SEC-513 (Sedan without I-Key)	=

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[COUPE]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
3260C: STEERING LOCK UNIT	_	×	_	SEC-101 (Coupe) SEC-311 (Sedan with I-Key) SEC-514 (Sedan without I-Key)
B260D: STEERING LOCK UNIT	_	×	_	<u>SEC-102</u> (Coupe) <u>SEC-312</u> (Sedan with I-Key) <u>SEC-515</u> (Sedan without I-Key)
B260F: ENG STATE SIG LOST	×	×	_	SEC-103 (Coupe) SEC-313 (Sedan with I-Key) SEC-516 (Sedan without I-Key)
B2612: S/L STATUS	×	×	_	SEC-108 (Coupe) SEC-318 (Sedan with I-Key) SEC-519 (Sedan without I-Key)
B2614: ACC RELAY CIRC	_	×	_	PCS-67
B2615: BLOWER RELAY CIRC	_	×	_	PCS-70
B2616: IGN RELAY CIRC	_	×	_	PCS-73
B2617: STARTER RELAY CIRC	×	×	_	SEC-112 (Coupe) SEC-322 (Sedan with I-Key) SEC-523 (Sedan without I-Key)
B2618: BCM	×	×	_	PCS-76
32619: BCM	×	×	_	SEC-114 (Coupe) SEC-324 (Sedan with I-Key) SEC-525 (Sedan without I-Key)
B261A: PUSH-BTN IGN SW	_	×	_	SEC-116 (Coupe) SEC-326 (Sedan with I-Key) SEC-527 (Sedan without I-Key)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-116 (Coupe) SEC-325 (Sedan with I-Key) SEC-526 (Sedan without I-Key)
B2622: INSIDE ANTENNA	_	_	_	DLK-57 (Coupe) DLK-279 (Sedan with I-Key) DLK-480 (Sedan without I-Key)
B2623: INSIDE ANTENNA	_	_	_	DLK-60 (Coupe) DLK-282 (Sedan with I-Key) DLK-483 (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	_	SEC-118 (Coupe) SEC-328 (Sedan with I-Key) SEC-529 (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	_	SEC-118 (Coupe) SEC-314 (Sedan with I-Key)
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	SEC-118 (Coupe) SEC-316 (Sedan with I-Key) SEC-517 (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-118 (Coupe) SEC-317 (Sedan with I-Key) SEC-518 (Sedan without I-Key)
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	WT-53
C1706: LOW PRESSURE RR	_	_	×	<u>vv 1-55</u>
C1707: LOW PRESSURE RL	_	_	×	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS > [COUPE]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1708: [NO DATA] FL	_	_	×	
C1709: [NO DATA] FR	_	_	×	WT 14
C1710: [NO DATA] RR	_	_	×	<u>WT-14</u>
C1711: [NO DATA] RL	_	_	×	
C1712: [CHECKSUM ERR] FL	_	_	×	
C1713: [CHECKSUM ERR] FR	_	_	×	WT 16
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-16</u>
C1715: [CHECKSUM ERR] RL	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	×	WT 10
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	_	×	
C1720: [CODE ERR] FL	_	_	×	
C1721: [CODE ERR] FR	_	_	×	
C1722: [CODE ERR] RR	_	_	×	
C1723: [CODE ERR] RL	_	_	×	WT 16
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	_	×	
C1726: [BATT VOLT LOW] RR	_	_	×	
C1727: [BATT VOLT LOW] RL	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>

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INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[COUPE]

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Symptom Table

ALL FUNCTIONS OF INTELLIGENT KEY SYSTEM DO NOT OPERATE **NOTE**:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-11, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "ENGINE START BY I-KEY" and "LOCK/UNLOCK BY I-KEY" are ON when setting on CONSULT-III.
- · All doors are closed.

Symptom		Diagnosis/service procedure	Reference page
All functions of Intelligent Key system do not operate.	1.	Check BCM power supply and ground circuit.	DLK-63
	2.	Check Intelligent Key function and battery inspection.	DLK-110
	3.	Check remote keyless entry receiver.	DLK-107
	4.	Check Intermittent Incident.	<u>GI-42</u>

DOOR LOCK FUNCTION SYMPTOMS

[COUPE] < SYMPTOM DIAGNOSIS >

DOOR LOCK FUNCTION SYMPTOMS DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH: Symptom Table

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DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-11, "Work Flow".
- · Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- Intelligent Key is out of key slot.
- · All doors are closed.

Symptom		Diagnosis/service proce	Reference page	
		Check BCM Power supply and gr	ound circuit.	DLK-63
Power door lock does not operate with door	2.	Check door lock and unlock switch	h.	DLK-67
lock and unlock switch.	3.	Check door lock actuator (driver s	side)	DLK-98
	4.	Check Intermittent Incident.		<u>GI-42</u>
Power door lock does not operate with door	1.	Check key cylinder switch.		DLK-76
key cylinder operation. (Power door lock operate properly with door lock and unlock switch.)		Replace power window main switch.		<u>INT-12</u>
	1.	Check door lock actuator.	Driver side	DLK-98
Specific door lock actuator does not operate.			Passenger side	DLK-99
	2.	Check Intermittent Incident.		<u>GI-42</u>
Vehicle speed sensing auto door LOCK opera-	1.	Ensure automatic door lock/unlock function (lock operation) is enabled.		DLK-53
tion does not operate.	2.	Check combination meter vehicle speed signal.		MWI-42
	3.	Check intermittent incident.		<u>GI-42</u>
Ignition OFF interlock auto door UNLOCK	1.	Ensure automatic door lock/unlock function (unlock operation) is enabled.		DLK-53
function does not operate.	2.	Check BCM for DTCs.		DLK-180
	3.	Check intermittent incident.		<u>GI-42</u>

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH: Symptom Table

INFOID:0000000004204716

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-11, "Work Flow".</u>
- · Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- Intelligent Key is out of key slot.
- All doors are closed.

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Symptom		Diagnosis/service procedure	Reference page
	1.	Check BCM power supply and ground circuit.	<u>DLK-63</u>
Door lock/unlock do not operate by door re-	2.	Check door switch.	<u>DLK-64</u>
quest switch.	3.	Check key slot.	<u>DLK-74</u>
	4.	Check Intermittent Incident.	<u>GI-42</u>
	1.	Check door request switch (driver side).	<u>DLK-91</u>
Door lock/unlock does not operate by request switch (driver side).	2.	Check outside key antenna (driver side).	DLK-104
emen (enversion).	3.	Check Intermittent Incident.	<u>GI-42</u>
Door lock/unlock does not operate by request switch (passenger side).	1.	Check door request switch (passenger side).	<u>DLK-91</u>
	2.	Check outside key antenna (passenger side).	DLK-104
	3.	Check Intermittent Incident.	<u>GI-42</u>
Selective unlock function does not operate by	1.	Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".	DLK-53
door request switch (driver side) (other door lock function operate).	2.	Check selective unlock function with a remote controller or door key cylinder.	DLK-20
	3.	Check Intermittent Incident.	<u>GI-42</u>
Selective unlock function does not operate by door request switch (passenger side) (other	1.	Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".	DLK-53
door lock function operate).	2.	Check Intermittent Incident.	<u>GI-42</u>
	1.	Check "AUTO LOCK SET" setting in "WORK SUP-PORT".	DLK-53
Auto lock function does not operate.	2.	Check door switch.	<u>DLK-64</u>
·	3.	Check key slot.	DLK-74
	4.	Check Intermittent Incident.	<u>GI-42</u>

INTELLIGENT KEY

INTELLIGENT KEY: Symptom Table

INFOID:0000000004204717

REMOTE KEYLESS ENTRY FUNCTION MALFUNCTION NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-11, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · Intelligent Key is out of key slot.
- · Ignition switch is in OFF or ACC position.
- · All doors are closed.
- Retaind power operation does not operate. Refer to <u>DLK-25, "INTELLIGENT KEY: System Description"</u>.

Symptom	Diagnosis/service procedure		Reference page
All of the remote keyless entry functions do not operate.	1.	Check Intelligent Key battery inspection.	DLK-110
	2.	Check Intermittent Incident.	<u>GI-42</u>
Selective unlock function does not operate by Intelligent Key.	1.	Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUP-PORT".	DLK-53
	2.	Check Intelligent Key battery inspection.	DLK-110
	3.	Check Intermittent Incident.	<u>GI-42</u>

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[COUPE]

Symptom	Diagnosis/service procedure	Reference page
Auto lock function does not operate normally.	1. Check "AUTO LOCK SET" setting in "WORK SUPPORT".	DLK-53
	2. Check door switch.	<u>DLK-64</u>
	3. Check key slot.	DLK-74
	Check Intermittent Incident.	<u>GI-42</u>
Power window down function does not op-	Check "PW DOWN SET" setting in "WORK SUPPORT".	<u>DLK-53</u>
erate.	2. Check Intelligent Key battery inspection.	<u>DLK-110</u>

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TRUNK OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS > [COUPE]

TRUNK OPEN FUNCTION SYMPTOMS TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH: Symptom Table

INFOID:0000000004204718

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-11, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · Intelligent Key is out of key slot.
- All doors are closed.

Symptom	Diagnosis/service procedure	Reference page
Trunk open function does not operate by trunk opener switch.	Check trunk opener switch.	DLK-83
	Check trunk lid opener cancel switch.	<u>DLK-86</u>
	Check Intermittent Incident.	<u>GI-42</u>

TRUNK REQUEST SWITCH

TRUNK REQUEST SWITCH: Symptom Table

INFOID:0000000004204719

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-11, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following "symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · Intelligent Key is out of key slot.
- · All doors are closed.

Symptom	Diagnosis/service procedure	Reference page
Trunk open function does not operate by trunk opener request switch.	Check trunk opener request switch.	DLK-95
	Check trunk lid opener cancel switch.	DLK-86
	Check outside key antenna (trunk room).	DLK-104
	4. Check Intermittent Incident.	<u>GI-42</u>

INTELLIGENT KEY

INTELLIGENT KEY: Symptom Table

INFOID:0000000004204720

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-11, "Work Flow"</u>.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key is out of key slot.
- · All doors are closed.

TRUNK OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

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Symptom	Diagnosis/service procedure	Reference page
Trunk open function does not operate by Intelligent Key.	1. Check "TRUNK OPEN DELAY" setting in "WORK SUPPORT".	DLK-53
	2. Check trunk open function.	DLK-37
	Check trunk room lamp switch.	DLK-88
	Check Intelligent Key battery inspection.	DLK-110
	5. Check Intermittent Incident.	<u>GI-42</u>

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WARNING FUNCTION SYMPTOMS

Symptom Table

WARNING FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-11, "Work Flow".</u>
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following "symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation.

Symptom		Diagnosis/service procedure	Reference page
		Check push button ignition switch position indicator.	<u>SEC-74</u>
	For internal	2. Check door switch.	DLK-64
	For internal	Check warning chime function.	DLK-117
OFF position warn- ing does not oper-		Check Intermittent Incident.	<u>GI-42</u>
ate.		Check push button ignition switch position indicator.	SEC-74
	For external	2. Check door switch.	DLK-64
	FOI external	Check Intelligent Key warning buzzer.	DLK-102
		Check Intermittent Incident.	<u>GI-42</u>
		Check Park position switch.	<u>SEC-87</u>
		2. Check door switch.	DLK-64
P position warning d	loos not aparata	Check Intelligent Key warning buzzer.	DLK-102
P position warning o	loes not operate.	Check warning chime function.	DLK-117
		Check combination meter display function.	DLK-116
		Check Intermittent Incident.	<u>GI-42</u>
		Check push button ignition switch position indicator.	<u>SEC-74</u>
ACC warning door r	act aparata	Check warning chime function.	DLK-117
ACC warning does not operate		Check combination meter display function.	DLK-116
		Check Intermittent Incident.	<u>GI-42</u>

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

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Symptom			Diagnosis/service procedure				
		1.	Check door switch.	T	<u>DLK-64</u>		
		2.	Check inside key antenna.	Console	<u>DLK-57</u>		
	Door open to close		<u> </u>	Trunk room	<u>DLK-60</u>		
		3.	Check Intelligent Key warning buzzer.		DLK-102		
		4.	Check warning chime function.		DLK-117		
		5.	Check key slot illumination.		DLK-112		
		6.	Check combination meter display function	n.	DLK-116		
		7.	Check Intermittent Incident.		<u>GI-42</u>		
		1.	Check push button ignition switch position	n indicator.	<u>SEC-74</u>		
		2.	Check inside key antenna.	Console	DLK-57		
	Push-button igni-		check morde key anterma.	Trunk room	<u>DLK-60</u>		
	tion switch opera-	3.	Check warning chime function.		DLK-117		
	tion	4.	Check key slot illumination.		DLK-112		
Take away warning		5.	Check combination meter display function	n.	DLK-116		
does not operate.		6.	Check Intermittent Incident.		<u>GI-42</u>		
	Door is open	1.	Check push button ignition switch position	n indicator.	SEC-74		
		2	Charle incide key entenne	Console	DLK-57		
		2.	Check inside key antenna.	Trunk room	DLK-60		
		3.	Check combination meter display function	n.	DLK-116		
		4.	Check Intermittent Incident.		<u>GI-42</u>		
		1.	Check "TAKE OUT FROM WIN WARN" : SUPPORT".	setting in "WORK	DLK-53		
		2	Charle incide key entenne	Console	DLK-57		
	Take away through	2.	Check inside key antenna.	Trunk room	DLK-60		
	window	3.	Check warning chime function.	DLK-117			
		Check key slot illumination.		DLK-112			
		5.	5. Check combination meter display function.				
		6.	Check Intermittent Incident.		<u>GI-42</u>		
		1.	1. Check key slot.		DLK-74		
		2.	2. Check door switch.		DLK-64		
	d	3.	3. Check warning chime function.		DLK-117		
Key warning chime	does not operate.	4.	4. Check key slot illumination.		DLK-112		
		Check combination meter display function.		n.	DLK-116		
		Check Intermittent Incident.		<u>GI-42</u>			
		Check door switch.			<u>DLK-64</u>		
		Check key slot illumination.			DLK-112		
Door lock operation	warning chime does	Check Intelligent Key warning buzzer.			DLK-102		
not operate.	J 2		Ohaali isaida la sasta s	Console	<u>DLK-57</u>		
		4.	Check inside key antenna.	Trunk room	DLK-60		
		5.	Check Intermittent Incident.				

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KEY REMINDER FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[COUPE]

KEY REMINDER FUNCTION SYMPTOMS

Symptom Table

KEY REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work flow". Refer to DLK-11, "Work Flow".
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- "ANSWER BACK FUNCTION" is ON when setting on CONSULT-III.
- Ignition switch is in OFF position.
- · All doors are closed.
- · Intelligent Key is out of key slot.

Symptom	Diagnosis/service procedure	Reference page
	Check "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT".	DLK-74
	Check door switch.	DLK-64
Key reminder function does not operate.	Check inside key antenna.	DLK-117
	Check unlock sensor.	DLK-112
	Check Intelligent Key battery inspection.	DLK-110
	6. Check Intermittent Incident.	<u>GI-42</u>

HAZARD FUNCTION

Symptom Table

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HAZARD AND BUZZER REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work flow". Refer to DLK-11, "Work Flow".
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- "ANSWER BACK FUNCTION" is ON when setting on CONSULT-III.
- Ignition switch is in OFF position.
- · All doors are closed.
- · Intelligent Key is out of key slot.

Symptom		Diagnosis/service procedure	
Hazard reminder does not operate by request	1.	Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-53
switch. (Buzzer reminder operate.)	2.	Check hazard function.	DLK-118
(2423:10111110:10)	3.	Check Intermittent incident.	<u>GI-42</u>
Hazard reminder does not operate by Intelligent Key.	1.	Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-53
(Buzzer reminder operate.)	2.	Check hazard function.	DLK-118
	3.	Check Intelligent Key battery inspection.	DLK-110
Buzzer reminder does not operate by request	1.	Check "ANS BACK I-KEY LOCK" or "ANS BACK I-KEY UNLOCK" setting in "WORK SUPPORT".	DLK-53
switch. (Hazard reminder operate.)	2.	Check Intelligent Key warning buzzer.	DLK-102
(3.	Check Intermittent incident.	<u>GI-42</u>
	1.	Check "TRUNK OPEN DELAY" setting in "WORK SUPPORT".	DLK-53
Buzzer reminder does not operate by trunk opener request switch.	2.	Check Intelligent Key warning buzzer.	DLK-102
request switch.	3.	Check trunk open function.	DLK-32
	4.	Check Intermittent incident.	<u>GI-42</u>

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HORN FUNCTION

Symptom Table

HAZARD AND HORN REMINDER FUNCTION MALFUNCTION

- Before performing the diagnosis in the following table, check "Work flow". Refer to <u>DLK-11, "Work Flow".</u>
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "ANSWER BACK FUNCTION" is ON when setting on CONSULT-III.
- Ignition switch is in OFF position.
- · All doors are closed.

Symptom		Diagnosis/service procedure	Reference page
Hazard reminder does not operate by request		Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-53
switch. (Horn reminder operate.)	2.	Check hazard function.	DLK-118
(3.	Check Intermittent Incident.	<u>GI-42</u>
Hazard reminder does not operate by Intelligent Key.		Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-53
(Horn reminder operate.)	2.	Check hazard function.	DLK-118
	3.	Check Intelligent Key battery inspection.	DLK-110
Horn reminder does not operate by request switch.		Check "ANSWER BACK WITH I-KEY LOCK" or "ANSWER BACK WITH I-KEY UNLOCK" setting in "WORK SUPPORT".	DLK-53
(Hazard reminder operate.)	2.	Check Intelligent Key warning buzzer.	DLK-102
		Check Intermittent Incident.	<u>GI-42</u>
Horn reminder does not operate by Intelligent Key.		Check "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT".	DLK-53
(Hazard reminder operate.)	2.	Check horn function.	DLK-114
		Check Intermittent Incident.	<u>GI-42</u>

INTEGRATED HOMELINK TRANSMITTER

< SYMPTOM DIAGNOSIS > [COUPE]

INTEGRATED HOMELINK TRANSMITTER

Symptom Table

HOMELINK UNIVERSAL TRANSCEIVER MALFUNCTION

Symptom		Diagnosis/service procedure	Reference page
Homelink universal transceiver does not operate properly.		Check homelink universal transceiver function.	DLK-121
		Check Intermittent Incident.	<u>GI-42</u>

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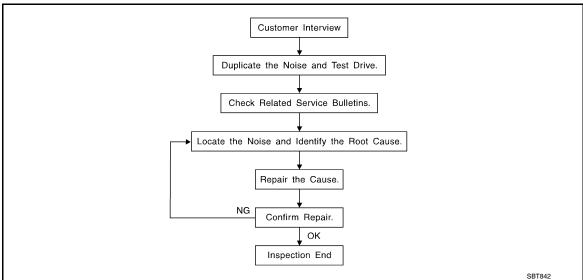
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SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to DLK-200, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 - Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 - Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle)
 - Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
 - Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
 - Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
 - Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge
 as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

[COUPE] < SYMPTOM DIAGNOSIS >

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT model).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.

Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.

- tapping or pushing/pulling the component that you suspect is causing the noise.
- Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only tem-
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- · looking for loose components and contact marks. Refer to <u>DLK-198</u>, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31 \text{ in})/76884-71L01$: 60×85 mm $(2.36 \times 3.35 \text{ in})/76884-71L01$

71L02: $15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in})$

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 \times 50 mm (1.18 \times 1.97 in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000: 15×25 mm (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

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< SYMPTOM DIAGNOSIS >

[COUPE]

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that will be visible or not fit. Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

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Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- 2. Inside handle escutcheon to door finisher
- Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

- Trunk lid bumpers out of adjustment
- Trunk lid striker out of adjustment
- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

[COUPE] < SYMPTOM DIAGNOSIS > Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) caus-

SUNROOF/HEADLINING

ing the noise.

Noises in the sunroof/headlining area can often be traced to one of the following:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sunvisor shaft shaking in the holder
- Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- A squeak between the seat pad cushion and frame
- The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- Any component mounted to the engine wall
- Components that pass through the engine wall 2.
- Engine wall mounts and connectors
- Loose radiator mounting pins
- Hood bumpers out of adjustment
- Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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Diagnostic Worksheet

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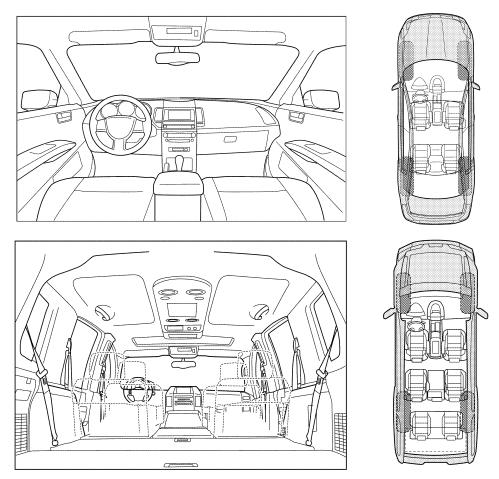
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

-1-

< SYMPTOM DIAGNOSIS >

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II. WHEN DOES IT OCCUR? (please check	ne boxes that apply)	
☐ Anytime☐ 1st time in the morning☐ Only when it is cold outside☐ Only when it is hot outside	After sitting out in the rain When it is raining or wet Dry or dusty conditions Other:	
III. WHEN DRIVING:	V. WHAT TYPE OF NOISE	
 ☐ Through driveways ☐ Over rough roads ☐ Over speed bumps ☐ Only about mph ☐ On acceleration ☐ Coming to a stop ☐ On turns: left, right or either (circle) ☐ With passengers or cargo ☐ Other: 	Squeak (like tennis shoes on a clear Creak (like walking on an old woode Rattle (like shaking a baby rattle) Knock (like a knock at the door) Tick (like a clock second hand) Thump (heavy muffled knock noise) Buzz (like a bumble bee)	
After driving miles or minutes		
After driving miles or minutes TO BE COMPLETED BY DEALERSHIP PER: Test Drive Notes:	YES NO Initials	of person
TO BE COMPLETED BY DEALERSHIP PER	YES NO Initials perfo	of person orming

< PRECAUTION > [COUPE]

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

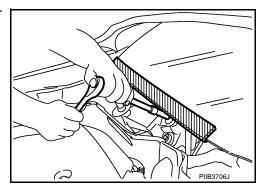
WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Procedure without Cowl Top Cover

INFOID:0000000004204730

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Precaution for work

INFOID:0000000004204731

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

PREPARATION

[COUPE] < PREPARATION >

PREPARATION

PREPARATION

Special Service Tools

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	SIIAO993E	Locating the noise
(J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairing the cause of noise
 (J-43241) Remote Keyless Entry Tester	LEL946A	Used to test keyfobs

Commercial Service Tools

INFOID:0000000004204733

Tool name		Description	
Engine ear	SIIA0995E	Locating the noise	
Power tool			

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2009 Altima

ON-VEHICLE REPAIR

HOOD

HOOD ASSEMBLY

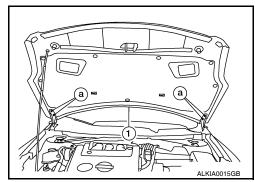
HOOD ASSEMBLY: Removal and Installation

INFOID:0000000004204734

REMOVAL

Remove the hinge nuts (a) and the hood assembly (1).
 CAUTION:

Remove using two workers, to avoid damaging the hood assembly.



INSTALLATION

Installation is in the reverse order of removal.

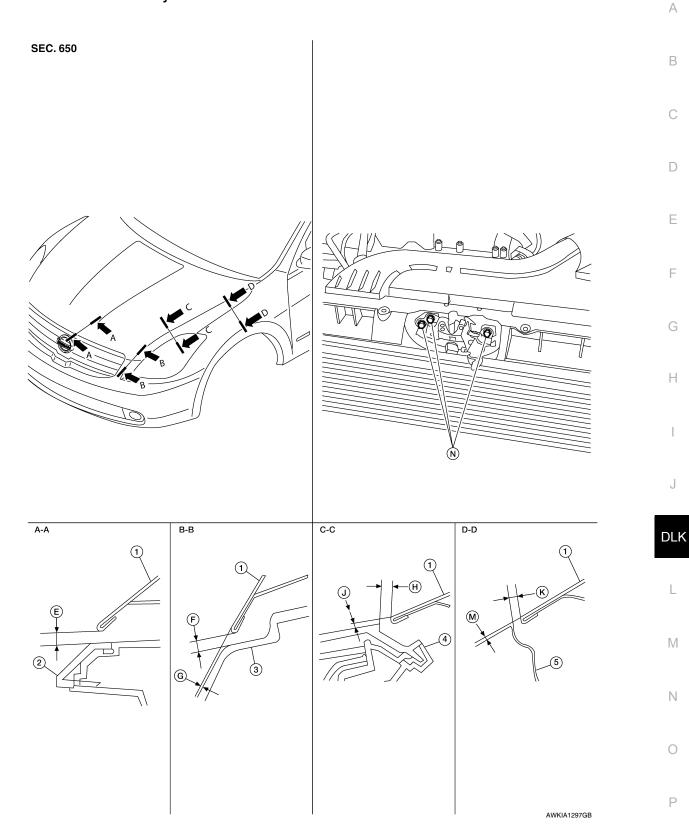
Hood hinge nuts : 14 N·m (1.4 kg·m, 10 ft-lb)

NOTE:

After installing, perform hood fitting adjustment. Refer to DLK-205, "HOOD ASSEMBLY: Adjustment".

HOOD ASSEMBLY : Adjustment

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Hood assembly

2. Front grille

3. Front fascia

4. Headlamp assembly

5. Front fender

N. 22 N·m (2.2 kg-m, 16 ft-lb)

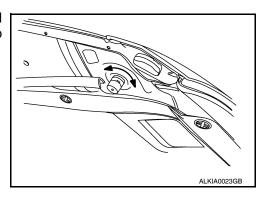
FRONT END HEIGHT ADJUSTMENT AND LATERAL/LONGITUDUNAL CLEARANCE ADJUST-MENT

Unit: mm (in)

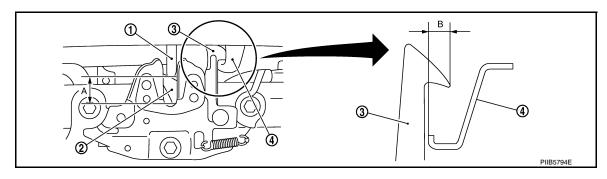
Section	Item	Measurement	Standard	Parallelism	Equality
A – A	Е	Clearance	$5.0 \pm 2.5~(0.20 \pm 0.10)$	≤2.0 (0.079)	_
B – B	F	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.079)$	≤2.0 (0.079)	≤ 2.0 (0.079)
D – B	G	Surface height	$0.8 \pm 2.0 \; (0.03 \pm 0.079)$	≤ 2.0 (0.079)	≤ 2.0 (0.079)
C – C	Н	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.079)$	≤ 2.0 (0.079)	2.0 (0.079)
0-0	J	Surface height	$1.0 \pm 2.0 \; (0.04 \pm 0.079)$	_	< 2.0 (0.079)
D – D	K	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	1.0 (0.04)	1.0 (0.04)
ט-ט	М	Surface height	0.2 ± 1.0 (0.01 ± 0.04)	1.0 (0.04)	1.0 (0.04)

Front End Height Adjustment

- 1. Check the surface height between the hood and each part by visual and tactile feeling.
- 2. Remove the front grille. Refer to EXT-18, "Removal and Installation".
- 3. Remove the hood lock.
- Adjust the surface level difference of the hood, fender and head lamp by rotating the hood bumpers until the hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.



- 5. Install and align the hood lock center with the center of the hood striker. Engage the lock with the striker and check for looseness.
- 6. Adjust A and B as shown to the specifications with hood's own weight by dropping it from approx. 200 mm (7.87 in) height or by pressing the hood closed lightly [approx. 29 N (3 kg-f)].



1. Hood striker

Primary latch

Secondary striker

Secondary latch

A. 20 mm (0.79 in)

- B 6.8 mm (0.27 in)
- 7. After adjustment tighten the hood lock bolts to the specified torque.

Lateral/Longitudinal Clearance Adjustment

- Check the clearance between the hood and each part by visual and tactile feeling.
- 2. Loosen the hood hinge bolts.

NOTE:

The anticorrosive agent applied between the hoodledge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

- Move the hood so that the clearance measurements are within specifications.
- 4. Tighten the hood hinge bolts.

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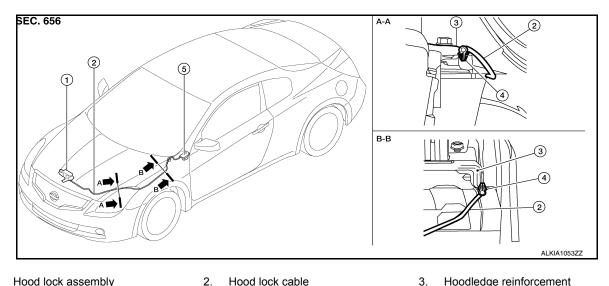
After installation apply touch-up paint onto the hinge bolts and around the base of the hinge.

Hood hinge bolts 14 N·m (1.4 kg-m, 10 ft-lb)

5. If the clearance measurements between the hood and fender cannot be corrected by moving the hood, the fender must be adjusted. Refer to DLK-212, "Removal and Installation".

HOOD LOCK CONTROL

HOOD LOCK CONTROL: Component Parts Location

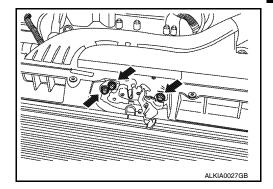


- Hood lock assembly
 - 2.
 - Hood lock release handle Clip
- Hoodledge reinforcement

HOOD LOCK CONTROL: Removal and Installation

REMOVAL

- Remove the front grill. Refer to EXT-18, "Removal and Installation".
- Remove the LH fender protector. Refer to EXT-20, "Removal and Installation".
- Remove the hood lock assembly bolts.



Disconnect the hood lock cable from the hood lock assembly, and unclip it from the hoodledge.

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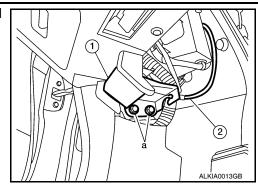
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DLK-207 Revision: February 2010 2009 Altima < ON-VEHICLE REPAIR > [COUPE]

5. Remove the screws (a) with power tool, and separate the hood lock release handle (1) from the hood lock cable (2).



Remove the grommet from the upper dash, and pull the hood lock cable into the passenger compartment. CAUTION:

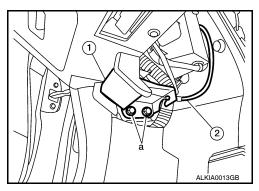
While pulling, be careful not to damage (peel) the outside of the hood lock cable.

INSTALLATION

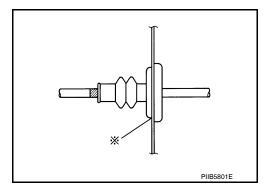
Pull the hood lock cable through the upper dash into the engine compartment.
 CAUTION:

Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.

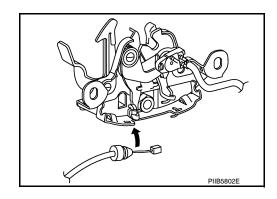
- 2. Check that the cable is not offset from the center of the grommet, and seat the grommet into the upper dash hole.
- 3. Connect the hood lock cable (2), to the hood lock release handle (1), then install the screws (a).



4. Apply the sealant around the grommet at * mark.



- 5. Position the hood lock cable and clip it into place.
- Connect the hood lock cable to the hood lock assembly.



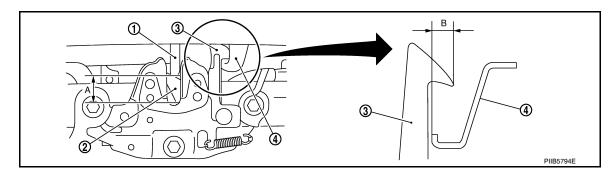
- 7. Loosely install the hood lock assembly.
- 8. Perform hood fitting adjustment. Refer to DLK-205, "HOOD ASSEMBLY: Adjustment".
- 9. Check the hood lock control operation.

INSPECTION

CAUTION:

If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is positioned within specification of the secondary striker with hood's own weight.

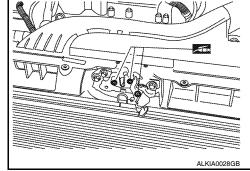


Hood striker

Secondary latch

- 2. Primary latch
- A. 20 mm (0.8 in)

- 3. Secondary striker
- B. 6.8 mm (0.3 in)
- 2. While operating the hood lock release handle, carefully check that the front end of the hood is raised by approx. 20 mm (0.8 in). Also check that the hood lock release handle returns to the original position.
- 3. Check that the hood lock release handle operating force is less than 294 N (30 kg, 66 lb).
- 4. Install so the static closing force of the hood is 344 431 N·m (35 44 kg-m, 254 318 ft-lb).
- 5. Check the hood lock lubrication condition. If necessary, apply grease as shown.



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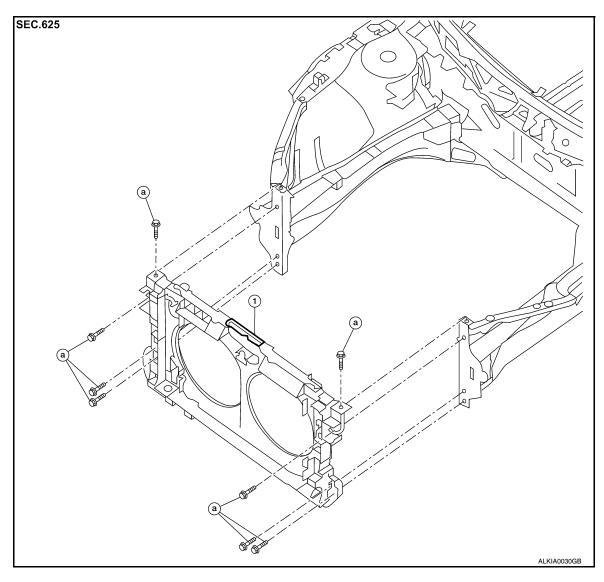
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RADIATOR CORE SUPPORT

Removal and Installation

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1. Radiator core support

a. Bolts

REMOVAL

- Remove front bumper reinforcement. Refer to <u>EXT-14</u>, "<u>Removal and Installation</u>".
- 2. Remove head lamps (LH/RH). Refer to EXL-265, "Headlamp".
- 3. Remove air duct. Refer to QR25DE, <u>EM-25</u>, "Removal and Installation" VQ35DE <u>EM-129</u>, "Removal and Installation".
- 4. Remove the radiator cooling fans. Refer to QR25DE <u>CO-18</u>, "Removal and Installation", VQ35DE <u>CO-41</u>, "Removal and Installation".
- 5. Remove the radiator. Refer to QR25DE <u>CO-16</u>, "Removal and Installation", VQ35DE <u>CO-38</u>, "Removal and Installation".
- 6. Remove the hood lock control. Refer to DLK-207, "HOOD LOCK CONTROL: Removal and Installation".
- 7. Remove ambient sensor. Refer to <u>HA-40, "Removal and Installation"</u>.
- 8. Remove crash zone sensor. Refer to SR-14, "Removal and Installation".
- Remove air guides (LH/RH).
- 10. Remove power steering tube assembly. Refer to QR25DE <u>ST-22</u>, "QR25DE : Removal and Installation", VQ35DE <u>ST-22</u>, "VQ35DE : With 17 Inch Tire" or <u>ST-24</u>, "VQ35DE : With 18 Inch Tire".

RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR > [COUPE]

- 11. Remove horn (High/Low). Refer to HRN-12, "Removal and Installation".
- 12. Remove the hood support rod.
- 13. Remove the harness clips from the radiator core support assembly and position the harness aside.
- 14. Remove the bolts and the radiator core support.

INSTALLATION

Installation is in the reverse order of removal.

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FRONT FENDER

< ON-VEHICLE REPAIR > [COUPE]

FRONT FENDER

Removal and Installation

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REMOVAL

- 1. Remove the head lamp. Refer to EXL-254, "Removal and Installation".
- 2. Remove the front fender protector. Refer to EXT-20, "Removal and Installation".
- 3. Remove the inner fender bolt cover.
- 4. Remove the center mud guard. Refer to EXT-21, "Removal and Installation".
- 5. Remove the bolts and the front fender.

CAUTION:

- While removing, use a shop cloth to protect the body from damage.
- Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the foam or damage to the fender may occur.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

• After installing, apply touch-up paint (the body color) onto the head of the front fender bolts.

ADJUSTMENT

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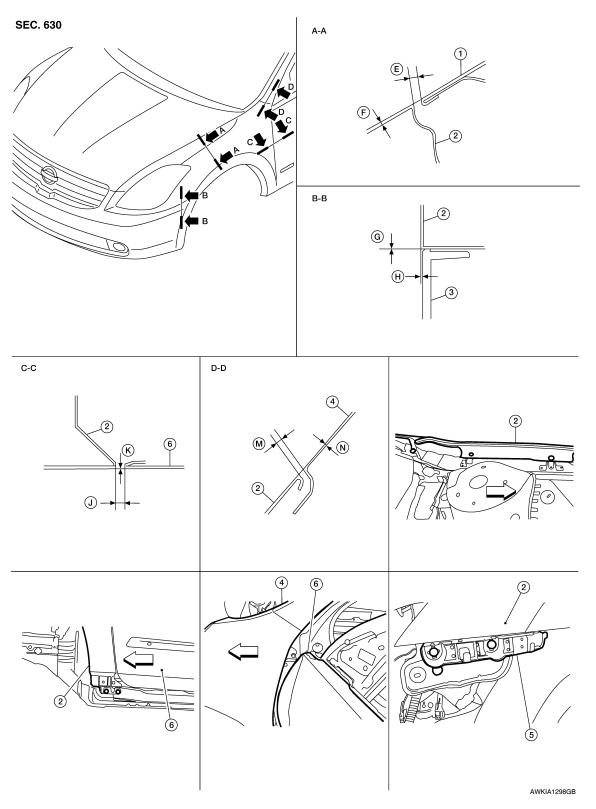
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- Hood assembly
- Body side outer
- ← Front

- Front fender
- Front fascia bracket
- 3. Front fascia
- Front door assembly

FRONT FENDER

[COUPE]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A A	E	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	1.0 (0.04)	1.0 (0.04)
A-A —	F	Surface height	$0.2 \pm 1.0 \ (0.01 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)
В-В	G	Clearance	0.0 + 0.8 (0.0 + 0.031)	_	_
D-B	Н	Surface height	$0.7 \pm 1.0 \; (0.028 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)
C-C	K	Surface height	$0.0 \pm 1.0 \; ((0.0 \pm 0.04)$	_	_
C-C	J	Clearance	$3.6 \pm 1.0 \ (0.9 \pm 0.04)$	1.0 (0.04)	_
D-D	M	Clearance	2.3 ± 1.0 (0.09 ± 0.04)	1.0 (0.4)	_
ט–ט	N	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$	_	_

- Remove the inner fender bolt cover.
- 2. Remove the front fender protector. Refer to EXT-20, "Removal and Installation".
- 3. Remove the center mudguard. Refer to EXT-21, "Removal and Installation".
- 4. Loosen the front fender bolts and screws.
- 5. Adjust the clearance (J) and surface height (K) between the front fender and the front door.
- 6. Tighten the rear upper and lower front fender bolts.
- 7. Adjust the clearance (E) and surface height (F) between the front fender and the hood.
- 8. Adjust the clearance (M) and surface height (N) between the front fender and the body side outer.
- Tighten the inner front fender bolts.
- 10. Adjust the clearance (G) and the surface height (H) between the front fender and the front fascia.
- 11. Tighten the front fender to front fascia and bracket screws.
- 12. Apply touch-up paint (the body color) onto the head of the front fender bolts.
- 13. Install the center mudguard. Refer to EXT-21, "Removal and Installation".
- 14. Install the front fender protector. Refer to EXT-20, "Removal and Installation".
- 15. Install the inner fender bolt cover.

< ON-VEHICLE REPAIR > [COUPE]

DOOR

FRONT DOOR

FRONT DOOR: Removal and Installation

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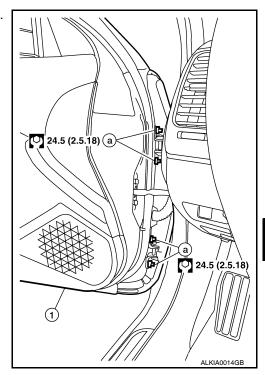
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CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- When removing and installing front door assembly, be sure to carry out the fitting adjustment. Refer to <u>DLK-216</u>, "<u>FRONT DOOR</u>: <u>Adjustment</u>".
- After installing, apply touch-up paint (the body color) onto the head of the hinge nuts.
- Check the hinge rotating parts for lubrication. If necessary, apply "body grease".
- · Operate with two workers, because of its heavy weight.
- Check front door open/close operation after installation.

REMOVAL

- 1. Pull the grommet and wire harness out of the front pillar until the harness connectors are accessible. Then disconnect the wire harness connectors.
- 2. Remove the check link bolt from the front pillar.
- 3. Remove the door-side hinge nuts (a) and the door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Adjust the door. Refer to DLK-216, "FRONT DOOR: Adjustment".

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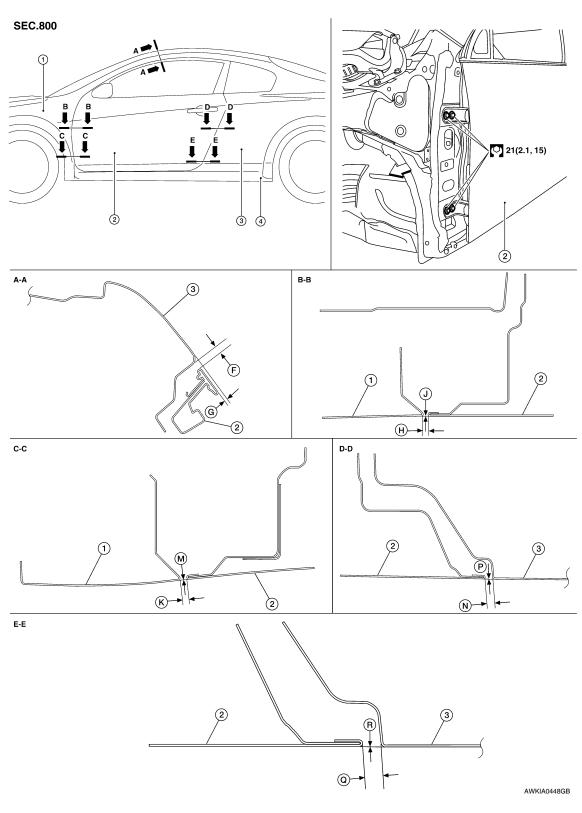
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Revision: February 2010 DLK-215 2009 Altima

FRONT DOOR : Adjustment

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- 1. Front fender
- 4. Center mudguard
- 2. Front door assembly
- ← Front

Body side outer

[COUPE]

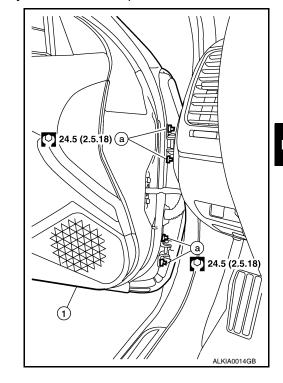
			Unit: mm (in
Section	Item	Measurement	Standard
A-A	F	Clearance	$6.1 \pm 1.5 \ (0.24 \pm 0.06)$
A-A	G	Surface height	2.9 ± 1.5 (0.11 ± 0.06)
В-В	Н	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
B-B	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C-C	K	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
C-C	M	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$
D-D	N	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
D-0	Р	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
E-E	Q	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
E-E	R	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$

LONGITUDINAL CLEARANCE

- 1. Remove the front fender. Refer to <u>DLK-212</u>, "Removal and Installation".
- 2. Loosen the hinge bolts. Raise or lower the front door at rear edge until it is within specifications.
- 3. Tighten the hinge bolts to specification.
- 4. Install the front fender. Refer to DLK-212, "Removal and Installation".

SURFACE HEIGHT ADJUSTMENT

- 1. Loosen the front door hinge nuts.
- 2. Move the top and or bottom of the door (1) in or out as necessary until it is within specifications.
- 3. Tighten the hinge nuts (a) to specifications.



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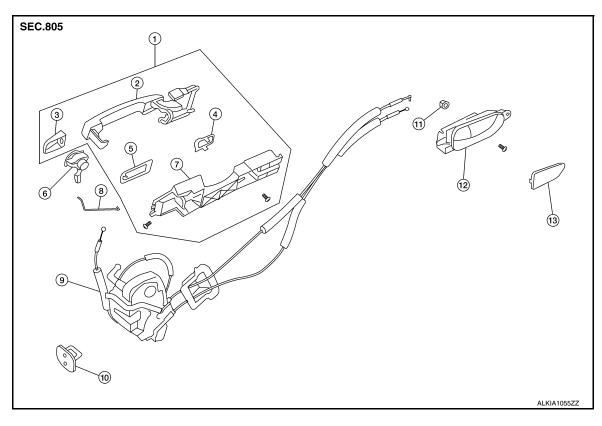
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DOOR LOCK FRONT DOOR LOCK

FRONT DOOR LOCK: Component Parts Location

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- Outside handle assembly
- Outside handle grip
- Door key cylinder escutcheon (Driver side) Outside handle escutcheon (Passenger side)

Front gasket

- Rear gasket

Key cylinder assembly (Driver side only)

- Outside handle bracket

Key cylinder rod (Driver side only)

Door lock assembly 12. Inside door handle assembly

- 10. Front door striker
- 11. Grommet

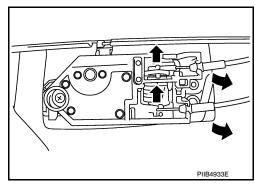
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FRONT DOOR LOCK: Removal and Installation

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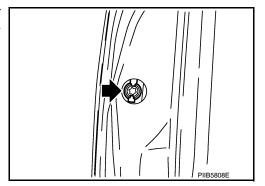
REMOVAL

- 1. Remove the front door finisher. Refer to INT-12, "Removal and Installation".
- Disconnect the inside handle knob cable and lock knob cable from the back side of the front door finisher.

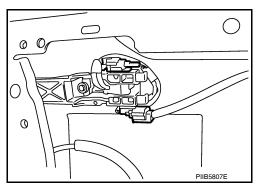


3. Remove the front door window and front door module assembly. Refer to <u>GW-17</u>, "<u>Removal and Installation</u>".

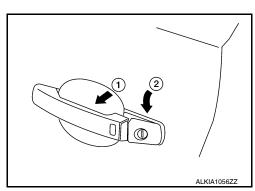
4. Remove door side grommet, and remove door key cylinder assembly (driver side) and outside handle escutcheon (passenger side) bolts (TORX T30) from grommet hole.



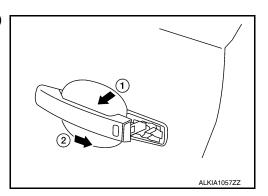
5. Disconnect door antenna and door request switch connector and remove harness clamp.



- 6. Disconnect the key cylinder rod.
- 7. Disconnect door key cylinder switch harness connector.
- While pulling the outside handle (1), remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side) (2).



- 9. Disconnect front door request switch harness connector.
- 10. While pulling outside handle (1), slide toward rear of vehicle (2) to remove outside handle.



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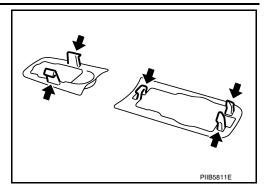
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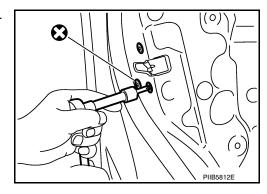
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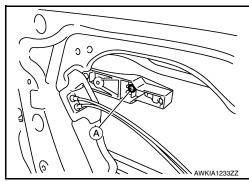
11. Remove the front gasket and rear gasket.



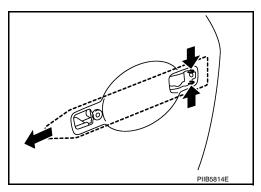
12. Remove the TORX bolts (T30), remove the door lock assembly.



13. Remove the TORX bolt (T30) (A) from the outside handle bracket.



14. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.

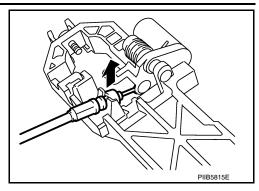


15. Disconnect the door lock actuator connector and remove the door lock assembly.

DOOR LOCK

< ON-VEHICLE REPAIR > [COUPE]

16. Disconnect the outside handle cable from the outside handle bracket connection.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When installing the key cylinder rod be sure to rotate the key cylinder rod holder until a click is felt.

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TRUNK LID

< ON-VEHICLE REPAIR > [COUPE]

TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY: Removal and Installation

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REMOVAL

- 1. Remove the trunk lid lock. Refer to DLK-224, "TRUNK LID LOCK: Removal and Installation".
- 2. Disconnect the harness clips and pull the harness out of the trunk lid.
- 3. Remove the bolts and the trunk lid assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installing, apply touch-up paint (the body color) onto the head of the hinge bolts.
- After installing, check operation.
- After installing, perform fitting adjustment. Refer to DLK-223, "TRUNK LID ASSEMBLY: Adjustment".

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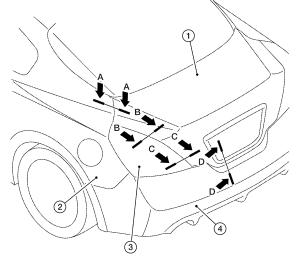
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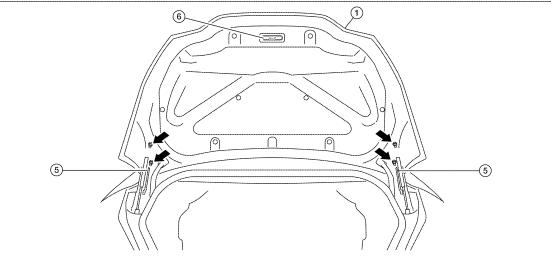
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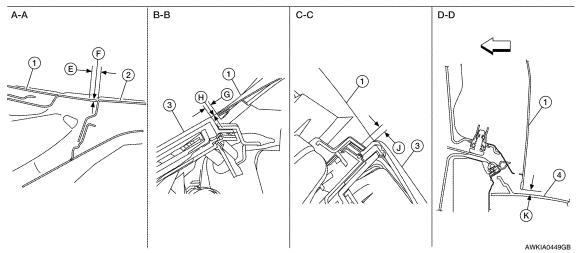
TRUNK LID ASSEMBLY : Adjustment

INFOID:0000000004204745









- Trunk lid assembly
- Rear bumper fascia
- ← Front

- 2. Body side outer
- Trunk lid hinge assembly
- Rear combination lamp 3.

Trunk lid latch assembly

[COUPE]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Right/Left Difference
Α Α	E	Clearance	4.0 ± 1.6 (0.16 ± 0.06)	1.5 (0.06) MAX	2.0 (0.08) MAX
A – A	F	Surface height	-0.5 ± 1.5 (-0.02 ± 0.06)	1.5 (0.06) MAX	2.0 (0.08) MAX
B – B	G	Clearance	4.0 ± 1.5 (0.16 ± 0.06)	1.5 (0.06) MAX	2.0 (0.08) MAX
B = B	Н	Surface height	-0.5 ± 1.5 (-0.02 ± 0.06)	1.5 (0.06) MAX	2.0 (0.08) MAX
C – C	J	Clearance	4.0 ± 2.0 (0.16 ± 0.08)	1.5 (0.06) MAX	2.0 (0.08) MAX
D – D	K	Clearance	7.5 \pm 2.3 (0.30 \pm 0.09)	2.3 (0.09) MAX	_

LONGITUDINAL CLEARANCE

- Check the clearance and the evenness between the trunk lid and each part by visual and tactile feeling.
- Loosen the trunk lid to hinge bolts.
- 3. Move the trunk lid so that the clearance measurements are within specifications.
- 4. Tighten the trunk lid to hinge bolts.

SURFACE HEIGHT ADJUSTMENT

- 1. Loosen the striker bolts.
- Lift up the trunk lid approx. 100 150 mm (3.94 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
- 3. Finally tighten the trunk lid striker.

TRUNK LID LOCK

TRUNK LID LOCK: Removal and Installation

INFOID:0000000004204746

LOCK

Removal

- Remove the trunk lid inner trim panel (if equipped). Refer to INT-22, "Removal and Installation".
- Remove the bolts, disconnect the electrical connector, separate the emergency release handle, and remove the trunk lid lock.

Installation

Installation is in the reverse order of removal.

Striker

Removal

- Remove the trunk end finisher. Refer to <u>INT-22</u>, "Removal and Installation".
- 2. Remove the bolts and the striker.

Installation

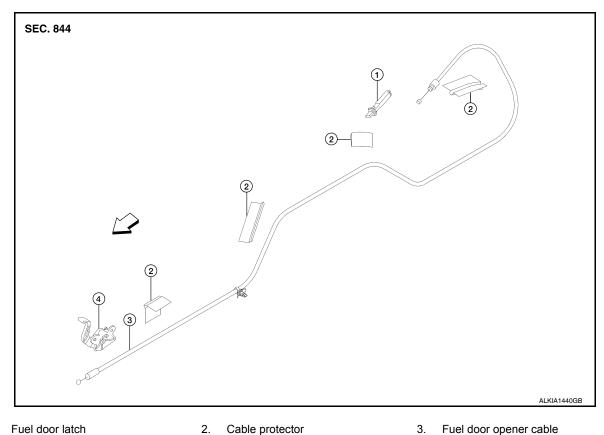
Installation is in the reverse order of removal.

NOTE:

Align the trunk lid lock. Refer to DLK-223, "TRUNK LID ASSEMBLY: Adjustment".

FUEL FILLER LID

Exploded View INFOID:0000000004458430



Fuel door latch

- <□ Front

Fuel door opener cable

Removal and Installation

Fuel door opener handle

INFOID:0000000004458431

REMOVAL

Remove the front LH kicking plate. Refer to INT-14, "Exploded View".

2. Remove the rear seat. Refer to SE-29, "Removal and Installation".

- 3. Remove the LH front seat belt anchor. Refer to SB-7, "Exploded View".
- 4. Remove the LH rear lower finisher. Refer to INT-14, "Exploded View".
- 5. Position the carpet aside.
- 6. Remove the LH trunk side finisher. Refer to INT-21, "Exploded View".
- 7. Remove the fuel door opener handle and disconnect the fuel door opener cable.
- 8. Remove the fuel door latch and disconnect the fuel door opener cable.
- 9. Remove the fuel door opener cable.

INSTALLATION

Installation is in the reverse order of removal.

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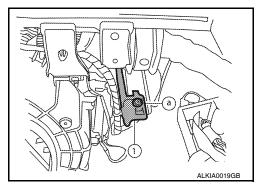
< ON-VEHICLE REPAIR > [COUPE]

REMOTE KEYLESS ENTRY RECEIVER

Removal INFOID:000000004204747

REMOVAL

- 1. Remove glove compartment. Refer to IP-12, "Removal and Installation".
- 2. Remove the screw (a), lower the bracket and remote keyless entry receiver (1), then disconnect the harness and remove the reciever.



Installation INFOID:000000004204748

Installation is in the reverse order of removal.

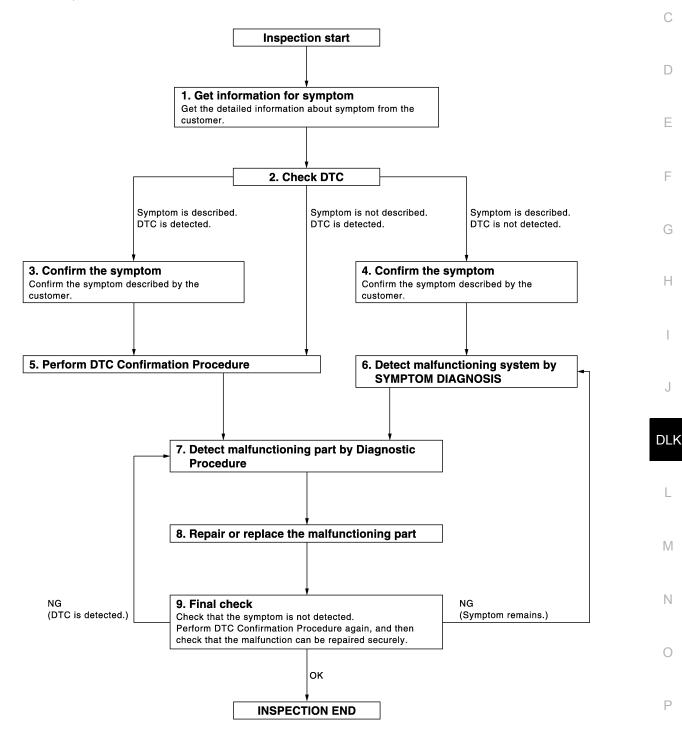
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[SEDAN WITH INTELLIGENT KEY]

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2.CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3

Symptom is described, DTC is not displayed>>GO TO 4

Symptom is not described, DTC is displayed>>GO TO 5

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.

At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>DLK-402</u>, "<u>DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This
 simplified check procedure is an effective alternative though DTC cannot be detected during this check.
 If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

Yes >> GO TO 7

No >> Refer to GI-42, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to SYMPTOM TABLE based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[SEDAN WITH INTELLIGENT KEY]

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 8

NO >> Check voltage of related BCM terminals using CONSULT-III.

8.repair or replace the malfunctioning part

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replace-2. ment.
- 3. Check DTC. If DTC is displayed, erase it.

>> GO TO 9

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is the inspection result normal?

NO (DTC is detected)>>GO TO 7 NO (Symptom remains)>>GO TO 6

YES >> Inspection End.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[SEDAN WITH INTELLIGENT KEY]

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000004204750

Perform the system initialization when replacing BCM, replacing Intelligent Key or registering an additional Intelligent Key.

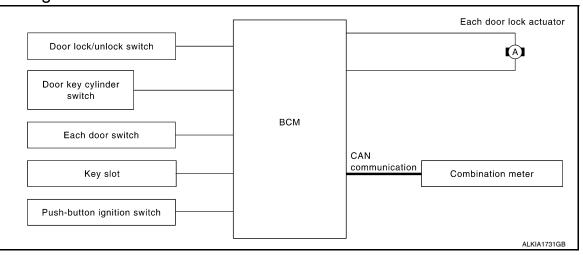
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

Refer to the CONSULT-III Operation Manual for the initialization procedure.

FUNCTION DIAGNOSIS

AUTOMATIC DOOR LOCKS

System Diagram



System Description

INFOID:0000000004466873

INFOID:0000000004466872

Input	Single	Function	Actuator			
Door lock/unlock switch	Deer leek/unleek eignel	Door lock function				
Door key cylinder switch	Door lock/unlock signal	DOOF TOCK TURCUOTI				
Each door switch	Door open/close signal					
Key slot	Key insert/remove signal	Key reminder function	Each door lock actuator			
	Warning buzzer signal					
Combination meter	Vehicle speed signal	Automatic door lock/unlock function				

DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is build into power window main switch.
- The door lock and unlock switch (passenger side) is on door trim.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to "LOCK", will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to "UNLOCK" once unlocks the driver side door lock actuator; turning it to "UNLOCK" again within 60 seconds after the first unlock operation unlocks all of the other doors. - (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using "DOOR LOCK-UNLOCK SET" mode in "WORK SUP-PORT". Refer to DLK-272, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

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AUTOMATIC DOOR LOCKS

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

If a door is opened and closed at any time during one ignition cycle (OFF \rightarrow ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

(P)With CONSULT-III

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to <u>DLK-272</u>. "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Without CONSULT- III

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Push the ignition switch to the ON position
- Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
- 4. The switching is completed when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

The ignition switch must be turned OFF and ON again between each setting change.

AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

IGN OFF Interlock Door Unlock*1

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

(P)With CONSULT- III

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to DLK-272, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Without CONSULT- III

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Push the ignition switch to the ON position
- Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
- 4. The switching is completed when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

- The ignition switch must be turned OFF and ON again between each setting change.
- *1: This function is set to ON before delivery.

Component Parts Location

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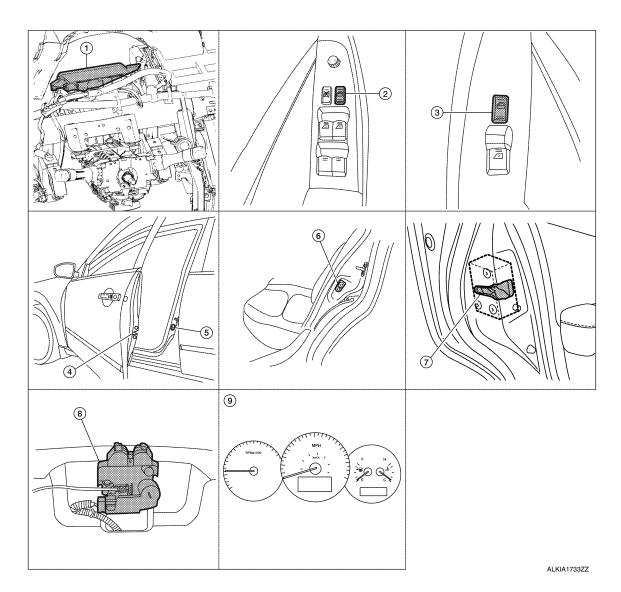
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- BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- Front door lock assembly LH (key cylinder switch) D10
 Front door lock actuator RH D108
- Rear door lock actuator LH D205 RH D305

- Main power window and door lock/un- 3. lock switch D7, D8
- 5. Front door switch LH B8 RH B108
- 3. Trunk lamp switch and trunk release solenoid B28
- Power window and door lock/unlock switch RH D105
- 6. Rear door switch LH B18 RH B116
- . Combination meter M24

Component Description

INFOID:0000000004466875

Item	Function
BCM	Controls the door lock function and fuel lid door lock actuator function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Door key cylinder switch	 Input lock or unlock signal to power window main switch. Power window main switch transmits door lock/unlock signal to BCM.

AUTOMATIC DOOR LOCKS

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Item	Function
Key slot	Input key insert/remove signal to BCM.
Combination meter	 Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to CAN communication line.
Push-button ignition switch	Input push-button ignition switch ON/OFF condition to BCM.

DOOR LOCK FUNCTION DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH: System Diagram

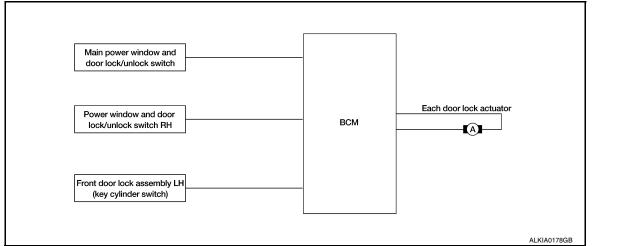
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DOOR LOCK AND UNLOCK SWITCH: System Description

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Switch	Input/output signal to BCM	BCM function	Actuator		
Main power window and door lock/unlock switch					
Power window and door lock/ unlock switch	Door lock/unlock signal	Door lock/unlock control	Door lock actuator	I	
Door key cylinder switch					

DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door

- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all door lock actuators are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all door lock actuators are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door

· Interlocked with the locking operation of door key cylinder, door lock actuators of all door lock actuators are locked.

Selective Unlock Operation

- When door key cylinder is unlocked, door lock actuator driver side is unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using DOOR LOCK-UNLOCK SET mode in "WORK SUP-PORT". Refer to DLK-272, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Key Reminder System

Refer to DLK-267, "System Description".

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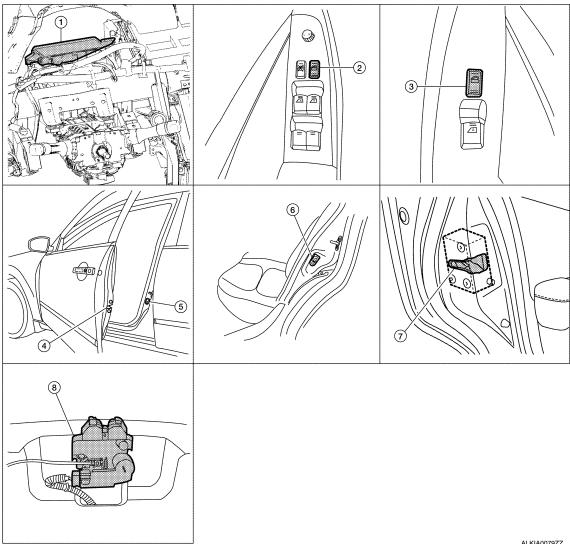
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DOOR LOCK AND UNLOCK SWITCH: Component Parts Location

INFOID:0000000004204754



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- BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- Front door lock assembly LH (key cylinder switch) D10 Front door lock actuator RH D108
- Rear door lock actuator LH D205 **RH D305**

- Main power window and door lock/un- 3. lock switch D7, D8
- Front door switch LH B8 **RH B108**
- Trunk lamp switch and trunk release solenoid B28
- Power window and door lock/unlock switch RH D105
- Rear door switch LH B18 **RH B116**

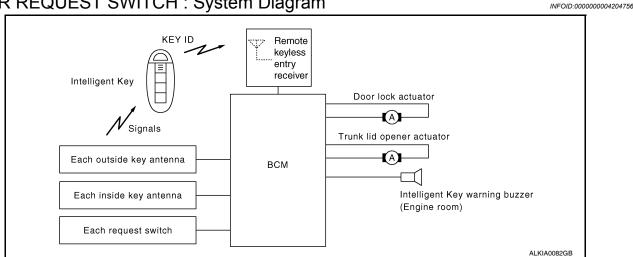
DOOR LOCK AND UNLOCK SWITCH: Component Description

INFOID:0000000004204755

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Transmits lock or unlock signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Transmits door open/close condition to BCM.

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH: System Diagram



DOOR REQUEST SWITCH: System Description

Only when pressing the request switch, it is possible to lock and unlock the door by carrying the Intelligent Kev.

 The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/ unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (BCM). **CAUTION:**

The driver should always carry the Intelligent Key

- · If an action that does not meet the operating conditions of the Intelligent Key system is taken, the buzzer goes off to inform the driver (Warning chime function).
- When a door lock is locked, unlocked or trunk open with request switch or remote controller button operation, the hazard lamps flash and the Intelligent Key warning buzzer or horn sounds (Hazard and buzzer/horn reminder function).
- The settings for each function can be changed with the CONSULT-III.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be
- It is possible to perform a diagnosis on the system and register an Intelligent Key with the CONSULT-III.

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK

- When the BCM detects that each door request switch is pressed, it starts the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM sends the door lock/unlock signal and sounds Intelligent Key buzzer warning (lock: 2 time, unlock: 1 times) at the same time as a reminder.

OPERATION CONDITION

If the following conditions are not satisfied, door lock/unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition		
Lock operation	 All doors are closed Ignition switch is in OFF position Intelligent Key is out of key slot Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area 		
Unlock Operation	Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area *		

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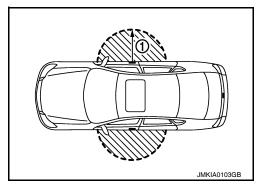
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[SEDAN WITH INTELLIGENT KEY]

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver and passenger door handles (1).



SELECTIVE UNLOCK FUNCTION

When an LOCK signal is sent from door request switch (driver side or passenger side), all doors will be locked. When an UNLOCK signal is sent from door request switch (driver side or passenger side) once, driver's door will be unlocked.

Then, if an UNLOCK signal is sent from door request switch (driver side and passenger side) again within 5 seconds, all other door will be unlocked.

HAZARD AND BUZZER REMINDER FUNCTION

During lock, unlock, or trunk opening operation by each request switch, the hazard warning lamps and Intelligent Key warning buzzer will blink or honk as a reminder.

When doors are locked, unlocked by each request switch, IPDM E/R honks Intelligent Key warning buzzer as a reminder and transmits hazard request signal to BCM via CAN communication line.

BCM flashes hazard warning lamps as a reminder.

Operating function of hazard warning lamps and buzzer reminder

Operation	Hazard warning lamps flash	Intelligent Key warning buzzer honk
Unlock	Once	Once
Lock	Twice	Twice
Trunk open	_	Four times

How to change hazard and buzzer reminder mode

Refer to DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is in OFF position and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with door request switch

When BCM does not receive the following signals within 60 seconds, all doors are locked.

- Door switch is ON (door is opened)
- · Door is locked
- Ignition switch is ON (ignition switch is pressed)
- Key switch is ON (Intelligent Key is inserted in key slot)

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)"</u>.

ROOM LAMP OPERATION

When the following conditions are met:

- Condition of interior lamp switch is in DOOR position
- Door switch OFF (all the doors are closed)

Intelligent Key system turns on interior lamp (for up to 30 seconds maximum) by receiving UNLOCK signal from door request switch. For detailed description, refer to DLK-235, "DOOR LOCK AND UNLOCK SWITCH: System Description".

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Door lock function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Door request switch (Driver, Passenger)	Door lock actuator	Inside key antenna	Outside key antenna (Driver, Passenger)	Intelligent Key warning buzzer	CAN communication system	ВСМ	Hazard waming lamp	Push-button ignition switch
Door lock/unlock function by request switch	×	×	×	×	×	×	×	×		×	×		
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×	
Key reminder function	×	×	×	×	×	×	×	×	×	×	×	×	
Selective unlock function by request switch (Driver side)	×				×	×	×	×		×	×		
Selective unlock function by request switch (Passenger side)	×				×	×	×	×		×	×		
Auto door lock function	×	×		×	×	×				×	×		×

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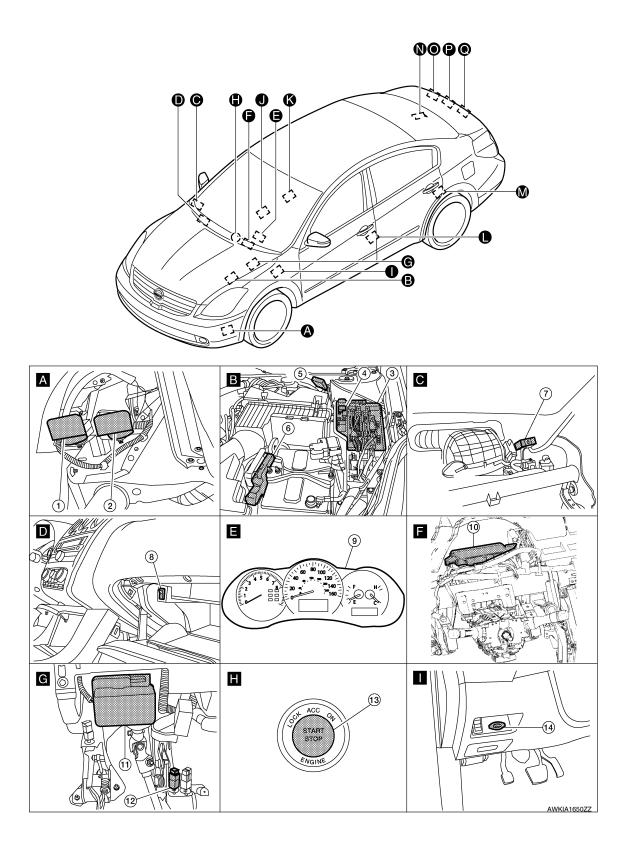
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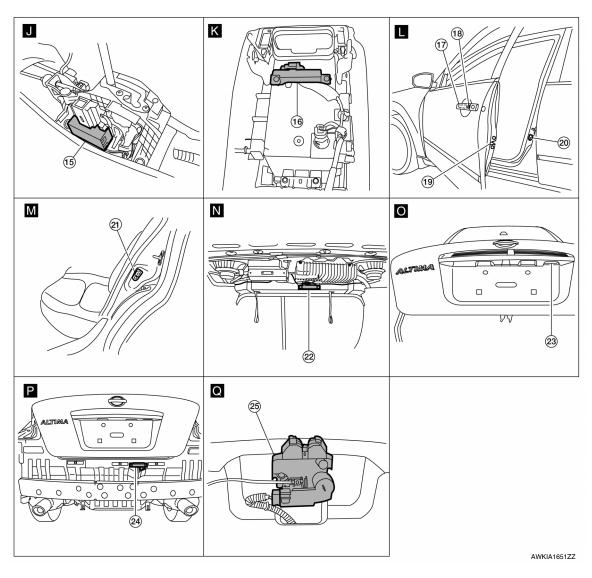
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DOOR REQUEST SWITCH : Component Parts Location

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- Horn (low) E215
 (view with front fender protector LH removed)
- 4. Horn relay H-1
- Remote keyless entry receiver M27 (view with instrument panel removed)
- 10. BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- 13. Push button ignition switch M38
- Front console antenna M203

 (view with center console assembly removed)
- Front door lock assembly LH D10
 Front door lock actuator RH D108
- 22. Rear parcel shelf antenna B29
- Trunk lamp switch and trunk release solenoid B28

- . Horn (high) E216
- 5. Intelligent Key warning buzzer E73
- 8. Trunk lid opener cancel switch M74
- Electronic steering column lock M32 (view with instrument panel LH removed)
- 14. Key slot M40
- Front outside handle LH (outside key antenna) D6
 Front outside handle RH (outside key antenna) D106
- 20. Front door switch LH B8 RH B108
- 23. Trunk opener request switch B33

- 3. IPDM E/R E17, E18
- 6. ECM
- 9. Combination meter M24
- 12. Stop lamp switch E38
- 15. CVT shift selector (detent switch)
- Front outside handle LH (request switch) D6
 Front outside handle RH (request switch) D106
- 21. Rear door switch LH B18 RH B116
- 24. Rear bumper antenna B46

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DOOR REQUEST SWITCH: Component Description

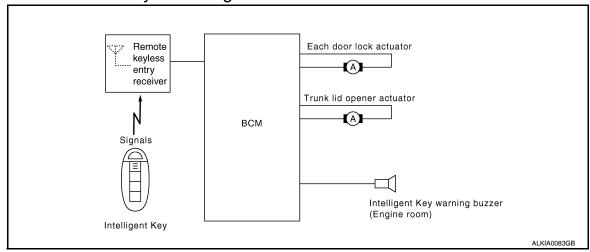
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Item	Function
BCM Controls the door lock function and room lamp function.	
Door lock and unlock switch	Transmits lock or unlock signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Transmits door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Transmits lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTELLIGENT KEY

INTELLIGENT KEY: System Diagram

INFOID:0000000004204760



INTELLIGENT KEY: System Description

INFOID:0000000004204761

The Intelligent Key has the same functions as the remote control entry system. Therefore, it can be used in the same manner as the remote controller by operating the door lock/unlock button.

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- When BCM receives the door lock/unlock signal, it operates door lock actuator, flashes the hazard lamp (lock: 2 time, unlock: 1 times) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 time) as a reminder

OPERATION CONDITION

Remote controller operation	Operation condition	Operation
Lock	All doors closed	All doors lock
Unlock	Intelligent Key is out of key slot	All doors unlock

OPERATION AREA

· Operating Range

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

• To ensure the Intelligent Key works effectively, use within 80 cm range of each doors, however the operable range may differ according to surroundings. The remote control operation range is greater than that of the Intelligent Key. Refer to Owner's Manual for more details.

SELECTIVE UNLOCK FUNCTION

When a LOCK signal is transmitted from Intelligent Key, all doors will be locked.

When an UNLOCK signal is transmitted from Intelligent Key once, driver's door will be unlocked.

Then, if an UNLOCK signal is transmitted from Intelligent Key again within 5 seconds, all other doors will be unlocked.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM flashes hazard warning lamps as a reminder and sends horn chirp signal to IPDM E/R. IPDM E/R sounds horn as a reminder.

The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating function of hazard and horn reminder

		C mode		S mode					
Intelligent Key operation	Lock	Unlock	Trunk open	Lock	Unlock	Trunk open			
Hazard warning lamp flash	Twice	Once	_	Twice	_	_			
Horns sound	Once	_	_	_	_	_			

Hazard and horn reminder does not operate if any door switch is ON (any door is OPEN).

How to change hazard and horn reminder mode

(III) With CONSULT-III

Refer to DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

Without CONSULT-III

Refer to Owner's Manual for instructions.

AUTO DOOR LOCK FUNCTION

Auto Door Lock Function

When all doors are locked, ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with Intelligent Key button. When BCM does not receive the following signals within 60 seconds, all doors are locked.

- Door switch is ON (door is opened)
- · Door is locked
- Ignition switch is ON
- Key switch is ON (Intelligent Key is inserted in key slot)

Auto door lock mode can be changed by DOOR LOCK-UNLOCK SET mode in "WORK SUPPORT". Refer to DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

PANIC ALARM FUNCTION

When ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), BCM receives PANIC ALARM signal from Intelligent Key.

BCM turns on and off headlamp intermittently and transmits theft warning horn signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.

The headlamp flashes and the horn sounds intermittently.

The alarm automatically turns off:

- After 25 seconds
- · When BCM receives any signal from Intelligent Kev

Panic alarm function mode can be changed by PANIC ALARM SET mode in "WORK SUPPORT". Refer to DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

Front power windows (with left and right front power window anti-pinch system) open when the unlock button on Intelligent Key is activated and kept pressed for more than 3 seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

The power window opening stops when the following operations are performed:

- When the unlock button is kept pressed more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

While retained power operation activate, Keyless power window down (open) function cannot be operated.

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Keyless power window down operation mode can be changed by PW DOWN SET mode in "WORK SUP-PORT". Refer to DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

ROOM LAMP ILLUMINATION OPERATION

When the following conditions are met:

- Condition of interior lamp switch is in DOOR position
- Door switch OFF (all the doors are closed)

Intelligent Key system turns on interior lamp (for 15 seconds) by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to
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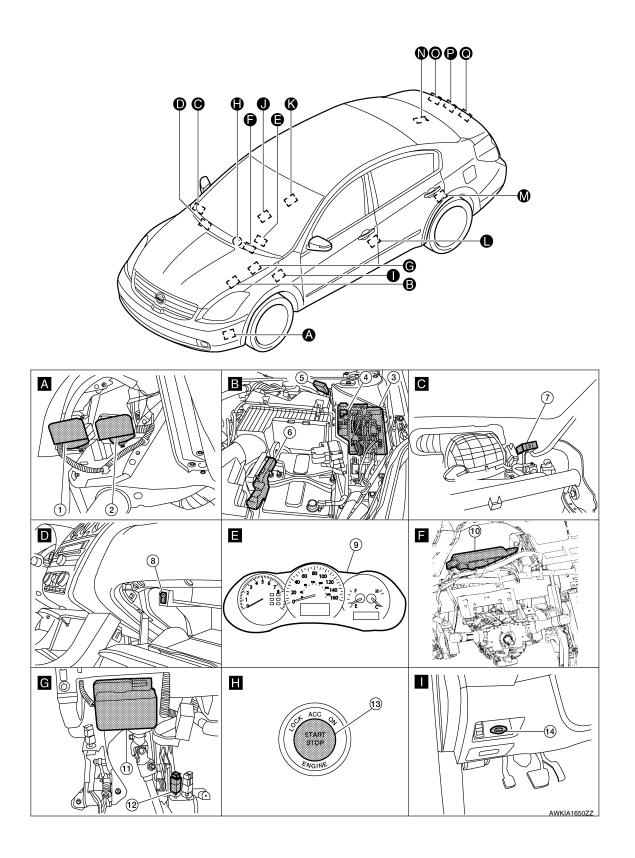
LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

Remote keyless entry functions	Intelligent Key	Key slot	Door request switch (Driver, Passenger)	Door switch	Door lock actuator	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	Horn	IPDM E/R	Head lamp
Door lock/unlock function by remote control button	×	×		×	×		×	×					
Hazard and horn reminder function	×					×	×	×	×	×	×	×	
Selective unlock function	×			×	×		×	×					
Keyless power window down (open) function	×	×					×	×					
Auto door lock function	×	×		×			×	×					
Panic alarm function	×	×	×				×	×	×		×	×	×

INTELLIGENT KEY: Component Parts Location

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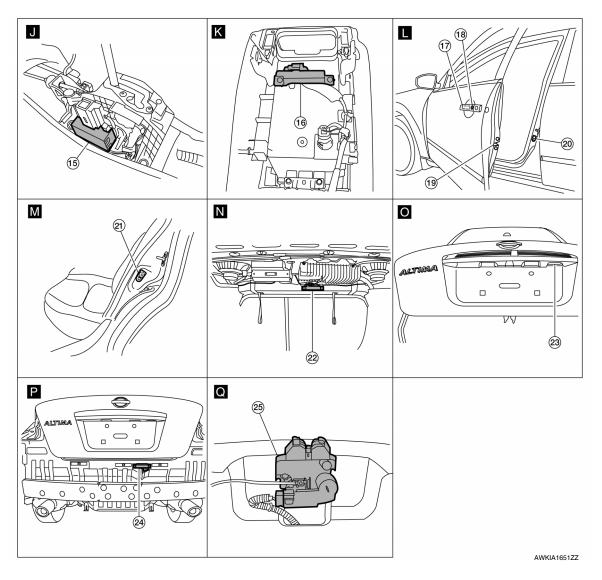
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- Horn (low) E215
 (view with front fender protector LH removed)
- 4. Horn relay H-1
- Remote keyless entry receiver M27 (view with instrument panel removed)
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- 13. Push button ignition switch M38
- Front console antenna M203
 (view with center console assembly removed)
- Front door lock assembly LH D10 Front door lock actuator RH D108
- 22. Rear parcel shelf antenna B29
- 25. Trunk lamp switch and trunk release solenoid B28

- Horn (high) E216
- 5. Intelligent Key warning buzzer E73
- 8. Trunk lid opener cancel switch M74
- Electronic steering column lock M32 (view with instrument panel LH removed)
- 14. Key slot M40
- Front outside handle LH (outside key antenna) D6
 Front outside handle RH (outside key antenna) D106
- 20. Front door switch LH B8 RH B108
- 23. Trunk opener request switch B33

- 3. IPDM E/R E17, E18
- 6. ECM
- Combination meter M24
- 12. Stop lamp switch E38
- 15. CVT shift selector (detent switch)
- Front outside handle LH (request switch) D6
 Front outside handle RH (request switch) D106
- 21. Rear door switch LH B18 RH B116
- 24. Rear bumper antenna B46

INTELLIGENT KEY: Component Description

INFOID:0000000004204763

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Intelligent key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

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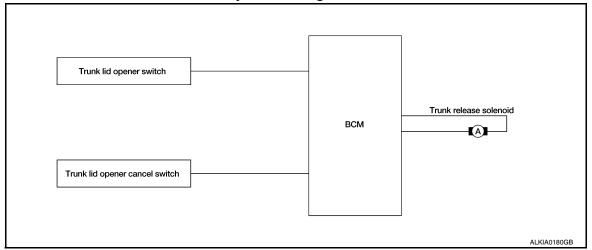
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TRUNK OPEN FUNCTION TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH: System Diagram

INFOID:0000000004204764



TRUNK LID OPENER SWITCH: System Description

INFOID:0000000004204765

Switch	Input/output signal to BCM	BCM function	Actuator				
Trunk lid opener switch	Trunk onen signal	Trunk open control	Trunk lid opener actuator				
Trunk lid opener cancel switch	id opener cancel switch		Trank lid opener actuator				

TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM opens trunk opener actuator.

BCM can open trunk lid opener actuator when

- vehicle speed is less than 5 km/h (3MPH)
- · vehicle security system is disarmed or pre-armed phase

BCM does not open trunk lid opener actuator when

- trunk lid opener cancel switch is OFF (CANCEL)
- vehicle speed is more than 5 km/h (3MPH)
- · vehicle security system is armed or alarm phase
- · Within 3 seconds of removing the Intelligent Key from the key slot

TRUNK LID OPENER SWITCH: Component Parts Location

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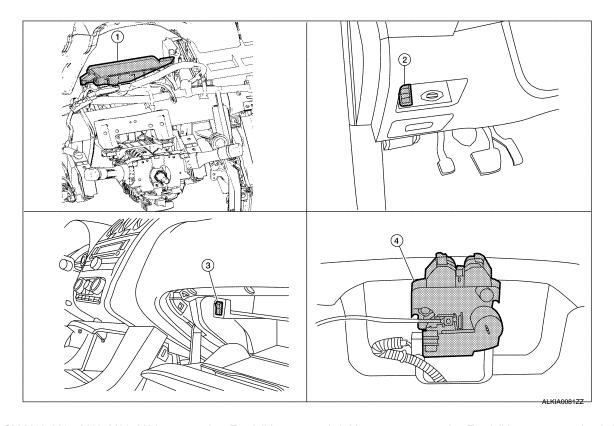
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- 1. BCM M16, M17, M18, M20, M21
 - Trunk lamp switch and trunk release solenoid B28
- 2. Trunk lid opener switch M75
- 3. Trunk lid opener cancel switch M74

TRUNK LID OPENER SWITCH: Component Description

INFOID:0000000004204767

Item	Function
BCM	Transmits trunk open operation to BCM.
Trunk lid opener switch	Transmits trunk open operation to BCM.
Trunk release solenoid	Opens the trunk with the open signal from BCM
Trunk lid opener cancel switch	Cancels the trunk open operation.

TRUNK REQUEST SWITCH

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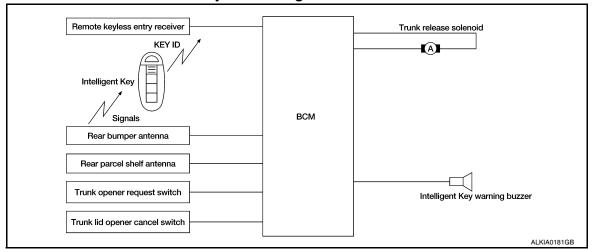
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TRUNK REQUEST SWITCH: System Diagram

INFOID:0000000004204768



TRUNK REQUEST SWITCH: System Description

INFOID:0000000004204769

Only when pressing the request switch, it is possible to open the trunk by carrying the Intelligent Key.

The Intelligent Key system is a system that makes it possible to open the trunk (trunk open function) by carrying the Intelligent Key which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (BCM).

CAUTION:

The driver should always carry the Intelligent Key

- If an action that does not meet the operating conditions of the Intelligent Key system is taken, the buzzer goes off to inform the driver (warning chime functions).
- When trunk is opened with request switch or remote controller button operation, the hazard lamps flash and the Intelligent Key warning buzzer or horns sound (hazard and buzzer/horn reminder function).
- The settings for each function can be changed with the CONSULT-III.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with the CONSULT-III.

OPERATION DESCRIPTION/TRUNK OPEN

- When the BCM detects that trunk open request switch is pressed, it starts the outside key antenna (trunk room) and inside key antenna corresponding to the pressed trunk open request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the trunk.
- If the Intelligent Key is within the outside key antenna (trunk room) detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits the trunk open request signal and sounds Intelligent Key warning buzzer 4 consecutive times.
- When BCM receives the trunk open request signal, it operates the trunk release solenoid and opens the trunk.

OPERATION CONDITION

If the following conditions are not satisfied, trunk open operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition
Trunk open operation	 Intelligent Key is within outside key antenna (trunk room) detection area* Trunk cancel switch is ON Key reminder functions operate (trunk)

^{*:} Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

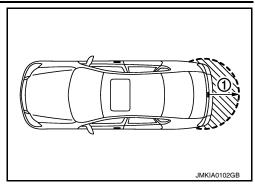
OUTSIDE KEY ANTENNA DETECTION AREA

TRUNK OPEN FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

The outside key antenna detection area of trunk open function is in the range of approximately 80 cm (31.50 in) surrounding trunk opener request switch (1). However, this operating range depends on the ambient conditions.



KEY REMINDER FUNCTION

Key reminder function	Operation condition	Operation
Trunk is closed	Right after trunk is closed under the following conditions Intelligent Key is inside trunk room All doors are closed All doors are locked	Trunk open Sound Intelligent Key warning buzzer

^{*:}If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob, it might activate the door locks accidentally but unlock operation will be perform at these cases.

CAUTION:

- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.
- The key reminder function is operated when the trunk is opened/closed and the buzzers sound. If the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped.
- Remote controller door lock button operation of Intelligent Key
- Remote controller door unlock button operation of Intelligent Key
- When the trunk is closed, the Intelligent Key is not inside the vehicle
- When any door is open

HAZARD AND BUZZER REMINDER FUNCTION

During trunk opening operation by request switch, the hazard warning lamps and Intelligent Key warning buzzer will flash or sound as a reminder.

When trunk open by each request switch, IPDM E/R sounds Intelligent Key warning buzzer as a reminder and transmits hazard request signal to BCM via CAN communication line.

BCM flashes hazard warning lamps as a reminder.

Operating function of hazard and buzzer reminder

Operation	Hazard warning lamp flash	Intelligent Key warning buzzer sounds
Trunk open	_	Four times

How to change hazard and buzzer reminder mode

(III) With CONSULT-III

Refer to DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

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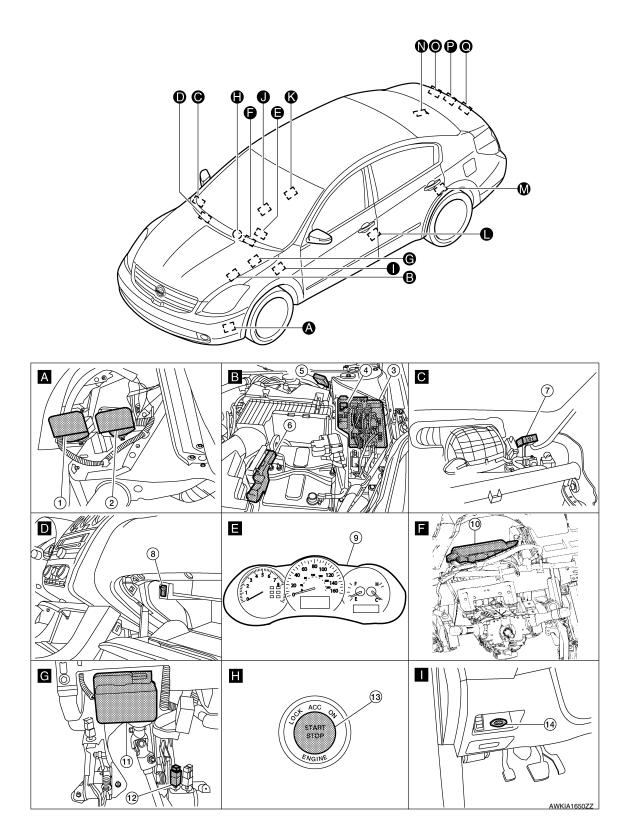
TRUNK OPEN FUNCTION

[SEDAN WITH INTELLIGENT KEY]

Trunk open function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Trunk room lamp switch	Trunk opener request switch	Trunk release solenoid	Inside key antenna	Outside key antenna (Trunk)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamps	Trunk lid opener cancel switch
Trunk open function by the trunk opener request switch	×		×		×	×	×	×	×		×	×		×
Hazard and buzzer reminder function for door lock/unlock operation										×	×	×	×	
Buzzer reminder for trunk open operation										×	×	×		
Key reminder function	×	×	×	×				×	×	×	×	×	×	

TRUNK REQUEST SWITCH: Component Parts Location

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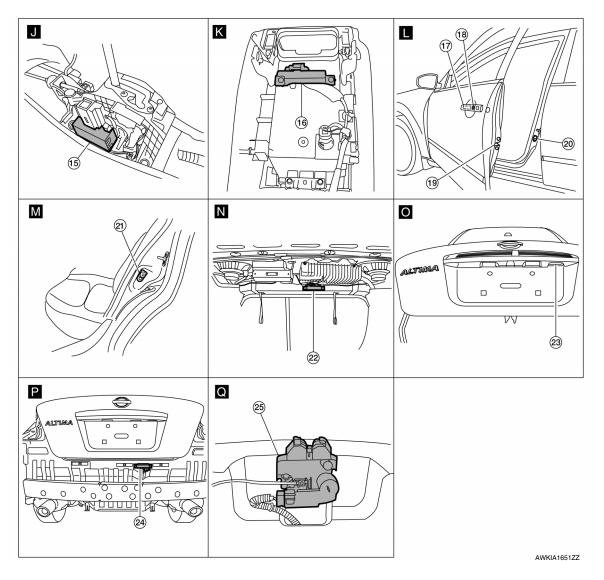
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- Horn (low) E215
 (view with front fender protector LH removed)
- 4. Horn relay H-1
- Remote keyless entry receiver M27 (view with instrument panel removed)
- 10. BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- 13. Push button ignition switch M38
- Front console antenna M203
 (view with center console assembly removed)
- Front door lock assembly LH D10 Front door lock actuator RH D108
- 22. Rear parcel shelf antenna B29
- 25. Trunk lamp switch and trunk release solenoid B28

- 2. Horn (high) E216
- 5. Intelligent Key warning buzzer E73
- 8. Trunk lid opener cancel switch M74
- Electronic steering column lock M32 (view with instrument panel LH removed)
- 14. Key slot M40
- Front outside handle LH (outside key antenna) D6
 Front outside handle RH (outside key antenna) D106
- 20. Front door switch LH B8 RH B108
- 23. Trunk opener request switch B33

- 3. IPDM E/R E17, E18
- 6. ECM
- 9. Combination meter M24
- Stop lamp switch E38
- 15. CVT shift selector (detent switch)
- Front outside handle LH (request switch) D6
 Front outside handle RH (request switch) D106
- 21. Rear door switch LH B18 RH B116
- 24. Rear bumper antenna B46

TRUNK REQUEST SWITCH: Component Description

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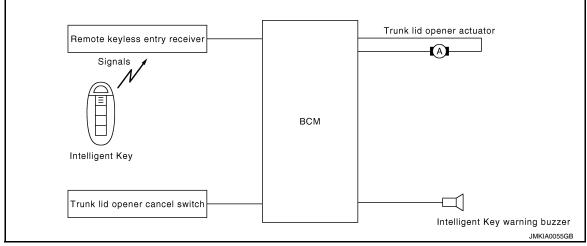
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Item	Function
BCM	Controls trunk open function.
Trunk release solenoid	Transmits trunk open operation to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Trunk opener request switch	Transmits trunk open operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTELLIGENT KEY

INTELLIGENT KEY: System Diagram

INFOID:000000004204772



INTELLIGENT KEY: System Description

INFOID:0000000004204773

The Intelligent Key has the same functions as the remote control entry system. Therefore, it can be used in the same manner as the remote controller by operating the trunk open button.

OPERATION DESCRIPTION/TRUNK OPEN FUNCTION

- When trunk button of the Intelligent Key is pressed, the trunk open signal is transmitted from the Intelligent Key to the BCM via remote keyless entry receiver.
- When BCM receives the trunk open request signal, it operates the trunk lid opener actuator and opens the trunk.

OPERATION CONDITION

Remote controller operation	Operation condition	Operation
Trunk open	Press and hold the trunk open button for 0.5 second or more	Trunk open

OPERATION AREA

• To ensure the Intelligent Key works effectively, use within 80 cm (31.50 inches) range of each door, however the operable range may differ according to surroundings.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM flashes hazard warning lamps as a reminder and transmits horn chirp signal to IPDM E/R. IPDM E/R sound horns as a reminder.

The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

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Revision: February 2010 DLK-255 2009 Altima

TRUNK OPEN FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Operating function of hazard and horn reminder													
		C mode		S mode									
Intelligent Key operation	Lock	Unlock	Trunk open	Lock	Unlock	Trunk open							
Hazard warning lamp flash	Twice	Once	_	Twice	_	_							
Horn sound	Once	_	_	_	_	_							

Hazard and horn reminder does not operate if any door switch is ON (any door is OPEN).

How to change hazard and horn reminder mode

With CONSULT-III

Refer to DLK-272, "INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY)".

Without CONSULT-III

Refer to Owner's Manual for instructions.

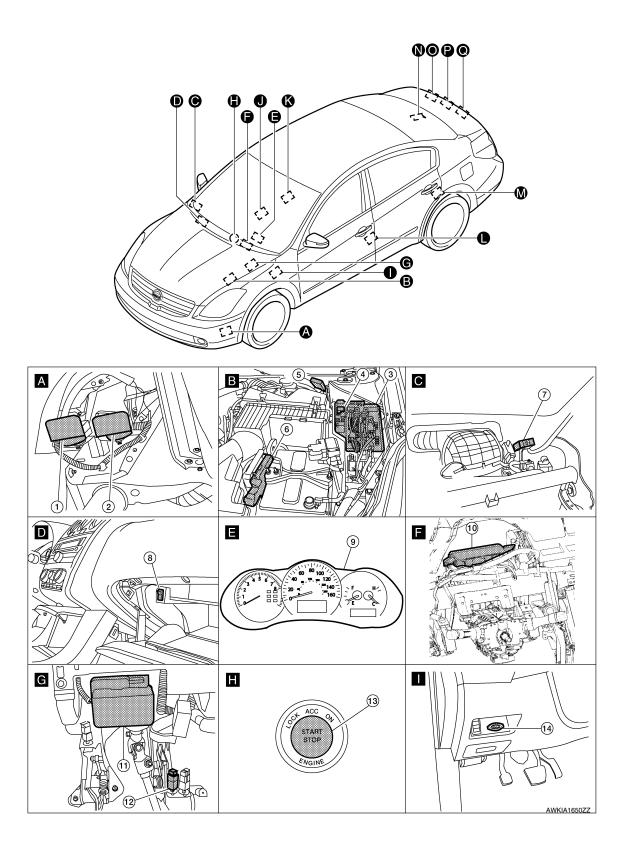
LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

Remote keyless entry functions	Intelligent Key	Key slot	Trunk room lamp switch	Trunk release solenoid	Intelligent Key warning buzzer	CAN communication system	ВСМ	Combination meter	Hazard warning lamps	Horns	IPDM E/R
Trunk open function by remote control button		×	×	×		×	×				
Hazard and horn reminder function					×	×	×	×	×	×	×

INTELLIGENT KEY: Component Parts Location

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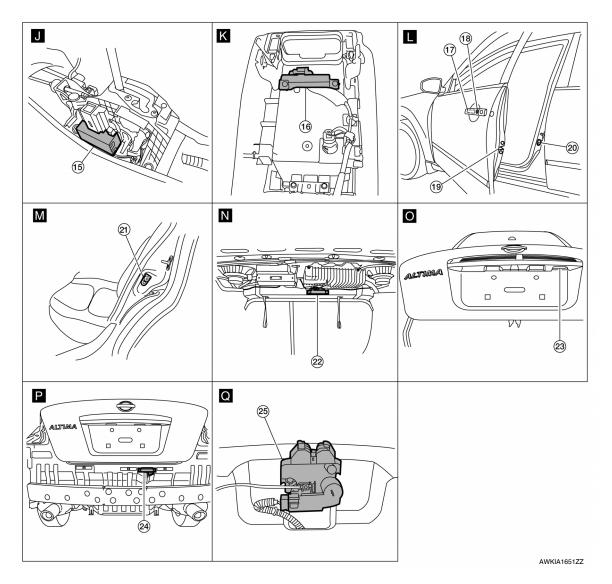
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- Horn (low) E215
 (view with front fender protector LH removed)
- 4. Horn relay H-1
- Remote keyless entry receiver M27 (view with instrument panel removed)
- 10. BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- 13. Push button ignition switch M38
- Front console antenna M203
 (view with center console assembly removed)
- Front door lock assembly LH D10 Front door lock actuator RH D108
- 22. Rear parcel shelf antenna B29
- 25. Trunk lamp switch and trunk release solenoid B28

- 2. Horn (high) E216
- 5. Intelligent Key warning buzzer E73
- 8. Trunk lid opener cancel switch M74
- Electronic steering column lock M32 (view with instrument panel LH removed)
- 14. Key slot M40
- Front outside handle LH (outside key antenna) D6
 Front outside handle RH (outside key antenna) D106
- 20. Front door switch LH B8 RH B108
- 23. Trunk opener request switch B33

- 3. IPDM E/R E17, E18
- 6. ECM
- 9. Combination meter M24
- 12. Stop lamp switch E38
- 15. CVT shift selector (detent switch)
- Front outside handle LH (request switch) D6
 Front outside handle RH (request switch) D106
- 21. Rear door switch LH B18 RH B116
- 24. Rear bumper antenna B46

TRUNK OPEN FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

INTELLIGENT KEY: Component Description

INFOID:0000000004204775

Item	Function
BCM	Controls trunk open function.
Trunk release solenoid	Opens the trunk with the open signal from BCM.
Remote keyless entry receiver	Receives trunk open signal from the Intelligent Key, and then transmits to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with a buzzer sound.

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System Description

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OPERATION DESCRIPTION

The warning functions are as follows and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, KEY warning lamp, key slot illumination and combination meter display in combination meter.

- Intelligent Key system malfunction
- OFF position warning
- · P position warning
- ACC warning
- Take away warning
- · Door lock operation warning
- Key warning
- · Intelligent Key insert information
- Engine start information
- Steering lock information
- · Intelligent key low battery warning
- Key ID warning

OPERATION CONDITION

Once the following condition from below is established, alert or warning will be executed.

Warning/Info	mation functions	Operation procedure
Intelligent Key system ma	alfunction	When a malfunction is detected on BCM, "KEY" warning lamp will illuminate.
	For internal	Ignition switch: ACC position. Door switch (driver side): ON (Door is open).
OFF position warning	For external	OFF position warning (For internal) is in active mode, driver side door has been closed. NOTE: OFF position (For external) active only when each of the sequence has occurred as below: P position warning \rightarrow ACC warning \rightarrow OFF position warning (For internal) \rightarrow OFF position warning (For internal)
P position warning		Shift position: Except P position Engine is running to stopped (Ignition switch is ON to OFF)
ACC warning		 During P position warning is in active mode, shift position has changed P position. Ignition switch: Except OFF position.
<u>-</u>	Door is open to close	 Ignition switch: Except LOCK position. Door switch: ON to OFF (Door is open to close). Intelligent Key can not be detected inside the vehicle.
	Door is open	Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key can not be detected inside the vehicle.
Take away warning	Push-ignition switch operation	 Ignition switch: Except LOCK position. Press ignition switch. Intelligent Key can not be detected inside the vehicle.
	Take away through window	 Engine is running. Key ID verification every 30 seconds when registered Intelligent Key can not be detected inside the vehicle. After vehicle speed verification, the registered Intelligent Key can not be detect inside the vehicle.
	Intelligent Key is removed from key slot	When Intelligent Key is removed from key slot, Intelligent Key can not be detected inside the vehicle.

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Warning/Inforn	nation functions	Operation procedure							
Door lock operation warn-	Request switch operation	 When request switch is pushed (lock operation) under the following conditions. Door switch: ON (Any door is open). Intelligent Key is inside vehicle. 							
ing	Intelligent Key button operation	When Intelligent Key button is pushed (lock operation) under the following conditions. Door switch: ON (Any door is open). For 3 seconds after Intelligent Key is removed from key slot.							
Key warning		 Ignition switch is OFF position. Driver side door switch: ON (Driver side door is open). Intelligent Key is inserted in key slot. 							
Intelligent Key insert inforr	nation	 Door switch: ON to OFF (Door is open to close). Ignition switch: OFF to ON position. Intelligent Key is out of key slot. Intelligent Key can not be detected inside the vehicle. 							
	Ignition switch is ON position	Ignition switch: ON position.Shift position: P positionEngine is stopped							
Engine start information	Ignition switch is except ON position	 Ignition switch: Except ON position. Shift position: P position Intelligent Key is inserted in key slot. Intelligent Key can be detected inside the vehicle. 							
Steering lock information		When steering lock can not be released after ignition switch is turned ON.							
Intelligent Key low battery	warning	When Intelligent Key has low battery, it is detected by BCM after ignition switch is turned ON.							
Key ID warning		When registered intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON.							

WARNING METHOD

The following table shows the alarm or warning methods with chime. Meter display, "KEY" indicator or key slot illumination when the warning conditions are met.

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					Warning	g chime	•
Warning/Informa	ation functions	"KEY" warn- ing lamp	Combination meter display	Key slot il- lumination	Combination meter buzzer	Intelligent Keywarning buzzer	DLK
Intelligent Key syste	m malfunction	Illuminate	_	_	_	_	
OFF position warn-	For internal	_	_	_	Activate	_	
ing	For external	_	_	_	_	Activate	•
P position warning		_	SHIFT JMKIA0037GB	_	Activate	_	M N
ACC warning		_	PUSH JMKIA0047GB	_	Activate	_	Р

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					Warning chime					
Warning/Informa	ation functions	"KEY" warn- ing lamp	Combination meter display	Key slot il- lumination	Combination meter buzzer	Intelligent Keywarning buzzer				
	Door is open to close	_		Flash	Activate	Activate				
	Door is open	_		Flash	_	_				
Take away warning	Push-ignition switch operation	_	NO NO	Flash	Activate	_				
3	Take away through window	_	NO KEY	Flash	Activate	_				
	Intelligent Key is removed from key slot	_	JMKIA0036GB	Flash	_	_				
Door lock operation	Request switch operation	_	_	_	_	Activate				
warning	Intelligent Key operation	_	_	_	_	Activate				
Key ID warning		_	NO KEY	_	_	_				
Key warning		_	JMKIA0035GB	Flash	Activate	_				
Intelligent Key insert	: information		JMKIA0034GB	Flash		_				
Engine start infor-	Automatic trans- mission models	_	BRAKE JMKIA0032GB	_	_	_				
Engine start infor- mation	Manual trans- mission models	_	CLUTCH ALKIA1326GB	_	_	_				

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

				Warning chime					
Warning/Information functions	"KEY" warn- ing lamp	Combination meter display	Key slot il- lumination	Combination meter buzzer	Intelligent Keywarning buzzer				
Steering lock information	_	JMKIA0033GB	_	_	_				
Intelligent Key low battery warning	_	JMKIA0048GB	_		_				

LIST OF OPERATION RELATED PARTS

Parts marked with \times are the parts related to operation.

Warning function		Intelligent Key	Key slot	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Combination meter display	Key slot illumination	Park position switch	"KEY" warning lamp
Intelligent Key system ma	Ifunction										×	×				×
OFF position warning	For internal				×					×	×	×				
	For external				×				×		×	×				
P position warning				×						×	×	×	×		×	
ACC warning				×						×	×	×	×		×	
	Door is open or close	×			×		×		×	×	×	×	×	×		
	Door is open	×			×		×				×	×	×	×		
Take away warning	Push-ignition switch operation	×		×			×			×	×	×	×	×		
.s and naming	Take away through window	×					×			×	×	×	×	×		
	Intelligent Key is removed from key slot	×	×				×				×	×	×	×		
Door lock operation warning		×	×		×	×	×	×	×		×	×				
Key ID warning		×	×	×			×				×	×	×			
Key warning		×	×		×					×	×	×	×	×		
Intelligent Key insert inform	mation	×	×	×	×		×				×	×	×	×		

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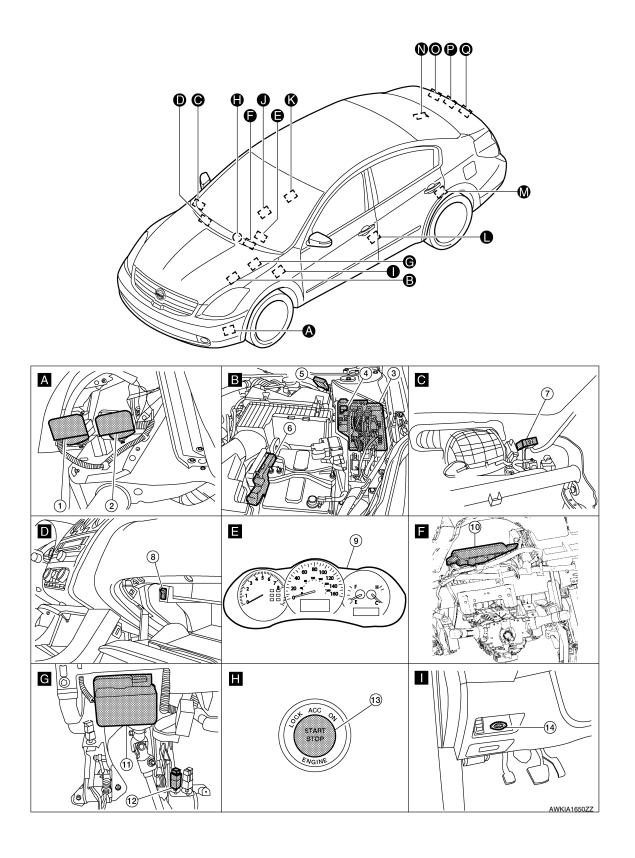
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[SEDAN WITH INTELLIGENT KEY]

Warning function Ignition switch is ON posi-		Intelligent Key	Key slot	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Combination meter display	Key slot illumination	Park position switch	"KEY" warning lamp
Engine start information	Ignition switch is ON position	×	×	×			×				×	×	×		×	_
Linguis start illiointation	Ignition switch is except ON position	×	×	×			×				×	×	×			
Steering lock information				×							×	×	×			
Intelligent Key low battery	warning	×					×				×	×	×			

Component Parts Location

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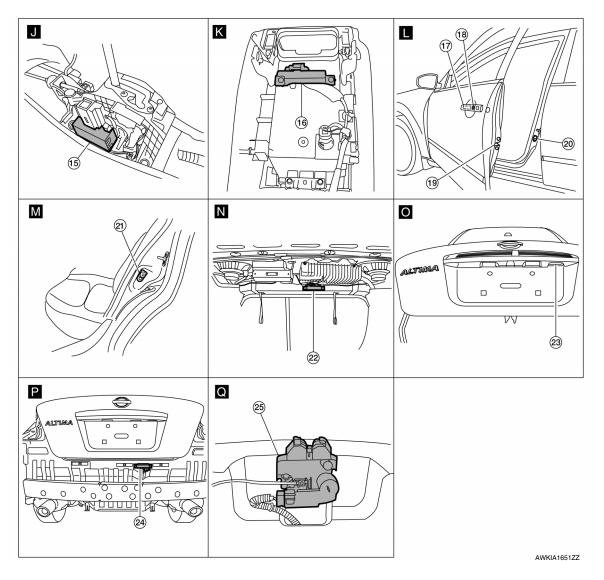
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- Horn (low) E215
 (view with front fender protector LH removed)
- 4. Horn relay H-1
- Remote keyless entry receiver M27 (view with instrument panel removed)
- BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- 13. Push button ignition switch M38
- Front console antenna M203
 (view with center console assembly removed)
- Front door lock assembly LH D10 Front door lock actuator RH D108
- 22. Rear parcel shelf antenna B29
- 25. Trunk lamp switch and trunk release solenoid B28

- 2. Horn (high) E216
- 5. Intelligent Key warning buzzer E73
- 8. Trunk lid opener cancel switch M74
- Electronic steering column lock M32 (view with instrument panel LH removed)
- 14. Key slot M40
- Front outside handle LH (outside key antenna) D6
 Front outside handle RH (outside key antenna) D106
- 20. Front door switch LH B8 RH B108
- 23. Trunk opener request switch B33

- 3. IPDM E/R E17, E18
- 6. ECM
- 9. Combination meter M24
- Stop lamp switch E38
- 15. CVT shift selector (detent switch)
- Front outside handle LH (request switch) D6
 Front outside handle RH (request switch) D106
- 21. Rear door switch LH B18 RH B116
- 24. Rear bumper antenna B46

KEY REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

KEY REMINDER FUNCTION

System Description

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Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 3 functions.

Key reminder function	Operation condition	Operation
Driver door closed*	Right after driver side door is closed under the following conditions Door lock operation is performed Driver side door is opened Driver side door is in unlock state	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions Intelligent Key is inside the vehicle Any door is opened All doors are locked by door lock and unlock switch or door lock knob	All doors unlock Sounds Intelligent Key warning buzzer
Trunk is closed	Right after trunk is closed under the following conditions Intelligent Key is inside trunk room All doors are closed All doors are locked	Trunk open Sounds Intelligent Key warning buzzer

^{*:}If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob, it might activate the door locks accidentally but unlock operation will be performed in these cases.

CAUTION:

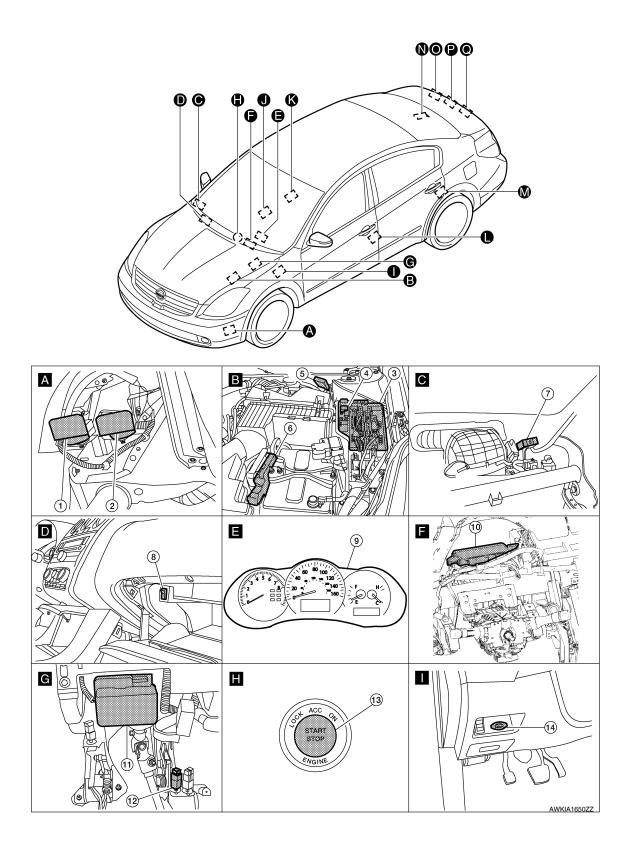
- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.
- The key reminder function is operated when the trunk is open/closed and the buzzers sound. If the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped.
- Remote controller door lock button operation of Intelligent Key
- Remote controller door unlock button operation of Intelligent Key
- When the trunk is closed, and the Intelligent Key is not inside the vehicle
- When any door is open

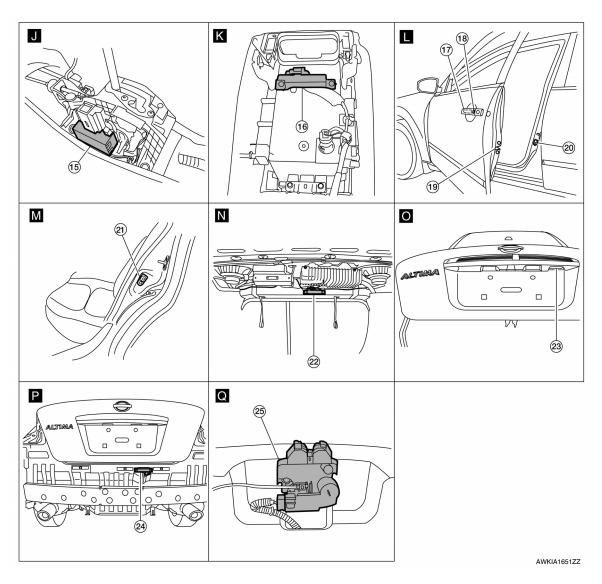
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Component Parts Location

INFOID:0000000004496040





- Horn (low) E215

 (view with front fender protector LH removed)
- 4. Horn relay H-1
- 7. Remote keyless entry receiver M27 (view with instrument panel removed)
- 10. BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- 13. Push button ignition switch M38
- Front console antenna M203

 (view with center console assembly removed)
- Front door lock assembly LH D10
 Front door lock actuator RH D108
- 22. Rear parcel shelf antenna B29
- Trunk lamp switch and trunk release solenoid B28

- . Horn (high) E216
- 5. Intelligent Key warning buzzer E73
- 8. Trunk lid opener cancel switch M74
- Electronic steering column lock M32 (view with instrument panel LH removed)
- 14. Key slot M40
- Front outside handle LH (outside key antenna) D6
 Front outside handle RH (outside key antenna) D106
- 20. Front door switch LH B8 RH B108
- 23. Trunk opener request switch B33

- 3. IPDM E/R E17, E18
- 6. ECM
- 9. Combination meter M24
- 12. Stop lamp switch E38
- 15. CVT shift selector (detent switch)
- Front outside handle LH (request switch) D6
 Front outside handle RH (request switch) D106
- 21. Rear door switch LH B18 RH B116
- 24. Rear bumper antenna B46

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HOMELINK UNIVERSAL TRANSCEIVER

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

HOMELINK UNIVERSAL TRANSCEIVER

Component Description

INFOID:0000000004204780

Item	Function	Reference page
Homelink universal transceiver	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.	Refer to Owner's Manual

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: Diagnosis Description

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BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

System	Sub system selection item	Diagnosis mode		
System		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Remote keyless entry system	MUTI REMOTE ENT	×	×	×
Exterior lamp	HEADLAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	

COMMON ITEM: CONSULT-III Function

INFOID:0000000004496032

ECU IDENTIFICATION Displays the BCM part No.

SELF-DIAG RESULT

Refer to BCS-93, "DTC Index".

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DOOR LOCK

DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)

INFOID:0000000004496033

WORK SUPPORT

Work Item	Description
DOOR LOCK-UNLOCK SET	• ON • OFF
AUTOMATIC DOOR LOCK SELECT	SHIFT OUT OF P VH SPD
AUTOMATIC DOOR UNLOCK SE- LECT	 MODE1 MODE2 MODE3 MODE4 MODE5 MODE6
AUTOMATIC LOCK/UNLOCK SE- LECT	• ON • OFF

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [ON/OFF]	Indicates condition of door request switch LH
REQ SW-AS [ON/OFF]	Indicates condition of door request switch RH
REQ SW-BD/TR [ON/OFF]	Indicates condition of trunk request switch
CDL LOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
CDL UNLOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH
DOOR SW-RR [ON/OFF]	Indicates condition of rear door switch RH
DOOR SW-RL [ON/OFF]	Indicates condition of rear door switch LH
DOOR SW-BK [ON/OFF]	Indicates condition of trunk switch
KEY CYL LK-SW [ON/OFF]	Indicates condition of lock signal from door key cylinder switch
KEY CYL UN-SW [ON/OFF]	Indicates condition of unlock signal from door key cylinder switch

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK].

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:000000004498034

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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Monitor item	Description	
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.	
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes	
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side, passenger side and trunk) mode can be changed to operate (ON) or not operate (OFF) with this mode.	
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode	
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk opener request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. • 0.5 sec. • 1.5 sec. • OFF: Non-operation	
PW DOWN SET	Unlock button pressing time on Intelligent Key button to lower front windows can be selected from the following with this mode. • 3 sec. • 5 sec. • OFF: Non-operation	
TRUNK OPEN DELAY	Trunk button pressing time on Intelligent Key button can be selected from the following with this mode. • 0.5 sec. • 1.5 sec. • OFF: No delay	
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.	
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode	
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.	
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK AND UNLOCK: Lock/unlock operation • OFF: Non operation	
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. • HORN CHIRP: Sound horn • BUZZER: Sound Intelligent Key warning buzzer • OFF: Non-operation	
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.	
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec • 100 msec • 200 msec	
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.	

SELF-DIAG RESULT

Refer to BCS-93, "DTC Index".

DATA MONITOR

Revision: February 2010 DLK-273 2009 Altima

< FUNCTION DIAGNOSIS >

Monitor Item	Condition
REQ SW-DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW-AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW-BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push button ignition switch.
IGN RLY2-F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY1-F/B	Indicates [ON/OFF] condition of accessory relay.
CLUTCH SW	NOTE: This item is displayed, but cannot be monitored.
BRAKE SW 1	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	Indicates [ON/OFF] condition of steering lock (LOCK).
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock (UNLOCK).
S/L RELAY-F/B	Indicates [ON/OFF] condition of ignition switch.
UNLK SEN-DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push button ignition switch from IPDM E/R via CAN.
IGN RLY1-F/B	Indicates [ON/OFF] condition of ignition relay 1 from IPDM E/R via CAN.
DETE SW -IPDM	Indicates [ON/OFF] condition of P position from TCM via CAN.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position from TCM via CAN.
SFT P -MET	Indicates [ON/OFF] condition of P position from TCM via CAN.
SFT N -MET	Indicates [ON/OFF] condition of N position from IPDM E/R via CAN.
ENGINE STATE	Indicates [STOP/START/CRANK/RUN] condition of engine states from ECM via CAN.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock (LOCK) request from IPDM E/R via CAN.
S/L UNLOCK-IPDM	Indicates [ON/OFF] condition of steering lock (UNLOCK) request from IPDM E/R via CAN.
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay from IPDM E/R via CAN.
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h].
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of key ID.
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.

[SEDAN WITH INTELLIGENT KEY]

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ACTIVE TEST

Test item	Description	
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT-III screen is touched.	
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down will be activated after "ON" on CONSULT-III screen is touched.	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. Intelligent Key warning buzzer sounds when "ON" on CONSULT-III screen is touched.	(
INSIDE BUZZER	This test is able to check warning chime by combination meter operation. • Take out warning chime sounds when "TAKE OUT" on CONSULT-III screen is touched. • Key warning chime sounds when "KEY WARN" on CONSULT-III screen is touched. • P position warning chime sounds when "P RNG WARN" on CONSULT-III screen is touched. • ACC warning chime sounds when "ACC WARN" on CONSULT-III screen is touched.	[
INDICATOR	This test is able to check warning lamp operation. • "KEY" Warning lamp illuminates when "KEY IND ON" on CONSULT-III screen is touched. • "KEY" Warning lamp flashes when "KEY IND FSH" on CONSULT-III screen is touched.	[
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT-III screen is touched.	F
LCD	This test is able to check meter display information • Engine start information displays when "BRAKE/P" on CONSULT-III screen is touched. • Engine start information displays when "BRAKE/P/ON" on CONSULT-III screen is touched. • Key ID warning displays when "KEY ID NG" on CONSULT-III screen is touched. • Steering lock information displays when "STLCK RELES" on CONSULT-III screen is touched. • P position warning displays when "P RNG IND" on CONSULT-III screen is touched. • Intelligent Key insert information displays when "INSERT KEY" on CONSULT-III screen is touched. • Intelligent Key low battery warning displays when "KEY BAT LOW" on CONSULT-III screen is touched. • Take away window warning displays when "TK AWAY WDW" on CONSULT-III screen is touched. • Take away warning display when "TAKE AWAY" on CONSULT-III screen is touched. • OFF position warning display when "IGN OFF WARN" on CONSULT-III screen is touched.	(h
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when "ON" on CONSULT-III screen is touched.	DI
FLASHER	This test is able to check security hazard lamp operation. The hazard lamps will be activated after "ON" on CONSULT-III screen is touched.	
HORN	This test is able to check horn operation. The horn will be activated after "ON" on CONSULT-III screen is touched.	L
P RANGE	This test is able to check CVT shift selector power supply CVT shift selector power is supplied when "ON" on CONSULT-III screen is touched.	I/
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT-III screen is touched.	1
LOCK INDICATOR	This test is able to check LOCK indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched.	1
ACC INDICATOR	This test is able to check ACC indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched.	
IGNITION ON IND	This test is able to check INGITION ON indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when "ON" on CONSULT-III screen is touched.	(
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination flash when "ON" on CONSULT-III screen is touched.	F

TRUNK

TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000004496035

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Monitor Item	Contents
PUSH SW	Indicates [ON/OFF] condition of push button ignition switch.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter.
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.
TR CANCEL SW	Indicates [ON/OFF] condition of trunk cancel switch.
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk opener switch.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
TRUNK/GLASS HATCH	This test is able to check trunk open operation. Trunk opens when "OPEN" on CONSULT-III screen is touched.

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000004204785

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause	F
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (MULTI AV) Receiving (IPDM E/R)	G

Diagnosis Procedure

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1.PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.

2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-42, "Intermittent Incident".

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U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display de- scription	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:0000000004204789

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to BCS-100, "Removal and Installation".

Special Repair Requirement

INFOID:0000000004204790

1. REQUIRED WORK WHEN REPLACING BCM

Initialize NVIS by CONSULT-III. For the details of initialization refer to CONSULT-III Operation Manual.

>> Work End.

B2622 INSIDE KEY ANTENNA 2

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

B2622 INSIDE KEY ANTENNA 2

Description INFOID:0000000004204794

Detects whether Intelligent Key is inside the vehicle. Installed in the console.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	Front console antenna Between BCM and front console antenna.

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT-III

- 1. Perform front console antenna INSIDE ANT DIAGNOSIS on "Work Support" of "INTELLIGENT KEY".
- 2. Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is front console antenna DTC detected?

YES >> Refer to <u>DLK-279</u>, "<u>Diagnosis Procedure</u>".

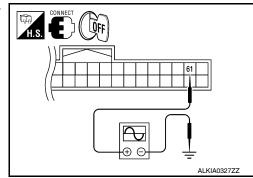
NO >> Front console antenna is OK.

Diagnosis Procedure

1. CHECK FRONT CONSOLE ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.

Check signal between BCM connector and ground with oscilloscope.



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	Terminals				Observat
	(+)		(-)	Condition	Signal (Reference value.)
ВС	M connector	Terminal	(-)		,
M19	Front console	61	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 JMKIA0062GB
WIB	antenna	61	Ground	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Check the condition of harness and connector.

NO >> GO TO 2

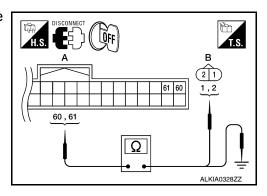
$2.\mathsf{CHECK}$ FRONT CONSOLE ANTENNA CIRCUIT

- 1. Disconnect BCM and front console antenna connector.
- 2. Check continuity between BCM connector and front console antenna connector.

BCM connector	Terminal	Front console antenna connector		Terminal	Continuity	
A: M19	60	B: M41	Console	2	Yes	
A. W19	61	D. IVIT I	Console	1		

3. Check continuity between BCM connector and ground.

A: M19 Console 60 Ground No	BCM	1 connector	Terminal		Continuity
	Λ· M1Q	A: M10 Console		Ground	No
01	A: M19	Console	61	-	NO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and front console antenna.

3.CHECK FRONT CONSOLE ANTENNA INPUT SIGNAL 2

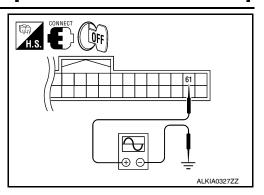
- 1. Replace front console antenna (new antenna or other antenna).
- 2. Connect BCM and front console antenna connector.

B2622 INSIDE KEY ANTENNA 2

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check signal between BCM connector and ground with oscilloscope.



Terminals						_
(+)		()	Condition	Signal (Reference value.)	Е	
ВС	M connector	Terminal	(–)		(11111,	
M19	Front console	61	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB	F G
WITS	antenna	01	Glound	Place Intelligent Key outside the vehicle.	(V) 15 10 1 s JMKIA0063GB	J

Is the inspection result normal?

YES >> Replace front console antenna. Refer to IP-19, "Disassembly and Assembly".

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

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B2623 INSIDE KEY ANTENNA 3

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

B2623 INSIDE KEY ANTENNA 3

Description INFOID:000000004204797

Detects whether Intelligent Key is inside the vehicle. Installed in the trunk room.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3 CIRCUIT	An excessive high or low voltage from rear parcel shelf antenna is sent to BCM.	rear parcel shelf antenna Between BCM and rear parcel shelf antenna

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT-III

- 1. Perform rear parcel shelf antenna INSIDE ANT DIAGNOSIS on "Work Support" of "INTELLIGENT KEY".
- Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is rear parcel shelf antenna DTC detected?

YES >> Refer to <u>DLK-282</u>, "<u>Diagnosis Procedure</u>".

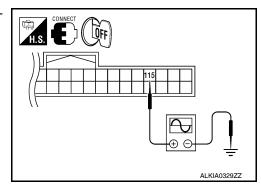
NO >> Rear parcel shelf antenna is OK.

Diagnosis Procedure

INFOID:0000000004204799

1. CHECK REAR PARCEL SHELF ANTENNA INPUT SIGNAL 1

- 1. Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



Terminals					2: 1
(+)		()	Condition	Signal (Reference value.)	
BCI	M connector	Terminal	(–)		(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Rear parcel			Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
M21	shelf antenna	115	Ground	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 JMKIA0063GB

Is the inspection result normal?

YES >> Check the condition of harness and connector.

NO >> GO TO 2

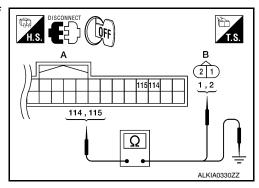
2.CHECK REAR PARCEL SHELF ANTENNA CIRCUIT

- 1. Disconnect BCM and rear parcel shelf antenna connector.
- 2. Check continuity between BCM connector and rear parcel shelf antenna connector.

BCM connector	Terminal	Rear parcel shelf antenna connector		Terminal	Continuity
A: M21	114	B: B29	Trunk room	2	Yes
A. IVIZ I	115	D. D29	Trunk room	1	

3. Check continuity between BCM connector and ground.

BCM	BCM connector			Continuity
A: M21	Trunk room	114	Ground	No
	Trunk room	115	_	



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and rear parcel shelf antenna.

3.CHECK REAR PARCEL SHELF ANTENNA INPUT SIGNAL 2

- 1. Replace rear parcel shelf antenna (new antenna or other antenna).
- 2. Connect BCM and rear parcel shelf antenna connector.

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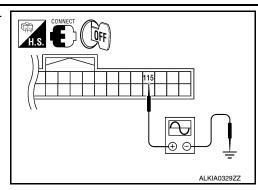
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B2623 INSIDE KEY ANTENNA 3

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check signal between BCM connector and ground with oscilloscope.



	Terminals				a
	(+)		(-)	Condition	Signal (Reference value.)
BCI	VI connector	Terminal	(-)		,
M21	Trunk room	115	Ground	Place Intelligent Key inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
10121	ridiik (ööiii	110	Clound	Place Intelligent Key outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

>> Replace rear parcel shelf antenna. Refer to INT-41, "Removal and Installation". >> Replace BCM. Refer to BCS-100, "Removal and Installation". YES

NO

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	Н
11	battery power supply	10

Is the fuse or fusible link blown?

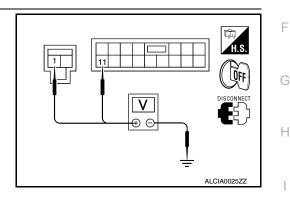
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check voltage between BCM harness connector and ground.

(Voltage		
В	CM		(Approx.)
Connector	Terminal		
M16	1	Ground	Pattony voltago
M17	11		Battery voltage



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M17	13		Yes	

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

H.S. DISCONNECT ALCIA0024ZZ

INFOID:0000000004496030

Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-6, "CONFIGURATION (BCM): Special Repair Requirement".

>> Work End.

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DOOR SWITCH

Description INFOID:000000004204801

Detects door open/close condition.

Component Function Check

INFOID:0000000004204802

1. CHECK FUNCTION

(II) With CONSULT-III

Check door switches DOOR SW-DR, DOOR SW-AS, DOOR SW-RL, DOOR SW-RR in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
DOOR SW-DR		
DOOR SW-AS	$CLOSE \rightarrow OPEN: OFF \rightarrow ON$	
DOOR SW-RL	GLOSE A OF EN. OF THE ON	
DOOR SW-RR		

Is the inspection result normal?

YES >> Door switch is OK.

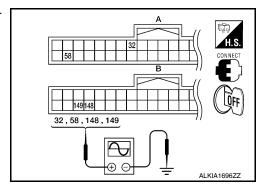
NO >> Refer to <u>DLK-286, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000004204803

1. CHECK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



	Terminals					
BCM connector	+) Terminal	(-)	Door condition		Voltage (V) (Approx.)	
				OPEN	0	
A 1440	58		Driver side	CLOSE	(V) 15 10 5 0 10 ms	
A: M18			OPEN		0	
	32		Passenger side	CLOSE	(V) 15 10 5 0 10 ms	
		Ground		OPEN	0	
B: M21	148		Rear RH	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB	
D. IVIZ I	B: M21			OPEN	0	
	149 Rear LH	Rear LH	CLOSE	(V) 15 10 5 0 10 ms		

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
A: M18	58	C: B8 (Driver side)		
A. W10	32	C: B108 (Passenger side)	2	Yes
B: M21	148	C: B116 (Rear RH)	2	162
B. IVIZ I	149	C: B18 (Rear LH)		

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	58		
A. IVI IO	32	Ground	No
B: M21	148		INO
	149		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door switch.

3. CHECK DOOR SWITCH

Refer to DLK-288, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204804

1. CHECK DOOR SWITCH

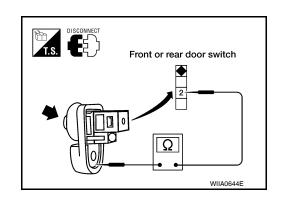
- 1. Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- 3. Check door switch.

Terminal		Door switch condition	Continuity	
Door switch		Door Switch condition	Continuity	
2	Ground part of	Pressed	No	
	door switch	Released	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.



< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004204805

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Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000004204806

1. CHECK FUNCTION

(P)With CONSULT-III

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT-III.

Monitor item		Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
ODE DIVEOUR SVV	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> With LH and RH anti-pinch, refer to <u>DLK-289</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u> (With LH and <u>RH Anti-Pinch</u>)".

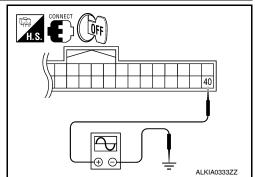
NO >> With LH anti-pinch only, refer to <u>DLK-290</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u> (With LH Anti-Pinch Only)".

DRIVER SIDE: Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:0000000004204807

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

 Read voltage signal between BCM connector and ground with oscilloscope when door lock and unlock switch (driver side) is turned "LOCK" or "UNLOCK".



Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (driver side) is turned "LOCK" or "UNLOCK".

	Terminal			
(+)		()	Condition	Signal (Reference value)
BCM connector	Terminal	(-)		(
M18	40	Ground	Door is closed	(V) 15 10 5 0 PIIA1297E

Is the inspection result normal?

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Main power window and door lock/unlock switch connector 17

YES >> GO TO 4 NO >> GO TO 2

2.check power window switch ground

- Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch connector.

Check continuity between main power window and door lock/ unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D8	17	Ground	Yes

Is the inspection result normal?

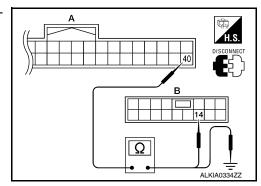
YES >> GO TO 3

NO >> Repair or replace harness.

3.check power window serial link circuit

- Disconnect BCM connector.
- Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
A: M18	40	B: D8	14	Yes



3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M18	40	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

DRIVER SIDE: Diagnosis Procedure (With LH Anti-Pinch Only)

INFOID:0000000004204808

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1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

Turn ignition switch ON.

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Term	ninal	Voltage
D8	Neutral → Lock	18 Ground Battery volt		Battery voltage → 0
D7	Neutral → Unlock	6 Ground Battery voltage		Dattery voltage -> 0

Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.CHECK POWER WINDOW SWITCH GROUND

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch connector.
- Check continuity between main power window and door lock/ unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D8	17	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

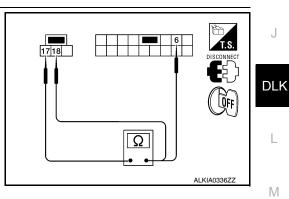
NO >> Repair or replace harness.

Main power window and door lock/unlock switch connector

3. CHECK POWER WINDOW SWITCH

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity
Lock	17 - 18	Yes
Unlock	6 - 17	165
Neutral/Lock	6 - 17	No
Neutral/Unlock	17 - 18	140



Is the inspection result normal?

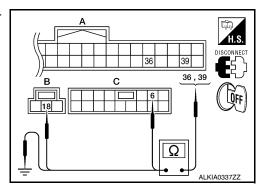
YES >> GO TO 4

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-94, "Removal and Installation".

4. CHECK POWER WINDOW SWITCH CIRCUITS

- Disconnect BCM connector.
- 2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
A: M18	36	B: D8	18	Yes
A. W10	39	C: D7	6	165



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[SEDAN WITH INTELLIGENT KEY]

Check continuity between BCM connector and ground.

BCM connector	Terr	minal	Continuity
A: M18	36	Ground	No
A. WITO	39	Ground	INO

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004204810

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE: Component Function Check INFOID:0000000004204811

1. CHECK FUNCTION

(P)With CONSULT-III

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT-III.

Monitor item		Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> With LH and RH anti-pinch, refer to DLK-292, "PASSENGER SIDE: Diagnosis Procedure (With LH and RH Anti-Pinch)".

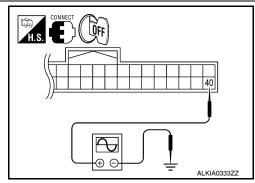
>> With LH anti-pinch only, refer to DLK-294, "PASSENGER SIDE: Diagnosis Procedure (With LH NO Anti-Pinch Only)".

PASSENGER SIDE: Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:0000000004204812

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- Read voltage signal between BCM connector and ground with oscilloscope when door lock and unlock switch (passenger side) is turned to "LOCK" or "UNLOCK".
- 2. Check that signals which are shown in the figure below can be detected during 10 second just after door lock and unlock switch (passenger side) is turned "LOCK" or "UNLOCK".



< COMPONENT DIAGNOSIS >

	Terminal			
(+	+)		Condition	Signal
BCM connector	Terminal	(–)		(Reference value)
M18	40	Ground	Door is closed	(V) 15 10 5 0 10 ms

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2.check power window switch ground

- 1. Turn ignition switch OFF.
- 2. Disconnect power window and door lock/unlock switch RH connector.
- Check continuity between front power window switch (passenger side) connector and ground.

Power window and door lock/ unlock switch RH connector	Terminal		Continuity
D105	11	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK POWER WINDOW SERIAL LINK CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between BCM connector and front power window switch (passenger side) connector.

BCM connector	Terminal	Front power window switch (passenger side) connector	Terminal	Continuity
A: M18	40	B: D105	16	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminals		Continuity
A: M18	40	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

YES >> Inspection End.

Power window and door lock/unlock switch RH connector

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[SEDAN WITH INTELLIGENT KEY]

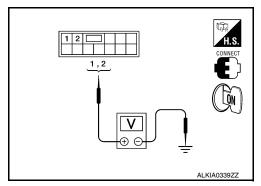
PASSENGER SIDE: Diagnosis Procedure (With LH Anti-Pinch Only)

INFOID:000000000420481

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage at the power window and door lock/unlock switch RH connector when the switch (passenger side) is turned to "LOCK" or "UNLOCK".

Connector	Power window and door lock/unlock switch RH state	Terminal		Voltage
D105	Neutral → Lock	2	Ground	Battery voltage → 0
	Neutral → Unlock	1	Ground Ballery Vollage	Battery voltage -70



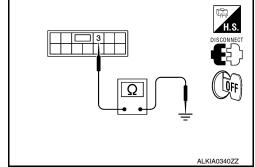
Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

$2.\mathsf{CHECK}$ POWER WINDOW SWITCH GROUND

- Turn ignition switch OFF.
- 2. Disconnect power window and door lock/unlock switch RH connector.
- 3. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/ unlock switch RH connector	Terminal		Continuity
D105	3	Ground	Yes



Is the inspection result normal?

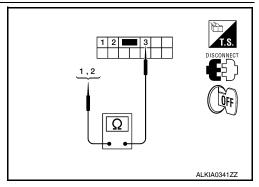
YES >> GO TO 3

NO >> Repair or replace harness.

3.check power window switch

Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH state	Terminals	Continuity	
Lock	2 - 3	Yes	
Unlock	1 - 3	103	
Neutral/Unlock	2 - 3	No	
Neutral/Lock	1 - 3	- No	



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace power window and door lock/unlock switch RH.

4. CHECK POWER WINDOW SWITCH CIRCUITS

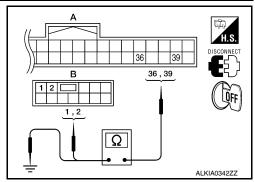
1. Disconnect BCM connector.

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
A: M18	36	B: D105	1	Yes
A. W110	39	J. D103	2	163



3. Check continuity between BCM connector and ground.

BCM connector	Terr	minal	Continuity
A: M18	36	Ground	No
	39	Ground	INO

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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KEY SLOT

Description INFOID:000000004204815

Detects whether Intelligent Key is inserted.

Immobilizer antenna amp checks Intelligent Key transponder.

Component Function Check

INFOID:0000000004204816

1. CHECK FUNCTION

(P)With CONSULT-III

Check KEY SW -SLOT in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
KEY SW-SLOT	Key is inserted in key slot: ON	
	Key is removed from key slot: OFF	

Is the inspection result normal?

YES >> Key slot is OK.

NO >> Refer to <u>DLK-296, "Diagnosis Procedure"</u>.

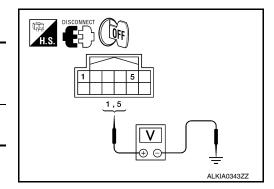
Diagnosis Procedure

INFOID:0000000004204817

1. CHECK KEY SLOT POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect key slot connector.
- 3. Check voltage between key slot connector and ground.

	V II 0.0			
(1	+)	(-)	Voltage (V) (Approx.)	
Key slot connector	Terminal	(-)		
M40	1	Ground	Battery voltage	
IVI T O	5	Ground	Dattery Voltage	



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace key slot power supply circuit.

2.CHECK KEY SLOT GROUND CIRCUIT

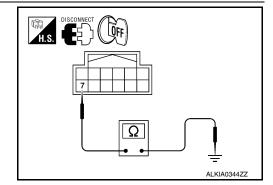
Check continuity between key slot connector and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot ground circuit.



3. CHECK KEY SLOT CIRCUIT

1. Disconnect BCM connector.

KEY SLOT

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check continuity between BCM connector and key slot connector.

BCM connector	Terminal	Key slot con- nector	Terminal	Continuity
A: M18	29		11	
B: M19	68	C: M40	2	Yes
D. W19	69		3	

DISCONNECT C

A

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B

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3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	29		
B: M19	68	Ground	No
	69		

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness between BCM and key slot.

4. CHECK KEY SLOT

Refer to DLK-297, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace key slot.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204818

1. CHECK KEY SLOT

Check key slot.

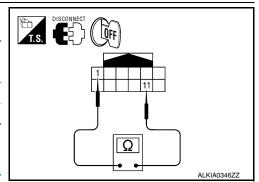
NO

Terminal		Condition	Continuity	
Ke	y slot	Condition	Continuity	
1	11	Intelligent Key inserted	Yes	
1	11	Intelligent Key removed	No	

Is the inspection result normal?

YES >> Inspection End.

>> Replace key slot. Refer to <u>SEC-432</u>, "Removal and Installation".



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KEY CYLINDER SWITCH

Description INFOID.000000004204819

For vehicles equipped with LH and RH anti-pinch system, the main power window and door lock/unlock switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signal.

For vehicles equipped with LH anti-pinch system only, the front door lock assembly LH (key cylinder switch) transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:0000000004204820

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to <u>DLK-227</u>, "Work Flow".

Monitor item	Co	ndition	
KEY CYL LK-SW	Lock	: ON	
RET CTE EN-SW	Neutral / Unlock	: OFF	
KEY CYL UN-SW	Unlock	: ON	
RET CTL UN-SW	Neutral / Lock	: OFF	

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> With LH and RH anti-pinch, refer to <u>DLK-298</u>. "<u>Diagnosis Procedure (With LH and RH Anti-Pinch)</u>".

NO >> With LH anti-pinch only, refer to <u>DLK-299</u>, "<u>Diagnosis Procedure (With LH Anti-Pinch Only)</u>".

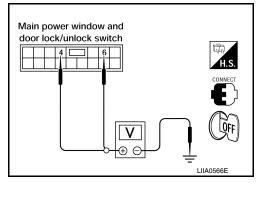
Diagnosis Procedure (With LH and RH Anti-Pinch)

INFOID:0000000004204821

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between main power window and door lock/ unlock switch connector and ground.

Terminals					
(+)			IZ	Voltage (V)	
Main power window and door lock/unlock switch connector		(-)	Key position	(Approx.)	
	4		Lock	0	
D7		Ground	Neutral / Unlock	5	
D1	6		Unlock	0	
			Neutral / Lock	5	



Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to <u>DLK-445</u>, "FRONT DOOR <u>LOCK</u>: Removal and Installation".

NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect main power window and door lock/unlock switch connector and front door lock assembly LH (key cylinder switch) connector.

KEY CYLINDER SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check continuity between main power window and door lock/ unlock switch connector and front door lock assembly LH (key cylinder switch) connector.

Main power window and door lock/unlock switch connector	Terminal	Front door lock assembly LH (key cylinder switch) connector	Terminal	Continuity
A: D7	4	B: D10	6	Yes
A. DI	6	Б. D10	5	162

Check continuity between main power window and door lock/ unlock switch connector and ground.

	H.S. DISCONNECT OFF	
	A B 6 5 5 5 6	
	4,6	
	Ω	
Į	ALKIA0347ZZ	

Power window main switch connector	Terminal		Continuity
A: D7	4	Ground	No
А. D1	6	-	INO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D10	4		Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

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4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to <u>DLK-300</u>, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front door lock assembly LH (key cylinder switch). Refer to DLK-445, "FRONT DOOR LOCK: Removal and Installation".

Diagnosis Procedure (With LH Anti-Pinch Only)

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Turn ignition switch ON.

Check voltage between BCM connector and ground.

	Terminals				
(+)	(+)		Key position	Voltage (V) (Approx.)	
BCM connector	Terminal	(–)		(/ (pp. 6/)	
	56		Lock	0	
M18	30	Ground	Neutral / Unlock	5	
WTO	34		Unlock	0	
			Neutral / Lock	5	

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INFOID:0000000004204822

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to <u>DLK-445</u>, "FRONT DOOR <u>LOCK</u>: Removal and Installation".

NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect front door lock assembly LH (key cylinder switch) connector.
- Check continuity between front door lock assembly LH (key cylinder switch) connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D10	4		Yes

Continuity Yes Ω

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3.check door key cylinder signal circuit

- Disconnect BCM connector M18.
- Check continuity between front door lock assembly LH (key cylinder switch) connector and BCM connector M18.

Front door lock assembly LH connector	Terminal	BCM connector	Terminal	Continuity
A: D10	5	B: M18	34	Yes
A. D10	6	D. IVI IO	56	168

Check continuity between front door lock assembly LH (key cylinder switch) connector and ground.

T.S. COFF	H.S.
A 34 56 5	B
<u>5,6</u> <u>34,56</u>	,
<u> </u>	ALKIA0350ZZ

Front door lock assembly LH connector	Terminal		Continuity
A: D10	5	Ground	No
	6		INO

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-300, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front door lock assembly LH (key cylinder switch). Refer to <u>DLK-445, "FRONT DOOR LOCK</u>: Removal and Installation".

Component Inspection

INFOID:0000000004204823

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

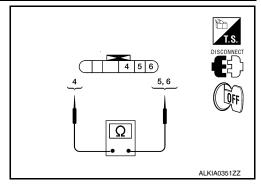
KEY CYLINDER SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check front door lock assembly LH (key cylinder switch).

Term	ninal		
Front door lock assembly LH (key cylinder switch) connector		Key position	Continuity
_		Unlock	Yes
5	4	Neutral / Lock	No
6	4	Lock	Yes
		Neutral / Unlock	No



Is the inspection result normal?

- YES >> Key cylinder switch is OK.
- NO >> Replace front door lock assembly LH (key cylinder switch). Refer to <u>DLK-445</u>, "<u>FRONT DOOR LOCK</u>: Removal and Installation".

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UNLOCK SENSOR

Description INFOID:000000004204825

Detects door lock condition of driver door.

Component Function Check

INFOID:0000000004204826

1. CHECK FUNCTION

(P)With CONSULT-III

Check unlock sensor UNLK SEN-DR in "Data Monitor" mode.

Monitor item	Condition
UNLK SEN-DR	Front door lock (driver side) LOCK: OFF
ONER SEIN-DIX	Front door lock (driver side) UNLOCK: ON

Is the inspection result normal?

YES >> Unlock sensor is OK.

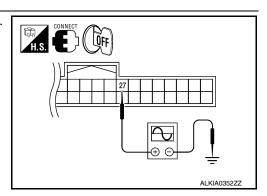
NO >> Refer to <u>DLK-302</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204827

1. CHECK UNLOCK SENSOR POWER SUPPLY

Check signal between BCM connector and ground with oscilloscope.



	Terminals			Mallaca AA	
(+)		()	Front door lock assembly LH condition	Voltage (V) (Approx.)	
BCM connector	Terminal	(–)		() ;	
M18	27	Ground	Locked	(V) 15 10 5 0 10 ms JPMIA0011GB	
			Unlocked	0	

Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

2. CHECK UNLOCK SENSOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and front door lock assembly LH connector.

UNLOCK SENSOR

< COMPONENT DIAGNOSIS >

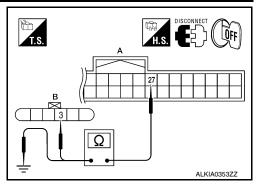
[SEDAN WITH INTELLIGENT KEY]

3. Check continuity between BCM connector and front door lock assembly LH connector.

BCM connector	Terminal	Front door lock assem- bly LH connector	Terminal	Continuity
A: M18	27	B: D10	3	Yes

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M18	27	Ground	No



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and front door lock assembly LH.

3.check unlock sensor ground circuit

Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D10	4		Yes

Is the inspection result normal?

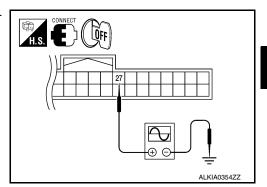
YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM harness connector.
- Check signal between BCM connector and ground with oscilloscope.

Terminals				
(+)		()	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)	() ,	
M18	27	Ground	(V) 15 10 5 0 JPMIA0011GB	



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to <u>BCS-100</u>, "Removal and Installation"

5. CHECK UNLOCK SENSOR

Refer to DLK-304, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace front door lock assembly LH. Refer to <u>DLK-445</u>, "<u>FRONT DOOR LOCK</u>: <u>Removal and Installation</u>".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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>> Inspection End.

Component Inspection

INFOID:0000000004204828

1. CHECK UNLOCK SENSOR

Check unlock sensor.

Terminal		Front door lock assembly LH	Continuity	
Front door lock	assembly LH	condition	Continuity	
3	1	Unlock	Yes	
	3 4	Lock	No	

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Is the inspection result normal?

YES >> Inspection End.

NO

>> Replace front lock assembly LH. Refer to <u>DLK-445</u>. "FRONT DOOR LOCK: Removal and Installation".

TRUNK LID OPENER SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

TRUNK LID OPENER SWITCH

Description INFOID:0000000004204829

Transmits trunk lid open signal to BCM.

Component Function Check

1. CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Does trunk lid opener cancel switch turn ON (CANCEL)?

>> Turn off trunk lid opener cancel switch. Yes

No >> GO TO 2

2.check function

(P) With CONSULT-III

Check trunk lid opener switch TR/BD OPEN SW in Data Monitor mode with CONSULT-III.

· When trunk lid opener switch is turned to "ON".

Monitor item	Condition
TR/BD OPEN SW	Trunk lid opener switch is pressed: ON
HVBD OF LIN SW	Trunk lid opener switch is released: OFF

Is the inspection result normal?

YES >> Trunk lid opener switch is OK.

NO >> Refer to DLK-305, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK TRUNK LID OPEN INPUT SIGNAL

- Remove Intelligent Key from key slot.
- Turn on trunk lid opener cancel switch.
- Check voltage between BCM connector and ground.

	Terminals			
(+)			Condition of trunk lid	Voltage (V)
BCM connector	Terminal	(-)	opener switch	(Approx.)
M21	147	Ground	ON (press and hold)	0
IVIZI	147	Ground	OFF (release)	Battery voltage

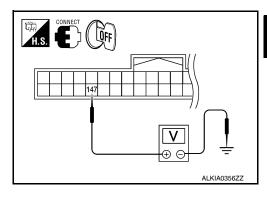
Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2.check trunk lid opener switch circuit

Disconnect BCM connector.



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TRUNK LID OPENER SWITCH

< COMPONENT DIAGNOSIS >

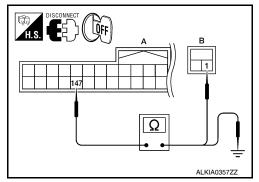
[SEDAN WITH INTELLIGENT KEY]

Check continuity between BCM connector and trunk lid opener switch connector.

BCM connector	Terminal	Trunk lid opener switch connector	Terminal	Continuity
A: M21	147	B: M75	1	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M21	147		No



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3.check trunk lid opener switch ground circuit

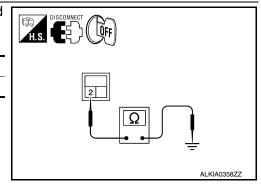
Check continuity between trunk lid opener switch connector and ground.

	Trunk lid opener switch	Terminal	Ground	Continuity
_	M75	2	Oround	Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.



4. CHECK TRUNK LID OPENER SWITCH

Refer to DLK-306, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace trunk lid opener switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

1.CHECK TRUNK LID OPENER SWITCH

1. Turn ignition switch OFF.

Component Inspection

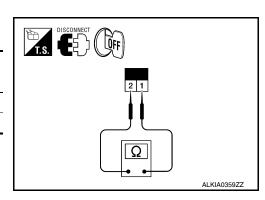
- 2. Disconnect trunk lid opener switch connector.
- 3. Check continuity between trunk lid opener switch connector.

Terminal Trunk lid opener switch		Condition	Continuity	
		Condition		
1	2	ON (press and hold)	Yes	
	2	OFF (release)	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.



INFOID:0000000004204832

TRUNK LID OPENER CANCEL SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

TRUNK LID OPENER CANCEL SWITCH

Description INFOID:000000004204833

Cancels trunk lid open operation.

Component Function Check

INFOID:0000000004204834

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1. CHECK FUNCTION

(P) With CONSULT-III

Check trunk lid opener cancel switch TR CANCEL SW in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
TR CANCEL SW	Trunk lid opener cancel switch is turned to "ON": ON	
IN CANCEL 3W	Trunk lid opener cancel switch is turned to "OFF": OFF	

Is the inspection result normal?

YES >> Trunk lid opener cancel switch is OK.

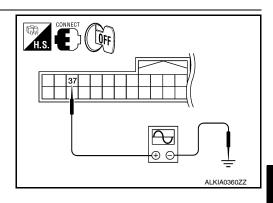
NO >> Refer to <u>DLK-307</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204835

1. CHECK TRUNK LID OPENER CANCEL SIGNAL

Check voltage between BCM connector and ground.



Terminals					
((+)		Condition of trunk lid opener	Voltage (V)	
BCM connector	Terminal	(-)	cancel switch	(Approx.)	
			ON (press and hold)	0	
M18	37	Ground	OFF (cancel)	(V) 15 10 5 0 10 ms JPMIA0012GB	

Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2. CHECK TRUNK LID OPENER CANCEL SWITCH CIRCUIT

Disconnect BCM connector.

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TRUNK LID OPENER CANCEL SWITCH

< COMPONENT DIAGNOSIS >

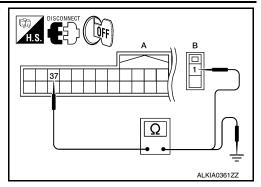
[SEDAN WITH INTELLIGENT KEY]

Check continuity between BCM connector and trunk lid opener cancel switch connector.

BCM connector	Terminal	Trunk lid opener cancel switch connector	Terminal	Continuity
A: M18	37	B: M74	1	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity	
A: M18	37	Giouna	No	



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

${f 3.}$ CHECK TRUNK LID OPENER CANCEL SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch connector and ground.

Trunk lid opener cancel switch	Terminal	Ground	Continuity
M74	2		Yes

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Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER CANCEL SWITCH

Refer to DLK-308, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace trunk lid opener cancel switch.

CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK TRUNK LID OPENER CANCEL SWITCH

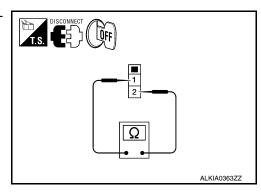
- 1. Disconnect trunk lid opener cancel switch connector.
- 2. Check continuity between trunk lid opener cancel switch terminals.

Terminal Trunk lid opener switch		Condition	Continuity	
		Condition		
1	2	ON	Yes	
	2	OFF (cancel)	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener cancel switch.



INFOID:0000000004204836

TRUNK ROOM LAMP SWITCH

Description INFOID:000000004204837

Detects trunk open/close condition.

Component Function Check

INFOID:0000000004204838

INFOID:0000000004204839

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1. CHECK FUNCTION

(I) With CONSULT-III

Check TRNK/HAT MNTR in Data Monitor mode with CONSULT-III.

Monitor item	Condition		
TRNK/HAT MNTR	OPEN	: ON	
TIMOTAL WINTE	CLOSE	: OFF	

Is the inspection result normal?

YES >> Trunk room lamp switch is OK.

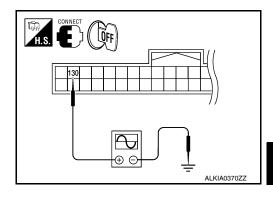
NO >> Refer to <u>DLK-309</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK TRUNK LAMP SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between BCM connector and ground.

	Terminals			
(+	(+)		Trunk	Voltage (V)
BCM connector	Terminal	(–)	condition	(Approx.)
			OPEN	0
M21	130	Ground	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB



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Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

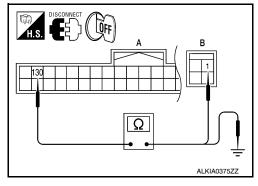
2. CHECK TRUNK LAMP SWITCH CIRCUIT

1. Disconnect BCM and trunk lamp switch and trunk release solenoid connectors.

2. Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
A: M21	130	B: T7	2	Yes

3. Check continuity between BCM connector and ground.



< COMPONENT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
A: M21	130	Ground	No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk lamp switch and trunk release solenoid.

3.CHECK TRUNK LAMP SWITCH GROUND CIRCUIT

Check continuity between trunk lid lock assembly connector and ground.

Trunk lamp switch and trunk release solenoid connector	Terminal	Ground	Continuity
T7	3		Yes

H.S. DISCONNECT OFF

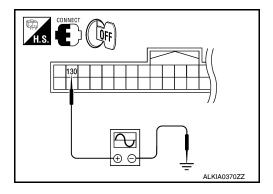
Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace trunk lamp switch and trunk release solenoid ground circuit.

4. CHECK BCM OUTPUT SIGNAL

- 1. Insure trunk remains closed during this step.
- 2. Connect BCM connector.
- 3. Check voltage between BCM connector and ground.



	Terminals	V # 00		
(+)		()	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)	() ,	
M21	130	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB	

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

5. CHECK TRUNK ROOM LAMP SWITCH

Refer to DLK-311, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

TRUNK ROOM LAMP SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

NO >> Replace trunk lamp switch and trunk release solenoid.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK TRUNK LAMP SWITCH

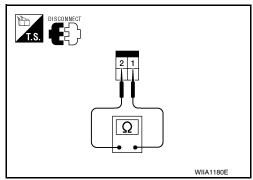
- 1. Turn ignition switch OFF.
- 2. Disconnect trunk lamp switch and trunk release solenoid connector.
- 3. Check trunk lamp switch.

Terminal			
Trunk lamp switch and trunk release solenoid		Trunk condition	Continuity
2 3		OPEN	Yes
2	3	CLOSE	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lamp switch and trunk release solenoid.



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INFOID:0000000004204840

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Revision: February 2010 DLK-311 2009 Altima

DOOR REQUEST SWITCH

[SEDAN WITH INTELLIGENT KEY]

DOOR REQUEST SWITCH

Description INFOID:000000004204841

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:0000000004204842

1. CHECK FUNCTION

(I) With CONSULT-III

Check door request switch REQ SW-DR, REQ SW-AS in Data Monitor mode.

Monitor item	Condition
REQ SW-DR	Door request switch is pressed : ON
REQ SW-AS	Door request switch is released : OFF

Is the inspection result normal?

YES >> Door request switch is OK.

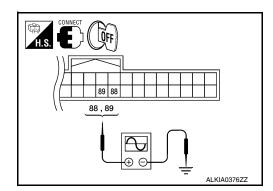
NO >> Refer to <u>DLK-312</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204843

1. CHECK DOOR REQUEST SWITCH OUTPUT SIGNAL

- Turn ignition switch OFF.
- 2. Check voltage between BCM harness connector and ground.



Terminals					
(+)		()	Door request switch Condition	Voltage (V) (Approx.)	
E	BCM connector	Terminal	(–)		(, , , , , , , , , , , , , , , , , , ,
				Pressed	0
M19	Door request switch (driver side)	89		Released	(V) 15 10 5 0 20 ms JMKIA0059GB
WITS			Ground	Pressed	0
	Door request switch (passenger side)	88		Released	(V) 15 10 5 0 20 ms

Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

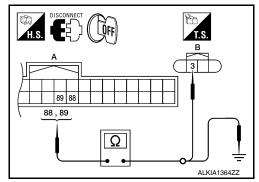
2. CHECK DOOR REQUEST SWITCH CIRCUIT

- Disconnect BCM and front outside handle connector.
- 2. Check continuity between BCM connector and front outside handle connector.

BCM connector	Terminal	Front outside handle connector	Terminal	Continuity
A: M19 89		B: D6 (driver side)	river side) 3 Yes	
		B: D106 (passenger side)	3	162

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M19	89	Ground	No
A. W19	88		NO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and front outside handle.

3.check door request switch ground circuit

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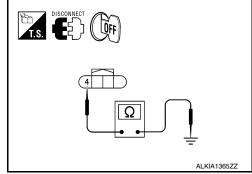
DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check continuity between front outside handle connector and ground.

Front outside handle connector	Terminal		Continuity
D6 (driver side)		Ground	
D106 (passenger side)	4		Yes



Is the inspection result normal?

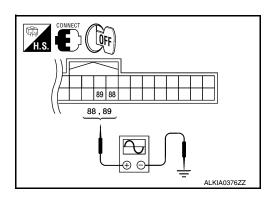
YES >> GO TO 4

NO >> Repair or replace front outside handle ground circuit.

4. CHECK BCM OUTPUT SIGNAL

- 1. Connect BCM connector.
- 2. Check voltage between BCM connector and ground.

Terminals				
(+)		()	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)	(
	89			
M19	88	Ground	(V) 15 10 5 0 20 ms JMKIA0059GB	



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

5. CHECK DOOR REQUEST SWITCH

Refer to DLK-314, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace malfunctioning front outside handle.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204844

1. CHECK DOOR REQUEST SWITCH

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

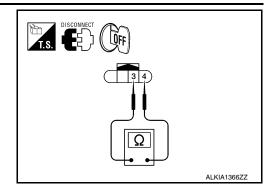
Check front outside handle (request switch).

Terminal		Door request switch	Continuity
Front outside handle (request switch)		condition	Continuity
3 4	Pressed	Yes	
	4	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunction front outside handle.



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TRUNK OPENER REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

TRUNK OPENER REQUEST SWITCH

Description INFOID:000000004204845

Performs trunk lid open request when it is pressed.

Component Function Check

INFOID:0000000004204846

1. CHECK FUNCTION

(P)With CONSULT-III

Check trunk opener request switch REQ SW -BD/TR in Data Monitor mode.

Monitor item	Condition
REQ SW -BD/TR	Trunk opener request switch is pressed : ON
וורמ איז יסטיווג	Trunk opener request switch is released : OFF

Is the inspection result normal?

YES >> Trunk opener request switch is OK.

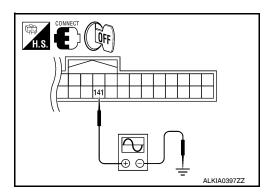
NO >> Refer to <u>DLK-316</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204847

1. CHECK TRUNK OPENER REQUEST SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check voltage between BCM connector and ground.



	Terminals			V # 40	
(+)		()	Trunk lid opener request switch condition	Voltage (V) (Approx.)	
BCM connector	Terminal	(–)		(
			Pressed	0	
M21	141	Ground	Released	(V) 15 10 5 0 10 ms JPMIA0016GB	

Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

2.check trunk opener request switch circuit

1. Disconnect BCM and trunk opener request switch connector.

TRUNK OPENER REQUEST SWITCH

< COMPONENT DIAGNOSIS >

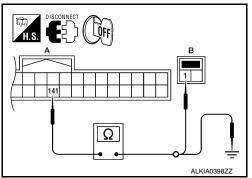
[SEDAN WITH INTELLIGENT KEY]

Check continuity between BCM connector and trunk opener request switch connector.

BCM connector	Terminal	Trunk opener request switch connector	Terminal	Continuity
A: M21	141	B: B33	1	Yes

Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M21	141	Glound	No



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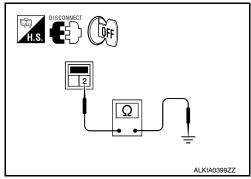
Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk opener request switch.

3.check trunk opener request switch ground circuit

Check continuity between trunk opener request switch connector and ground.



Trunk opener request switch connector	Terminal	Ground	Continuity
B33	2		Yes

Is the inspection result normal?

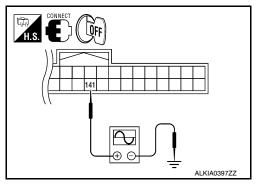
YES >> GO TO 4

NO >> Repair or replace trunk opener request switch ground circuit.

4.CHECK BCM OUTPUT SIGNAL

- Connect BCM connector.
- Check voltage between BCM connector and ground.

Te	erminals		Vallage (V)	
(+)		()	Voltage (V) (Approx.)	
BCM connector Terminal		(–)		
M21	141	Ground	(V) 15 10 5 0 10 ms JPMIA0016GB	



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

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TRUNK OPENER REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

5. CHECK TRUNK OPENER REQUEST SWITCH

Refer to DLK-318, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk opener request switch.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204848

1. CHECK TRUNK OPENER REQUEST SWITCH

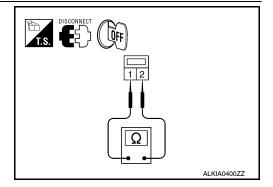
Check trunk opener request switch.

Terminal Trunk opener request switch		Trunk opener request switch	Continuity
		condition	Continuity
1	2	Pressed	Yes
	2	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk opener request switch.



DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004204849

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Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000004204850

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

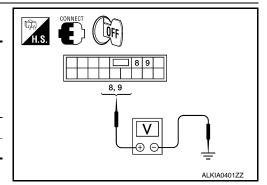
NO >> Refer to <u>DLK-319</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE : Diagnosis Procedure

1. CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals			0 1111 1	
(+)			Condition of door lock and	Voltage (V)
BCM connector	Terminal	(–) unlock switch		(Approx.)
M17	8	Ground	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
IVIII	9	Ground	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$



Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

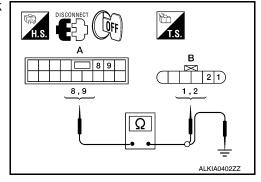
2.check door lock actuator circuit

- Turn ignition switch OFF.
- 2. Disconnect BCM and front door lock actuator driver side connector.
- 3. Check continuity between BCM connector and front door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
A: M17	8	B: D10	1	Yes
A. WIT	9	D. D10	2	103

4. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A· M17	8	Ground	No
A. WH	9	Ground	140



Is the inspection result normal?

YES >> Replace front door lock actuator LH.

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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Revision: February 2010 DLK-319 2009 Altima

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000004204852

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE: Component Function Check

INFOID:0000000004204853

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-320</u>, "PASSENGER SIDE : <u>Diagnosis Procedure"</u>.

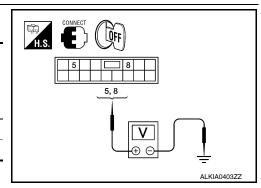
PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000004204854

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals			O a altitude of		
(+)			Condition of door lock and	Voltage (V) (Approx.)	
BCM connector	Terminal	(–) unlock switch			
M17	8	Ground	Lock	$0 \rightarrow Battery voltage \rightarrow 0$	
IVI I 7	5	Giodila	Unlock	$0 \rightarrow Battery voltage \rightarrow 0$	



Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM and front door lock actuator RH connectors.
- Check continuity between BCM connector and front door lock actuator RH.

BCM connector	Terminal	Front door lock actuator RH connector	Terminal	Continuity
A: M17	8	B: D108	5	Yes
A. WH	5	D. D100	6	163

3. Check continuity between BCM connector and ground.

BCM connector	Terr	minal	Continuity
A: M17	8	Ground	No
A. WH	5	Giodila	110

DISCONNECT OFF T.S. A B 6 5 7.8 ALKIA0404ZZ

Is the inspection result normal?

YES >> Replace front door lock actuator RH.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

REAR LH

REAR LH: Description

INFOID:0000000004204855

Locks/unlocks the door with the signal from BCM.

REAR LH: Component Function Check

1. CHECK FUNCTION

- Use CONSULT-III to perform Active Test ("DOOR LOCK").
- Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

>> Refer to DLK-321, "REAR LH: Diagnosis Procedure".

REAR LH: Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

	Terminals				
(+)			Condition of door lock and	Voltage (V)	
BCM connector	Terminal	(–)	unlock switch	(Approx.)	
M17	8	Ground	Lock	$0 \rightarrow Battery voltage \rightarrow 0$	
IVI I 7	10	Giodila	Unlock	$0 \rightarrow Battery voltage \rightarrow 0$	

Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM and rear door lock actuator LH connectors.
- Check continuity between BCM connector and rear door lock actuator LH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
A: M17	8	B: D205	1	Yes
A. WITT	10	B. D203	2	163

Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
A. WIT	10	Glound	INO

2 1) 8,10 1,2 Ω ALKIA0406ZZ

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Is the inspection result normal?

YES >> Replace rear door lock actuator LH.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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< COMPONENT DIAGNOSIS >

REAR RH

REAR RH : Description

INFOID:0000000004204858

Locks/unlocks the door with the signal from BCM.

REAR RH: Component Function Check

INFOID:0000000004204859

1. CHECK FUNCTION

- Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-322</u>, "<u>REAR RH</u>: <u>Diagnosis Procedure</u>".

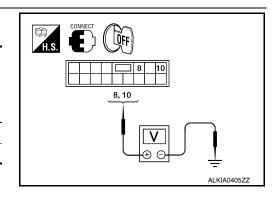
REAR RH: Diagnosis Procedure

INFOID:0000000004204860

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

	Terminals			
(-	+)	Condition of door lock and		Voltage (V)
BCM connector	Terminal	(-)	unlock switch	(Approx.)
M17	8	Ground	Lock	$0 \rightarrow Battery voltage \rightarrow 0$
	10	Giodila	Unlock	$0 \rightarrow Battery voltage \rightarrow 0$



Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

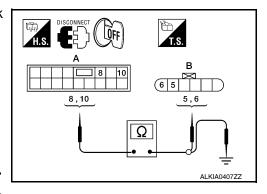
2. CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM and rear door lock actuator RH connectors.
- 2. Check continuity between BCM connector and rear door lock actuator RH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
A: M17	8	B: D305	5	Yes
A. WIT	10	В. 0303	6	165

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
A. W17	10	Ground	NO



Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> Repair or replace harness.

3.check intermittent incident

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

TRUNK LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

TRUNK LID OPENER ACTUATOR

Description INFOID:0000000004204861

Performs trunk lid open with signal from BCM.

Component Function Check

1. CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Is trunk lid opener cancel switch turned OFF (CANCEL)?

>> Turn on trunk lid opener cancel switch. Yes

No >> GO TO 2.

2. CHECK FUNCTION

- Perform Active Test TRUNK/GLASS HATCH with CONSULT-III.
- Touch "OPEN" and check that trunk lid opens.

Is the inspection result normal?

YES >> Trunk lid opener actuator is OK.

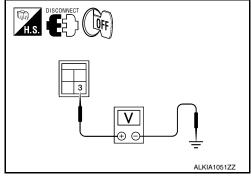
>> Refer to DLK-323, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK OUTPUT CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect trunk lamp switch and trunk release solenoid connector.
- Check voltage between trunk lamp switch and trunk release solenoid connector and ground.

Ter	minals		Condition of	
(+)				
Trunk lamp switch and trunk release solenoid connector	Terminal	(–)	trunk lid opener switch	Voltage (V) (Approx.)
T4	3	Ground	$OFF \to ON$	$0 \rightarrow \text{Battery voltage} \rightarrow 0$



Is the inspection result normal?

>> GO TO 4 YES NO >> GO TO 2

$\mathbf{2}.$ CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Ter	minals		Condition of	
(+)		(-)	trunk lid opener	Voltage (V) (Approx.)
BCM connector	Terminal	(-) switch		, , ,
M20	103	Ground	$OFF \to ON$	$0 \rightarrow \text{Battery voltage} \rightarrow 0$

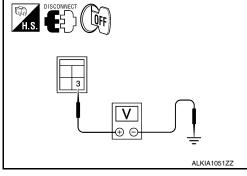
Is the inspection result normal?

YES >> Repair or replace harness.

NO >> GO TO 3

3.CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

Disconnect BCM.



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TRUNK LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

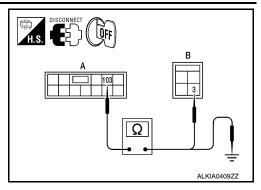
[SEDAN WITH INTELLIGENT KEY]

2. Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
A: M20	103	B: T4	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M20	103	Ground	No



Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-100, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER GROUND CIRCUIT

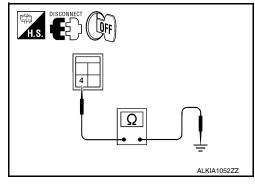
Check continuity between trunk lamp switch and trunk release solenoid connector and ground.

Trunk lamp switch and trunk release solenoid connector	Terminal		Continuity
T4	4	Ground	Yes

Is the inspection result normal?

YES >> Replace trunk lamp switch and trunk release solenoid.

NO >> Repair or replace harness.



INTELLIGENT KEY WARNING BUZZER

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

INTELLIGENT KEY WARNING BUZZER

Description

Answers back and warns for an inappropriate operation.

Component Function Check

1.check function

(P)With CONSULT-III

Check Intelligent Key warning buzzer OUTSIDE BUZZER in Active Test mode.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer (engine room) is OK.

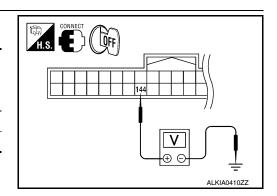
NO >> Refer to <u>DLK-325</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check voltage between BCM connector and ground.

	erminals			Valtara (V)
(+)		(-)	Warning buzzer op- eration condition	Voltage (V) (Approx.)
BCM connector	Terminal	(-)		, , ,
M21	144	Ground	ON	0
IVIZI	177	Ground	OFF	Battery voltage



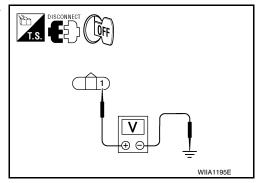
Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect Intelligent Key warning buzzer connector.
- 3. Check voltage between Intelligent Key warning buzzer connector and ground.

(-	+)		Voltage (V)
Intelligent Key warning buzzer connector	warning buzzer Terminal		(Approx.)
E73	1	Ground	Battery voltage



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace Intelligent Key warning buzzer power supply circuit.

3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

1. Disconnect BCM connector.

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INTELLIGENT KEY WARNING BUZZER

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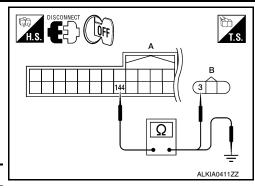
[SEDAN WITH INTELLIGENT KEY]

2. Check continuity between BCM connector and Intelligent Key warning buzzer connector.

A: BCM connector	Terminal	Intelligent Key warning buzzer connector	Terminal	Continuity
M21	144	B: E73	3	Yes

3. Check continuity between BCM connector and ground.

	nnector Terminal Continuity Ground
A: M21 144	



Is the inspection result normal?

OK >> GO TO 4

NG >> Repair or replace harness between BCM and Intelligent Key warning buzzer.

4. CHECK INTELLIGENT KEY WARNING BUZZER

Check DLK-326, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace Intelligent Key warning buzzer.

5. CHECK INTERMITTENT INCIDENT

Check GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004204867

1. CHECK INTELLIGENT KEY WARNING BUZZER

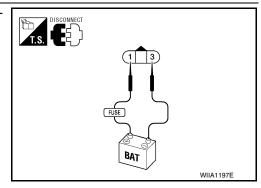
Connect battery power supply to Intelligent Key warning buzzer terminals 1 and 3, and check the operation.

1 (BAT+) - 3 (BAT-) : the buzzer sounds

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace Intelligent Key warning buzzer.



OUTSIDE KEY ANTENNA

[SEDAN WITH INTELLIGENT KEY]

OUTSIDE KEY ANTENNA

Description INFOID:0000000004204868

Detects whether Intelligent Key is outside the vehicle.

Integrated in front outside handle (driver side, passenger side) and installed in rear bumper.

Component Function Check

1. CHECK DOOR REQUEST SWITCH

Check that door request switch operates normally.

Is the inspection result normal?

YES >> GO TO 2

NO >> Inspect door request switch. Refer to <u>DLK-312</u>, "Component Function Check".

2. CHECK FUNCTION

Be sure that Intelligent Key is in each outside key antenna detection range.

Does door lock/unlock when each request switch is pressed?

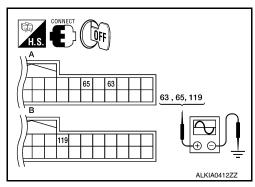
YES >> Outside key antenna is OK.

NO >> Refer to <u>DLK-327</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

- 1. Turn ignition switch OFF.
- Check signal between BCM connector and ground with oscilloscope.



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	Term	ninals				0: 1
(+)		()	Condition		Signal (Reference value.)	
BCM	connector	Terminal	(–)			(
	Driver side	65				
A: M19	Passenger side	63		Request switch	When Intelligent Key is in the antenna detection area.	(V) 15 10 5 0 1 s JMKIA0061GB
B: M21	Rear bumper	119	Ground	is pushed	When Intelligent Key is not in the antenna detection area.	(V) 15 10 5 0 1 s JMKIA0060GB

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

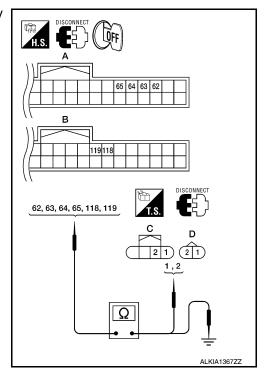
2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM and front outside handle connector.
- 2. Check continuity between BCM connector and outside key antenna connector.

BCM connector	Terminal	Outside key antenna connector	Terminal	Continuity
	65	C: D6 (driver side)	1	
A: M19	64	C: D106 (passenger side)	2	
A. WITS	63		1	Yes
	62		2	165
B: M21	119	D: R46 (rear humper)	1	
D. IVIZ I	118	D: B46 (rear bumper)	2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity	
	62			
A: M19	63		No	
A. WITS	64	Ground		
	65			
B: M21	118			
B: WIZ I	119			



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and outside key antenna.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

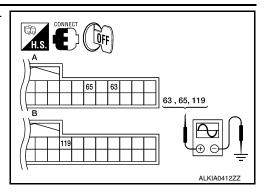
- 1. Replace outside key antenna. (new antenna or other antenna)
- 2. Connect BCM and outside key antenna connector.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check signal between BCM connector and ground with oscilloscope.



	Term	inals				
(+)		()	Condition		Signal (Reference value.)	
BCM	connector	Terminal	(–)			(
	Driver side	65				
A: M19	Passenger side	63	Ground	Door request switch is	When Intelligent Key is in the antenna detection area.	(V) 15 10 5 0 JMKIA0061GB
B: M21	Rear bumper	119	Ciodila	pushed	When Intelligent Key is not in the antenna detection area.	(V) 15 10 5 0 1 s

Is the inspection result normal?

YES >> Replace outside key antenna.

NO >> GO TO 4

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

REMOTE KEYLESS ENTRY RECEIVER

Description INFOID:000000004204871

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:0000000004204872

1. CHECK FUNCTION

(P)With CONSULT-III

Check remote keyless entry receiver RKE OPE COUN1 in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key.

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

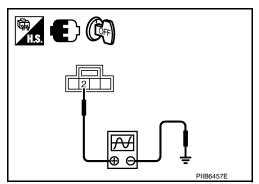
NO >> Refer to <u>DLK-330</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004204873

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

- Turn ignition switch OFF.
- 2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.



Ter	Terminals			
(+)			Condition	Signal
Remote keyless entry receiver connector	Terminal	(–)		(Reference value)
M27	2	Ground	Waiting (All doors closed)	(V) 15 10 5 0 1 ms JMKIA0064GB
	_		When signal is received (All doors closed)	(V) 15 10 5 1 ms JMKIA0065GB

Is the inspection result normal?

REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

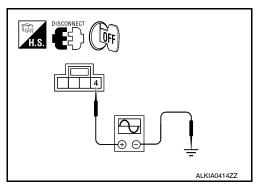
[SEDAN WITH INTELLIGENT KEY]

>> GO TO 7 YES NO >> GO TO 2

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

- Disconnect remote keyless entry receiver connector.
- Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Terminals			
(+)			Signal
Remote keyless entry receiver connector	Terminal	(–)	(Reference value)
M27	4	Ground	(V) 15 10 5 0 1 ms



Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 3

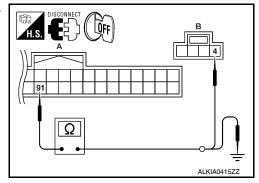
3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

- Disconnect BCM connector.
- 2. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	91	B: M27	4	Yes

Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	91	Ground	No



Is the inspection result normal?

>> Reconnect BCM, GO TO 4

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

$oldsymbol{4}.$ CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

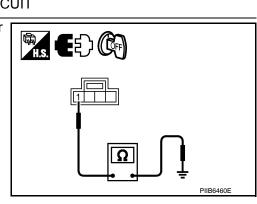
Check continuity between remote keyless entry receiver connector and ground.

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M27	1		Yes

Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 5

${f 5}$.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2



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REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M18	45	B: M27	1	Yes

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

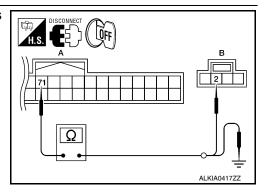
6. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

1. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	71	B: M27	2	Yes

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	One week	Continuity
A: M19	71	Ground	No



Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry.

7. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

INTELLIGENT KEY BATTERY AND FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

INTELLIGENT KEY BATTERY AND FUNCTION

Description INFOID:0000000004204874

The following functions are available when having and carrying the Intelligent Key.

- Door lock/unlock
- Trunk open

Remote control entry function and panic alarm function are available when operating the remote buttons.

Component Function Check

INFOID:0000000004204875

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1.CHECK FUNCTION

(P)With CONSULT-III

Check remote keyless entry receiver RKE OPE COUN1 in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating with the Intelligent Key.

Is the inspection result normal?

YES >> Intelligent Key is OK.

>> Refer to <u>DLK-333</u>, "Diagnosis Procedure". NO

Diagnosis Procedure

INFOID:0000000004496028

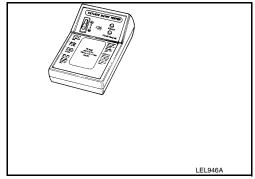
1.CHECK INTELLIGENT KEY FUNCTION

Check Intelligent Key function using Remote Keyless Entry Tester J-43241.

Does the test pass?

>> Intelligent Key is OK. YES

NO >> GO TO 2



2. CHECK INTELLIGENT KEY COMPONENTS

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

2. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The Intelligent Key is water-resistant. However, if it does get wet, immediately wipe it dry.
- Remove the Intelligent Key battery.

CAUTION:

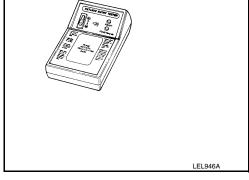
- · Keep dirt, grease, and other foreign materials off the electrode contact area.
- 4. Visually inspect Intelligent Key internal components.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace malfunctioning parts.

 ${f 3}.$ check intelligent key battery



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INTELLIGENT KEY BATTERY AND FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

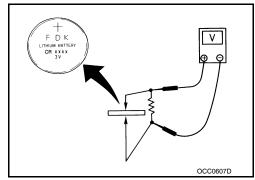
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within specification?

YES >> Intelligent Key battery is OK. Check remote keyless entry receiver. Refer to <u>DLK-107</u>, "Component Function Check".

NO >> GO TO 4



4. REPLACE INTELLIGENT KEY BATTERY

- 1. Replace the Intelligent Key battery.
- 2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

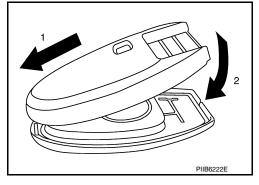
CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- 3. After replacing the battery, check that all Intelligent Key functions work properly.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Check remote keyless entry receiver. Refer to <u>DLK-107.</u> "Component Function Check".



KEY SLOT ILLUMINATION

Description INFOID:0000000004204879

Blinks when Intelligent Key insertion is required.

Component Function Check

1. CHECK FUNCTION

With CONSULT-III

Check key slot illumination KEY SLOT ILLUMI in Active Test mode.

Is the inspection result normal?

YES >> Key slot function is OK.

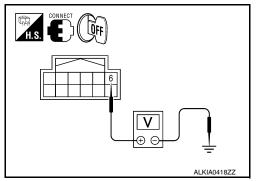
NO >> Refer to <u>DLK-335</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK KEY SLOT ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot connector and ground.

	Terminals				
(+	·)		Condition	Key slot	Voltage (V)
Key slot connector	Terminal	(–)		illumination	(Approx.)
M40	6	Ground	Intelligent Key inserted	OFF	Battery voltage
10140	0	Oround	Intelligent Key removed	ON	0



Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect key slot connector.
- Check voltage between slot connector and ground.

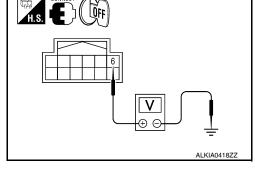
(+)			Voltage (V) (Approx.)	
Key slot connector	Terminal	(-)	(, , , , , , , ,	
M40	1	Ground	Battery voltage	
IVI 4 0	5	Giodila	Dattery voltage	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot power supply circuit.

3.CHECK KEY SLOT GROUND CIRCUIT



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KEY SLOT ILLUMINATION

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

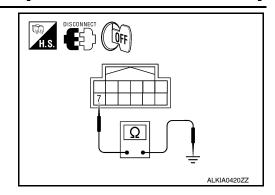
Check continuity between key slot connector and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7	Ground	Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace key slot ground circuit.



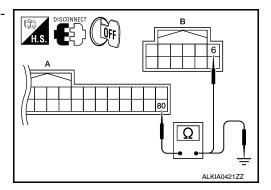
4. CHECK KEY SLOT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and key slot connector.
- Check continuity between BCM connector and key slot connector.

BCM connector	Terminal	Key slot connector	Terminal	Continuity
A: M19	80	B: M40	6	Yes

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	80	Giodila	No



Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness between BCM and key slot.

5. CHECK KEY SLOT

Refer to DLK-297, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace key slot.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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INFOID:0000000004204883

INFOID:0000000004204884

HORN FUNCTION

Description

Perform answer-back for each operation with horn.

Component Function Check

1. CHECK FUNCTION

- Select HORN in "ACTIVE TEST" mode with CONSULT-III.
- 2. Check the horn (high/low) operation.

	Test item		Desc	ription
HORN	ON	Horn relay		ON (for 20 ms)

Is the operation normal?

YES >> Inspection End.

NO >> Refer to <u>DLK-337</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK HORN FUNCTION

Check horn function with horn switch

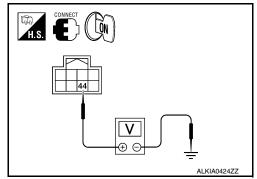
Does the horn sound?

YES >> GO TO 2

NO >> Refer to <u>HRN-8</u>, "Wiring <u>Diagram - Sedan"</u>.

2.CHECK HORN RELAY POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Perform "ACTIVE TEST" ("HORN") with CONSULT-III.
- 3. Using an oscilloscope or analog voltmeter, check voltage between IPDM E/R connector and ground.



IPDM E/R		Ground	Test item		Voltage (V)
Connector	Terminal	Oround	rest item		(Approx.)
E17	44 Ground	nd HORN	ON	Battery voltage → 0 → Battery voltage	
LII	44	Ground	HOKIN	Other than above	Battery voltage

Is the inspection result normal?

YES >> Repair or replace open harness between IPDM E/R and horn relay.

NO >> GO TO 3

3.CHECK HORN RELAY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect IPDM E/R and horn relay connector.

HORN FUNCTION

< COMPONENT DIAGNOSIS >

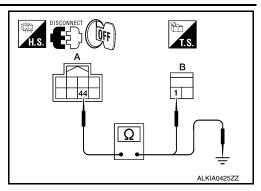
[SEDAN WITH INTELLIGENT KEY]

3. Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPDM E/R		Horn relay		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: E17	44	B: H-1	1	Yes

Check continuity between IPDM E/R harness connector and ground.

IPD	M E/R	Ground	Continuity	
Connector	Terminal	Ground	Continuity	
A: E17	44	Ground	No	



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-48, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

COMBINATION METER DISPLAY FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

COMBINATION METER DISPLAY FUNCTION		А
Description		
Displays each operation method guide and warning for system malfunction.		В
Component Function Check	FOID:0000000004204886	
1.check function		С
With CONSULT-III Check the operation with ("LCD") in the Active Test. In each warring displayed on meter display?		D
Is each warning displayed on meter display? Is the inspection result normal? YES >> Meter display is OK. NO >> Refer to DLK-339, "Diagnosis Procedure".		Е
Diagnosis Procedure	FOID:00000000004204887	F
1. CHECK COMBINATION METER		
Refer to MWI-95, "DTC Index".		G
Is the inspection result normal? YES >> GO TO 2 NO >> Check combination meter. Refer to MWI-38, "Diagnosis Description".		
2.CHECK INTERMITTENT INCIDENT		
Refer to GI-42, "Intermittent Incident".		
>> Inspection End.		.I

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WARNING CHIME FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

WARNING CHIME FUNCTION

Description

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000004204889

1. CHECK FUNCTION

(P)With CONSULT-III

- 1. Check the operation with "INSIDE BUZZER" in the Active Test.
- 2. Touch "TAKE OUT", "KNOB" or "KEY" on screen.

Is the inspection result normal?

YES >> Warning buzzer into combination meter is OK.

NO >> Refer to <u>DLK-340, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000004204890

1. CHECK METER BUZZER CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-179, "Removal and Installation".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

HAZARD FUNCTION < COMPONENT DIAGNOSIS > [SEI	DAN WITH INTELLIGENT KEY]
HAZARD FUNCTION	Α.
Description	INFOID:000000004204891
Perform answer-back for each operation with number of blinks. Component Function Check	B INFOID:000000004204892
1.CHECK FUNCTION	C
Check hazard warning lamp ("FLASHER") in Active Test. Is the inspection result normal? YES >> Hazard warning lamp circuit is OK. NO >> Refer to EXL-132, "Wiring Diagram - Sedan".	D
Diagnosis Procedure	INFOID:000000004204893
1.CHECK HAZARD SWITCH CIRCUIT	
Operate the hazard lights by turning ON the hazard warning switch. Is the inspection result normal?	F
YES >> GO TO 2 NO >> Repair or replace hazard warning switch circuit. Refer to EXL-4 2.CHECK INTERMITTENT INCIDENT	"Work Flow".
Refer to GI-42, "Intermittent Incident".	Н

>> Inspection End.

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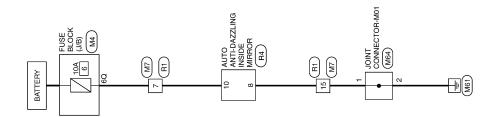
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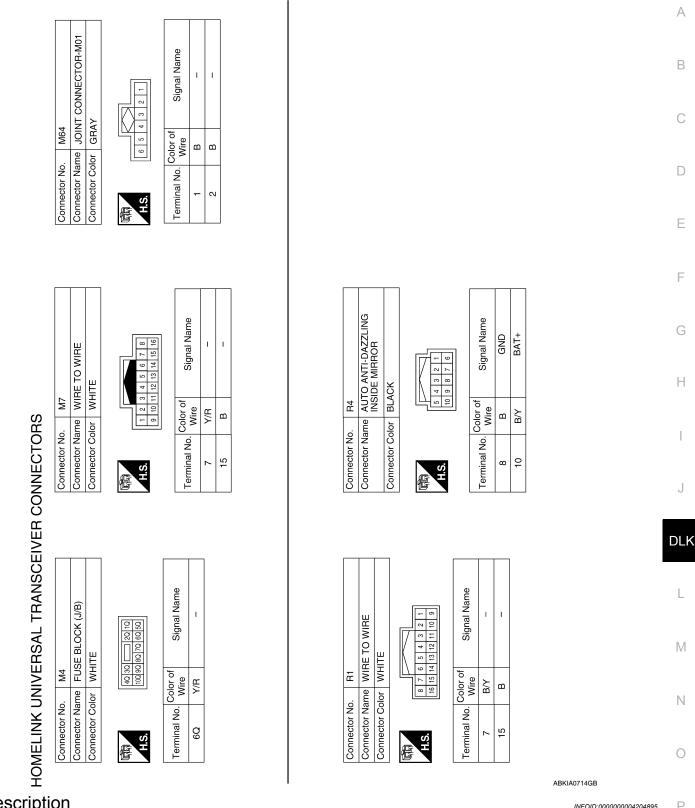
Wiring Diagram



HOMELINK UNIVERSAL TRANSCEIVER

ABKWA0218GB

[SEDAN WITH INTELLIGENT KEY]



Description Р INFOID:0000000004204895

Homelink universal transceiver can store and transmit a maximum of 3 radio signals. Allows operation of garage doors, gates, home and office lighting, entry door locks and security system, etc. Homelink universal transceiver power supply uses vehicle battery, which enables it to maintain every program in case battery is discharged or removed.

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Component Function Check

INFOID:0000000004204896

1. CHECK FUNCTION

Check that system receiver (garage door opener, etc.) operates with original hand-held transmitter.

Is the inspection result normal?

YES >> GO TO 2

NO >> Receiver or hand-held transmitter is malfunctioning.

2. CHECK ILLUMINATE

- 1. Turn ignition switch "OFF".
- Press each of the transmitter buttons and watch for the red light to illuminate with each button.

Is the inspection result normal?

YES >> GO TO 3

NO >> Refer to <u>DLK-344</u>, "<u>Diagnosis Procedure</u>".

3. CHECK TRANSMITTER

Check transmitter with Tool*.

*: For details, refer to Technical Service Bulletin.

Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.

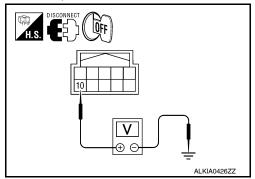
NO >> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to MIR-18. <a href="mailto:"Removal and Installation".

Diagnosis Procedure

INFOID:0000000004204897

1. CHECK POWER SUPPLY

- 1. Disconnect auto anti-dazzling inside mirror (homelink universal transceiver) connector.
- Check voltage between auto anti-dazzling inside mirror (homelink universal transceiver) harness connector and ground.



Auto anti-dazzling inside mirror (Homelink universal transceiver) connector	Terminal		Condition	Voltage (V) (Approx.)
R4	10	Ground	Ignition switch position: LOCK	Battery voltage

Is the inspection result normal?

YES >> GO TO 2

NO >> Check the following.

- 10A fuse [No. 6 located in the fuse block (J/B)]
- Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink universal transceiver).

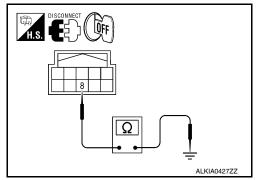
2. CHECK GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Check continuity between auto anti-dazzling inside mirror (homelink universal transceiver) harness connector and ground.

Auto anti-dazzling inside mirror (Homelink universal transceiver) connector	Terminal	Ground	Continuity
R4	8		Yes



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
ED MACHED CM	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED OTOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDAL CIONAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAND OW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LU DE AM CIA/	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CVA/A	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
HEAD LAIVIP SVV Z	Lighting switch 2ND	ON
DACCING CW	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT CW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC SW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD OW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
DOOD SW AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD SW DD	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOD SW DI	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	= ,
DOOR SW-BK	NOTE: This item is displayed, but cannot be monitored.	OFF	_ /
	Other than power door lock switch LOCK	OFF	_
CDL LOCK SW	Power door lock switch LOCK	ON	— E
	Other than power door lock switch UNLOCK	OFF	_
CDL UNLOCK SW	Power door lock switch UNLOCK	ON	_
	Other than driver door key cylinder LOCK position	OFF	_
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON	<u> </u>
	Other than driver door key cylinder UNLOCK position	OFF	_ [
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON	_
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.	OFF	E
	When hazard switch is not pressed	OFF	_
HAZARD SW	When hazard switch is pressed	ON	 F
REAR DEF SW	When rear window defogger switch is pressed	ON	_
	Trunk lid opener cancel switch OFF	OFF	_
TR CANCEL SW	Trunk lid opener cancel switch ON	ON	_ (-
	Trunk lid opener switch OFF	OFF	_
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON	_ _
	Trunk lid closed	OFF	_ '
TRNK/HAT MNTR	Trunk lid opened	ON	_
	When LOCK button of Intelligent Key is not pressed	OFF	_
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	_
	When UNLOCK button of Intelligent Key is not pressed	OFF	_
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON	J
	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	_
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON	DL
	When PANIC button of Intelligent Key is not pressed	OFF	_
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	_
	When UNLOCK button of Intelligent Key is not pressed and held	OFF	_ L
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	_
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
	When outside of the vehicle is bright	Close to 5 V	_ ''
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V	_
DE0 0W DD	When driver door request switch is not pressed	OFF	C
REQ SW-DR	When driver door request switch is pressed	ON	_
	When passenger door request switch is not pressed	OFF	
REQ SW-AS	When passenger door request switch is pressed	ON	
	When trunk request switch is not pressed	OFF	_
REQ SW-BD/TR	When trunk request switch is pressed	ON	_
	When engine switch (push switch) is not pressed	OFF	
PUSH SW	When engine switch (push switch) is pressed	ON	<u>—</u>

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
IGN RLY2-F/B	Ignition switch OFF or ACC	OFF
IGN IXL12-17D	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
ACC INET-17B	Ignition switch ACC or ON	ON
CLUTCH SW	When the clutch pedal is not depressed	OFF
CLUTCH SW	When the clutch pedal is depressed	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
DRANE SW I	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
OFT DAI/ALOVA/	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
C/L LOCK	Electronic steering column lock LOCK status	OFF
S/L-LOCK	Electronic steering column lock UNLOCK status	ON
0// 1/11/1001/	Electronic steering column lock UNLOCK status	OFF
S/L-UNLOCK	Electronic steering column lock LOCK status	ON
0// DELAY E/D	Ignition switch OFF or ACC	OFF
S/L RELAY-F/B	Ignition switch ON	ON
1 IN II (OEN DD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
PUSH SW-IPDM	When engine switch (push switch) is not pressed	OFF
	When engine switch (push switch) is pressed	ON
ION DINA E/D	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
OFT DIL IDDIA	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SFT P-MET	When selector lever is in P position	ON
OFT N. MET	When selector lever is in any position other than N	OFF
SFT N-MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
0.11.1.001/.15514	Electronic steering column lock LOCK status	OFF
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON
	Electronic steering column lock UNLOCK status	OFF
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON
	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
D OK ELAC	Ignition switch ACC or ON	RESET
D OK FLAG	Ignition switch OFF	SET
DDMT ENG OTAT	When the engine start is prohibited	RESET
PRMT ENG STAT	When the engine start is permitted	SET
PRMT RKE STAT	NOTE: This item is displayed, but cannot be monitored.	RESET
VEV CW CLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.	Operation frequency of Intelligent Key
CONFERMID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIDM ID2	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRM ID3	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIDM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIDM ID4	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
·D 4	The ID of fourth key is not registered to BCM	YET
P 4	The ID of fourth key is registered to BCM	DONE
	The ID of third key is not registered to BCM	YET
P 3	The ID of third key is registered to BCM	DONE
	The ID of second key is not registered to BCM	YET
P 2	The ID of second key is registered to BCM	DONE
	The ID of first key is not registered to BCM	YET
P 1	The ID of first key is registered to BCM	DONE
IR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
ID REGGI FLI	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID REGGI FRI	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID REGGI KKI	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGOT KLT	When ID of rear LH tire transmitter is not registered	YET
MADNING LAMD	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
DULLER	Tire pressure warning alarm is sounding	ON

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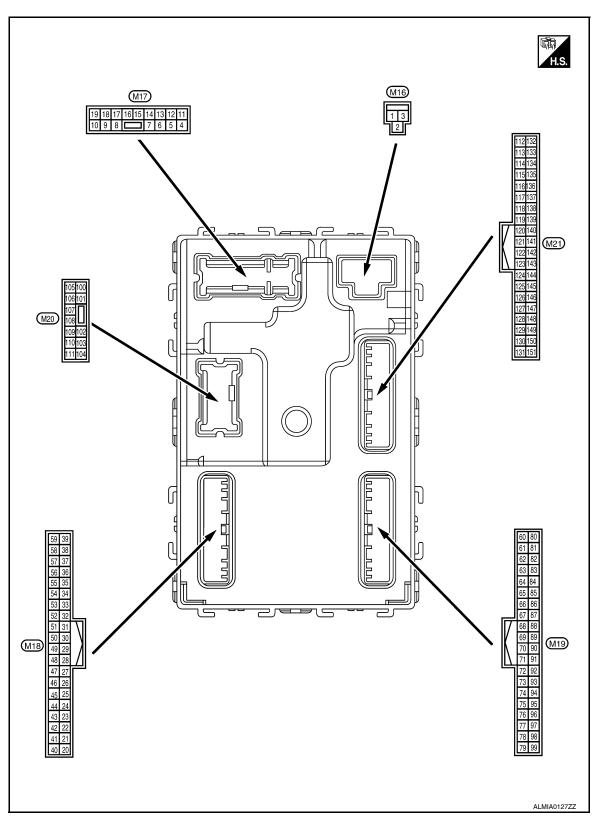
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Terminal Layout



Physical Values

Terminal No.		Description				Val.
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Craund	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
5	O	Front door RH UN-	0	Front does DII	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	0V
7	Craund	Cton lawn	Outout	Cton lower	ON	0V
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	8	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Ground	All doors Look			Other than LOCK (actuator is not activated)	0V
9	Ground	Front door LH UN- LOCK	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(G)	Giodila		Output	Tront door Err	Other than UNLOCK (actuator is not activated)	0V
10 ¹	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Oround	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0V
					OFF	OV
14 (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB
15	01	ACC in dia attack	0	Institute of Male	OFF	Battery voltage
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description	1			Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0V (V) 15 10 5 0 1 s	
					Turn signal switch OFF	6.5 V 0V	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage	
(Y)	Giound	control	Output	lamp	ON	0V	
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(175)					When outside of the vehi- cle is dark	Close to 0V	
22 (R/Y)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (clutch pedal is not depressed)	0V	
(101)		SWITCH			ON (clutch pedal is depressed)	Battery voltage	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
26	0	Olas Issael Walt O		Ota a la consecutada	OFF (brake pedal is not depressed)	0V	
(O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	ON (brake pedal is depressed)	Battery voltage	
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	
					UNLOCK status	0V	
29	Ground	Key slot switch	Input	When Intelligent K	ey is inserted into key slot	Battery voltage	
(Y)	Cidana	. to y old conton	put	When Intelligent K	ey is not inserted into key slot	0V	
30	Ground	ACC feedback signal	Input	Ignition switch	OFF	0	
(V/Y)		2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1	5	ACC or ON	Battery voltage	

Termi	inal No.	Description				
	e color)	Description	Innut/		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
31 (G)	Ground	Rear window defog- ger feedback signal	Input	Rear window de- fogger switch	OFF ON	0V Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms 11.8 V
					ON (when front door RH opens)	0V
33	Cround	Compressor ON sig-	Innut	A/C switch	OFF	9.0 - 12.0V
(SB)	Ground	nal	Input	A/C switch	ON	0V
34 ²		Front door lock as-		Front door lock	OFF (neutral)	5V
(L/R)	Ground	sembly LH (key cylinder switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V
36 ²	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage
(GR)	Oround	LOCK SWITCH Signal	iliput	switch	Unlock	0V
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0
					ON	0V
38		Rear window defog-		Rear window de-	OFF	5V
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V
39 ²				Door lock/unlock	Unlock	Battery voltage
(GR/ R)	Ground	Unlock switch signal	Input	switch	Lock	0V
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OF	F or ACC	0V
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illu-	ON	5.5V
` /				mination	OFF	OV
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	OV
(R)	C. Guild		Juiput	lamp	OFF	Battery voltage

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		ov	
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF ACC or ON	0V 5.0V	
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 + 0.2s	
(G/O)	Ground	er signal	Output	ŎN	When receiving the signal from the transmitter	(V) 6 4 2 0 ••• 0.2s OCC3880D	
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position Except P and N positions	12.0V 0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	ON Blinking	0V (V) 15 10 5 0 JPMIA0014GB 11.3V	
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	OFF All switch OFF Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND Turn signal switch RH	Battery voltage 0V (V) 15 10 5 0 JPMIA0031GB 10.7V	

< ECU DIAGNOSIS >

	inal No.	Description				Value	
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	0V	
					Front wiper switch HI (Wiper intermittent dial 4)	(V)	
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	15 10 5 0 2 ms JPMIA0032GB	
					All switch OFF (Wiper intermittent dial 4)	0V	
					Front washer switch ON (Wiper intermittent dial 4)	(V)	
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	15 10 5 0 2 ms JPMIA0033GB	
-					All switch OFF	0V	
				Combination switch (Wiper intermittent dial 4)	Front wiper switch INT		
					Front wiper switch LO	(V)	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output		Lighting switch AUTO	2 ms JPMIA0034GB 10.7V	
-					All switch OFF	0V	
					Front fog lamp switch ON		
				Combination	Lighting switch 2ND	(V)	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit-	Lighting switch flash-to- pass	10 5 0	
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	
55				Front blower mo-	ON	Battery voltage	
(BR/ W)	Ground	Front blower monitor	Input	tor switch	OFF	0V	
56 ²	Ona	Front door lock as-	المناصوا	Front door lock	OFF (neutral)	5V	
(L/B)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V	
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V	

< ECU DIAGNOSIS >

Terminal No. Description			Value				
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	15 10 5 0 10 ms JPMIA0011GB	B C
					ON (front door LH OPEN)	0V	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	Е
(G/R)	Ground	ger relay	Output	fogger	Not activated	OV	_
					When Intelligent Key is in the passenger compartment	15 10 5 0	F G
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	H
61	Cround	Center console an-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0	L M
(W/R)	Ground	tenna 2 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	10 5 0 1 s 1 s JMKIA0063GB	N O

	inal No.	Description				Value	
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
624		Front outside handle		When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(B/Y)	Ground	RH antenna (-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
63 ⁴	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB	
(LG)	Glound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
64 ⁴	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB	
(V)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

< ECU DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

	inal No.	Description				Value	Λ
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	А
65 ⁴	Canada	Front outside handle		When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	В
(P)	Ground	LH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E F
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	G
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	Н
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	·
71	Ground	Remote keyless entry receiver signal	Remote keyless entry Input/	During waiting		(V) 15 10 5 1 ms JMKIA0064GB	J DLk
(L/O)	Ground		Output	When operating either button on Intelligent Key		(V) 15 10 5 1 ms JMKIA006SGB	M

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< ECU DIAGNOSIS >

	ninal No.	Description				Value
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch high-beam (Wiper intermittent dial 4)	15 10 5 0
76 (R/G)	Ground	Combination switch INPUT 3	Input	Combination switch		JPMIA0036GB 1.3V
					Lighting switch 2ND (Wiper intermittent dial 4)	15 10 5 0
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	1.3V (V) 15 10 2 ms JPMIA0040GB 1.3V
77 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed Not pressed	0V Battery voltage
78 (P)	Ground	CAN-L	Input/ Output	,		
79 (L)	Ground	CAN-H	Input/ Output		_	_
			-		OFF	0V
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 JPMIA0015GB
					ON	6.5V
					ON	Battery voltage

< ECU DIAGNOSIS >

	inal No. e color)	Description			Condition	Value		
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)		
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC ON	0V Battery voltage		
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0V Battery voltage		
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage		
85 (L/O)	Ground	Electronic steering column lock condition No. 1	Input	Electronic steer- ing column lock	Lock status Unlock status	0V Battery voltage		
86	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status	Battery voltage		
(G/R)	Giodila	No. 2	iliput	ing column lock	Unlock status	0V		
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V		
(G/B)		tion switch			Any position other than P ON (pressed)	Battery voltage 0V		
88 ⁴ (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V		
					ON (pressed)	0V		
89 ⁴ (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V		
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC ON	0V Battery voltage		
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage		
94	Ground	Steering wheel lock Output Ignition switch	lanition switch	OFF or ACC	Battery voltage			
(G/Y)	Giouria	unit power supply	Output	ignition switch	ON	0V		

< ECU DIAGNOSIS >

	inal No.	Description				Value	٨
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	B C
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E F
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J DLK L
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB	M
						1.3V	0

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
96	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
(P/B)		INPUT 4		switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V

< ECU DIAGNOSIS >

	inal No.	Description				Value	
(Wire (+)	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
	(-)		Cutput		All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	ВС
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E F G
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB 1.3V	Н
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J DLK
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	M
-					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	Р

< ECU DIAGNOSIS >

	inal No. e color)	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
			Input/ Output	LOCK status	Battery voltage	
99 (L/Y)	Ground	Electronic steering column lock unit communication			LOCK or UNLOCK	(V) 15 10 50 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	ov
103	Cround	Trunk lid oponing	Output	Trupk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Ground	Trunk ild opening	Output	TTUTIK IIU	Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Outnut	Trunk room lamn	ON	0V
(V/W)	Orodria	Trank room lamp	Output	Trank room lamp	OFF	Battery voltage
114	Ground	Rear parcel shelf an-	Output		When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(B)	Sidalid	tenna 1 (-)	Suput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

< ECU DIAGNOSIS >

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
115	01	Rear parcel shelf an-		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB
(W)	Ground	tenna 1 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
118 ⁴		Rear bumper anten-		When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(L/O)	Ground	na (-)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
119 ⁴ (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
W)	Ground	na (+)	Сири	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB

T	:! NI-	Description				
	inal No. e color)	Description	1		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
127	()				OFF or ACC	Battery voltage
(BR/	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	ON	0V
W)		,			ON	OV
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (trunk is open)	0V
				Ignition switch OFF (M/T vehi-	When the clutch pedal is depressed	Battery voltage
				cle)	When the clutch pedal is not depressed	0V
132 (R)	Ground	Starter motor relay control	Output	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage
				ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is not depressed	OV
-					ON (pressed)	0V
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
144 ⁴		Intelligent Key warn-		Request switch	Sounding	0V
(GR)	Ground	ing buzzer	Output	buzzer	Not sounding	Battery voltage
144 ⁵	0	Outside warning	0 1 1	Outside warning	Sounding	0V
(GR)	Ground	buzzer	Output	buzzer	Not sounding	Battery voltage
147	Cround	Trunk lid opener	Innut	Trunk lid opener	Pressed	0V
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (when rear door RH opens)	0V

< ECU DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

	inal No.	Description				Value				
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)				
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB				
					ON (when rear door LH opens)	ov				

- 1: Sedan only
- 2: With LH front window anti-pinch
- 3: With LH and RH front window anti-pinch
- 4: With intelligent key
- 5: Without intelligent key

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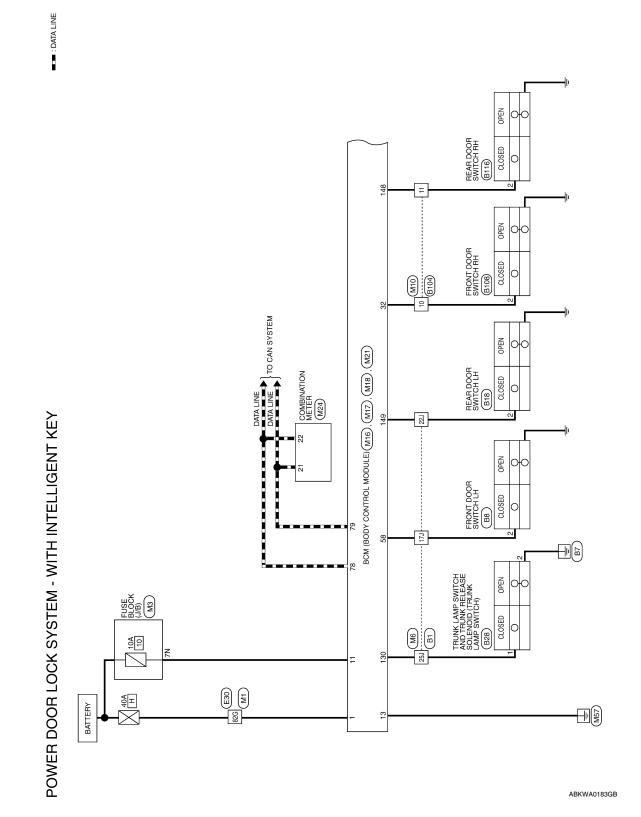
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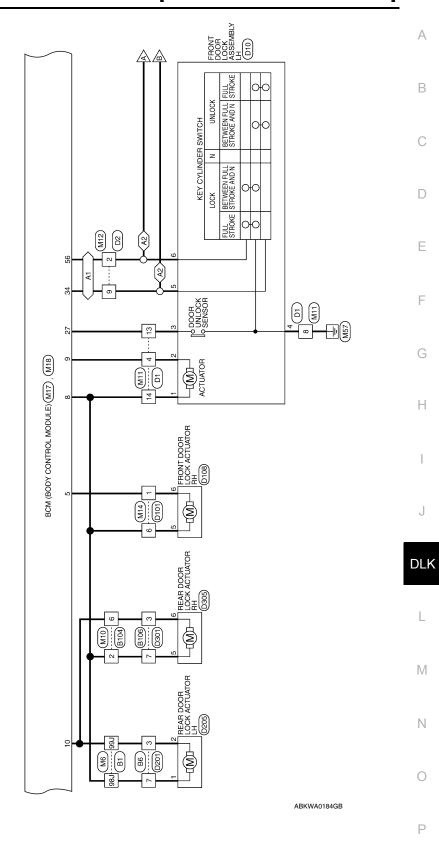
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Wiring Diagram—POWER DOOR LOCK SYSTEM— WITH INTELLIGENT KEY

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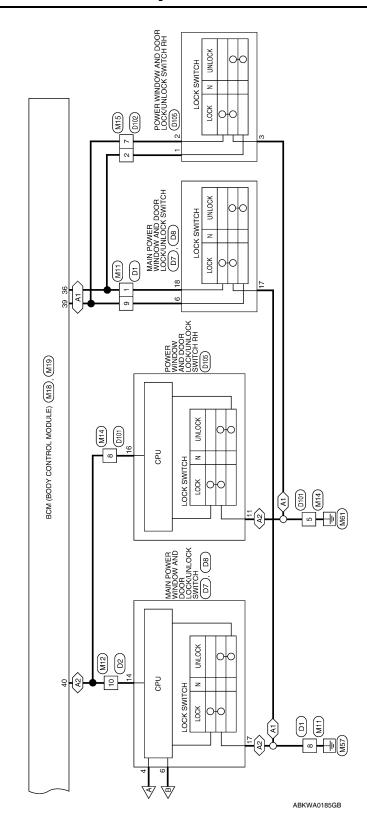


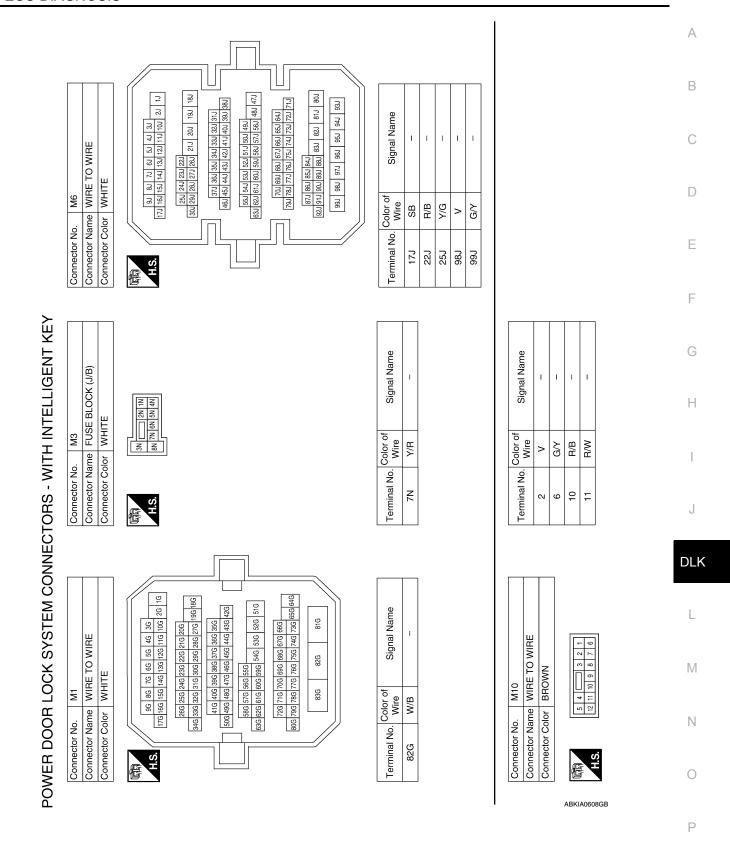




: WITH LEFT FRONT ONLY POWER WINDOW ANTI-PINCH SYSTEM IN WINDOW ANTI-PINCH SYSTEM WINDOW ANTI-PINCH SYSTEM WINDOW ANTI-PINCH SYSTEM







BAT BCM FUSE

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Connector No. M14 Connector Name WIRE TO WIRE Connector Color WHITE	1	Terminal No. Color of Signal Name 1 G/Y — 5 B — 6 V — 8 Y/G —	Connector No. M17 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 14 15 16 17 18 19 16 17 18 19 16 17 18 19 16 17 18 19 16 17 18 19 17 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 19	Terminal No. Color of Signal Name Wire CDL_AS	8 V CDL_COMMON 9 G CDL_DR/FL
Connector No. M12 Connector Name WIRE TO WIRE Connector Color Connector Color WHITE Connector Color	H.S. (1 2 3 4 5 6 7 8 8 H.S. (9) 11 12 13 14 15 16	Terminal No. Color of Wire Signal Name Terminal Terminal No. 2 L/B — 9 L/R — 10 Y/G —	Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK Connector Color	H.S.	Terminal No. Wire Signal Name Terminal No. Wire BAT_POWER_F/L	
Connector No. M11 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No.	Connector No. M15 Connector Name WIRE TO WIRE Connector Color WHITE	H.S. 1 2 3 4 5 6 7 8 9 10 11 12	Terminal No. Color of Wire Signal Name 2 G/R — 7 GR/R —	

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Connector No. M19	A B C D
Terminal No. Color of Signal Name 34	F G H
Connector No. M18	L M N

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Connector No. B6 Connector Name WIRE TO WIRE	Connector Color WHITE			4 5 6 7		Terminal No. Color of Signal Name Wire	3 G/Y –						Connector No. B28	TRUNK LAMP SWITCH AND		Connector Color WHITE		2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Terminal No. Color of Signal Name	1 Y/G –	2 B
Signal Name	1	1	ı	ı	1									REAR DOOR SWITCH LH	ш		□	~ ·	Signal Name	DOOR SW (RL)	
Terminal No. Wire	17J SB	22J R/B	25J Y/G	V L86	99J G/Y								Connector No. B18	Connector Name REAR	Connector Color WHITE			i.S.	Terminal No. Wire	2 R/B	
Connector No. B1 Connector Name WIRE TO WIRE	Connector Color WHITE				13 23 100 113 123 133 143 153 173	22a 23a 24a 25a 25a		31.0 32.0 33.1 34.0 35.0 36.0 37.0 38.1 38.1 38.1 38.1 38.1 48.1 48.2 48.1 48.2 48.1 48.2 48.2 48.2 48.2 48.2 48.2 48.2 48.2	49J 50J 51J 52J 53J 54J 55J 47J 48J 56J 57J 58J 59J 60J 61J 62J 63J	64J (65J (60J (67J 68J 63J)70J	128 128	196 196 126 196	Connector No. B8	Connector Name FRONT DOOR SWITCH LH	Connector Color WHITE			H.S.	Terminal No. Color of Signal Name	2 SB DOOR SW (DR)	AABKIAOGA

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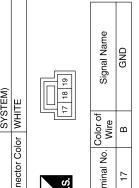
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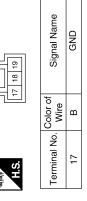
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Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE H.S.	Terminal No. Wire 2 R/B	Connector No. D2 Connector Name WIRE TO WIRE Connector Color WHITE A.S. R. F.	Color of Wire Wire 2 U/B 9 U/R 10 Y/G
Connector No. B106 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Color of Signal Name Wire Signal Name 3 G/Y — 7 V —	Connector No. D1 Connector Name WIRE TO WIRE Connector Color WHITE T 6 5 4	Terminal No.
Connector Name WIRE TO WIRE Connector Color BROWN To a man of the state of the st	Terminal No. Color of Signal Name 2	Connector No. B116 Connector Name REAR DOOR SWITCH RH Connector Color WHITE	Terminal No. Color of Signal Name 2 R/W DOOR SW (RR)

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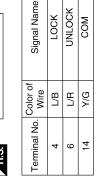
Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color WHITE	WHITE





Connector No.). D101	10
Connector Name WIRE TO WIRE	me WIF	RE TO WIRE
Connector Color WHITE	lor WH	ITE
ą	<u> </u>	
(内内) H.S.	- 6	2
Terminal No. Wire	Color of Wire	Signal Name
-	G/Y	ı
5	В	ı
9	۸	I
8	5//K	1

D7	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT AND RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM)	WHITE
Connector No.	Connector Name	Connector Color WHITE

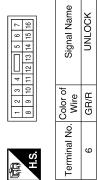


Signal Name	LOCK	NNLOCK	COM	
Color of Wire	L/B	L/R	J/K	
Terminal No. Wire	4	9	14	

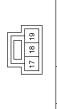
D10	Connector Name FRONT DOOR LOCK ASSEMBLY LH	GRAY	
Connector No.	Connector Name	Connector Color GRAY	

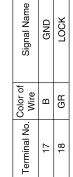
Connector Name FRONT DOOR LOCK ASSEMBLY LH	47	3 4 5 6	Signal Name	-	-	1	GND	DOOR_KEY/C_ UNLOCK_SW	DOOR_KEY/C_LOCK SW
me FRG	lor GRAY	1 2	Color of Wire	>	5	G/W	В	L/R	L/B
Connector Na	Connector Color	H.S.	Terminal No.	1	2	က	4	വ	9

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH (WITH LEFT FRON ONLY POWER WINDOW ANTI-PINCH SYSTEM)
Connector Color WHITE	WHITE



Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK Connector Name SWITCH (WITH LEFT FRONT ONLY POWER WINDOW ANTI PINCH SYSTEM)
Connector Color WHITE	WHITE

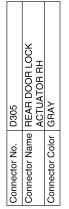


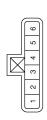


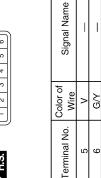
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				В
D105 POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH (WITH LEFT FRONT ONLY POWER WINDOW WHITE	Signal Name LOCK UNLOCK GND	B 1 L L L L L L L L L L L L L L L L L L	Signal Name	С
D105 POWER WINDOW AD DOOR LOCK/UNLOC SWITCH RH (WITH LEFT FRONT ONLY POWER WINCH SYSTEL WHITE) WHITE 2 3 4 5 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 12 6 7 8 9 10 11 11 11 11 11 11		D205 REAR DOOR LOCK ACTUATOR LH GRAY 2 3 4 5 6		D
<u> </u>	Color of Wire CR	9 5 -	Color of Wire Wire C V C C G C C C C C C C C C C C C C C C	Е
Connector Na. Connector Col	Terminal No.	Connector No. Connector Colc	Terminal No.	F
				G
D105 POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH SWITCH RH RIGHT FRONT POWER WINDOW ANTI-PINCH SYSTEM) Or WHITE	Signal Name GND COM	TO WIRE	Signal Name	Н
	Color of Wire B	D201 P D201 P D201 P D201 P D201 D201	Color of Wire G/Y	I
Connector No. Connector Name Connector Color H.S.	Terminal No. 01 11 16	Connector No. D201 Connector Name WIRE TO WIRE Connector Color WHITE 3 2 1	Terminal No.	J
				DL
IRE TITE	Signal Name	OR LOCK	Signal Name	L
002 HITE 10 9 8 1 2 1 1 10 W		D108 FRONT DOOR I ACTUATOR RH GRAY 2 3 4 5 6		M
No. D102 Solor WHIT	Color of Wire GR GR/B	No. D1	Color of Wire V	N
Connector No. D102 Connector Name WIRE TO WIRE Connector Color WHITE WHITE H.S. E 5 4 3 2 1 TE 11 10 9 8 7	Terminal No.	Connector No. D108 Connector Name FRONT DOOR LOCK ACTUATOR RH Connector Color GRAY I 2 3 4 5 6	Terminal No.	0
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Connector No.

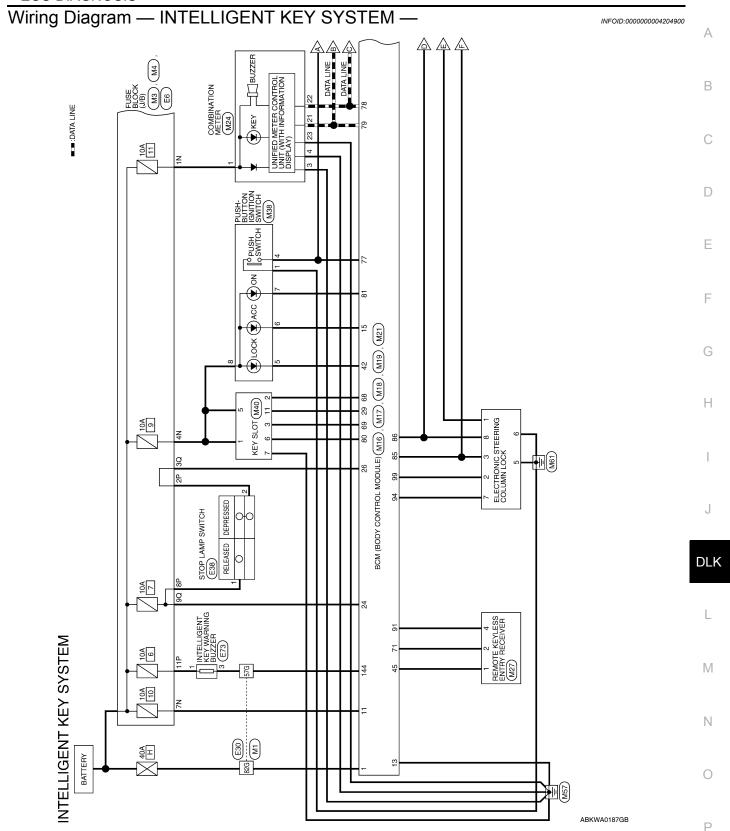


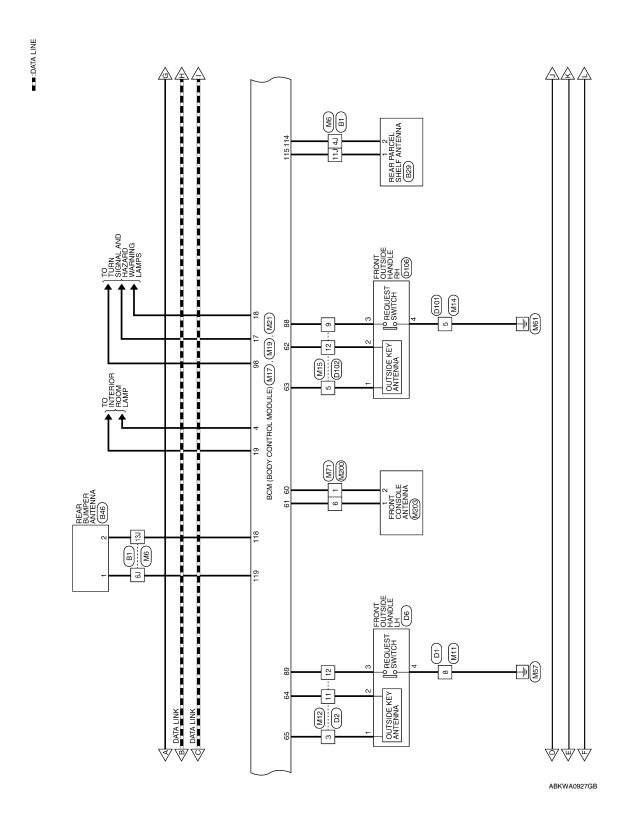




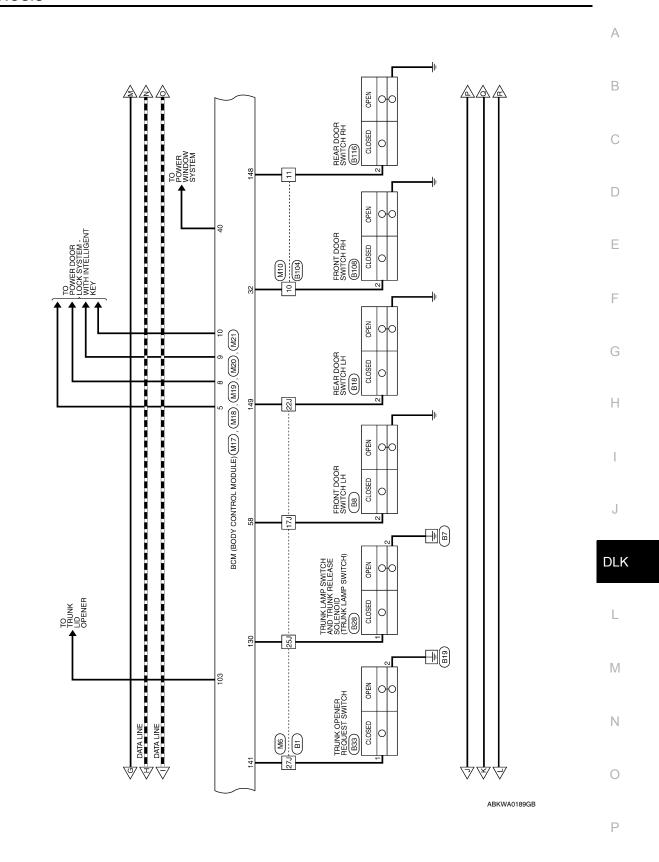
Omoly loanio	oigilai Naille	Ι	
Color of	Wire	J/5	۸
Torminal Ma	ellilla NO.	3	7

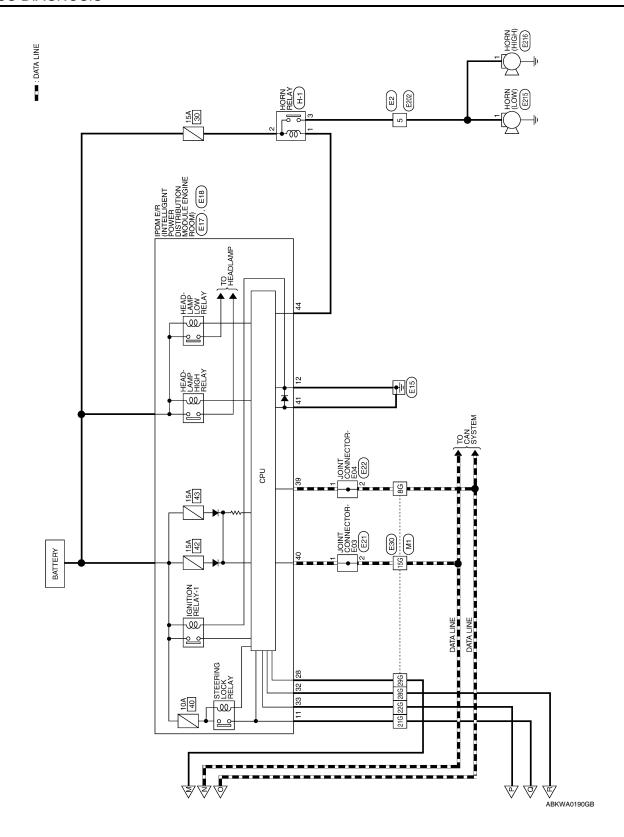
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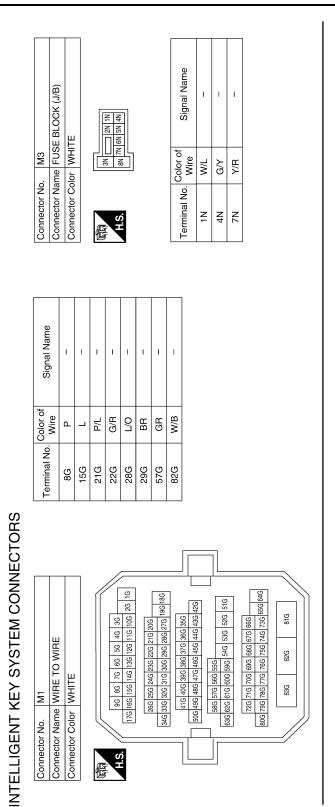




■ :DATA LINE







Connector No.	M4
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE

_				
	103 90 20 10 10 10 10 10 10 1	Signal Name	I	ı
	40 30 100 80	Color of Wire	O/L	WVQ
	(可) H.S.	Terminal No.	30	Co

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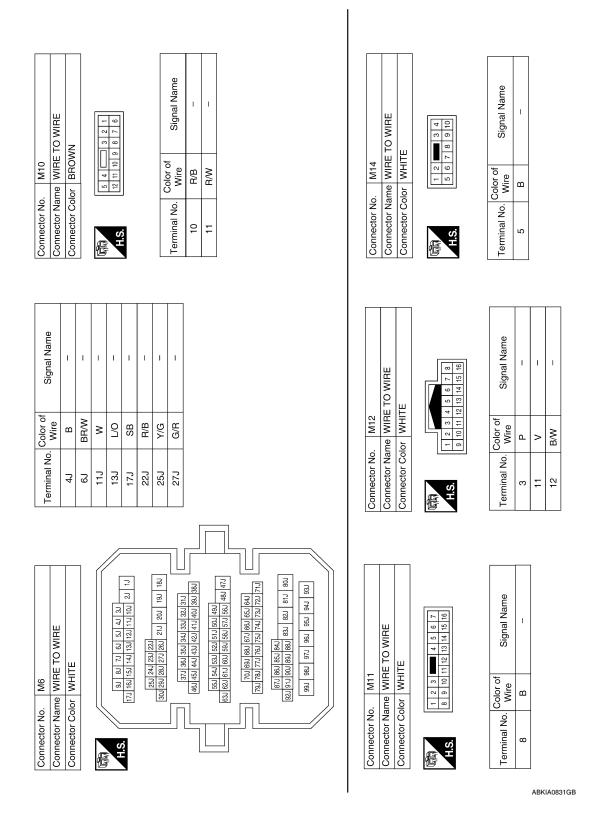
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Connector No.	M17
Connector Name	Connector Name BCM (BODY CONTROL
	MODULE)
Connector Color WHITE	WHITE

Connector Name BCM (BODY CONTROL MODULE)

M16

Connector No.

Connector Name WIRE TO WIRE

Connector No. M15

Connector Color WHITE

Connector Color BLACK

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Signal Name	
11 12 13 14	Color of Wire	
H.S.	Terminal No. Wire	

of Signal Name	V ROOM LAMP BAT SAVER	/ CDL_AS	CDF_COMMON	CDL_DR/FL	/ CDL_RR_RL_BACK	BAT_BCM_FUSE	GND1	- ACC_LED	3 FR_FLASHER	/ FL_FLASHER	ROOM_LAMP_OUTPUT
Color of Wire	Ρ/W	G/Υ	^	G	GΛ	Y/R	В	Y/L	G/B	G/Υ	Υ
Terminal No.	4	5	8	6	10	11	13	15	17	18	19

Signal Name	BAT_POWER_F/L
Color of Wire	M/B
Terminal No. Color of Wire	1

Signal Name

Color of Wire

Terminal No.

LG P/L

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Terminal No.	Color of Wire	Signal Name
24	M/A	STOP_LAMP_LOW_SW
26	O/L	STOP_LAMP_HIGH_SW
29	\	FOB_IN_SW_1
32	B/B	AS_DOOR_SW
40	9/A	PW K-LINE
42	æ	S/L_LOCK_LED
45	А	GND_RF2_A/L
58	SB	DR_DOOR_SW

Connector No.	ner	ᅙ	Z 3	ا ن	- 1:	≥ [0	M18	_	1	[2	3	[5	Į		١.		
Connector Name BCM (BODY CONTROL MODULE)	e l	Ē	2	a a	မ ၂	≥ מ	5 ⊡	BCM (BUI MODULE)	찍필	<u>ان</u> ك	ر ح	ই	=	2	_ ل		
Connector Color GREEN	nec	to	ō	9	Z	9	2	Ш	z								
優工	E.S.							l IN	l 1V								
38	38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20	36	35	34	33	32	31	98	83	28	27	36 25	5 24	23	22	21	20
29 58	58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40	99	99	54	53	52	51	20	49	48	1 4	16 46	5 44	43	42	41	40

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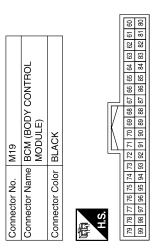
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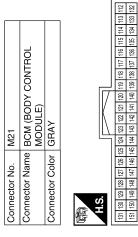
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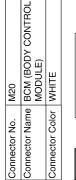
78 79 80		
	Д	CAN-L
	_	CAN-H
	R/L	FOB_SLOT_ ILLUMINATION
81 1	LG	IGN_ON_LED
T 58	0/7	S/L_CONDITION_1
98	G/R	S/L_CONDITION_2
88	P/L	AS_REQUEST SWITCH
1 68	B/W	DR REQUEST SWITCH
91 1	L/R	RF1_POWER_SUPPLY
94 (G/Y	S/L_POWER_SUPPLY_ 12V
) 86	G/O	HAZARD SW
1 66	\sim	S/L_K-LINE

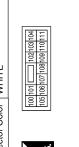
Signal Name	ROOM_ANT_2_B	ROOM_ANT_2_A	AS_DOOR_ANT_B	AS_DOOR_ANT_A	DR_DOOR_ANT_B	DR_DOOR_ANT_A	FOB_READER_CLOCK	FOB_READER_DATA	RF1_TUNER_SIGNAL	ENG_START_SW
Color of Wire	B/R	W/R	В/У	ГG	٧	Ь	G/O	0	O/T	BR
Terminal No.	09	61	62	69	64	65	89	69	1.4	77



Signal Name	TRUNK_ANT_1_B	TRUNK_ANT_1_A	BACK_DOOR_ANT_B	BACK_DOOR_ANT_A	TRUNK_SW	TRUNK REQUEST SW	BUZZER	RR_DOOR_SW	RL_DOOR_SW
Color of Wire	В	W	0/7	BR/W	Y/G	G/R	GR	R/W	R/B
Terminal No.	114	115	118	119	130	141	144	148	149







Signal Name	CDL_BACK_TRUNK	
Color of Wire	۸	
Terminal No.	103	

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	STEERING		Signal Name		S/L_12V_MECHANICAL (V1)	S/L_COM	S/L_CONDITION_1	GND	GND	S/L_12V_CPU_(V2)	6 NOITIONOO I/S
M32	Connector Name ELECTRONIC STEERING COLUMN LOCK Connector Color WHITE	4 8 4 4 4 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
	Connector Name ELECT COLUM Connector Color WHITE	4 0	Terminal No Color of	Wire	P/L	5	9	В	В	G/Y	Ç
Connector No.	Connecto	雨 H.S.	Terminal	5	-	8	ო	ည	9	7	c
		1									
	Connector Name REMOTE KEYLESS ENTRY RECEIVER Connector Color BLACK	3 4	Signal Name	CNC	SIGNAL	12V					
). M27	tme REMC RECE	- 2	Color of Wire	C	<u>ا</u> ج	L'A					
Connector No.	Connector Name REMOT RECEIN Connector Color BLACK	原 H.S.	Terminal No. Wire	•	- 8	4					
	Connector Name COMBINATION METER Connector Color WHITE		9 10 11 12 13 14 15 16 17 18 19 29 30 31 32 33 34 35 36 37 38 39		Signal Name	ВАТТ	GND	GND	CAN-H	CAN-L	
M24	Connector Name COMBI Connector Color WHITE		6 7 8 9 26 27 28 29		Terminal No. Wire	M/L	В	В		۵	c
Connector No.	ゴンスト		3 4 5 23 24 25		<u> </u>]				

Connector No.	M40		Connector No.	M71	
١ĕ	e KEY	Connector Name KEY SLOT	Connector Name WIRE TO WIRE	ne WIRE	TO WIRE
اقا	Connector Color WHITE	ITE	Connector Color WHITE	or WHITE	
	- 1	9 3 10 11 12 0	是 H.S.	1 2 3 6 7 8 9	9 10 11 12
16.	Terminal No. Color of	Signal Name			
- -	WIFe G/Y		Terminal No.	Color of	Signal Name
1	0/9	CLOCK	,-	B/B	1
	0	DATA	- (C	W/B	1
1	G/Y	LIGHT_BAT+			
	R/	LIGHT_A			
	m	GND			
	\	CARD SW 1			

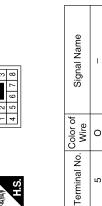
Signal Name	GND	START_SW	LOCK	ACC	NO	B+	
Color of Wire	В	BR	Œ	Y/L	ГG	G/Y	
Terminal No. Color of Wire	1	4	5	9	7	8	

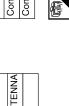
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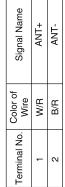
Connector No. M38
Connector Name PUSH-BUTTON IGNITION
SWITCH
SWITCH
BROWN

0	IRE TO WIRE	НІТЕ
Connector No. E2	Connector Name WIRE TO WIRE	Connector Color WHITE









W/R

9



Connector No.



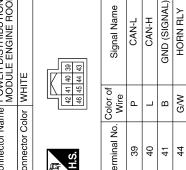
TO WIRE		8 8 9 4 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	Signal Name	1
WIRE	WHITE	5 4 11 10 9	Color of Wire	B/R
ame	olo			
Connector Name WIRE TO WIRE	Connector Color WHITE	H.S.	Terminal No.	-



Connector Name FUSE BLOCK (J/B)

Connector No.

Connector Color WHITE





Connector	Connector	H.S.	Terminal
	1		

7P 6P 5P 4P 3P 2P 1P 16P 15P 14P 13P 12P 11P 10P 9P 8P

Signal Name	ı	I	I	
Color of Wire	R/G	Y/R	Y/B	
Terminal No. Wire	2P	8P	11P	

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[SEDÁN WITH INTELLIGENT KEY]

AGN0313 >								
NECTOR-E03	Simal Name	1 Naile	1	1 1	ı	1 1		АВ
Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE A.S. Terminal No. Color of Signal Name 1 L		Wire P	0	0 a	SB	R LG		С
Connector No. E21 Connector Name JOINT (Connector Color WHITE M.S. Terminal No. Wire 1 L	Terminal No	8G 15G	21G	22G 28G	29G	57G 82G		D
			/	/=				Е
Signal Name ESCL GND (POWER) PUSH_START_SW SL_CONDITION_1 SL_CONDITION_2				6G 7G 8G 9G 13G 14G 15G 16G 17G	246 256 266	316 326 336 346	420 430 440 450 460 470 480 480 500 510 510 520	F
Color of Wire P/L B G B G SL_ L/O SL_	E30	WIRE TO WIRE WHITE	-	16 26 10g 11g 12g 13g 14g 15g 16g 17g	200 210 220 230 240 250 260	18G 19G 27G 28G 28G 30G 31G 32G 33G 34G	320 320	G
7 Terminal No. Co. 11 12 28 32 33 0.0	Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE				186 196	816 52V 42C 45V 42C 45	Η .
	Conne	Conne		H.S.				J
	324 35							DLK
		Connector Name JOINT CONNECTOR-E04 Connector Color WHITE		ī		Signal Name	1 1	L
	F22	MHITE	0 4 3 2 1 0			Color of Wire	<u>a</u> <u>a</u>	M
Connector No. Connector Name Connector Color	3 4 5 6 112 3 4 5 6 Connector No.	Connector Name Connector Color	G	H.S.		Terminal No.	- 0	N
	8	<u> ŏ ŏ </u>		_		Te	AAKIA0467GB	О Р

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Connector No. E73 Connector Name INTELLIGENT KEY WARNING BUZZER Connector Color BROWN Terminal No. Wire Signal Name 1 G	Connector No. E216 Connector Name HORN (HIGH) Connector Color BLACK	Terminal No. Color of Wire Signal Name
Connector No. E38	Connector No. E215 Connector Name HORN (LOW) Connector Color BLACK	Terminal No. Color of Signal Name
Connector No. E38 Connector Name STOP LAMP SWITCH (WITH CVT) Connector Color WITE Terminal No. Color of Signal Name	Connector No. E202 Connector Name WIRE TO WIRE Connector Color WHITE	6 7 6 minal No. Color of Wire 5 G

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Signal Name DOOR SW (DR)	B29 REAR PARCEL SHELF GRAY T 2	Signal Name ANT+ ANT-	АВ
Connector No. B8 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE Terminal No. Color of Signal Name 2 SB DOOR SW (DR)	Connector No. B29 Connector Name REAR PAF Connector Color GRAY H.S.	Terminal No. Color of 1 W 2 B	C D
Signal Name	Connector No. B28 Connector Name TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID Connector Color WHITE A.S. L.S. A.S. A	Signal Name	F G
Terminal No. Wire 4J B 6J BR/W 11J W 13J L/O 17J SB 22J R/B 25J Y/G 27J G/R	Connector No. B28 Connector Name TRUNK TRUNK Connector Color WHITE H.S.	Terminal No. Wire 1 Y/G 2 B	J
Connector No. B1 Connector Name WIRE TO WIRE Connector Color WHITE 1.1 2J 110 111 12J 13J 14J 15J 16J 17J 18J 19J 17J 18J 18J 18J 18J 18J 18J 18J 18J 18J 18	Connector No. B18 Connector Color WHITE MITE Connector Color WHITE	Terminal No. Wire Signal Name 2 R/B DOOR SW (RL)	DLF L M
		AAKIA0469GB	Р

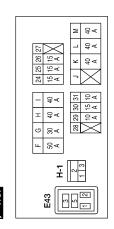
Connector No. B104 Connector Name WIRE TO WIRE Connector Color BROWN	Terminal No. Color of Signal Name 10 R/B - 11 R/W -	Connector No. D1 Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Wire Signal Name
Connector No. B46 Connector Name REAR BUMPER ANTENNA Connector Color GRAY H.S.	Terminal No. Color of Signal Name 1 BR/W ANT+ 2 L/O ANT-	Connector No. B116 Connector Name REAR DOOR SWITCH RH Connector Color WHITE	Terminal No. Wire Signal Name
Connector No. B33 Connector Name TRUNK OPENER REQUEST SWITCH Connector Color BROWN	Terminal No. Color of Wire Signal Name	Connector No. B108 Connector Name FRONT DOOR SWITCH RH Connector Color WHITE	Terminal No. Wire Signal Name

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Signal Name	I	ĺ	1
Color of Wire	M	SB	0
Terminal No.	1	2	3

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Wiring Diagram — TRUNK LID OPENER SYSTEM —

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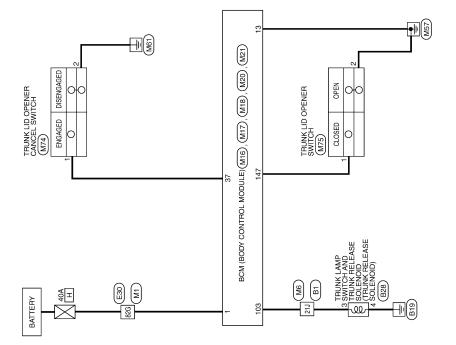
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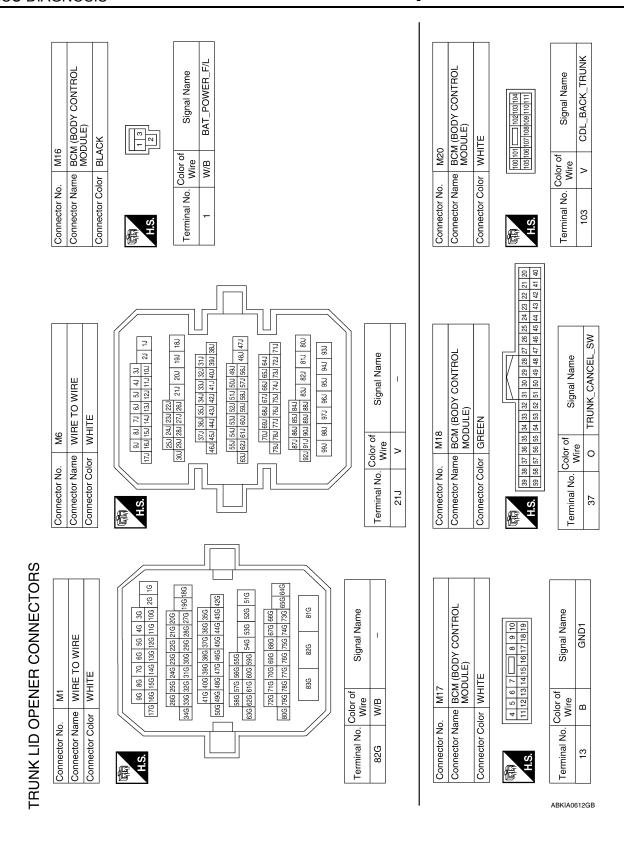
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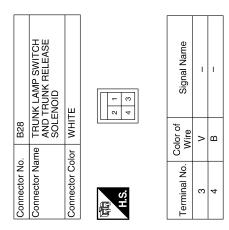
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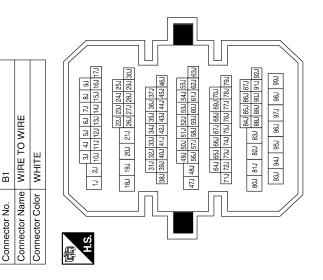
TRUNK LID OPENER



			А
Connector No. M75 Connector Name TRUNK LID OPENER SWITCH Connector Color BLACK	Signal Name		В
M75 TRUNK LI SWITCH BLACK	<u></u>		С
Connector No. Connector Color Connector Color H.S.	Color of Wire UR		D
Connector No. Connector Col	Terminal No.		E
			F
Connector No. M74 Connector Name TRUNK LID OPENER CANCEL SWITCH CANCEL SWITCH WHITE	Signal Name	Signal Name	G
M74 TRUNK L CANCEL WHITE	Color of Wire O O B	Color of Wire LG	Н
Connector No. Connector Name Connector Color	Terminal No. Col	Reminal No. W M 82G Terminal No. W M M M M M M M M M M M M M M M M M M	I
Conne	Termi	Termi 8	J
	102 II28 II38 II38 II38 II38 II38 II38 II3		DLK
CONTROL	15 150	76 86 96 146 156 166 176 86 96 146 156 166 176 86 96 146 156 166 176 156 166 176 156 166 176 156 166 176 156 166 176 176 176 176 176 176 176 176 17	L
M21 BCM (BODY CONTROL MODULE) GRAY	16 16 12 12 12 12 12 12	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE To a 46 56 66 76 86 96 176 86 96 176 186 176 176 186 176 176 186 176 176 186 176 176 186 176 176 186 186 176 176 186 186 176 176 186 186 186 186 186 186 186 186 186 18	M
Connector No. Connector Name Connector Color	151 150 129 127 155 12 151 150 149 147 146 14 Terminal No. Col-	nector No nector No nector No	N
		ABKIA0613GB	0
			Р



Signal Name	ı	
Color of Wire	>	
Terminal No.	21J	



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Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC

< ECU DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Display contents of CONSULT	Fail-safe	Cancellation	Α
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC	А
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC	
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC	В
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF	
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms	С
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal	D
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V	Е
B2601: SHIFT POSITION	Inhibit electronic steering column lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)	F
B2602: SHIFT POSITION	Inhibit electronic steering column lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more 	G
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V) 	I
B2604: PNP SW	Inhibit electronic steering column lock	 500 ms after any of the following BCM recognition conditions is fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF 	J DL
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission range switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission range switch signal (CAN): ON	M N
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)	Р
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)	

< ECU DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled Power position changes to ACC Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to electronic steering column lock, and receives LOCK response signal from electronic steering column lock, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

INFOID:0000000004496026

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)

< ECU DIAGNOSIS >

[SEDÁN WITH INTELLIGENT KEY]

Priority	DTC	
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING	E
	B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP	(
	 B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION]
	 B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW 	E
	 B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS 	F
4	 B260A: IGNITION RELAY B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT 	
	 B260F: ENG STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC 	ŀ
	 B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM 	I
	 B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E1: ENG STATE NO RECIV B26E8: CLUTCH SW 	
	 B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	D

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< ECU DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1724: [COTROL UNIT
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-39
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-40
U0415: VEHICLE SPEED SIG	_	_	_	BCS-41
B2013: ID DISCORD BCM-S/L	×	_	_	<u>SEC-39</u> (Coupe) <u>SEC-249</u> (Sedan with I-Key) <u>SEC-458</u> (Sedan without I-Key)
B2014: CHAIN OF S/L-BCM	×	_	_	<u>SEC-40</u> (Coupe) <u>SEC-250</u> (Sedan with I-Key) <u>SEC-459</u> (Sedan without I-Key)
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe) SEC-275 (Sedan with I-Key) SEC-478 (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	_	_	<u>SEC-68</u> (Coupe) <u>SEC-278</u> (Sedan with I-Key) <u>SEC-481</u> (Sedan without I-Key)

[SEDAN WITH INTELLIGENT KEY]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-69 (Coupe) SEC-279 (Sedan with I-Key) SEC-482 (Sedan without I-Key)
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-70 (Coupe) SEC-280 (Sedan with I-Key) SEC-483 (Sedan without I-Key)
B2195: ANTI SCANNING	×	_	_	SEC-70 (Coupe) SEC-281 (Sedan with I-Key) SEC-484 (Sedan without I-Key)
B2553: IGNITION RELAY	_	_	_	PCS-62
B2555: STOP LAMP	_	_	_	SEC-72 (Coupe) SEC-282 (Sedan with I-Key) SEC-485 (Sedan without I-Key)
B2556: PUSH-BTN IGN SW	_	×	_	SEC-74 (Coupe) SEC-284 (Sedan with I-Key) SEC-487 (Sedan without I-Key)
B2557: VEHICLE SPEED	×	×	_	SEC-76 (Coupe) SEC-286 (Sedan with I-Key) SEC-489 (Sedan without I-Key)
B2560: STARTER CONT RELAY	×	×	_	SEC-77 (Coupe) SEC-287 (Sedan with I-Key) SEC-490 (Sedan without I-Key)
B2562: LOW VOLTAGE	_	_	_	BCS-42
B2601: SHIFT POSITION	×	×	_	SEC-78 (Coupe) SEC-288 (Sedan with I-Key) SEC-491 (Sedan without I-Key)
B2602: SHIFT POSITION	×	×	_	SEC-81 (Coupe) SEC-291 (Sedan with I-Key) SEC-494 (Sedan without I-Key)
B2603: SHIFT POSI STATUS	×	×	_	SEC-84 (Coupe) SEC-294 (Sedan with I-Key) SEC-497 (Sedan without I-Key)
B2604: PNP SW	×	×	_	SEC-87 (Coupe) SEC-297 (Sedan with I-Key) SEC-500 (Sedan without I-Key)
B2605: PNP SW	×	×	_	SEC-89 (Coupe) SEC-299 (Sedan with I-Key) SEC-502 (Sedan without I-Key)
B2606: S/L RELAY	×	×	_	SEC-91 (Coupe) SEC-301 (Sedan with I-Key) SEC-504 (Sedan without I-Key)
B2607: S/L RELAY	×	×	_	SEC-92 (Coupe) SEC-302 (Sedan with I-Key) SEC-505 (Sedan without I-Key)
B2608: STARTER RELAY	×	×	_	SEC-94 (Coupe) SEC-304 (Sedan with I-Key) SEC-507 (Sedan without I-Key)
B2609: S/L STATUS	×	×	_	SEC-96 (Coupe) SEC-306 (Sedan with I-Key) SEC-509 (Sedan without I-Key)
B260A: IGNITION RELAY	X	×	_	PCS-64
B260B: STEERING LOCK UNIT	_	×	_	SEC-100 (Coupe) SEC-310 (Sedan with I-Key) SEC-513 (Sedan without I-Key)

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[SEDAN WITH INTELLIGENT KEY]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B260C: STEERING LOCK UNIT	_	×	_	SEC-101 (Coupe) SEC-311 (Sedan with I-Key) SEC-514 (Sedan without I-Key)
B260D: STEERING LOCK UNIT	_	×	_	SEC-102 (Coupe) SEC-312 (Sedan with I-Key) SEC-515 (Sedan without I-Key)
B260F: ENG STATE SIG LOST	×	×	_	SEC-103 (Coupe) SEC-313 (Sedan with I-Key) SEC-516 (Sedan without I-Key)
B2612: S/L STATUS	×	×	_	SEC-108 (Coupe) SEC-318 (Sedan with I-Key) SEC-519 (Sedan without I-Key)
B2614: ACC RELAY CIRC	_	×	_	PCS-67
B2615: BLOWER RELAY CIRC	_	×	_	PCS-70
B2616: IGN RELAY CIRC	_	×	_	PCS-73
B2617: STARTER RELAY CIRC	×	×	_	SEC-112 (Coupe) SEC-322 (Sedan with I-Key) SEC-523 (Sedan without I-Key)
B2618: BCM	×	×	_	PCS-76
B2619: BCM	×	×	_	SEC-114 (Coupe) SEC-324 (Sedan with I-Key) SEC-525 (Sedan without I-Key)
B261A: PUSH-BTN IGN SW	_	×	_	SEC-116 (Coupe) SEC-326 (Sedan with I-Key) SEC-527 (Sedan without I-Key)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-116 (Coupe) SEC-325 (Sedan with I-Key) SEC-526 (Sedan without I-Key)
B2622: INSIDE ANTENNA	_	_	_	DLK-57 (Coupe) DLK-279 (Sedan with I-Key) DLK-480 (Sedan without I-Key)
B2623: INSIDE ANTENNA	_	_	_	DLK-60 (Coupe) DLK-282 (Sedan with I-Key) DLK-483 (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	_	SEC-118 (Coupe) SEC-328 (Sedan with I-Key) SEC-529 (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	_	SEC-118 (Coupe) SEC-314 (Sedan with I-Key)
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	SEC-118 (Coupe) SEC-316 (Sedan with I-Key) SEC-517 (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-118 (Coupe) SEC-317 (Sedan with I-Key) SEC-518 (Sedan without I-Key)
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	WT ES
C1706: LOW PRESSURE RR	_	_	×	<u>WT-53</u>
C1707: LOW PRESSURE RL	_	_	×	

< ECU DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
C1708: [NO DATA] FL	_	_	×		
C1709: [NO DATA] FR	_	_	×	NAT 4.4	
C1710: [NO DATA] RR	_	_	×	<u>WT-14</u>	
C1711: [NO DATA] RL	_	_	×		
C1712: [CHECKSUM ERR] FL	_	_	×		
C1713: [CHECKSUM ERR] FR	_	_	×	NIT 16	
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-16</u>	
C1715: [CHECKSUM ERR] RL	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	×	WT 40	
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-18</u>	
C1719: [PRESSDATA ERR] RL	_	_	×		
C1720: [CODE ERR] FL	_	_	×		
C1721: [CODE ERR] FR	_	_	×		
C1722: [CODE ERR] RR	_	_	×		
C1723: [CODE ERR] RL	_	_	×	NIT 16	
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-16</u>	
C1725: [BATT VOLT LOW] FR	_	_	×		
C1726: [BATT VOLT LOW] RR	_	_	×		
C1727: [BATT VOLT LOW] RL	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>	
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>	

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INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Symptom Table

ALL FUNCTIONS OF INTELLIGENT KEY SYSTEM DO NOT OPERATE **NOTE**:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-227, "Work Flow".</u>
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "ENGINE START BY I-KEY" and "LOCK/UNLOCK BY I-KEY" are ON when setting on CONSULT-III.
- · All doors are closed.

Symptom	Diagnosis/service procedure		Reference page
All functions of Intelligent Key system do not operate.	1.	Check BCM power supply and ground circuit.	DLK-285
	2.	Check Intelligent Key function and battery inspection.	DLK-333
	3.	Check remote keyless entry receiver.	DLK-330
	4.	Check Intermittent Incident.	<u>GI-42</u>

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

DOOR LOCK FUNCTION SYMPTOMS DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH: Symptom Table

INFOID:0000000004204906

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DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-227</u>, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- · Intelligent Key is out of key slot.
- · All doors are closed.

Symptom		Diagnosis/service proce	Reference page	
	1.	Check BCM Power supply and gro	DLK-285	
Power door locks do not operate with door lock	2.	Check door lock and unlock switc	h.	DLK-289
and unlock switch.	3.	Check door lock actuator (driver s	ide)	DLK-319
	4.	Check Intermittent Incident.		<u>GI-42</u>
Power door locks do not operate with door key	1.			DLK-298
cylinder operation. (Power door locks operate properly with door lock and unlock switch.)	2.			<u>PWC-94</u>
	1.	Check door lock actuator.	Driver side	DLK-319
			Passenger side	DLK-320
Specific door lock actuator does not operate.			Rear LH	DLK-321
			Rear RH	DLK-322
	2.	Check Intermittent Incident.	<u>GI-42</u>	
Vehicle speed sensing auto door LOCK opera-	1.	Ensure automatic door lock/unlock function (lock operation) is enabled.		DLK-272
tion does not operate.	2.	Check combination meter vehicle	MWI-42	
	3.	Check intermittent incident.		<u>GI-42</u>
Ignition OFF interlock auto door UNLOCK	1.	Ensure automatic door lock/unlock function (unlock operation) is enabled.		DLK-272
function does not operate.	2.	. Check BCM for DTCs.		DLK-404
	3.	Check intermittent incident.		<u>GI-42</u>

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH: Symptom Table

INFOID:0000000004204907

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-227</u>, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column
 in this order.

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DOOR LOCK FUNCTION SYMPTOMS

[SEDAN WITH INTELLIGENT KEY]

< SYMPTOM DIAGNOSIS >

Conditions of Vehicle (Operating Conditions)

- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- · Intelligent Key is out of key slot.
- · All doors are closed.

Symptom		Diagnosis/service procedure	Reference page
	1.	Check BCM power supply and ground circuit.	DLK-285
Door lock/unlock system does not operate by	2.	Check door switch.	DLK-286
door request switch.	3.	Check key slot.	DLK-296
	4.	Check Intermittent Incident.	<u>GI-42</u>
	1.	Check door request switch (driver side).	DLK-312
Door lock/unlock system does not operate by request switch (driver side).	2.	Check outside key antenna (driver side).	DLK-327
(4)	3.	Check Intermittent Incident.	<u>GI-42</u>
	1.	Check door request switch (passenger side).	DLK-312
Door lock/unlock system does not operate by request switch (passenger side).	2.	Check outside key antenna (passenger side).	DLK-327
	3.	Check Intermittent Incident.	<u>GI-42</u>
Selective unlock function does not operate by	1.	Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".	DLK-272
door request switch (driver side) (other door lock function operate).	2.	Check selective unlock function with a remote controller or door key cylinder.	DLK-237
	3.	Check Intermittent Incident.	<u>GI-42</u>
Selective unlock function does not operate by door request switch (passenger side) (other	1.	Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".	DLK-272
door lock functions operate).	2.	Check Intermittent Incident.	<u>GI-42</u>
	1.	Check "AUTO LOCK SET" setting in "WORK SUP-PORT".	DLK-272
Auto lock function does not operate.	2.	Check door switch.	DLK-286
· ·	3.	Check key slot.	DLK-296
	4.	Check Intermittent Incident.	<u>GI-42</u>

INTELLIGENT KEY

INTELLIGENT KEY: Symptom Table

INFOID:0000000004204908

REMOTE KEYLESS ENTRY FUNCTION MALFUNCTION

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-227, "Work Flow".</u>
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · Intelligent Key is out of key slot.
- Ignition switch is in OFF or ACC position.
- All doors are closed.
- Retained power operation does not operate. Refer to <u>DLK-242, "INTELLIGENT KEY: System Description"</u>.

Symptom	Diagnosis/service procedure		Reference page
All of the remote keyless entry functions do not operate.	1.	Check Intelligent Key battery inspection.	DLK-333
	2.	Check Intermittent Incident.	<u>GI-42</u>

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Symptom	Diagnosis/service procedure	Reference page
Selective unlock function does not operate by Intelligent Key.	Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUP-PORT".	DLK-272
	Check Intelligent Key battery inspection.	DLK-333
	Check Intermittent Incident.	<u>GI-42</u>
	Check "AUTO LOCK SET" setting in "WORK SUPPORT".	DLK-272
Auto lock function does not operate nor-	2. Check door switch.	DLK-286
mally.	3. Check key slot.	DLK-296
	Check Intermittent Incident.	<u>GI-42</u>
Power window down function does not op-	Check "PW DOWN SET" setting in "WORK SUPPORT".	DLK-272
erate.	Check Intelligent Key battery inspection.	DLK-333

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TRUNK OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

TRUNK OPEN FUNCTION SYMPTOMS TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH: Symptom Table

INFOID:0000000004204909

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-227, "Work Flow"</u>.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · Intelligent Key is out of key slot.
- · All doors are closed.

Symptom	Diagnosis/service procedure	Reference page
Trunk open function does not operate by trunk opener switch.	Check trunk opener switch.	DLK-305
	Check trunk lid opener cancel switch.	DLK-307
	Check Intermittent Incident.	<u>GI-42</u>

TRUNK REQUEST SWITCH

TRUNK REQUEST SWITCH: Symptom Table

INFOID:0000000004204910

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-227, "Work Flow"</u>.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · Intelligent Key is out of key slot.
- · All doors are closed.

Symptom	Diagnosis/service procedure	Reference page
Trunk open function does not operate by trunk opener request switch.	Check trunk opener request switch.	DLK-316
	Check trunk lid opener cancel switch.	DLK-307
	Check outside key antenna (trunk room).	DLK-327
	Check Intermittent Incident.	<u>GI-42</u>

INTELLIGENT KEY

INTELLIGENT KEY: Symptom Table

INFOID:0000000004204911

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-227</u>. "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

TRUNK OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Conditions of Vehicle (Operating Conditions)

- Intelligent Key is out of key slot.
- All doors are closed.

Symptom		Diagnosis/service procedure	Reference page
Trunk open function does not operate by Intel- ligent Key.	1.	Check "TRUNK OPEN DELAY" setting in "WORK SUPPORT".	DLK-272
	2.	Check trunk open function.	DLK-255
	3.	Check trunk room lamp switch.	DLK-309
	4.	Check Intelligent Key battery inspection.	DLK-333
	5.	Check Intermittent Incident.	<u>GI-42</u>

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WARNING FUNCTION SYMPTOMS

Symptom Table

WARNING FUNCTION MALFUNCTION

NOTE

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-227, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

Warning chime functions operating condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation.

Symptom		Diagnosis/service procedure	Reference page
		Check push-button ignition switch position indicator.	<u>SEC-326</u>
	For internal	2. Check door switch.	DLK-286
Poi internal	Check warning chime function.	DLK-340	
OFF position warn-		Check Intermittent Incident.	<u>GI-42</u>
ate.		Check push-button ignition switch position indicator.	<u>SEC-326</u>
		Check door switch.	DLK-286
For external	Check Intelligent Key warning buzzer.	DLK-325	
		Check Intermittent Incident.	<u>GI-42</u>
		Check Park position switch.	SEC-297
		Check door switch.	DLK-286
P position warning d	loos not operate	Check Intelligent Key warning buzzer.	DLK-325
P position warning o	loes not operate.	Check warning chime function.	DLK-340
		5. Check combination meter display function.	DLK-339
		6. Check Intermittent Incident.	<u>GI-42</u>
		Check push-button ignition switch position indicator.	SEC-326
ACC warning does not operate		Check warning chime function.	DLK-340
		Check combination meter display function.	DLK-339
		Check Intermittent Incident.	<u>GI-42</u>

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Symptom			Diagnosis/service proced	Reference page	
		1.	Check door switch.		DLK-286
		_	Oh ask incide how entered	Console	DLK-279
		2.	Check inside key antenna.	Trunk room	DLK-282
	Door onen to alone	3.	Check Intelligent Key warning buzzer.	1	DLK-325
	Door open to close	4.	Check warning chime function.		DLK-340
		5.	Check key slot illumination.		DLK-335
		6. Check combination meter display function.			DLK-339
		7. Check Intermittent Incident.			<u>GI-42</u>
		1.	Check push-button ignition switch position	n indicator.	SEC-326
		2.	Check incide key antenna	Console	DLK-279
	Push-button igni-	۷.	Check inside key antenna.	Trunk room	DLK-282
	tion switch opera-	3.	Check warning chime function.		DLK-340
	tion	4.	Check key slot illumination.		DLK-335
Take away warning	Take away warning	5.	Check combination meter display function	1.	DLK-339
does not operate.	6.	Check Intermittent Incident.		<u>GI-42</u>	
		1.	Check push-button ignition switch position	n indicator.	SEC-326
		2	2. Check inside key antenna.	Console	DLK-279
	Door is open	۷.		Trunk room	DLK-282
		3.	Check combination meter display function	1.	DLK-339
		4.	Check Intermittent Incident.		<u>GI-42</u>
		1.	Check "TAKE OUT FROM WIN WARN" s SUPPORT".	etting in "WORK	DLK-272
		2	Chack inside key entenne	Console	DLK-279
	Take away through	2.	Check inside key antenna.	Trunk room	DLK-282
	window	3.	Check warning chime function.	DLK-340	
		4.	Check key slot illumination.	DLK-335	
		5.	Check combination meter display function	١.	DLK-339
		6.	Check Intermittent Incident.		<u>GI-42</u>
		1.	Check key slot.	DLK-296	
		2. Check door switch.			DLK-286
Kay warning ahima	doos not operate	3.	Check warning chime function.		DLK-340
Key warning chime	uoes not operate.	4.	Check key slot illumination.		DLK-335
		5.	Check combination meter display function	DLK-339	
			Check Intermittent Incident.		<u>GI-42</u>
		1.	Check door switch.		DLK-286
		2.	Check key slot illumination.		DLK-335
Door lock operation	warning chime does	3.	Check Intelligent Key warning buzzer.		DLK-325
not operate.	<u> </u>	4.	Check inside key antenna.	Console	DLK-279
			•	Trunk room	DLK-282
		5.	Check Intermittent Incident.		<u>GI-42</u>

Revision: February 2010 DLK-415 2009 Altima

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KEY REMINDER FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

KEY REMINDER FUNCTION SYMPTOMS

Symptom Table

KEY REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work flow". Refer to DLK-227, "Work Flow".
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- "ANSWER BACK FUNCTION" is ON when setting on CONSULT-III.
- Ignition switch is in OFF position.
- · All doors are closed.
- · Intelligent Key is out of key slot.

Symptom	Diagnosis/service procedure	Reference page
Key reminder function does not operate.	Check "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT".	DLK-272
	Check door switch.	DLK-286
	Check inside key antenna.	DLK-340
	Check unlock sensor.	DLK-335
	Check Intelligent Key battery inspection.	DLK-333
	6. Check Intermittent Incident.	<u>GI-42</u>

HAZARD FUNCTION

Symptom Table

HAZARD AND BUZZER REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work flow". Refer to DLK-227, "Work Flow".
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- "ANSWER BACK FUNCTION" is ON when setting on CONSULT-III.
- Ignition switch is in OFF position.
- · All doors are closed.
- · Intelligent Key is out of key slot.

Symptom		Diagnosis/service procedure	Reference page
Hazard reminder does not operate by request	1.	Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-272
switch. (Buzzer reminder operate.)	2.	Check hazard function.	DLK-341
(3.	Check Intermittent incident.	<u>GI-42</u>
Hazard reminder does not operate by Intelligent Key.	1.	Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-272
(Buzzer reminder operate.)	2.	Check hazard function.	DLK-341
	3.	Check Intelligent Key battery inspection.	DLK-333
Buzzer reminder does not operate by request	1.	Check "ANS BACK I-KEY LOCK" or "ANS BACK I-KEY UNLOCK" setting in "WORK SUPPORT".	DLK-272
switch. (Hazard reminder operate.)	2.	Check Intelligent Key warning buzzer.	DLK-325
(all a community	3.	Check Intermittent incident.	<u>GI-42</u>
	1.	Check "TRUNK OPEN DELAY" setting in "WORK SUP-PORT".	DLK-275
Buzzer reminder does not operate by trunk opener	2.	Check Intelligent Key warning buzzer.	DLK-325
request switch.	3.	Check trunk open function.	DLK-250
	4.	Check Intermittent incident.	<u>GI-42</u>

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HORN FUNCTION

Symptom Table

HAZARD AND HORN REMINDER FUNCTION MALFUNCTION

- Before performing the diagnosis in the following table, check "Work flow". Refer to DLK-227, "Work Flow".
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "ANSWER BACK FUNCTION" is ON when setting on CONSULT-III.
- Ignition switch is in OFF position.
- · All doors are closed.

Symptom		Diagnosis/service procedure	Reference page
Hazard reminder does not operate by request		Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-272
switch. (Horn reminder operate.)	2.	Check hazard function.	DLK-341
	3.	Check Intermittent Incident.	<u>GI-42</u>
Hazard reminder does not operate by Intelligent Key. (Horn reminder operate.)	1.	Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".	DLK-272
	2.	Check hazard function.	DLK-341
	3.	Check Intelligent Key battery inspection.	DLK-333
Horn reminder does not operate by request switch.		Check "ANSWER BACK WITH I-KEY LOCK" or "ANSWER BACK WITH I-KEY UNLOCK" setting in "WORK SUPPORT".	DLK-272
(Hazard reminder operate.)	2.	Check Intelligent Key warning buzzer.	DLK-325
	3.	Check Intermittent Incident.	<u>GI-42</u>
Horn reminder does not operate by Intelligent Key.		Check "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT".	DLK-272
(Hazard reminder operate.)	2.	Check horn function.	DLK-337
		Check Intermittent Incident.	<u>GI-42</u>

INTEGRATED HOMELINK TRANSMITTER

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

INTEGRATED HOMELINK TRANSMITTER

Symptom Table

HOMELINK UNIVERSAL TRANSCEIVER MALFUNCTION

Symptom		Diagnosis/service procedure	Reference page
Homelink universal transceiver does not operate properly.		Check homelink universal transceiver function.	DLK-344
		Check Intermittent Incident.	<u>GI-42</u>

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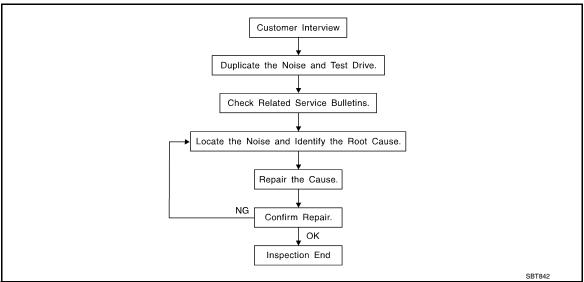
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SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to DLK-424, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 - Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 - Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle)
 - Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 - Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise)
 - Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumble bee)
 - Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge
 as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES	
< SYMPTOM DIAGNOSIS > [SEDAN WITH INTELLIGENT KEY]	
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following: 1) Close a door.	A
2) Tap or push/pull around the area where the noise appears to be coming from.3) Rev the engine.	
 4) Use a floor jack to recreate vehicle "twist". 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT model). 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer. 	E
 Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs. If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body. 	
CHECK RELATED SERVICE BULLETINS	
After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.	
If a TSB relates to the symptom, follow the procedure to repair the noise.	Е
LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE	
1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear and mechanics stethoscope).	F
2. Narrow down the noise to a more specific area and identify the cause of the noise by:	
 removing the components in the area that you suspect the noise is coming from. Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise. 	G
 tapping or pushing/pulling the component that you suspect is causing the noise. Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily. 	Н
• feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.	
 placing a piece of paper between components that you suspect are causing the noise. looking for loose components and contact marks. Refer to <u>DLK-422</u>, "Inspection Procedure". 	I
REPAIR THE CAUSE	J
If the cause is a loose component, tighten the component securely.	
If the cause is insufficient clearance between components:	DL
 separate components by repositioning or loosening and retightening the component, if possible. insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Depart- 	
ment. CAUTION:	
Do not use excessive force as many components are constructed of plastic and may be damaged.	
NOTE:	N
Always check with the Parts Department for the latest parts information. The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.	1 V
URETHANE PADS [1.5 mm (0.059 in) thick]	N
Insulates connectors, harness, etc. 76268-9E005: 100×135 mm (3.94 \times 5.31 in)/76884-71L01: 60×85 mm (2.36 \times 3.35 in)/76884-71L02: 15×25 mm (0.50 \times 0.08 in)	

71L02: 15 \times 25 mm (0.59 \times 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 \times 50 mm (1.18 \times 1.97 in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

 $68370-4B000: 15 \times 25 \text{ mm } (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm } (0.20 \text{ in}) \text{ wide tape roll}$

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that will be visible or not fit. Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000004204918

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- 2. Inside handle escutcheon to door finisher
- Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

- Trunk lid bumpers out of adjustment
- 2. Trunk lid striker out of adjustment
- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- 1. Any component mounted to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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Diagnostic Worksheet

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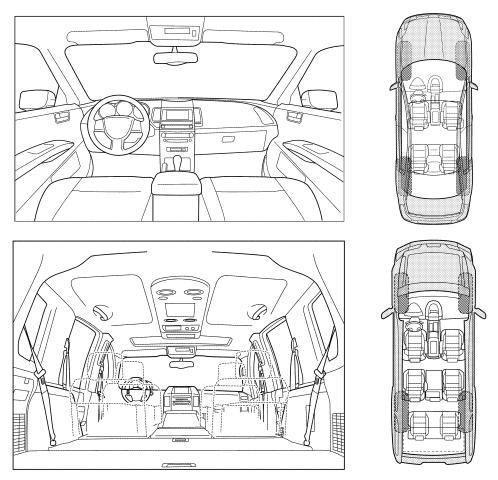
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[SEDAN WITH INTELLIGENT KEY]

,	sise occurs:
	_
II. WHEN DOES IT OCCUR? (please ch	neck the boxes that apply)
Anytime	☐ After sitting out in the rain
1st time in the morning	When it is raining or wet
Only when it is cold outside	Dry or dusty conditions
Only when it is hot outside	☐ Other:
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
☐ Through driveways	☐ Squeak (like tennis shoes on a clean floor)
Over rough roads	☐ Creak (like walking on an old wooden floor)
Over speed bumps	Rattle (like shaking a baby rattle)
Only about mph	☐ Knock (like a knock at the door)
On acceleration	☐ Tick (like a clock second hand)
Coming to a stop	Thump (heavy muffled knock noise)
On turns: left, right or either (circle)	☐ Buzz (like a bumble bee)
☐ With passengers or cargo ☐ Other:	
_ Other.	
	nutes
After driving miles or mir	nutes
After driving miles or mir	
After driving miles or mir	PERSONNEL YES NO Initials of person
After driving miles or mir	PERSONNEL YES NO Initials of person
After driving miles or mir TO BE COMPLETED BY DEALERSHIP Test Drive Notes: Vehicle test driven with customer	PERSONNEL YES NO Initials of person performing
After driving miles or mir TO BE COMPLETED BY DEALERSHIP I Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive	YES NO Initials of person performing
After driving miles or min TO BE COMPLETED BY DEALERSHIP I Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confin	YES NO Initials of person performing
After driving miles or min TO BE COMPLETED BY DEALERSHIP I Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confin	YES NO Initials of person performing
After driving miles or min TO BE COMPLETED BY DEALERSHIP IT Test Drive Notes: Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confin VIN:	YES NO Initials of person performing

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

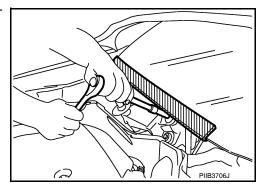
WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Procedure without Cowl Top Cover

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When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Precaution for work

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- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

[SEDAN WITH INTELLIGENT KEY]

PREPARATION

PREPARATION

Special Service Tools

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	SIIA0993E	Locating the noise
(J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester	LEL946A	Used to test keyfobs

Commercial Service Tools

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Tool name		Description
Engine ear	SIIAO995E	Locating the noise
Power tool	PIIB1407E	

Revision: February 2010 DLK-427 2009 Altima

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ON-VEHICLE REPAIR

HOOD

HOOD ASSEMBLY

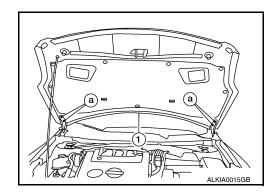
HOOD ASSEMBLY: Removal and Installation

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REMOVAL

Remove the hinge bolts (a) and the hood assembly (1).
 CAUTION:

Operate with two workers, because of its large size.



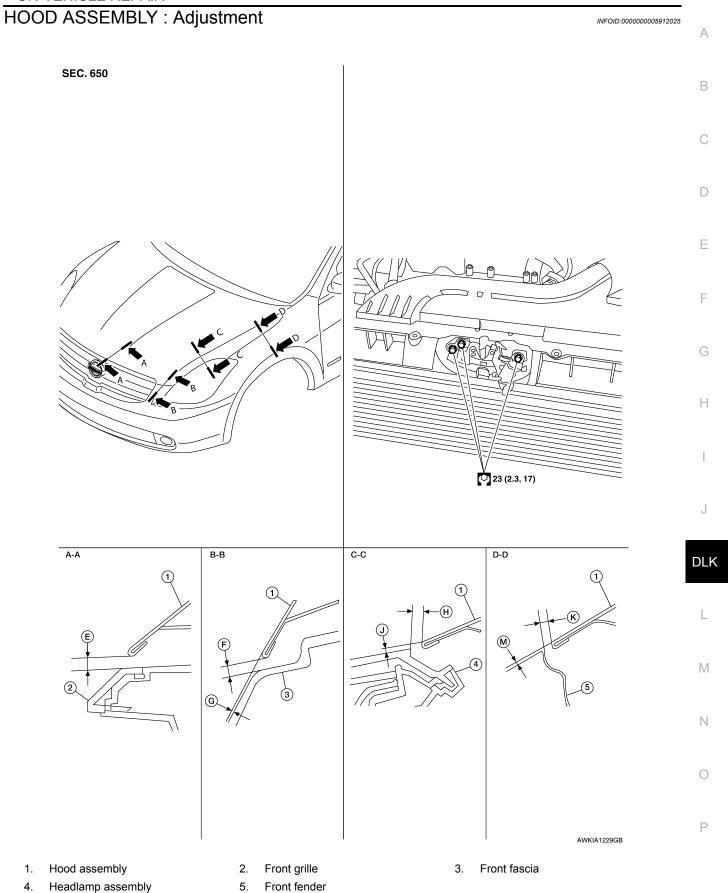
INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installing, perform hood fitting adjustment. Refer to DLK-429, "HOOD ASSEMBLY: Adjustment".

Hood hinge nuts 14 N·m (1.4 kg-m, 10 ft-lb)



FRONT END HEIGHT ADJUSTMENT AND LATERAL/LONGITUDUNAL CLEARANCE ADJUSTMENT

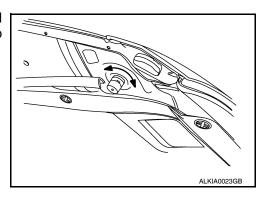
[SEDAN WITH INTELLIGENT KEY]

mm (in)

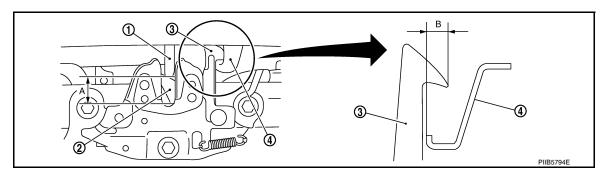
Section	Item	Measurement	Standard	Parallelism	Equality
A – A	E	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.079)$	≤ 2.0 (0.079)	_
B – B	F	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.079)$	≤ 2.0 (0.079)	≤ 2.2 (0.087)
B – B	G	Surface height	$1.0 \pm 2.0 \; (0.04 \pm 0.079)$	≤ 2.0 (0.079)	≤ 2.0 (0.079)
C – C	Н	Clearance	$4.5 \pm 2.0 \; (0.18 \pm 0.079)$	_	2.1 (0.083)
	J	Surface height	$1.0 \pm 2.1 \; (0.04 \pm 0.083)$	_	< 2.0 (0.079)
D – D	К	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	1.0 (0.04)	1.0 (0.04)
	М	Surface height	$0.2 \pm 1.0 \; (0.01 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)

FRONT END HEIGHT ADJUSTMENT

- 1. Check the surface height between the hood and each part by visual and tactile feeling.
- 2. Remove the front grille. Refer to EXT-40, "Removal and Installation".
- 3. Remove the hood lock.
- Adjust the surface level difference of the hood, fender and head lamp by rotating the hood bumpers until the hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.



- 5. Install and align the hood lock center with the center of the hood striker. Engage the lock with the striker and check for looseness.
- 6. Adjust A and B as shown to specification with hood's own weight by dropping it from approx. 200 mm (7.87 in) height or by pressing the hood closed lightly [approx. 29 N (3 kg-f)].



1. Hood striker

Primary latch

Secondary striker

Secondary latch

A. 20 mm (0.79 in)

- B. 6.8 mm (0.27 in)
- 7. After adjustment tighten the hood lock bolts to the specified torque.

LATERAL/LONGITUDUNAL CLEARANCE ADJUSTMENT

- Check the clearance between the hood and each part by visual and tactile feeling.
- 2. Loosen the hood hinge bolts.

NOTE:

The anticorrosive agent applied between the hoodledge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

- Move the hood so that the clearance measurements are within specifications.
- 4. Tighten the hood hinge bolts.

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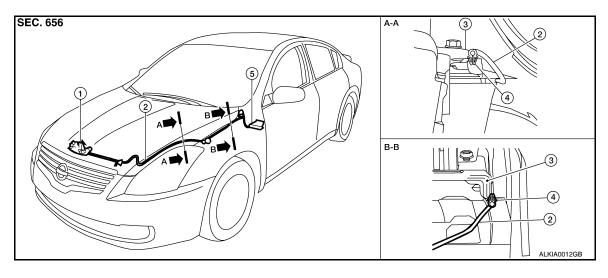
After installation apply touch-up paint onto the hinge bolts and around the base of the hinge.

Hood hinge bolts 14 N·m (1.4 kg-f, 10 ft-lb)

5. If the clearance measurements between the hood and fender cannot be corrected by moving the hood, the fender must be adjusted. Refer to <u>DLK-436</u>, "Removal and Installation".

HOOD LOCK CONTROL

HOOD LOCK CONTROL: Component Parts Location



Hood lock assembly

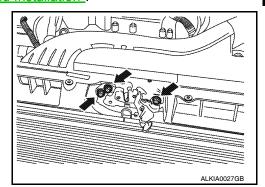
Clip

- 2. Hood lock cable
- 5. Hood lock release handle
- 3. Hoodledge reinforcement

HOOD LOCK CONTROL: Removal and Installation

REMOVAL

- 1. Remove the front grill. Refer to EXT-40, "Removal and Installation".
- 2. Remove the LH fender protector. Refer to EXT-42, "Removal and Installation".
- 3. Remove the hood lock assembly bolts.



Disconnect the hood lock cable from the hood lock assembly, and unclip it from the hoodledge.

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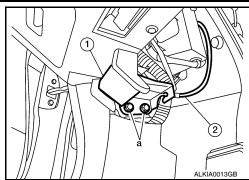
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5. Remove the screws (a) with power tool, and separate the hood lock release handle (1) from the hood lock cable (2).



Remove the grommet from the upper dash, and pull the hood lock cable into the passenger compartment. CAUTION:

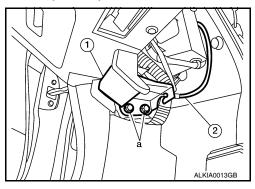
While pulling, be careful not to damage (peel) the outside of the hood lock cable.

INSTALLATION

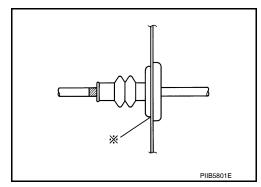
1. Pull the hood lock cable through the upper dash into the engine compartment. **CAUTION:**

Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.

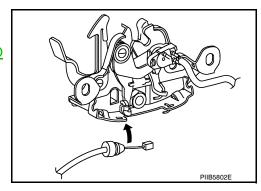
2. Connect the hood lock cable (2) to the hood lock release handle (1) and install the screws (a).



- 3. Check that the cable is not offset from the center of the grommet, and seat the grommet into the upper dash hole.
- 4. Apply the sealant around the grommet at * mark.



- 5. Position the hood lock cable and clip it into place.
- 6. Connect the hood lock cable to the hood lock assembly.
- 7. Loosely install the hood lock assembly.
- 8. Perform hood fitting adjustment. Refer to <u>DLK-429, "HOOD ASSEMBLY: Adjustment".</u>
- 9. Check the hood lock control operation.

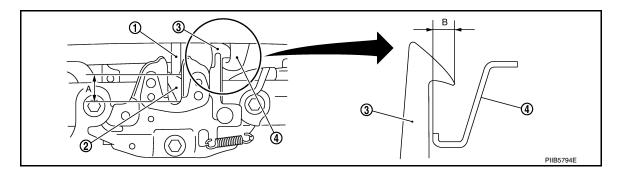


INSPECTION

CAUTION:

If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is positioned within specification of the secondary striker with hood's own weight.

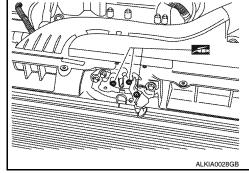


Hood striker

Secondary latch

- 2. Primary latch
- A. 20 mm (0.8 in)

- 3. Secondary striker
- B. 6.8 mm (0.3 in)
- 2. While operating the hood lock release handle, carefully check that the front end of the hood is raised by approx. 20 mm (0.79 in). Also check that the hood lock release handle returns to the original position.
- 3. Check that the hood lock release handle operating is 294 N (30 kg, 66 lb) or below.
- 4. Install so the static closing force of the hood is 344 431 N·m (35 44 kg-m, 254 —— 318 ft-lb).
- 5. Check the hood lock assembly lubrication condition. If necessary, apply grease as shown.



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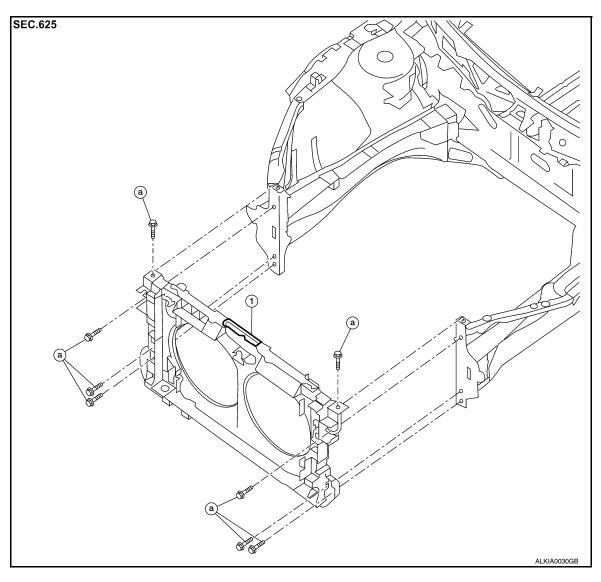
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RADIATOR CORE SUPPORT

Removal and Installation

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1. Radiator core support

a. Bolts

REMOVAL

- Remove front bumper reinforcement. Refer to <u>EXT-36</u>, "Removal and Installation".
- 2. Remove head lamps (LH/RH). Refer to EXL-254, "Removal and Installation".
- 3. Remove air duct. Refer to EM-19, "Removal and Installation" QR25DE, EM-123, "Removal and Installation" VQ35DE.
- 4. Remove the radiator cooling fans. Refer to CO-18, "Removal and Installation" QR25DE, CO-41, "Removal and Installation" VQ35DE.
- 5. Remove the radiator. Refer to <u>CO-16, "Removal and Installation"</u> QR25DE, <u>CO-38, "Removal and Installation"</u> VQ35DE.
- 6. Remove the hood lock control. Refer to <u>DLK-431</u>, "HOOD LOCK CONTROL: Removal and Installation".
- 7. Remove ambient sensor. Refer to <u>HA-40, "Removal and Installation"</u>.
- 8. Remove crash zone sensor. Refer to SR-14, "Removal and Installation".
- 9. Remove air guides (LH/RH).
- 10. Remove power steering tube assembly. Refer to <u>ST-22, "QR25DE : Removal and Installation"</u> QR25DE, <u>ST-22, "VQ35DE : With 17 Inch Tire"</u> or <u>ST-24, "VQ35DE : With 18 Inch Tire"</u> VQ35DE.

RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[SEDAN WITH INTELLIGENT KEY]

- 11. Remove horn (High/Low). Refer to HRN-12. "Removal and Installation".
- 12. Remove the hood support rod.
- 13. Remove the harness clips from the radiator core support assembly, the harness is separate.
- 14. Remove the bolts and the radiator core support.

INSTALLATION

Installation is in the reverse order of removal.

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FRONT FENDER

< ON-VEHICLE REPAIR >

[SEDAN WITH INTELLIGENT KEY]

FRONT FENDER

Removal and Installation

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REMOVAL

- 1. Remove the head lamp. Refer to EXL-254, "Removal and Installation".
- 2. Remove the front fender protector. Refer to EXT-42, "Removal and Installation".
- 3. Remove the inner fender bolt cover.
- 4. Remove the center mud guard. Refer to EXT-43, "Removal and Installation".
- 5. Remove the bolts and the front fender.

CAUTION:

- While removing use a shop cloth to protect body from damaging.
- Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the foam or damage to the fender may occur.

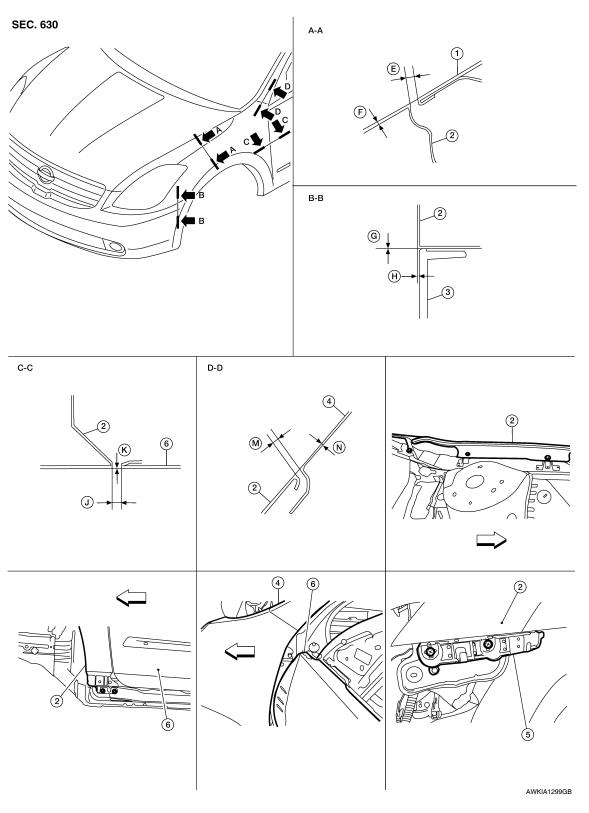
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

• After installing, apply touch-up paint (the body color) onto the head of the front fender bolts.

ADJUSTMENT



- 1. Hood assembly
- 4. Body side outer
- ← Front

- Front fender
- 5. Front fascia bracket
- 3. Front fascia
- 6. Front door assembly

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[SEDAN WITH INTELLIGENT KEY]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A-A	E	Clearance	$4.0 \pm 1.0 \; (0.16 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)
A-A	F	Surface height	$0.2 \pm 1.0 \; (0.01 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)
В-В	G	Clearance	0.0 + 0.8 (0.0 + 0.031)	_	_
0-0	Н	Surface height	$0.7 \pm 1.0 \; (0.028 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)
C-C	K	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$	_	_
0-0	J	Clearance	3.6 ± 1.0 (0.14 ± 0.04)	1.0 (0.04)	_
D-D	M	Clearance	2.3 ± 1.0 (0.09 ± 0.04)	1.0 (0.04)	_
J-0	N	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$	_	_

- Remove the inner fender bolt cover.
- 2. Remove the front fender protector. Refer to EXT-42, "Removal and Installation".
- Remove the center mud guard. Refer to <u>EXT-43</u>, "Removal and Installation".
- 4. Loosen the front fender bolts and screws.
- 5. Adjust the clearance (J) and surface height (K) between the front fender and the front door.
- 6. Tighten the rear upper and lower front fender bolts.
- 7. Adjust the clearance (E) and surface height (F) between the front fender and the hood.
- 8. Adjust the clearance (M) and surface height (N) between the front fender and the body side outer.
- Tighten the inner front fender bolts.
- 10. Adjust the clearance (G) and the surface height (H) between the front fender and the front fascia.
- 11. Tighten the front fender to front fascia and bracket screws.
- 12. Apply touch-up paint (the body color) onto the head of the front fender bolts.
- 13. Install the center mud guard. Refer to EXT-43, "Removal and Installation".
- 14. Install the front fender protector. Refer to EXT-42, "Removal and Installation".
- 15. Install the inner fender bolt cover.

DOOR

FRONT DOOR

FRONT DOOR: Removal and Installation

INFOID:0000000004204931

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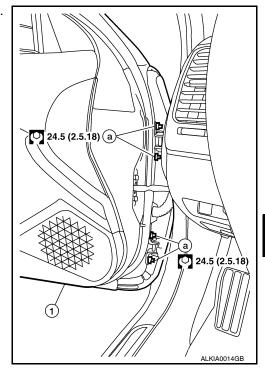
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CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- When removing and installing front door assembly, be sure to carry out the fitting adjustment. Refer to <u>DLK-440</u>, "<u>FRONT DOOR</u>: <u>Adjustment</u>".
- After installing, apply touch-up paint (the body color) onto the head of the hinge nuts.
- Check the hinge rotating parts for lubrication. If necessary, apply "body grease".
- Operate with two workers, because of its heavy weight.
- Check front door open/close operation after installation.

REMOVAL

- 1. Pull the grommet and wire harness out of the front pillar until the harness connectors are accessible. Then disconnect the wire harness connectors.
- 2. Remove the check link bolt from the front pillar.
- 3. Remove the door-side hinge nuts (a) and the door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Adjust the door. Refer to DLK-440, "FRONT DOOR: Adjustment".

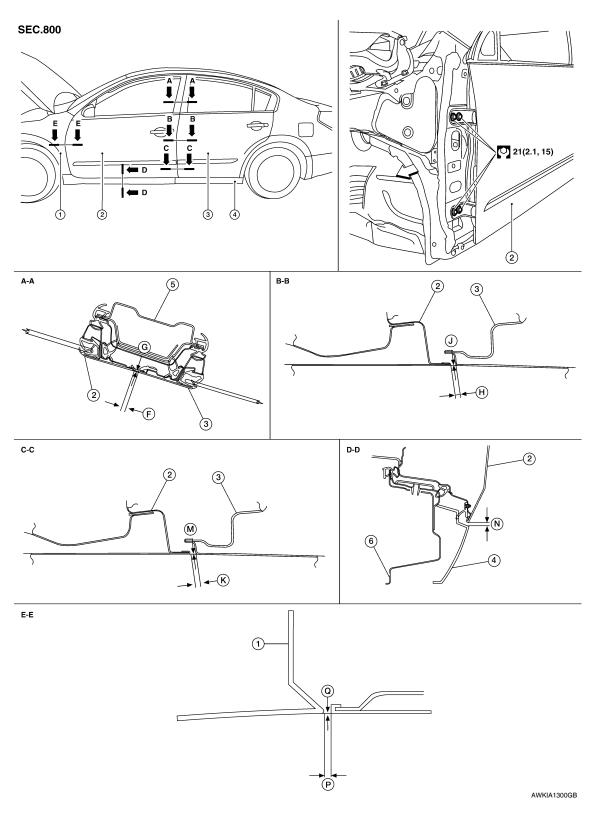
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FRONT DOOR : Adjustment



- 1. Front fender
- 4. Center mud guard
- ← Front

- 2. Front door assembly
- Center pillar

- 3. Rear door assembly
- 6. Outer sill

[SEDAN WITH INTELLIGENT KEY]

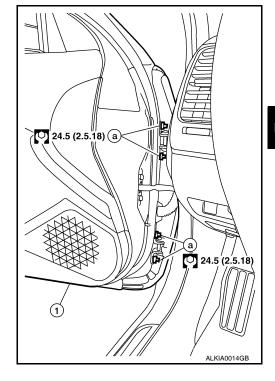
			Unit: mm (in)
Section	Item	Measurement	Standard
A-A	F	Clearance	4.5 ± 1.5 (0.18 ± 0.06)
A-A	G	Surface height	0.0 ± 1.5 (0.0 ± 0.06)
В-В	Н	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
D-D	J	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$
C-C	K	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
C-C	M	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$
D-D	N	Clearance	5.1 ± 1.7 (0.20 ± 0.07)
E-E	P	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
	Q	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$

LONGITUDINAL CLEARANCE

- 1. Confirm the back door adjustments and adjust if necessary. Refer to <u>DLK-441, "BACK DOOR: Removal and Installation"</u>.
- 2. Remove the front fender. Refer to <u>DLK-436</u>, "Removal and Installation".
- 3. Loosen the hinge bolts. Raise or lower the front door at rear edge to adjust.
- Tighten the hinge bolts to specifications.
- 5. Install the front fender. Refer to <u>DLK-436</u>, "Removal and Installation".

SURFACE HEIGHT ADJUSTMENT

- 1. Loosen the front door hinge nuts.
- Move the top and or bottom in or out as necessary until it is within specifications.
- 3. Tighten the hinge nuts to specifications.



BACK DOOR

BACK DOOR: Removal and Installation

CAUTION:

- When removing and installing the rear door assembly, support the door with a jack and cloth to protect the door and body.
- When removing and installing rear door assembly, be sure to carry out the fitting adjustment.
- Check the hinge rotating parts for poor lubrication. If necessary, apply "body grease".
- After installing, apply touch-up paint (the body color) onto the head of the hinge nuts.

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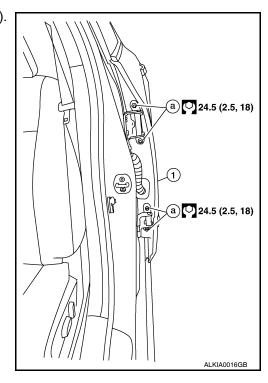
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< ON-VEHICLE REPAIR >

- Operate with two workers, because of its heavy weight.
- Check rear door open/close operation after installation.

REMOVAL

- 1. Pull out grommet and disconnect rear door harness connector.
- 2. Remove the check link bolt from the center pillar.
- 3. Remove the door-side hinge nuts (a) and the door assembly (1).



INSTALLATION Installation is in the reverse order of removal.

BACK DOOR: Adjustment

ADJUSTMENT

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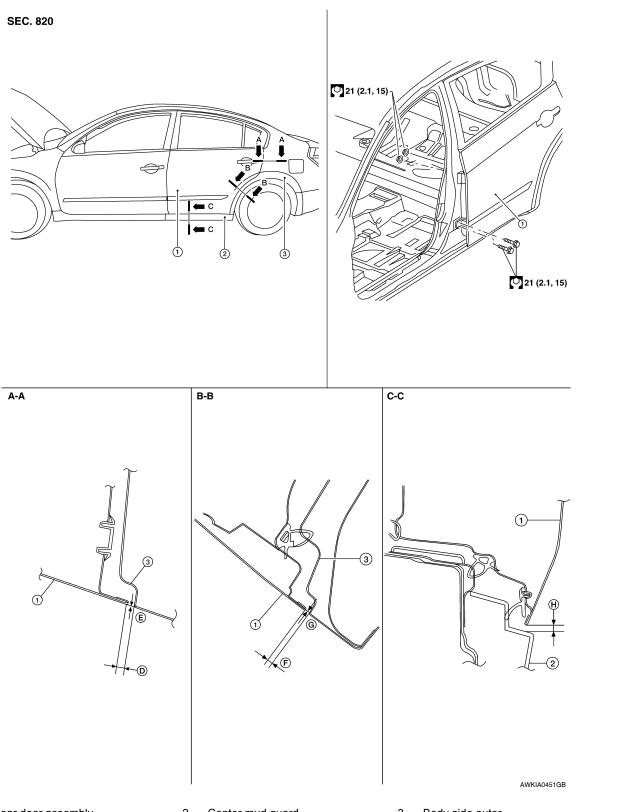
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1. Rear door assembly

2. Center mud guard

3. Body side outer

[SEDAN WITH INTELLIGENT KEY]

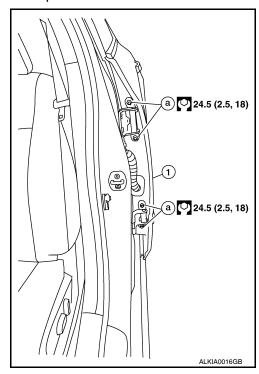
Section	Item	Measurement	Standard
B-B	F	Clearance	$3.6\pm1.0\;(0.14\pm0.04)$
B-B	G	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$
C-C	Н	Clearance	5.3 ± 1.7 (0.21 ± 0.07)

LONGITUDINAL CLEARANCE

- Remove the center pillar upper and lower trim. Refer to <u>INT-39, "Removal and Installation"</u>.
- 2. Loosen the upper pillar hinge nuts.
- 3. Loosen the lower pillar hinge bolts.
- 4. Raise or lower the door at the rear edge to adjust.
- 5. Tighten the lower pillar hinge bolts.
- 6. Tighten the upper pillar hinge nuts.
- 7. Install the center pillar upper and lower trim. Refer to INT-39, "Removal and Installation".

SURFACE HEIGHT ADJUSTMENT

- 1. Loosen the hinge nuts.
- 2. Move the top and or the bottom in or out as necessary until it is within specification.
- 3. Tighten the hinge nuts to specification.



DOOR LOCK FRONT DOOR LOCK

FRONT DOOR LOCK: Component Parts Location

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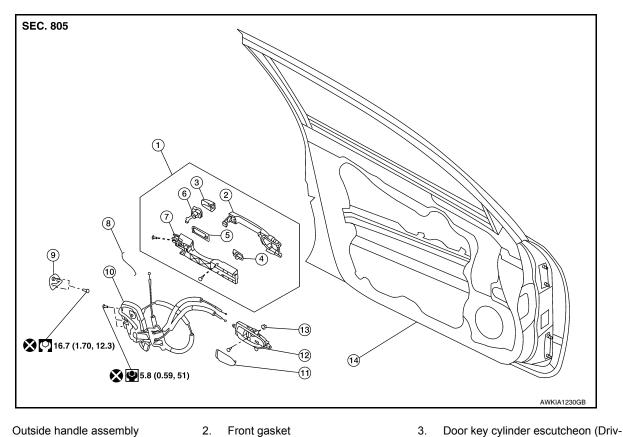
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- Outside handle assembly
- 2. Front gasket

Front gasket

13. Grommet

- Rear gasket
- Outside handle bracket 7.
- 8. Key cylinder rod (Driver side only)
- 10. Door lock assembly
- 14. Front door assembly
- Outside handle escutcheon (Passenger side) Key cylinder assembly (Driver side
- only)
- Front door striker

er side)

12. Inside door handle assembly

FRONT DOOR LOCK: Removal and Installation

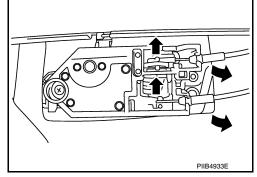
INFOID:0000000004204935

REMOVAL

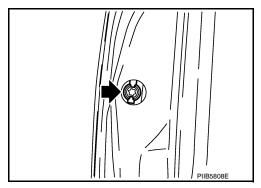
Remove the front door finisher. Refer to INT-33, "Removal and Installation".

11. Cap

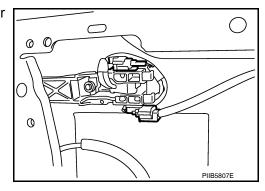
Disconnect the inside handle knob cable and lock knob cable from the back side of the front door finisher.



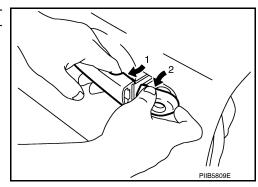
- 3. Remove the front door window and front door module assembly. Refer to <u>GW-17</u>, "<u>Removal and Installation</u>".
- 4. Remove door side grommet, and remove door key cylinder assembly (driver side) and outside handle escutcheon (passenger side) bolts (TORX T30) from grommet hole.



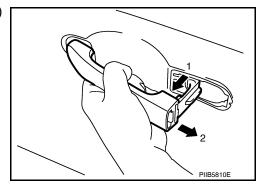
5. Disconnect door antenna and door request switch connector and remove harness clamp.



- 6. Disconnect the key cylinder rod.
- 7. Disconnect door key cylinder switch harness connector.
- 8. While pulling the outside handle (1), remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side) (2).

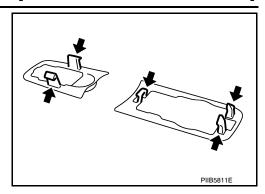


- 9. Disconnect front door request switch harness connector.
- 10. While pulling outside handle (1), slide toward rear of vehicle (2) to remove outside handle.

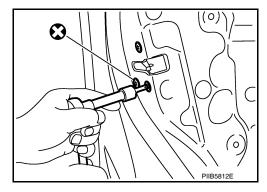


[SEDAN WITH INTELLIGENT KEY]

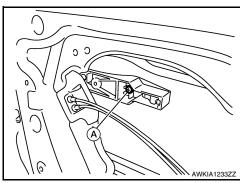
11. Remove the front gasket and rear gasket.



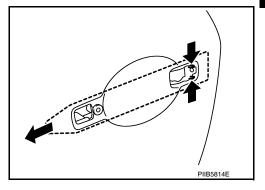
12. Remove the TORX bolts (T30), remove the door lock assembly.



13. Remove the TORX bolt (T30) (A) of the outside handle bracket.



14. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



15. Disconnect the door lock actuator connector and remove the door lock assembly.

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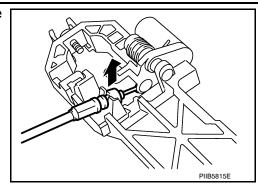
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16. Disconnect the outside handle cable from the outside handle bracket connection.



INSTALLATION

Installation is in the reverse order of removal.

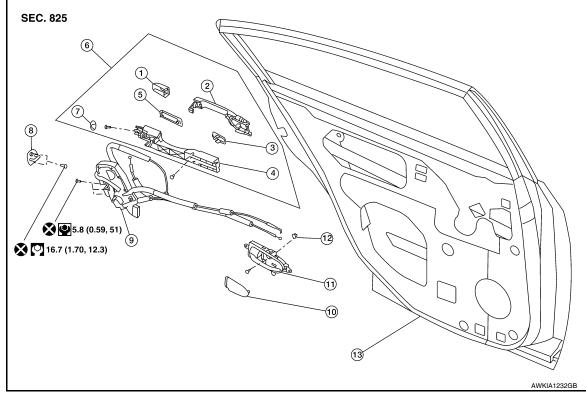
CAUTION:

When installing the key cylinder rod be sure to rotate the rod holder until a click is felt. BACK DOOR LOCK

BACK DOOR LOCK: Component Parts Location

INFOID:0000000004204937

INFOID:0000000004204936



- Outside handle escutcheon
- 4. Outside handle bracket
- 7. Hole plug
- 10. Cap
- 13. Rear door assembly
- 2. Outside handle
- 5. Rear gasket
- 8. Rear door striker
- 11. Inside handle assembly
- Front gasket
- Outside handle assembly
- Rear door lock assembly
- 12. Grommet

BACK DOOR LOCK: Removal and Installation

REMOVAL

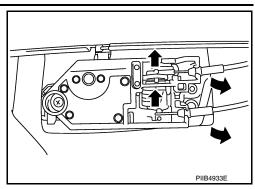
Remove the rear door finisher. Refer to INT-33, "Removal and Installation".

DOOR LOCK

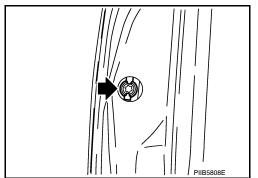
< ON-VEHICLE REPAIR >

[SEDAN WITH INTELLIGENT KEY]

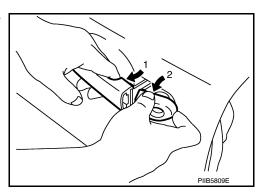
2. Disconnect the inside handle knob cable and lock knob cable from the back side of the inside door handle.



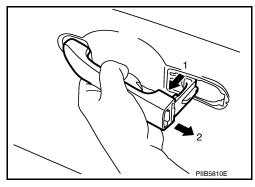
- 3. Remove the rear door sash. Refer to EXT-45, "Removal and Installation".
- 4. Remove the rear door window and rear door screen assembly.
- 5. Remove door side grommet, and remove outside handle escutcheon bolt (TORX T30) from grommet hole.



6. While pulling the outside handle (1), remove outside handle escutcheon (2).



7. While pulling outside handle (1), slide toward rear of vehicle (2) to remove outside handle.



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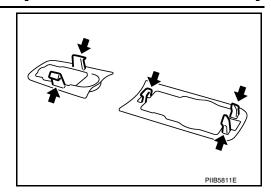
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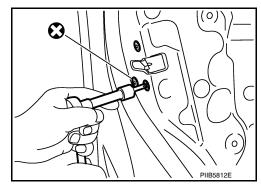
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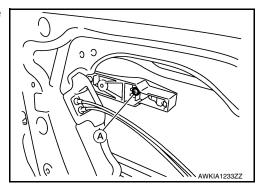
8. Remove the front gasket and rear gasket.



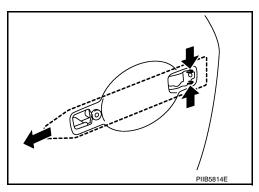
9. Remove the TORX bolts (T30), remove the door lock assembly.



10. Remove the TORX bolt (T30) (A) from the outside handle bracket.



11. While pulling outside handle, slide toward rear of vehicle to remove outside handle.



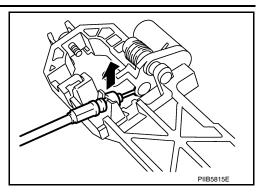
12. Disconnect the door lock actuator connector and remove the door lock assembly.

DOOR LOCK

< ON-VEHICLE REPAIR >

[SEDAN WITH INTELLIGENT KEY]

13. Disconnect the outside handle cable from the outside handle bracket.



INSTALLATION

Installation is in the reverse order of removal.

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TRUNK LID

[SEDAN WITH INTELLIGENT KEY]

TRUNK LID TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY: Removal and Installation

INFOID:0000000004204938

REMOVAL

- 1. Remove trunk lid finisher. Refer to INT-49, "Removal and Installation".
- 2. Disconnect the connectors in the trunk lid, and remove the harness clips to pull the harness out of the trunk lid.
- 3. Remove the bolts, and remove the trunk lid assembly.
- 4. Remove the rear spoiler (if equipped). Refer to EXT-49, "Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installing, apply touch-up paint (the body color) onto the head of the hinge bolts.
- After installing, check operation.
- After installing, perform fitting adjustment. Refer to <u>DLK-453</u>, "TRUNK LID ASSEMBLY: Adjustment".

TRUNK LID ASSEMBLY : Adjustment

INFOID:0000000004204939

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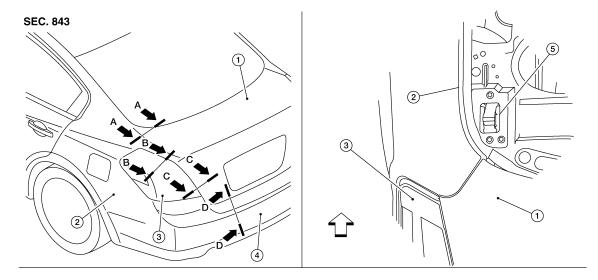
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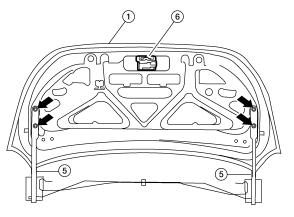
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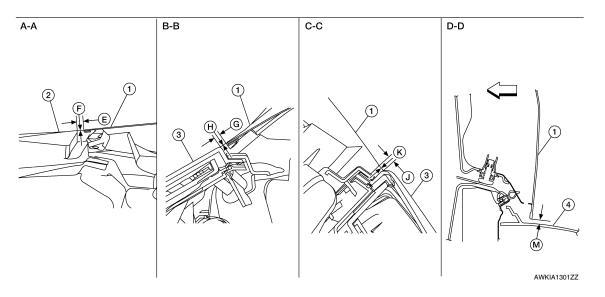
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- 1. Trunk lid assembly
- 4. Rear bumper fascia
- <
 → Front

- 2. Body side outer
- 5. Trunk lid hinge assembly
- 3. Rear combination lamp
- 6. Trunk lid latch assembly

[SEDAN WITH INTELLIGENT KEY]

Unit: mm (in)

Parts		Standard	Right/left clearance (MAX)
A – A	E	4.0 ± 1.0 (0.16 ± 0.04)	2.0 (0.08)
	F	-0.5 ± 1.0 (-0.02 ± 0.04)	2.0 (0.08)
B – B	G	4.0 ± 1.5 (0.16 ± 0.06)	2.0 (0.08)
	Н	-0.5 ± 1.5 (-0.02 ± 0.06)	2.0 (0.08)
0.0	J	$4.0 \pm 2.0 \; (0.16 \pm 0.08)$	_
C – C	K	$5.9 \pm 2.0 \; (0.23 \pm 0.08)$	_
D – D	M	$\textbf{5.9} \pm \textbf{2.0} \; (\textbf{0.23} \pm \textbf{0.08})$	_

LONGITUDINAL CLEARANCE

Trunk Lid Removed From Hinge

- 1. Check the clearance and the evenness between the trunk lid and each part by visual and tactile feeling.
- Loosen the trunk lid to hinge bolts.
- 3. Move the trunk lid so that the clearance measurements are within specifications.
- 4. Tighten the trunk lid to hinge bolts.

Trunk Lid Hinge Removed From Vehicle

- 1. Remove the parcel shelf trim. Refer to INT-41, "Removal and Installation".
- Loosen the hinge to parcel shelf bolts.
- 3. Move the trunk lid so that the clearance measurements are within specifications.
- Tighten the hinge to parcel shelf bolts.
- 5. Install the parcel shelf trim. Refer to INT-41, "Removal and Installation".

SURFACE HEIGHT ADJUSTMENT

- 1. Loosen the bumper rubber.
- 2. Loosen the striker bolts.
- Lift up the trunk lid approx. 100 150 mm (3.94 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
- 4. Finally tighten the trunk lid striker.

TRUNK LID LOCK

TRUNK LID LOCK: Removal and Installation

INFOID:0000000004204940

LOCK

Removal

- 1. Remove the trunk lid inner trim panel. Refer to INT-49, "Removal and Installation".
- Remove the bolts, disconnect the electrical connector, separate the emergency release handle, and remove the trunk lid lock.

Installation

Installation is in the reverse order of removal.

Striker

Removal

- Remove the trunk end finisher. Refer to <u>INT-49</u>, "Removal and Installation".
- Remove the bolts and the striker.

Installation

Installation is in the reverse order of removal.

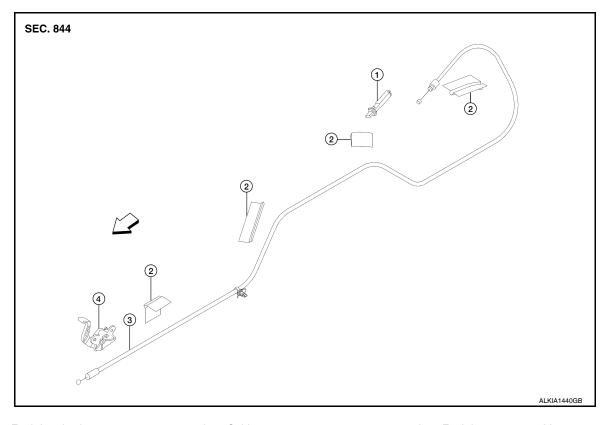
NOTE:

Align the trunk lid lock. Refer to DLK-453, "TRUNK LID ASSEMBLY: Adjustment".

[SEDAN WITH INTELLIGENT KEY]

FUEL FILLER LID

Exploded View



- 1. Fuel door latch
 - Fuel door opener handle
- 2. Cable protector
- <□ Front

3. Fuel door opener cable

Removal and Installation

REMOVAL

Remove the front and rear LH kicking plates. Refer to <u>INT-39</u>. "Removal and Installation".

2. Remove the rear seat. Refer to SE-58, "Removal and Installation".

- 3. Remove the LH front seat belt anchor. Refer to SB-7, "Exploded View".
- Remove the LH center pillar lower finisher. Refer to <u>INT-38</u>. "Exploded View".
- 5. Position the carpet aside.
- Remove the LH trunk side finisher. Refer to <u>INT-48</u>, "Exploded View".
- 7. Remove the fuel door opener handle and disconnect the fuel door opener cable.
- 8. Remove the fuel door latch and disconnect the fuel door opener cable.
- 9. Remove the fuel door opener cable.

INSTALLATION

Installation is in the reverse order of removal.

INFOID:0000000004458412 DLK

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Revision: February 2010 DLK-455 2009 Altima

REMOTE KEYLESS ENTRY RECEIVER

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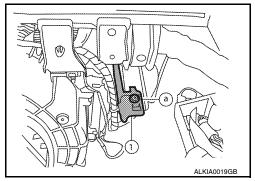
[SEDAN WITH INTELLIGENT KEY]

REMOTE KEYLESS ENTRY RECEIVER

Removal INFOID:000000004204941

REMOVAL

- 1. Remove glove compartment. Refer to IP-12, "Removal and Installation".
- 2. Remove the screw (a), lower the bracket and remote keyless entry receiver (1), then disconnect the harness and remove the receiver.



Installation INFOID:000000004204942

Installation is in the reverse order of removal.

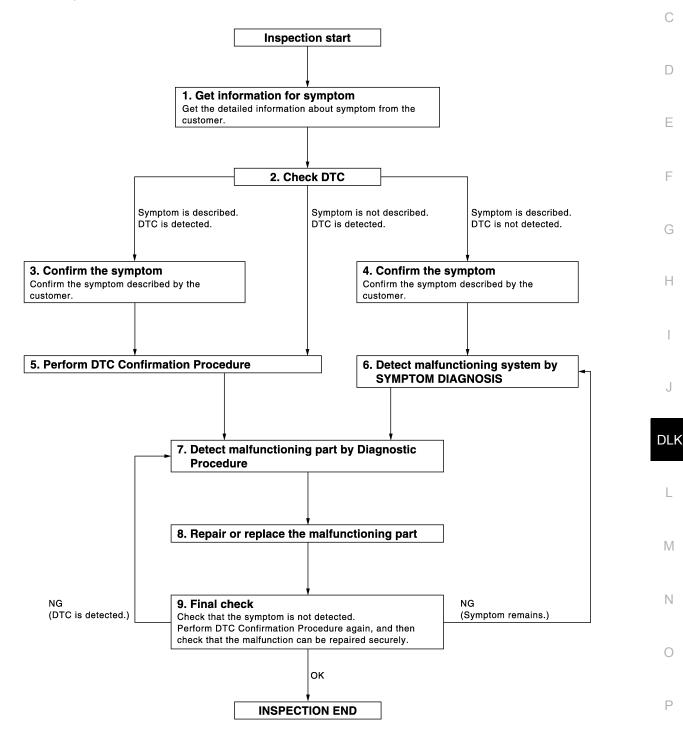
Α

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



JMKIA2270GB

DIAGNOSIS AND REPAIR WORKFLOW

[SEDAN WITHOUT INTELLIGENT KEY]

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2.CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3

Symptom is described, DTC is not displayed>>GO TO 4

Symptom is not described, DTC is displayed>>GO TO 5

3.confirm the symptom

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.

At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>DLK-578</u>, "<u>DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This
 simplified check procedure is an effective alternative though DTC cannot be detected during this check.
 If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

Yes >> GO TO 7

No >> Refer to GI-42, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to SYMPTOM TABLE based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[SEDAN WITHOUT INTELLIGENT KEY]

The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure. Is malfunctioning part detected?

YES

>> GO TO 8

NO >> Check voltage of related BCM terminals using CONSULT-III.

8.repair or replace the malfunctioning part

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replace-2. ment.
- 3. Check DTC. If DTC is displayed, erase it.

>> GO TO 9

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is the inspection result normal?

NO (DTC is detected)>>GO TO 7 NO (Symptom remains)>>GO TO 6

YES >> Inspection End.

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[SEDAN WITHOUT INTELLIGENT KEY]

INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

NFOID:0000000004496871

Perform the system initialization when replacing BCM, replacing keyfob or registering an additional keyfob.

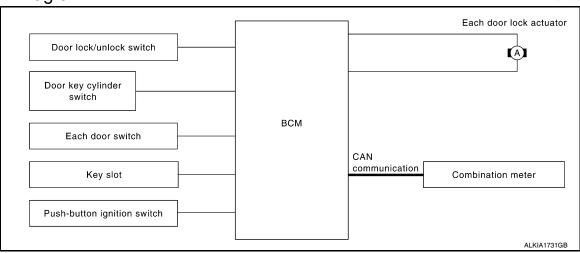
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

Refer to the CONSULT-III Operation Manual for the initialization procedure.

FUNCTION DIAGNOSIS

AUTOMATIC DOOR LOCKS

System Diagram



System Description

INFOID:0000000004496874

INFOID:0000000004496873

Input	Single	Function	Actuator	
Door lock/unlock switch	Door lock/unlock signal	Door lock function	Each door lock actuator	
Door key cylinder switch	Door lock/utilock signal	DOOF TOCK TUTICUOTT		
Each door switch	Door open/close signal			
Key slot	Key insert/remove signal	Key reminder function		
	Warning buzzer signal			
Combination meter	Vehicle speed signal	Automatic door lock/unlock function		

DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is build into power window main switch.
- The door lock and unlock switch (passenger side) is on door trim.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to "LOCK", will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to "UNLOCK" once unlocks the driver side door lock actuator; turning it to "UNLOCK" again within 60 seconds after the first unlock operation unlocks all of the other doors. - (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using "DOOR LOCK-UNLOCK SET" mode in "WORK SUP-PORT". Refer to DLK-272, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

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AUTOMATIC DOOR LOCKS

< FUNCTION DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

If a door is opened and closed at any time during one ignition cycle (OFF \rightarrow ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

(P)With CONSULT-III

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to <u>DLK-272</u>. "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Without CONSULT- III

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Push the ignition switch to the ON position
- Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
- 4. The switching is completed when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

The ignition switch must be turned OFF and ON again between each setting change.

AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

IGN OFF Interlock Door Unlock*1

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

(P)With CONSULT- III

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT-III. Refer to DLK-272, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Without CONSULT- III

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Push the ignition switch to the ON position
- Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
- 4. The switching is completed when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $ON \rightarrow OFF$: 1 blink

- The ignition switch must be turned OFF and ON again between each setting change.
- *1: This function is set to ON before delivery.

Component Parts Location

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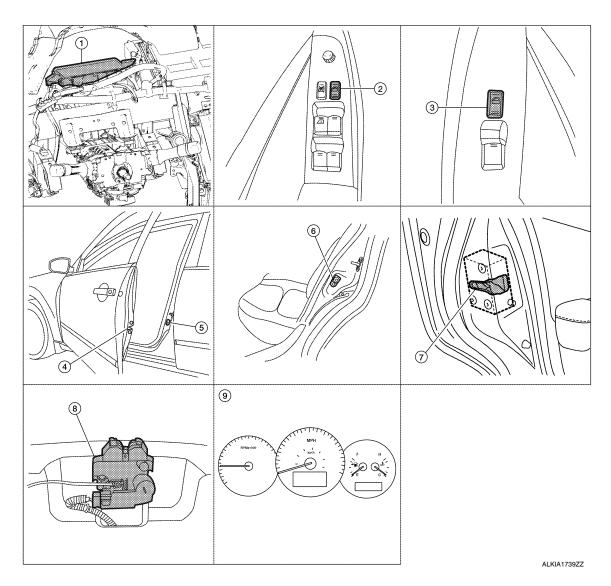
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- BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- Front door lock assembly LH (key cylinder switch) D10
 Front door lock actuator RH D108
- Rear door lock actuator LH D205 RH D305

- Main power window and door lock/un- 3. lock switch D7, D8
- 5. Front door switch LH B8 RH B108
- 8. Trunk lamp switch and trunk release solenoid B28
- Power window and door lock/unlock switch RH D105
- 6. Rear door switch LH B18 RH B116
 - Combination meter M24

Component Description

Item	Function
BCM	Controls the door lock function and fuel lid door lock actuator function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Door key cylinder switch	 Input lock or unlock signal to power window main switch. Power window main switch transmits door lock/unlock signal to BCM.

AUTOMATIC DOOR LOCKS

< FUNCTION DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Item	Function
Key slot	Input key insert/remove signal to BCM.
Combination meter	 Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to CAN communication line.
Push-button ignition switch	Input push-button ignition switch ON/OFF condition to BCM.

DOOR LOCK FUNCTION

System Diagram

INFOID:0000000004496877

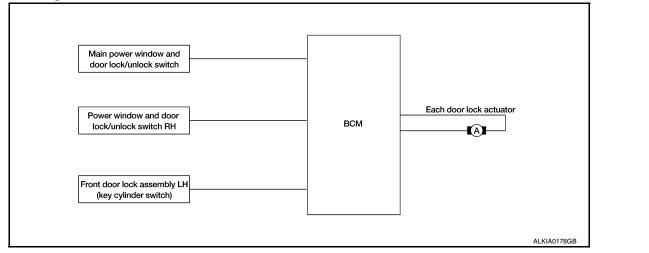
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System Description

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Switch	Input/output signal to BCM	BCM function	Actuator
Main power window and door lock/unlock switch			
Power window and door lock/ unlock switch	Door lock/unlock signal	Door lock/unlock control	Door lock actuator
Door key cylinder switch			

DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door

- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all door lock actuators are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all door lock actuators are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door

 Interlocked with the locking operation of door key cylinder, door lock actuators of all door lock actuators are locked.

Selective Unlock Operation

- · When door key cylinder is unlocked, door lock actuator driver side is unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using DOOR LOCK-UNLOCK SET mode in "WORK SUP-PORT". Refer to <u>DLK-475</u>, "DOOR LOCK : <u>CONSULT-III Function</u> (<u>BCM - DOOR LOCK</u>)".

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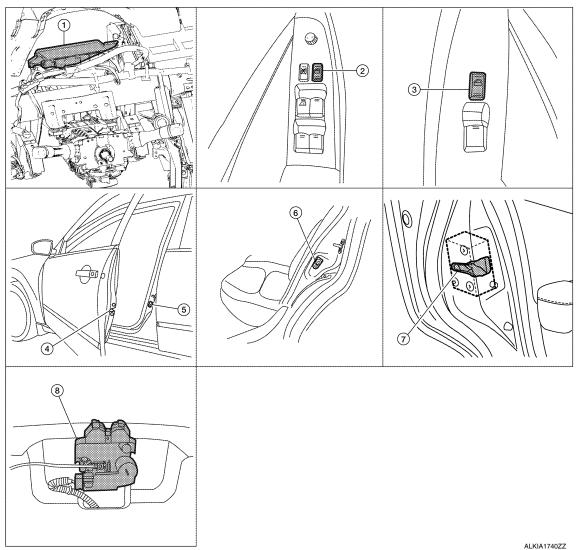
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Component Parts Location

INFOID:0000000004496879



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- 1. BCM M16, M17, M18, M19, M21 (view with instrument panel removed)
- Front door lock assembly LH (key cylinder switch) D10
 Front door lock actuator RH D108
- Rear door lock actuator LH D205 RH D305

- Main power window and door lock/un- 3. lock switch D7, D8
- 5. Front door switch LH B8 RH B108
- 8. Trunk lamp switch and trunk release solenoid B28
- Power window and door lock/unlock switch RH D105
- 6. Rear door switch LH B18 RH B116

Component Description

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Transmits lock or unlock signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Transmits door open/close condition to BCM.

REMOTE KEYLESS ENTRY SYSTEM

System Diagram

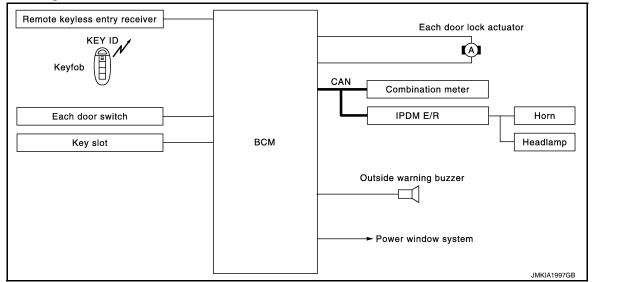
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System Description

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The remote keyless entry system can be locked and unlocked by pressing door lock and unlock button of keyfob.

DOOR LOCK AND UNLOCK OPERATION

- When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM via remote keyless entry receiver.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, flashes the hazard lamp (lock: 2 times, unlock: 1 time) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 time) as a reminder.

OPERATION CONDITION

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF (keyfob is removed from key slot).

OPERATION AREA

To ensure that the keyfob works effectively, use within 100 cm (3ft) range of each door, however the operable range may differ according to surroundings.

SELECTIVE UNLOCK OPERATION

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors.

HAZARD AND HORN REMINDER

When the doors are locked or unlocked by keyfob, power is supplied to sound horn and flash hazard warning lamps as a reminder

The hazard and horn reminder has C mode (horn chirp mode) and S mode (non-horn chirp mode).

How to Change Hazard and Horn Reminder Modes

(III) With CONSULT-III

Hazard and horn reminders can be changed using "WORK SUPPORT" mode in "MULTI ANSWER BACK SET".

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REMOTE KEYLESS ENTRY SYSTEM

< FUNCTION DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Hazard reminder setting	Мо	de 1	Мо	de 2	Mode 3		Mode 4	
Keyfob operation	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Hazard warning lamp blink	_	_	_	Once	Twice	_	Twice	Once

Horn reminder setting	C	N	OFF	:
Keyfob operation	Lock	Unlock	Lock	Unlock
Horns sound	Once	_	_	_

Hazard and horn reminders do not operate if any door switch is ON (any door is OPEN).

Hazard reminder can be changed using "HAZARD LAMP SET" mode in "WORK SUPPORT".

Horn reminder can be changed using "HORN CHIRP SET" mode in "WORK SUPPORT".

Refer to DLK-475, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

Without CONSULT-III

Refer to Owner's Manual for instructions.

AUTO DOOR LOCK OPERATION

When all doors are locked, ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (keyfob is not inserted in key slot), doors are unlocked with keyfob button. When BCM does not receive the following signals within 1 minute, all doors are locked.

- Door switch is ON (door is opened)
- Door is locked
- · Ignition switch is ON
- Key switch is ON (keyfob is inserted in key slot)

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-475</u>, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

PANIC ALARM OPERATION

When key switch is OFF (when keyfob is not inserted in key slot), BCM turns ON and OFF horn intermittently with input of PANIC ALARM signal from keyfob.

BCM outputs to IPDM E/R for panic alarm signal (horn signal) via CAN communication lines.

The alarm automatically turns OFF after 25 seconds or when BCM receives any signal from keyfob.

Panic alarm operation mode can be changed using "PANIC ALARM SET" mode in "WORK SUPPORT".

Refer to DLK-475, "DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)".

INTERIOR LAMP TIMER OPERATION

When the following conditions occur, remote keyless entry system turns on interior lamp with input of UNLOCK signal from keyfob. For detailed description, refer to INL-6, "System Description".

- Interior room lamp switch is in the DOOR position
- Door switch OFF (when all the doors are closed)

DOOR LOCK OPERATION WARNING

Outside warning buzzer will sound, when keyfob LOCK button is pressed with either one of the following conditions.

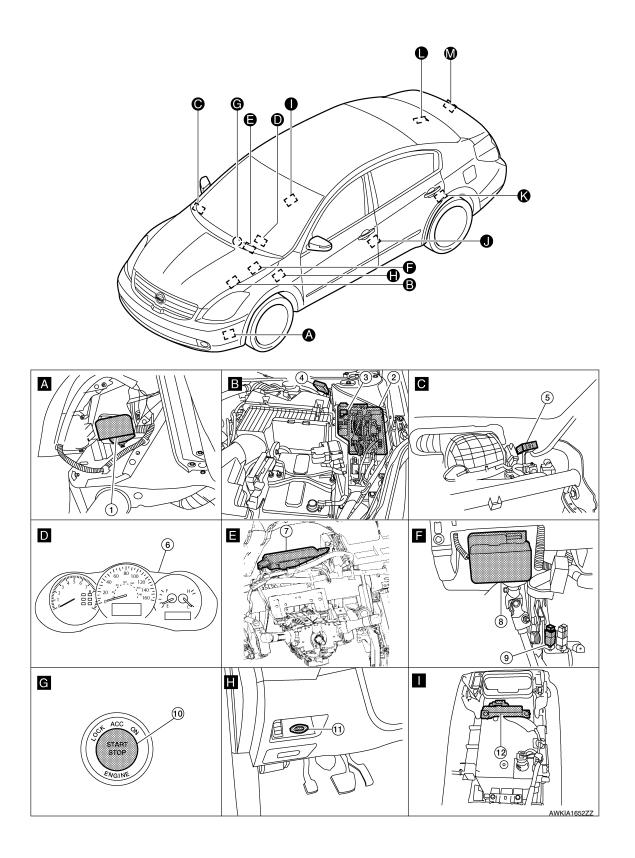
- Any door is open
- For 3 seconds after keyfob is removed from key slot

KEYFOB LOW BATTERY WARNING

Warning lamp is illuminated; when BCM detects keyfob low battery after ignition switch is turned ON.

Component Parts Location

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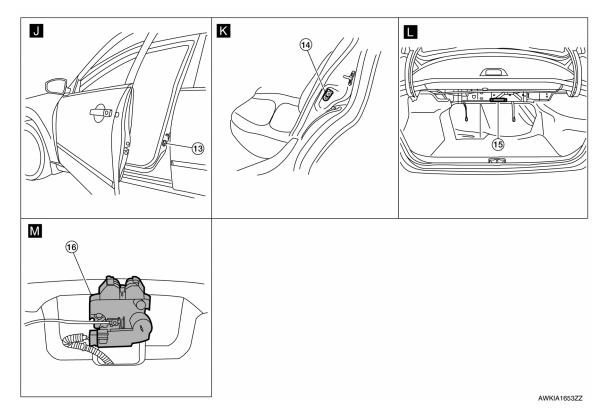
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- Horn E216

 (view with front fender protector LH removed)
- 4. Outside warning buzzer E73
- 7. BCM M16, M17, M18, M19, M20, M21 (view with instrument panel removed)
- 10. Push button ignition switch M38
- 13. Front door switch LH B8 RH B108
- Trunk lamp switch and trunk release solenoid B28

- 2. IPDM E/R E17, E18
- Remote keyless entry receiver M27 (view with instrument panel removed)
- Electronic steering column lock M32 (view with instrument panel LH removed)
- 11. Key slot M40
- 14. Rear door switch LH B18 RH B116

- . Horn relay H-1
- 6. Combination meter M24
- Stop lamp switch E38
- Front console antenna M203 (view with center console assembly removed)
- 15. Rear parcel shelf antenna B29

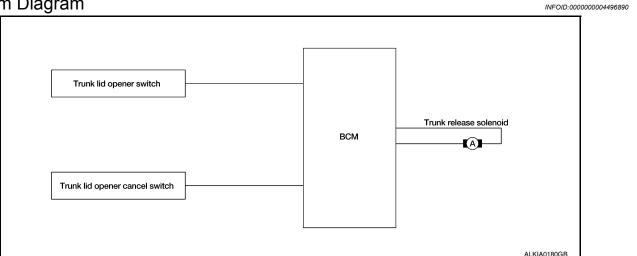
Component Description

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Item	Function	
BCM	Controls the door lock and unlock function.	
Key slot	Detects that keyfob is inserted into key slot.	
Door lock actuator	Output lock / unlock signal from BCM and locks and unlocks each door.	
Remote keyless entry receiver	Receives lock/unlock signal from the keyfob, and then transmits to BCM.	
Keyfob	Transmits button operation to remote keyless entry receiver.	

TRUNK OPEN FUNCTION

System Diagram



System Description

INFOID:0000000004496891

Switch	Input/output signal to BCM	BCM function	Actuator
Trunk lid opener switch	Trunk open signal	Trunk open control	Trunk lid opener actuator
Trunk lid opener cancel switch	Trunk open signal	Trunk open control	Trunk ilu opener actuator

TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM opens trunk opener actuator.

BCM can open trunk lid opener actuator when

- vehicle speed is less than 5 km/h (3MPH)
- · vehicle security system is disarmed or pre-armed phase

BCM does not open trunk lid opener actuator when

- trunk lid opener cancel switch is OFF (CANCEL)
- vehicle speed is more than 5 km/h (3MPH)
- · vehicle security system is armed or alarm phase
- · Within 3 seconds of removing the keyfob from the key slot

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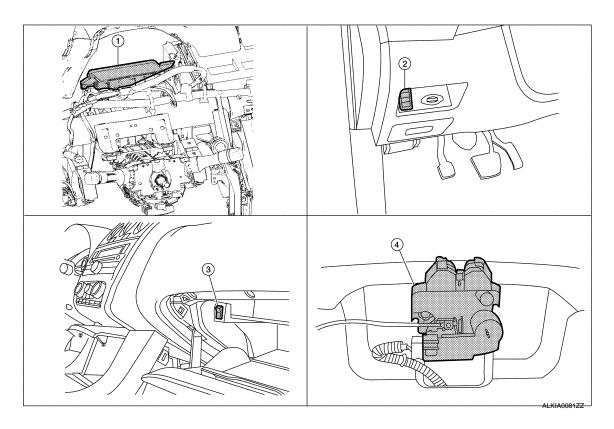
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Component Parts Location

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- 1. BCM M16, M17, M18, M20, M21
- 4. Trunk lamp switch and trunk release solenoid B28
- 2. Trunk lid opener switch M75
- 3. Trunk lid opener cancel switch M74

Component Description

INFOID:0000000004496893

Item	Function
BCM	Transmits trunk open operation to BCM.
Trunk lid opener switch	Transmits trunk open operation to BCM.
Trunk release solenoid	Opens the trunk with the open signal from BCM
Trunk lid opener cancel switch	Cancels the trunk open operation.

HOMELINK UNIVERSAL TRANSCEIVER

< FUNCTION DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

HOMELINK UNIVERSAL TRANSCEIVER

Component Description

INFOID:0000000004496910

Item	Function	Reference page
Homelink universal transceiver	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.	Refer to Owner's Manual

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COMMON ITEM

COMMON ITEM: Diagnosis Description

INFOID:0000000004496911

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.
ECU IDENTIFICATION	The BCM part number is displayed.
CONFIGURATION	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

System	Sub system selection item WORK SUPPORT	Diagnosis mode		
		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Remote keyless entry system	MUTI REMOTE ENT	×	×	×
Exterior lamp	HEADLAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	

COMMON ITEM: CONSULT-III Function

INFOID:0000000004496912

ECU IDENTIFICATION Displays the BCM part No.

SELF-DIAG RESULT

Refer to BCS-93, "DTC Index".

< FUNCTION DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

DOOR LOCK

DOOR LOCK: CONSULT-III Function (BCM - DOOR LOCK)

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WORK SUPPORT

Work Item	Description
DOOR LOCK-UNLOCK SET	• ON • OFF
AUTOMATIC DOOR LOCK SELECT	SHIFT OUT OF P VH SPD
AUTOMATIC DOOR UNLOCK SE- LECT	 MODE1 MODE2 MODE3 MODE4 MODE5 MODE6
AUTOMATIC LOCK/UNLOCK SE- LECT	• ON • OFF

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [ON/OFF]	Indicates condition of door request switch LH
REQ SW-AS [ON/OFF]	Indicates condition of door request switch RH
REQ SW-BD/TR [ON/OFF]	Indicates condition of trunk request switch
CDL LOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
CDL UNLOCK SW [ON/OFF]	Indicates condition of door lock and unlock switch
DOOR SW-DR [ON/OFF]	Indicates condition of front door switch LH
DOOR SW-AS [ON/OFF]	Indicates condition of front door switch RH
DOOR SW-RR [ON/OFF]	Indicates condition of rear door switch RH
DOOR SW-RL [ON/OFF]	Indicates condition of rear door switch LH
DOOR SW-BK [ON/OFF]	Indicates condition of trunk switch
KEY CYL LK-SW [ON/OFF]	Indicates condition of lock signal from door key cylinder switch
KEY CYL UN-SW [ON/OFF]	Indicates condition of unlock signal from door key cylinder switch

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK].

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:0000000004507209

DATA MONITOR

Monitor Item	Condition
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.

[SEDAN WITHOUT INTELLIGENT KEY]

Monitor Item	Condition
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
DOOR SW-BK	NOTE: This item is displayed, but cannot be monitored.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from keyfob.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from keyfob.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from keyfob.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of keyfob.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from keyfob.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from keyfob.
KEY CYL LK-SW	Indicated [ON/OFF] condition of lock signal from door key cylinder.
KEY CYL UN-SW	Indicated [ON/OFF] condition of unlock signal from door key cylinder.
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.

ACTIVE TEST

Test item	Description		
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated after "ON" on CONSULT-III screen is touched.		
LUGGAGE LAMP TEST	NOTE: This item is displayed, but cannot be tested.		
DOOR LOCK	 This test is able to check door lock/unlock operation. The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched. The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched. The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched. The door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT- III screen is touched. The door lock actuator (rear LH and RH) is unlocked when "OTR ULK" on CONSULT-III screen is touched. 		
FLASHER	This test is able to check flasher operation [LH/RH/OFF].		
HORN	This test is able to check horn operation [ON/OFF].		
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when "ON" on CONSULT-III screen is touched.		
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be tested.		
AUTOMATIC BACK DOOR	NOTE: This item is displayed, but cannot be tested.		

WORK SUPPORT

Test item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.
HORN CHIRP SET	Answer back function (horn) mode can be changed in this mode. For the detail of the setting.

< FUNCTION DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Test item	Description
HAZARD LAMP SET	Answer back function (hazard) mode can be changed in this mode. • MODE1: Non-operation • MODE2: Lock (non-operation) Unlock (blink once) • MODE3: Lock (blink towice) Unlock (non-operation) • MODE4: Lock (blink towice) Unlock (blink once)
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 5 minutes
PANIC ALARM SET	Panic alarm button pressing time on keyfob remote control button can be selected from the following with this mode. • MODE1: 0.5 sec. • MODE2: 1.5 sec. • MODE3: Non-operation
PW DOWN SET	Unlock button pressing time on keyfob button can be selected from the following with this mode. • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 se

TRUNK

TRUNK: CONSULT-III Function (BCM - TRUNK)

INFOID:0000000004496915

DATA MONITOR

Contents Monitor Item **PUSH SW** Indicates [ON/OFF] condition of push button ignition switch. **UNLK SEN-DR** Indicates [ON/OFF] condition of driver door UNLOCK status. **VEH SPEED 1** Indicates [Km/h] condition of vehicle speed signal from combination meter. NOTE: **KEY CYL SW-TR** This item is displayed, but cannot be monitored. TR CANCEL SW Indicates [ON/OFF] condition of trunk cancel switch. TR/BD OPEN SW Indicates [ON/OFF] condition of trunk opener switch. TRNK/HAT MNTR Indicates [ON/OFF] condition of trunk lid. RKE-TR/BD Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
TRUNK/GLASS HATCH	This test is able to check trunk open operation. Trunk opens when "OPEN" on CONSULT-III screen is touched.

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U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000004496920

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (MULTI AV) Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000004496922

1.PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-42, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:0000000004496924

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to <u>BCS-100, "Removal and Installation"</u>.

Special Repair Requirement

INFOID:0000000004496925

1. REQUIRED WORK WHEN REPLACING BCM

Initialize NVIS by CONSULT-III. For the details of initialization refer to CONSULT-III Operation Manual.

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>> Work End.

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B2622 INSIDE KEY ANTENNA 2

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

B2622 INSIDE KEY ANTENNA 2

Description INFOID:00000000449692S

Detects whether keyfob is inside the vehicle. Installed in the console.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	 Front console antenna Between BCM and front console antenna.

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT-III

- 1. Perform front console antenna INSIDE ANT DIAGNOSIS on "Work Support" of "MULTI REMOTE ENTRY".
- 2. Perform "MULTI REMOTE ENTRY" Self Diagnostic Result.

Is front console antenna DTC detected?

YES >> Refer to <u>DLK-480, "Diagnosis Procedure"</u>.

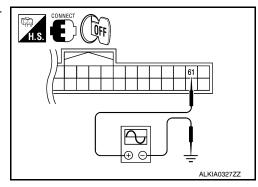
NO >> Front console antenna is OK.

Diagnosis Procedure

INFOID:0000000004496931

1. CHECK FRONT CONSOLE ANTENNA INPUT SIGNAL 1

- 1. Turn ignition switch OFF.
- 2. Check signal between BCM connector and ground with oscilloscope.



B2622 INSIDE KEY ANTENNA 2

[SEDAN WITHOUT INTELLIGENT KEY]

< COMPONENT DIAGNOSIS >

Terminals					0:
(+) BCM connector Terminal		()	Condition	Signal (Reference value.)	
		(–)		,	
M19	Front console	61	Ground	Place keyfob inside the vehicle.	(V) 15 10 5 0 1 S S S S S S S S S
IVIII	antenna	01	Glound	Place keyfob outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Check the condition of harness and connector.

NO >> GO TO 2

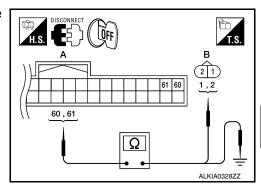
2.CHECK FRONT CONSOLE ANTENNA CIRCUIT

- 1. Disconnect BCM and front console antenna connector.
- 2. Check continuity between BCM connector and front console antenna connector.

BCM connector	Terminal		nsole antenna nnector	Terminal	Continuity
A: M19	60	B: M41	Console	2	Yes
A. W19	61	D. IVIT I	Console	1	163

3. Check continuity between BCM connector and ground.

BCM connector		Terminal		Continuity
A: M19	Consolo	60	Ground	No
A. WHY	Console	61		INO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and front console antenna.

${f 3.}$ CHECK FRONT CONSOLE ANTENNA INPUT SIGNAL 2

- 1. Replace front console antenna (new antenna or other antenna).
- 2. Connect BCM and front console antenna connector.

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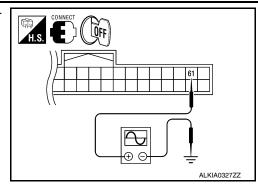
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B2622 INSIDE KEY ANTENNA 2

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Check signal between BCM connector and ground with oscilloscope.



	Terminals				
(+)		()	Condition	Signal (Reference value.)	
ВС	BCM connector Terminal		(-)		(,
M19	Front console	61	Ground	Place keyfob inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
MIA	antenna	01	Glound	Place keyfob outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Replace front console antenna. Refer to IP-19, "Disassembly and Assembly".

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

B2623 INSIDE KEY ANTENNA 3

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

B2623 INSIDE KEY ANTENNA 3

Description INFOID:000000004496932

Detects whether keyfob is inside the vehicle. Installed in the trunk room.

DTC Logic

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3 CIRCUIT	An excessive high or low voltage from rear parcel shelf antenna is sent to BCM.	 rear parcel shelf antenna Between BCM and rear parcel shelf antenna

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

(P)With CONSULT-III

- 1. Perform rear parcel shelf antenna INSIDE ANT DIAGNOSIS on "Work Support" of "MULTI REMOTE ENTRY".
- 2. Perform "MULTI REMOTE ENTRY" Self Diagnostic Result.

Is rear parcel shelf antenna DTC detected?

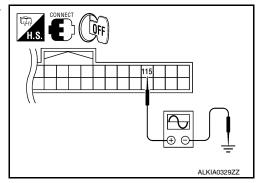
YES >> Refer to <u>DLK-483</u>, "<u>Diagnosis Procedure</u>".

NO >> Rear parcel shelf antenna is OK.

Diagnosis Procedure

1. CHECK REAR PARCEL SHELF ANTENNA INPUT SIGNAL 1

- Turn ignition switch OFF.
- Check signal between BCM connector and ground with oscilloscope.



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	Terminals (+) (-) BCM connector Terminal				
			(_)	Condition	Signal (Reference value.)
BCI			(-)		, ,
M21	Rear parcel	115	Ground	Place keyfob inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
IVIZI	shelf antenna	119	Glounu	Place keyfob outside the vehicle.	(V) 15 10 5 0 1 s JMKIA0063GB

Is the inspection result normal?

YES >> Check the condition of harness and connector.

NO >> GO TO 2

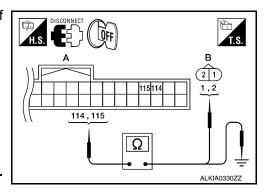
$2.\mathsf{CHECK}$ REAR PARCEL SHELF ANTENNA CIRCUIT

- 1. Disconnect BCM and rear parcel shelf antenna connector.
- 2. Check continuity between BCM connector and rear parcel shelf antenna connector.

BCM connector	Terminal	Rear parcel shelf antenna connector		Terminal	Continuity
A: M21	114	B: B29	Trunk room	2	Yes
A. IVIZ I	115	D. D29	Trank room	1	162

3. Check continuity between BCM connector and ground.

A: M21 Trunk room 114 Ground No	BCM	1 connector	Terminal		Continuity
	Λ· M21	Trunk room	114	Ground	No
115	A. IVIZ I	Trunk room	115		INO



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and rear parcel shelf antenna.

${f 3.}$ CHECK REAR PARCEL SHELF ANTENNA INPUT SIGNAL 2

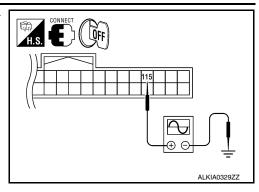
- 1. Replace rear parcel shelf antenna (new antenna or other antenna).
- 2. Connect BCM and rear parcel shelf antenna connector.

B2623 INSIDE KEY ANTENNA 3

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

3. Check signal between BCM connector and ground with oscilloscope.



	Terr	minals			
	(+)		()	Condition Signal (Reference value.)	
BCI	M connector	Terminal	(–)		(111 11 11 11 1
M21	Trunk room	115	Ground	Place keyfob inside the vehicle.	(V) 15 10 5 0 1 s JMKIA0062GB
WZI	Hullik 100111	113	Glound	Place keyfob outside the vehicle.	(V) 15 10 5 0 JMKIA0063GB

Is the inspection result normal?

YES >> Replace rear parcel shelf antenna. Refer to INT-41, "Removal and Installation".

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

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POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000004496935

1. CHECK FUSE AND FUSIBLE LINK

Check if the following BCM fuse or fusible link are blown.

Terminal No.	Signal name	Fuse and fusible link No.
1	Rattery nower supply	Н
11	Battery power supply	10

Is the fuse or fusible link blown?

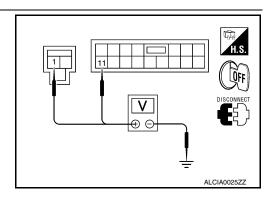
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM.
- 3. Check voltage between BCM harness connector and ground.

((+) (-) Vo		Voltage (Approx.)
В	СМ		(Approx.)
Connector	Terminal	Ground	
M16	1	Ground Battery volt	
M17	11		Battery voltage



Is the measurement normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

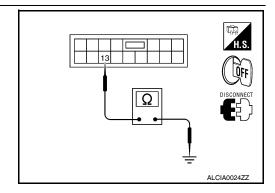
Check continuity between BCM harness connector and ground.

В	CM	Continuity	
Connector	Terminal	Ground	Continuity
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



INFOID:0000000004496936

Special Repair Requirement

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to BCS-6, "CONFIGURATION (BCM): Special Repair Requirement".

>> Work End.

DOOR SWITCH

Description INFOID:0000000004496938

Detects door open/close condition.

Component Function Check

1.CHECK FUNCTION

(II) With CONSULT-III

Check door switches DOOR SW-DR, DOOR SW-AS, DOOR SW-RL, DOOR SW-RR in Data Monitor mode with CONSULT-III.

Monitor item	Condition
DOOR SW-DR	
DOOR SW-AS	CLOSE → OPEN: OFF → ON
DOOR SW-RL	
DOOR SW-RR	

Is the inspection result normal?

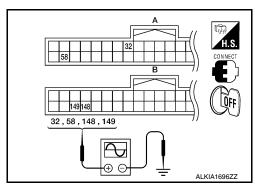
YES >> Door switch is OK.

NO >> Refer to <u>DLK-487</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Check signal between BCM connector and ground with oscilloscope.



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	Terminals															
(-	+)		Door co	ndition	Voltage (V)											
BCM connector	Terminal	(–)			(Approx.)											
				OPEN	0											
A: M18	58		Driver side	CLOSE	(V) 15 10 5 0 JPMIA0011GB											
A. IVI 10				OPEN	0											
	32				Onward	Passenger side Ground	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB								
		148 Rear RH	OPEN	0												
B: M21	148														Rear RH	CLOSE
B. IVI∠ I				OPEN	0											
	149			Rear LH	CLOSE	(V) 15 10 5 0 10 ms										

Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
A: M18	58	C: B8 (Driver side)		
A. WHO	32	C: B108 (Passenger side)	2	Yes
B: M21	148	C: B116 (Rear RH)	2	168
D. IVIZ I	149	C: B18 (Rear LH)		

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	58		
A. WHO	32	Ground	No
B: M21	148		NO
D. IVIZ I	149		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door switch.

3. CHECK DOOR SWITCH

Refer to DLK-489, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004496941

1. CHECK DOOR SWITCH

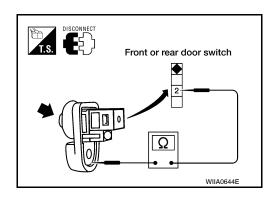
- 1. Turn ignition switch OFF.
- 2. Disconnect door switch connector.
- 3. Check door switch.

Terminal		Door switch condition	Continuity	
Door	switch	Door switch condition	Continuity	
2	Ground part of	Pressed	No	
	door switch	Released	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.



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DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004496942

Transmits door lock/unlock operation to BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000004496943

1. CHECK FUNCTION

(P)With CONSULT-III

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT-III.

Monitor item	Condition		
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-490</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

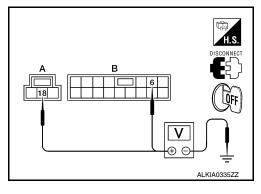
DRIVER SIDE: Diagnosis Procedure

INFOID:0000000004496945

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch ON.
- Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Term	ninal	Voltage
D8	$Neutral \to Lock$	18	Ground	Battery voltage → 0
D7	Neutral → Unlock	6	Ground	battery voltage → 0



Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.check power window switch ground

- 1. Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch connector.
- 3. Check continuity between main power window and door lock/ unlock switch connector and ground.

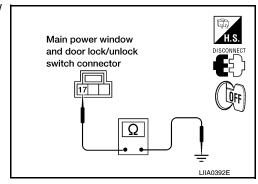
Main power window and door lock/unlock switch connector	Terminal		Continuity
D8	17	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK POWER WINDOW SWITCH



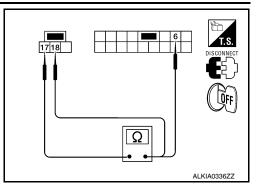
DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity	
Lock	17 - 18	Yes	
Unlock	6 - 17	163	
Neutral/Lock	6 - 17	No	
Neutral/Unlock	17 - 18	INU	



Is the inspection result normal?

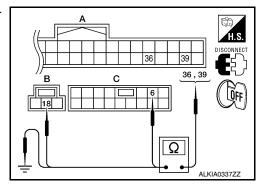
YES >> GO TO 4

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-193, "Removal and Installation".

f 4 . CHECK POWER WINDOW SWITCH CIRCUITS

- Disconnect BCM connector.
- Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
A: M18	36	B: D8	18	Yes
A. IVITO	39	C: D7	6	103



Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity		
A: M18	36	Ground	No	
A. W10	39	Ground	NO	

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE: Description

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

(P)With CONSULT-III

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT-III.

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DLK-491 Revision: February 2010 2009 Altima

Monitor item		Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
CDE UNLOCK SW	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to DLK-492, "PASSENGER SIDE : Diagnosis Procedure".

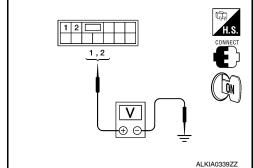
PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004496950

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- Turn ignition switch ON.
- Check voltage at the power window and door lock/unlock switch RH connector when the switch (passenger side) is turned to "LOCK" or "UNLOCK".

Connector	Power window and door lock/unlock switch RH state	Terminal		Voltage
D105	$Neutral \to Lock$	2	Ground	Battery voltage → 0
פטום	Neutral → Unlock	1	Ground	Battery voltage -> 0



Is the inspection result normal?

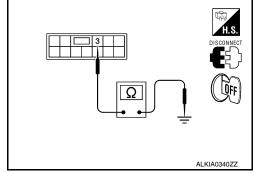
YES >> GO TO 5

NO >> GO TO 2

2.check power window switch ground

- Turn ignition switch OFF.
- Disconnect power window and door lock/unlock switch RH connector.
- Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/ unlock switch RH connector	Terminal		Continuity
D105	3	Ground	Yes



Is the inspection result normal?

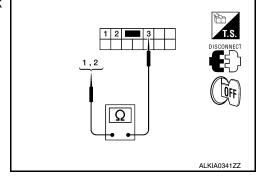
YES >> GO TO 3

NO >> Repair or replace harness.

3.CHECK POWER WINDOW SWITCH

Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH state	Terminals	Continuity	
Lock	2 - 3	Yes	
Unlock	1 - 3	168	
Neutral/Unlock	2 - 3	No	
Neutral/Lock	1 - 3	- No	



Is the inspection result normal?

YES >> GO TO 4

NO >> Replace power window and door lock/unlock switch RH.

DOOR LOCK AND UNLOCK SWITCH

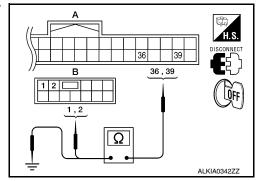
< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

4. CHECK POWER WINDOW SWITCH CIRCUITS

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
A: M18	36	B: D105	1	Yes
A. IVI 10	39	B. D105	2	162



3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity	
A: M18	36	Ground	No	
A. WTO	39	Ground	NO	

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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[SEDAN WITHOUT INTELLIGENT KEY]

KEY SLOT

Description

Detects whether keyfob is inserted.

Immobilizer antenna amp checks keyfob transponder.

Component Function Check

INFOID:0000000004496953

1. CHECK FUNCTION

(P)With CONSULT-III

Check KEY SW -SLOT in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
KEY SW-SLOT	Key is inserted in key slot: ON	
	Key is removed from key slot: OFF	

Is the inspection result normal?

YES >> Key slot is OK.

NO >> Refer to <u>DLK-494</u>, "<u>Diagnosis Procedure</u>".

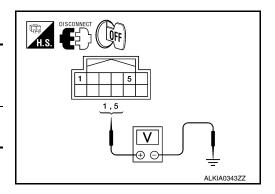
Diagnosis Procedure

INFOID:0000000004496954

1. CHECK KEY SLOT POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect key slot connector.
- 3. Check voltage between key slot connector and ground.

Terminals			V-11 0.0
(+)		(–)	Voltage (V) (Approx.)
Key slot connector	Terminal	(-)	,
M40	1	Ground	Battery voltage
IVITO	5	Ground	Battery voltage



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace key slot power supply circuit.

2.CHECK KEY SLOT GROUND CIRCUIT

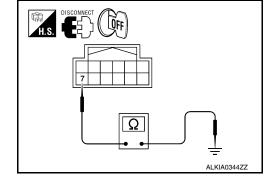
Check continuity between key slot connector and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot ground circuit.



3. CHECK KEY SLOT CIRCUIT

1. Disconnect BCM connector.

KEY SLOT

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between BCM connector and key slot connector.

BCM connector	Terminal	Key slot con- nector	Terminal	Continuity
A: M18	29		11	
B: M19	68	C: M40	2	Yes
D. W19	69		3	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
A: M18	29		
B: M19	68	Ground	No
	69		

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness between BCM and key slot.

4. CHECK KEY SLOT

Refer to DLK-495, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace key slot.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000004496955

1. CHECK KEY SLOT

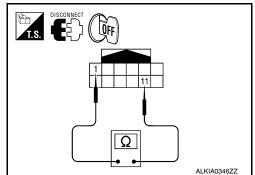
Check key slot.

Terr	minal	Condition	Continuity	
Key	slot	Condition	Continuity	
1	11	Keyfob inserted	Yes	
ı	1 11	Keyfob removed	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace key slot. Refer to <u>SEC-432</u>, "Removal and Installation".



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KEY CYLINDER SWITCH

Description INFOID:000000004496956

For vehicles equipped with LH and RH anti-pinch system, the main power window and door lock/unlock switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signal.

For vehicles equipped with LH anti-pinch system only, the front door lock assembly LH (key cylinder switch) transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:0000000004496957

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT-III. Refer to <u>DLK-457</u>, "Work Flow".

Monitor item	Condition		
KEY CYL LK-SW	Lock	: ON	
RET CTE EN-SW	Neutral / Unlock	: OFF	
KEY CYL UN-SW	Unlock	: ON	
RET CTL UN-SW	Neutral / Lock	: OFF	

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Refer to <u>DLK-496</u>, "<u>Diagnosis Procedure</u>".

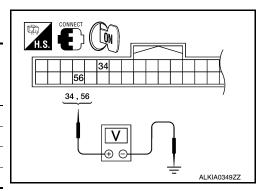
Diagnosis Procedure

INFOID:0000000004496959

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between BCM connector and ground.

Terminals				
(+)		(–)	Key position	Voltage (V) (Approx.)
BCM connector	Terminal	()		, , ,
56			Lock	0
M18		Ground	Neutral / Unlock	5
34	Giodila	Unlock	0	
34		Neutral / Lock	5	



Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to <u>DLK-615</u>, <u>"FRONT DOOR LOCK : Removal and Installation"</u>.

NO >> GO TO 2

2.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect front door lock assembly LH (key cylinder switch) connector.

KEY CYLINDER SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between front door lock assembly LH (key cylinder switch) connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D10	4		Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

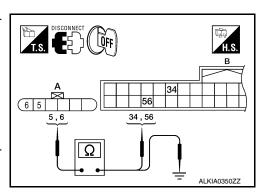
3.check door key cylinder signal circuit

- Disconnect BCM connector M18.
- 2. Check continuity between front door lock assembly LH (key cylinder switch) connector and BCM connector M18.

Front door lock assembly LH connector	Terminal	BCM connector	Terminal	Continuity	
A: D10	5	B: M18	34	Yes	
Λ. D Ι	6	D. WITO	56		

Check continuity between front door lock assembly LH (key cylinder switch) connector and ground.

Front door lock assembly LH connector	Terminal		Continuity
A: D10	5	Ground	No
A. D10	6 No		INO



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to <u>DLK-497</u>, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Replace front door lock assembly LH (key cylinder switch). Refer to DLK-615, "FRONT DOOR LOCK: Removal and Installation".

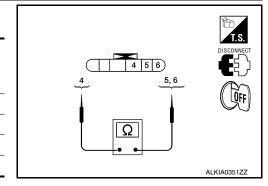
Component Inspection

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

Check front door lock assembly LH (key cylinder switch).

Terminal Front door lock assembly LH (key cylinder switch) connector			Continuity
		Key position	
5	6	Unlock	Yes
3		Neutral / Lock	No
6		Lock	Yes
		Neutral / Unlock	No



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KEY CYLINDER SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace front door lock assembly LH (key cylinder switch). Refer to <u>DLK-615, "FRONT DOOR LOCK: Removal and Installation"</u>.

TRUNK LID OPENER SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

TRUNK LID OPENER SWITCH

Description INFOID:0000000004496966

Transmits trunk lid open signal to BCM.

Component Function Check

1. CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Does trunk lid opener cancel switch turn ON (CANCEL)?

>> Turn off trunk lid opener cancel switch. Yes

No >> GO TO 2

2.check function

(P) With CONSULT-III

Check trunk lid opener switch TR/BD OPEN SW in Data Monitor mode with CONSULT-III.

· When trunk lid opener switch is turned to "ON".

Monitor item	Condition
TR/BD OPEN SW	Trunk lid opener switch is pressed: ON
HVBD OF LIN SW	Trunk lid opener switch is released: OFF

Is the inspection result normal?

YES >> Trunk lid opener switch is OK.

NO >> Refer to <u>DLK-499</u>, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK TRUNK LID OPEN INPUT SIGNAL

- Remove keyfob from key slot.
- Turn on trunk lid opener cancel switch.
- Check voltage between BCM connector and ground.

Terminals				
(+)			Condition of trunk lid	Voltage (V)
BCM connector	Terminal	(–)	opener switch	(Approx.)
M21	147	Ground	ON (press and hold)	0
IVIZI	147	Ground	OFF (release)	Battery voltage

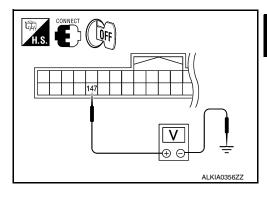
Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2.check trunk lid opener switch circuit

Disconnect BCM connector.



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TRUNK LID OPENER SWITCH

< COMPONENT DIAGNOSIS >

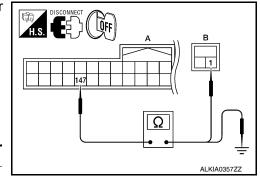
[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between BCM connector and trunk lid opener switch connector.

BCM connector	Terminal	Trunk lid opener switch connector	Terminal	Continuity
A: M21	147	B: M75	1	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M21	147	Ground	No



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

3.check trunk lid opener switch ground circuit

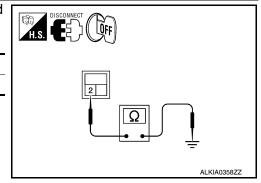
Check continuity between trunk lid opener switch connector and ground.

Trunk lid opener switch	Terminal	Ground	Continuity
M75	2	Oloulia	Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.



4. CHECK TRUNK LID OPENER SWITCH

Refer to DLK-500, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace trunk lid opener switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection 1. CHECK TRUNK LID OPENER SWITCH

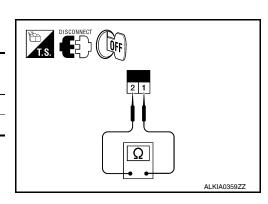
- 1. Turn ignition switch OFF.
- 2. Disconnect trunk lid opener switch connector.
- 3. Check continuity between trunk lid opener switch connector.

Terr	minal	Condition	Continuity	
Trunk lid op	pener switch	Condition	Continuity	
1	2	ON (press and hold)	Yes	
	2	OFF (release)	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.



INFOID:0000000004496969

TRUNK LID OPENER CANCEL SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

TRUNK LID OPENER CANCEL SWITCH

Description INFOID:0000000004496970

Cancels trunk lid open operation.

Component Function Check

INFOID:0000000004496971

INFOID:0000000004496972

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1. CHECK FUNCTION

(P) With CONSULT-III

Check trunk lid opener cancel switch TR CANCEL SW in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
TR CANCEL SW	Trunk lid opener cancel switch is turned to "ON": ON	
IR CANCEL SW	Trunk lid opener cancel switch is turned to "OFF": OFF	

Is the inspection result normal?

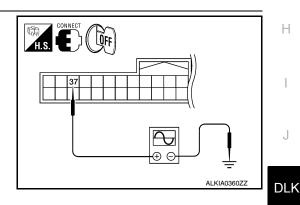
YES >> Trunk lid opener cancel switch is OK.

>> Refer to DLK-501, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK TRUNK LID OPENER CANCEL SIGNAL

Check voltage between BCM connector and ground.



Terminals				
(+)		Condition of trunk lid opener	Voltage (V)	
BCM connector	Terminal	(-)	cancel switch	(Approx.)
			ON (press and hold)	0
M18	37	Ground	OFF (cancel)	(V) 15 10 5 0 10 ms JPMIA0012GB

Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.CHECK TRUNK LID OPENER CANCEL SWITCH CIRCUIT

Disconnect BCM connector.

DLK-501 Revision: February 2010 2009 Altima

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TRUNK LID OPENER CANCEL SWITCH

< COMPONENT DIAGNOSIS >

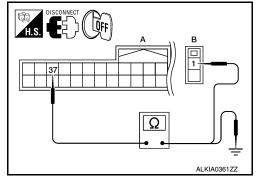
[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between BCM connector and trunk lid opener cancel switch connector.

BCM connector	Terminal	Trunk lid opener cancel switch connector	Terminal	Continuity
A: M18	37	B: M74	1	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M18	37	Oround	No



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair harness or connector.

${f 3.}$ CHECK TRUNK LID OPENER CANCEL SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch connector and ground.

Trunk lid opener cancel switch	Terminal	Ground	Continuity
M74	2		Yes

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Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER CANCEL SWITCH

Refer to DLK-502, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace trunk lid opener cancel switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK TRUNK LID OPENER CANCEL SWITCH

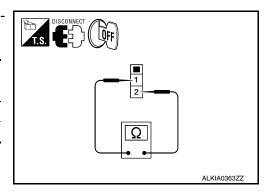
- 1. Disconnect trunk lid opener cancel switch connector.
- Check continuity between trunk lid opener cancel switch terminals.

Terminal		Condition	Continuity	
Trunk lid op	ener switch	Condition	Continuity	
1	2	ON	Yes	
	2	OFF (cancel)	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener cancel switch.



INFOID:0000000004496973

TRUNK ROOM LAMP SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

TRUNK ROOM LAMP SWITCH

Description INFOID:0000000004496974

Detects trunk open/close condition.

Component Function Check

INFOID:0000000004496975

INFOID:0000000004496976

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1. CHECK FUNCTION

(II) With CONSULT-III

Check TRNK/HAT MNTR in Data Monitor mode with CONSULT-III.

Monitor item	Condition		
TRNK/HAT MNTR	OPEN	: ON	
TIMINITEM INTO THE	CLOSE	: OFF	

Is the inspection result normal?

YES >> Trunk room lamp switch is OK.

>> Refer to DLK-503, "Diagnosis Procedure". NO

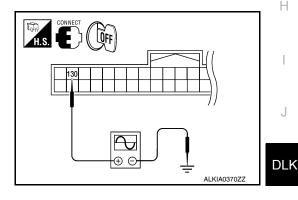
Diagnosis Procedure

1. CHECK TRUNK LAMP SWITCH INPUT SIGNAL

Turn ignition switch OFF.

Check voltage between BCM connector and ground.

Terminals					
(+)			Trunk	Voltage (V)	
BCM connector	Terminal	(–)	condition	(Approx.)	
			OPEN	0	
M21	130	Ground	CLOSE	(V) 15 10 5 0 10 ms JPMIA0011GB	



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Is the inspection result normal?

>> GO TO 4 YES

>> GO TO 2 NO

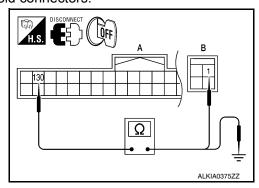
2.CHECK TRUNK LAMP SWITCH CIRCUIT

Disconnect BCM and trunk lamp switch and trunk release solenoid connectors.

Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
A: M21	130	B: T7	2	Yes

Check continuity between BCM connector and ground.



< COMPONENT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
A: M21	130	Ground	No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk lamp switch and trunk release solenoid.

3.CHECK TRUNK LAMP SWITCH GROUND CIRCUIT

Check continuity between trunk lid lock assembly connector and ground.

Trunk lamp switch and trunk release solenoid connector	Terminal	Ground	Continuity	
T7	3		Yes	

H.S. DISCONNECT OFF

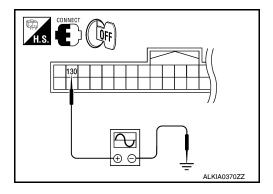
Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace trunk lamp switch and trunk release solenoid ground circuit.

4. CHECK BCM OUTPUT SIGNAL

- 1. Insure trunk remains closed during this step.
- 2. Connect BCM connector.
- 3. Check voltage between BCM connector and ground.



	Terminals			
(+	+)	()	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)		
M21	130	Ground	(V) 15 10 5 0 10 ms JPMIA0011GB	

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to BCS-100, "Removal and Installation".

5. CHECK TRUNK ROOM LAMP SWITCH

Refer to DLK-505, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

TRUNK ROOM LAMP SWITCH

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

NO >> Replace trunk lamp switch and trunk release solenoid.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK TRUNK LAMP SWITCH

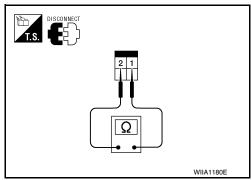
- 1. Turn ignition switch OFF.
- 2. Disconnect trunk lamp switch and trunk release solenoid connector.
- 3. Check trunk lamp switch.

Tern	ninal			
Trunk lamp switch and trunk release solenoid		Trunk condition	Continuity	
2	3	OPEN	Yes	
	3	CLOSE	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lamp switch and trunk release solenoid.



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DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004496986

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000004496987

INFOID:0000000004496988

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

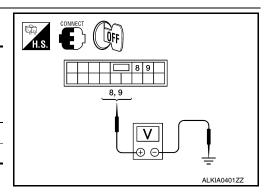
NO >> Refer to <u>DLK-506</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals			0 1111 6	
(+)	(+)		Condition of door lock and	Voltage (V)
BCM connector	Terminal	(–)		(Approx.)
M17	8	Ground	Lock	$0 \rightarrow Battery voltage \rightarrow 0$
19117	9	Giodila	Unlock	$0 \rightarrow Battery voltage \rightarrow 0$



Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

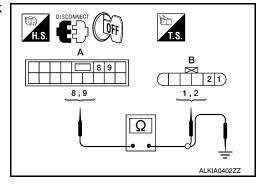
2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and front door lock actuator driver side connector.
- Check continuity between BCM connector and front door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
A: M17	8	B: D10	1	Yes
A. WH	9	5.010	2	165

4. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
	9	Ground	140



Is the inspection result normal?

YES >> Replace front door lock actuator LH.

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE: Description

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

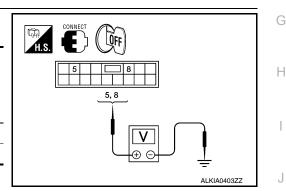
NO >> Refer to DLK-507, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

1	Terminals		O a a little a la f		
(+))		Condition of door lock and	Voltage (V)	
BCM connector	Terminal	(–)	unlock switch	unlock switch (Approx.)	(Approx.)
M17	8	Ground	Lock	$0 \rightarrow Battery \ voltage \rightarrow 0$	
IVI I 7	5	Giouna	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	



Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM and front door lock actuator RH connectors.
- Check continuity between BCM connector and front door lock actuator RH.

BCM connector	Terminal	Front door lock actuator RH connector	Terminal	Continuity
A: M17	8	B: D108	5	Yes
74. WH7	5	B. B 100	6	103

Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
	5	Giodila	140

A B B 5, 8 5, 6

Is the inspection result normal?

YES >> Replace front door lock actuator RH.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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>> Inspection End.

REAR LH

REAR LH : Description

INFOID:0000000004496992

INFOID:0000000004496993

INFOID:0000000004496994

Locks/unlocks the door with the signal from BCM.

REAR LH: Component Function Check

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

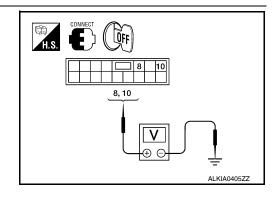
NO >> Refer to <u>DLK-508</u>, "<u>REAR LH</u>: <u>Diagnosis Procedure</u>".

REAR LH: Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

	Terminals		0 1111 1	Voltage (V)	
(+)			Condition of door lock and		
BCM connector	Terminal	(–)	unlock switch	unlock switch (Appro	(Approx.)
M17	8	Ground	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	
171 17	10	Ground	Unlock	$0 \rightarrow Battery voltage \rightarrow 0$	



Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

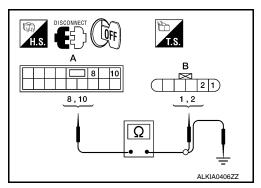
2. CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM and rear door lock actuator LH connectors.
- 2. Check continuity between BCM connector and rear door lock actuator LH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
A: M17	A: M17 8 B: D20		1	Yes
A. WIT	10	B. D203	2	163

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
	10	Ground	NO



Is the inspection result normal?

YES >> Replace rear door lock actuator LH.

NO >> Repair or replace harness.

3.check intermittent incident

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

REAR RH

REAR RH : Description

INFOID:0000000004496995

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Locks/unlocks the door with the signal from BCM.

REAR RH: Component Function Check

INFOID:0000000004496996

1. CHECK FUNCTION

- 1. Use CONSULT-III to perform Active Test ("DOOR LOCK").
- 2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to <u>DLK-509</u>, "REAR RH: <u>Diagnosis Procedure"</u>.

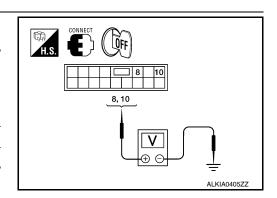
REAR RH: Diagnosis Procedure

INFOID:0000000004496997

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

	Terminals (+)		0 1111	Voltage (V)
(+			Condition of door lock and	
BCM connector	Terminal	(–)	unlock switch	(Approx.)
M17	8	Ground	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
IVI I 7	10	Ground	Unlock	$0 \rightarrow Battery voltage \rightarrow 0$



Is the inspection result normal?

YES >> GO TO 3 NO >> GO TO 2

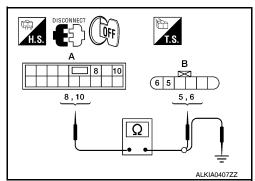
2.check door lock actuator circuit

- 1. Disconnect BCM and rear door lock actuator RH connectors.
- 2. Check continuity between BCM connector and rear door lock actuator RH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
A: M17	8	B: D305	5	Yes
A. WIT	10	D. D303	6	163

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M17	8	Ground	No
A. WH	10	Ground	NO



Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> Repair or replace harness.

3.check intermittent incident

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

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TRUNK LID OPENER ACTUATOR

Description INFOID:000000004496998

Performs trunk lid open with signal from BCM.

Component Function Check

INFOID:0000000004496999

1. CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Is trunk lid opener cancel switch turned OFF (CANCEL)?

Yes >> Turn on trunk lid opener cancel switch.

No >> GO TO 2.

2. CHECK FUNCTION

- 1. Perform Active Test TRUNK/GLASS HATCH with CONSULT-III.
- 2. Touch "OPEN" and check that trunk lid opens.

Is the inspection result normal?

YES >> Trunk lid opener actuator is OK.

NO >> Refer to <u>DLK-510</u>, "<u>Diagnosis Procedure</u>".

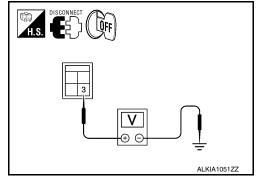
Diagnosis Procedure

INFOID:0000000004497000

1. CHECK OUTPUT CIRCUIT

- Turn ignition switch OFF.
- Disconnect trunk lamp switch and trunk release solenoid connector.
- 3. Check voltage between trunk lamp switch and trunk release solenoid connector and ground.

Terminals					
(+)			Condition of	V-H 0.0	
Trunk lamp switch and trunk release solenoid connector	Terminal	(-)	trunk lid opener switch	Voltage (V) (Approx.)	
T4	3	Ground	$OFF \to ON$	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	



Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 2

2.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Ter	Terminals		Condition of	V II
(+)		(-)	trunk lid opener	Voltage (V) (Approx.)
BCM connector	Terminal	()	switch	,
M20	103	Ground	$OFF \to ON$	$0 \rightarrow \text{Battery voltage} \rightarrow 0$

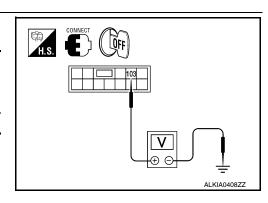
Is the inspection result normal?

YES >> Repair or replace harness.

NO >> GO TO 3

3.CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

Disconnect BCM.



TRUNK LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

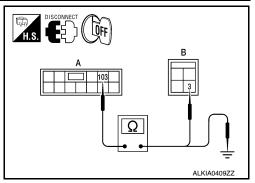
[SEDAN WITHOUT INTELLIGENT KEY]

2. Check continuity between BCM connector and trunk lamp switch and trunk release solenoid connector.

BCM connector	Terminal	Trunk lamp switch and trunk release solenoid connector	Terminal	Continuity
A: M20	103	B: T4	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
A: M20	103	Ground	No



Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-100, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER GROUND CIRCUIT

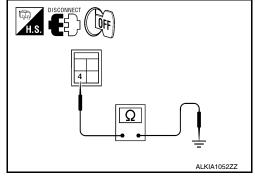
Check continuity between trunk lamp switch and trunk release solenoid connector and ground.

Trunk lamp switch and trunk release solenoid connector	Terminal		Continuity
T4	4	Ground	Yes

Is the inspection result normal?

YES >> Replace trunk lamp switch and trunk release solenoid.

NO >> Repair or replace harness.



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OUTSIDE WARNING BUZZER

Description INFOID:000000004497001

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:0000000004497002

1. CHECK FUNCTION

With CONSULT-III

Check outside warning buzzer OUTSIDE BUZZER in Active Test mode.

Is the inspection result normal?

YES >> Outside warning buzzer (engine room) is OK.

NO >> Refer to <u>DLK-512</u>, "<u>Diagnosis Procedure</u>".

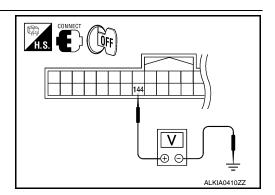
Diagnosis Procedure

INFOID:0000000004497003

1. CHECK OUTSIDE WARNING BUZZER

Check voltage between BCM connector and ground.

Terminals			\\\\\\\	\\alta=== (\) (\)	
(+)		(-)	Warning buzzer op- eration condition	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)		,	
M21	144	Ground	ON	0	
1012 1	177	Oround	OFF	Battery voltage	



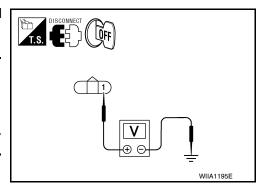
Is the inspection result normal?

YES >> GO TO 5 NO >> GO TO 2

2.CHECK OUTSIDE WARNING BUZZER POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect outside warning buzzer connector.
- 3. Check voltage between outside warning buzzer connector and ground.

(+	-)		Voltage (V)
Outside warning buzzer connector	Terminal	(–)	(Approx.)
E73	1	Ground	Battery voltage



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace outside warning buzzer power supply circuit.

3. CHECK OUTSIDE WARNING BUZZER CIRCUIT

1. Disconnect BCM connector.

OUTSIDE WARNING BUZZER

< COMPONENT DIAGNOSIS >

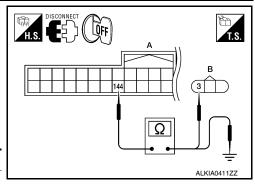
[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between BCM connector and outside warning buzzer connector.

A: BCM connector	Terminal	Outside warning buzzer connector	Terminal	Continuity
M21	144	B: E73	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M21	144	Ground	No



Is the inspection result normal?

OK >> GO TO 4

NG >> Repair or replace harness between BCM and outside warning buzzer.

4. CHECK OUTSIDE WARNING BUZZER

Check DLK-513, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace outside warning buzzer.

5. CHECK INTERMITTENT INCIDENT

Check GI-42, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK OUTSIDE WARNING BUZZER

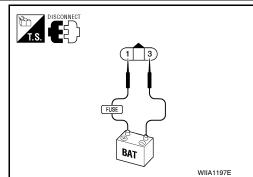
Connect battery power supply to outside warning buzzer terminals 1 and 3, and check the operation.

1 (BAT+) - 3 (BAT-) : the buzzer sounds

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace outside warning buzzer.



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REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

REMOTE KEYLESS ENTRY RECEIVER

Description INFOID:000000004497008

Receives keyfob operation and transmits to BCM.

Component Function Check

INFOID:0000000004497009

1. CHECK FUNCTION

(P)With CONSULT-III

Check remote keyless entry receiver RKE OPE COUN1 in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating keyfob.

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

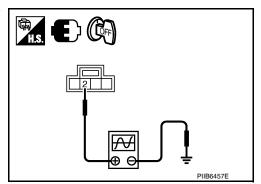
NO >> Refer to <u>DLK-514, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000004497010

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.



Terminals				
(+)			Condition	Signal (Deference value)
Remote keyless entry receiver connector	Terminal	(–)		(Reference value)
M27	2	Ground	Waiting (All doors closed)	(V) 15 10 5 0 1 ms JMKIA0064GB
	_		When signal is received (All doors closed)	(V) 15 10 1 ms JMKIA0065GB

Is the inspection result normal?

REMOTE KEYLESS ENTRY RECEIVER

< COMPONENT DIAGNOSIS >

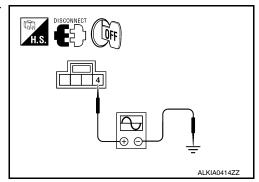
[SEDAN WITHOUT INTELLIGENT KEY]

YES >> GO TO 7 NO >> GO TO 2

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

- 1. Disconnect remote keyless entry receiver connector.
- 2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Te	erminals		
(+)			Signal
Remote keyless entry receiver connector	Terminal	(–)	(Reference value)
M27	4	Ground	(V) 15 10 5 0 1 ms JMKIA0064GB



Is the inspection result normal?

YES >> GO TO 4 NO >> GO TO 3

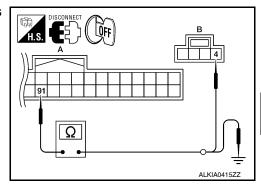
3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	91	B: M27	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal Ground		Continuity
A: M19	91	Ground	No



Is the inspection result normal?

YES >> Reconnect BCM, GO TO 4

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver connector and ground.

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M27	1		Yes

Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 5

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

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REMOTE KEYLESS ENTRY RECEIVER

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[SEDAN WITHOUT INTELLIGENT KEY]

Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M18	45	B: M27	1	Yes

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Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

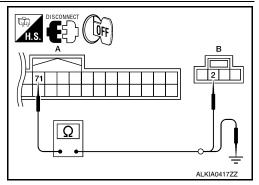
6. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

1. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	71	B: M27	2	Yes

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Onsurad	Continuity
A: M19	71	Ground	No



Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry.

7. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

KEYFOB BATTERY AND FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

KEYFOB BATTERY AND FUNCTION

Description INFOID:0000000004497011

The following functions are available when having and carrying the keyfob.

- Door lock/unlock
- Trunk open

Remote control entry function and panic alarm function are available when operating the remote buttons.

Component Function Check

INFOID:0000000004497012

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1.CHECK FUNCTION

(P)With CONSULT-III

Check remote keyless entry receiver RKE OPE COUN1 in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating with the keyfob.

Is the inspection result normal?

YES >> Keyfob is OK.

>> Refer to DLK-517, "Diagnosis Procedure". NO

Diagnosis Procedure

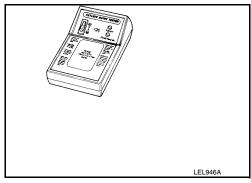
INFOID:0000000004497013

1. CHECK KEYFOB FUNCTION

Check keyfob function using Remote Keyless Entry Tester J-43241.

Does the test pass?

YES >> Keyfob is OK. NO >> GO TO 2



2. CHECK KEYFOB COMPONENTS

1. Release the lock knob at the back of the keyfob and remove the mechanical key.

2. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Do not touch the circuit board or battery terminal.
- · The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.
- 3. Remove the keyfob battery.

CAUTION:

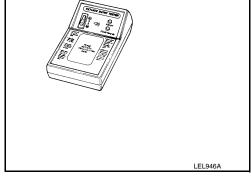
- · Keep dirt, grease, and other foreign materials off the electrode contact area.
- 4. Visually inspect keyfob internal components.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace malfunctioning parts.

3.check keyfob battery



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KEYFOB BATTERY AND FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

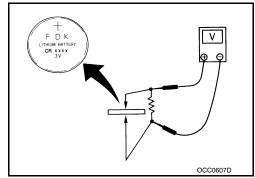
Standard : Approx. 2.5 - 3.0V

Is the measurement value within specification?

YES >> Keyfob battery is OK. Check remote keyless entry receiver. Refer to <u>DLK-107.</u>

"Component Function Check".

NO >> GO TO 4



4. REPLACE KEYFOB BATTERY

- 1. Replace the keyfob battery.
- 2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

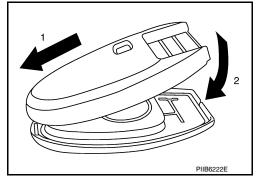
CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- 3. After replacing the battery, check that all keyfob functions work properly.

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Check remote keyless entry receiver. Refer to <u>DLK-107.</u> "Component Function Check".



KEY SLOT ILLUMINATION

Description INFOID:0000000004497017

Blinks when keyfob insertion is required.

Component Function Check

Component Function Check

(P) With CONSULT-III

1. CHECK FUNCTION

Check key slot illumination KEY SLOT ILLUMI in Active Test mode.

Is the inspection result normal?

YES >> Key slot function is OK.

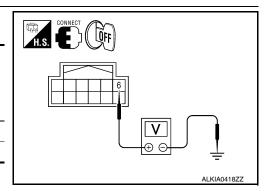
NO >> Refer to <u>DLK-519</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK KEY SLOT ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot connector and ground.

	Terminals				
(+)		Condition	Key slot	Voltage (V)
Key slot connector	Terminal	(–)	Condition	illumination	(Approx.)
M40	6	Ground	Keyfob inserted	OFF	Battery voltage
IVITO	0	Orodria	Keyfob removed	ON	0



Is the inspection result normal?

YES >> GO TO 6 NO >> GO TO 2

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect key slot connector.
- Check voltage between slot connector and ground.

	Terminals	Mallace A.O.		
(-	+)	Voltag		
Key slot connector	Terminal	(-)	()	
M40	1	Ground	Battery voltage	
W40	5	Giodila	Dattery voltage	

DISCONNECT OFF

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace key slot power supply circuit.

3.CHECK KEY SLOT GROUND CIRCUIT

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KEY SLOT ILLUMINATION

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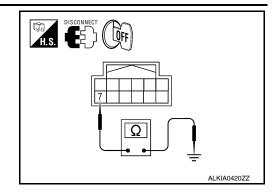
Check continuity between key slot connector and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7	Giodila	Yes

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace key slot ground circuit.



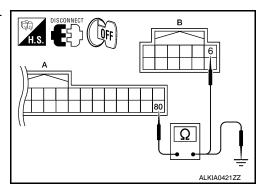
4. CHECK KEY SLOT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and key slot connector.
- Check continuity between BCM connector and key slot connector.

BCM connector	Terminal	Key slot connector	Terminal	Continuity
A: M19	80	B: M40	6	Yes

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	80	Ground	No



Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness between BCM and key slot.

5. CHECK KEY SLOT

Refer to DLK-495, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace key slot.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

HORN FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

HORN FUNCTION

Description

Perform answer-back for each operation with horn.

Component Function Check

1. CHECK FUNCTION

- 1. Select HORN in "ACTIVE TEST" mode with CONSULT-III.
- 2. Check the horn (high/low) operation.

	Test item Description		Description	
HORN	ON	Horn relay		ON (for 20 ms)

Is the operation normal?

YES >> Inspection End.

NO >> Refer to <u>DLK-521, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK HORN FUNCTION

Check horn function with horn switch

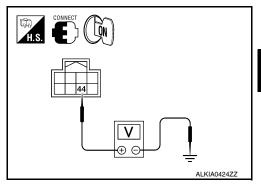
Does the horn sound?

YES >> GO TO 2

NO >> Refer to HRN-8, "Wiring Diagram - Sedan".

2.CHECK HORN RELAY POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Perform "ACTIVE TEST" ("HORN") with CONSULT-III.
- 3. Using an oscilloscope or analog voltmeter, check voltage between IPDM E/R connector and ground.



IPD	IPDM E/R		Test item		Voltage (V)
Connector	Terminal	Ground	rest item		(Approx.)
E17	44	Ground	HORN	ON	Battery voltage \rightarrow 0 \rightarrow Battery voltage
L17	74	Ground	TIOIN	Other than above	Battery voltage

Is the inspection result normal?

YES >> Repair or replace open harness between IPDM E/R and horn relay.

NO >> GO TO 3

3.CHECK HORN RELAY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect IPDM E/R and horn relay connector.

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HORN FUNCTION

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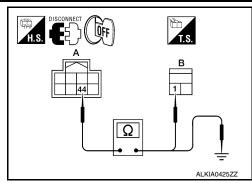
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3. Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPDM E/R		Horn relay		Continuity
Connector	Terminal	Connector	Terminal	Continuity
A: E17	44	B: H-1	1	Yes

Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal	Ground	Continuity
A: E17	44	Ground	No



Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-48, "Removal and Installation".

NO >> Repair or replace the malfunctioning part.

COMBINATION METER DISPLAY FUNCTION

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COMBINATION METER DISPLAY FUNCTION	^
Description	A 3
Displays each operation method guide and warning for system malfunction.	В
Component Function Check	4
1.CHECK FUNCTION	С
With CONSULT-III Check the operation with ("LCD") in the Active Test.	D
Is each warning displayed on meter display?	
Is the inspection result normal? YES >> Meter display is OK. NO >> Refer to DLK-523, "Diagnosis Procedure".	Е
Diagnosis Procedure	5 F
Diagnosis Procedure 1. CHECK COMBINATION METER	5 F
1.CHECK COMBINATION METER Refer to MWI-95, "DTC Index".	5 F - G
1.CHECK COMBINATION METER Refer to MWI-95, "DTC Index". Is the inspection result normal?	<u> </u>
1.CHECK COMBINATION METER Refer to MWI-95, "DTC Index".	<u> </u>
1.CHECK COMBINATION METER Refer to MWI-95, "DTC Index". Is the inspection result normal? YES >> GO TO 2	- G
1.CHECK COMBINATION METER Refer to MWI-95, "DTC Index". Is the inspection result normal? YES >> GO TO 2 NO >> Check combination meter. Refer to MWI-38, "Diagnosis Description".	- G

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WARNING CHIME FUNCTION

< COMPONENT DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

WARNING CHIME FUNCTION

Description INFOID:000000004497026

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000004497027

1. CHECK FUNCTION

(P)With CONSULT-III

- 1. Check the operation with "INSIDE BUZZER" in the Active Test.
- 2. Touch "TAKE OUT", "KNOB" or "KEY" on screen.

Is the inspection result normal?

YES >> Warning buzzer into combination meter is OK.

NO >> Refer to <u>DLK-524</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004497028

1. CHECK METER BUZZER CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace combination meter. Refer to MWI-179, "Removal and Installation".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> Inspection End.

HAZARD FUNCTION

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HAZARD FUNCTION	
Description	INFOID:000000004497028
Perform answer-back for each operation with number of blinks	
Component Function Check	INFOID:000000004497030
1. CHECK FUNCTION	
Check hazard warning lamp ("FLASHER") in Active Test.	
Is the inspection result normal? YES >> Hazard warning lamp circuit is OK.	
NO >> Refer to EXL-132, "Wiring Diagram - Sedan".	
Diagnosis Procedure	INFOID:000000004497031
1. CHECK HAZARD SWITCH CIRCUIT	
Operate the hazard lights by turning ON the hazard warning sv	vitch.
Is the inspection result normal? YES >> GO TO 2	
NO >> Repair or replace hazard warning switch circuit. Re	efer to <u>EXL-4, "Work Flow"</u> .
2.CHECK INTERMITTENT INCIDENT	
Refer to GI-42, "Intermittent Incident".	
>> Inspection End.	

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< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
ED MACHED CM	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED OTOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDAL CIONAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAND OW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LU DE AM CIA/	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CVA/A	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
LIEAD LAMD CW/ 2	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
DACCING CW	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT CW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC SW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD OW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
DOOD SW AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD SW DD	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOD SW DI	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
DOOR SW-BK	NOTE: This item is displayed, but cannot be monitored.	OFF
25. 1. 2. 21. 21. 11	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.	OFF
	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TD CANCEL CV	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD 02511 5111	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTION OFNOOD	When outside of the vehicle is bright	Close to 5 V
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DE0 0W DD	When driver door request switch is not pressed	OFF
REQ SW-DR	When driver door request switch is pressed	ON
	When passenger door request switch is not pressed	OFF
REQ SW-AS	When passenger door request switch is pressed	ON
	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
IGN RLY2-F/B	Ignition switch OFF or ACC	OFF
ION NETZ-17B	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
AGO NEI-17B	Ignition switch ACC or ON	ON
CLUTCH SW	When the clutch pedal is not depressed	OFF
CLOTCITOW	When the clutch pedal is depressed	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
DRAKE SW I	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCE SW	When selector lever is in any position other than P	ON
CET DAVALOW	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
C/L LOCK	Electronic steering column lock LOCK status	OFF
S/L-LOCK	Electronic steering column lock UNLOCK status	ON
S/L-UNLOCK	Electronic steering column lock UNLOCK status	OFF
S/L-UNLOCK	Electronic steering column lock LOCK status	ON
C/L DELAY E/D	Ignition switch OFF or ACC	OFF
S/L RELAY-F/B	Ignition switch ON	ON
LINIUK OENLOD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
DUCU CW IDDM	When engine switch (push switch) is not pressed	OFF
PUSH SW-IPDM	When engine switch (push switch) is pressed	ON
ION DIVA E/D	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
DETE ON IDDM	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
CET DN IDDN	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
CET D MET	When selector lever is in any position other than P	OFF
SFT P-MET	When selector lever is in P position	ON
CET NIMET	When selector lever is in any position other than N	OFF
SFT N-MET	When selector lever is in N position	ON
	Engine stopped	STOP
ENOINE OTATE	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
0/1.1.00/2.100/2	Electronic steering column lock LOCK status	OFF
S/L LOCK-IPDM	Electronic steering column lock UNLOCK status	ON
0// 11/1/ 0// 1257	Electronic steering column lock UNLOCK status	OFF
S/L UNLCK-IPDM	Electronic steering column lock LOCK status	ON
0.1. DEL	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DDMT ENG STAT	When the engine start is prohibited	RESET
PRMT ENG STAT	When the engine start is permitted	SET
PRMT RKE STAT	NOTE: This item is displayed, but cannot be monitored.	RESET
VEV OW OLOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.	Operation frequency of Intelligent Key
CONEDMID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIDM ID 4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRM IDS	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
CONFIRMIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
IF 4	The ID of fourth key is registered to BCM	DONE
FD 2	The ID of third key is not registered to BCM	YET
ГР 3	The ID of third key is registered to BCM	DONE
TD 2	The ID of second key is not registered to BCM	YET
ΓP 2	The ID of second key is registered to BCM	DONE
FD 4	The ID of first key is not registered to BCM	YET
ΓP 1	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
ID NEGOTTET	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID REGGI FRI	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID REGOT RRT	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGST RLT	When ID of rear LH tire transmitter is not registered	YET
VAVA DAUNIO I ANAD	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
DULLER	Tire pressure warning alarm is sounding	ON

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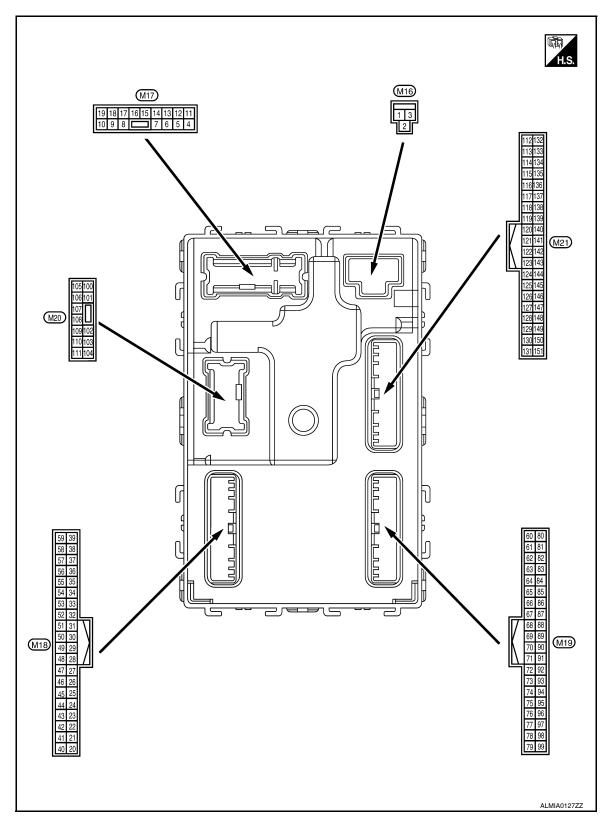
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Terminal Layout



Physical Values

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Ground	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Giodila	power supply	Output	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage
5	O	Front door RH UN-	Outeut	Front do so DII	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	0V
7	Craund	Cton lama	Outout	Cton lown	ON	0V
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	Craund	All doors LOCK	Output	All do oro	LOCK (actuator is activated)	Battery voltage
(V)	Ground	All doors LOCK	Output	It All doors	Other than LOCK (actuator is not activated)	0V
9	Craund	Front door LH UN-	Output	Output Front door LH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output		Other than UNLOCK (actuator is not activated)	ov
10 ¹	0	Rear door RH and	0	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	Ground	rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	ov
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		ov
14 (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB
15	Ground	ACC indicator lamp	Output	lanition switch	OFF	Battery voltage
(Y/L)	Giodila		Output	Ignition switch	ACC or ON	0V

< ECU DIAGNOSIS >

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
	.,				Turn signal switch OFF	0V	В
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	C
					Turn signal switch OFF	0.5 V	Е
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0	F
						PKID0926E 6.5 V	G
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF ON	Battery voltage 0V	Н
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	I
(P/B)	Orodina	option concor signal	mpat	ON	When outside of the vehi- cle is dark	Close to 0V	
22	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	0V	J
(R/Y)		switch		switch	ON (clutch pedal is depressed)	Battery voltage	DLł
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V	L
(O/L)	Ground	Cop lamp omton 2	Прис	Stop ramp switch	ON (brake pedal is de- pressed)	Battery voltage	M
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB	N O
				110	UNLOCK status	0V	Р
29 (Y)	Ground	Key slot switch	Input		ey is inserted into key slot ey is not inserted into key slot	Battery voltage 0V	
30				_	OFF	0	
(V/Y)	Ground	ACC feedback signal	Input	Ignition switch	ACC or ON	Battery voltage	

	Terminal No. Description			Value		
(Wire	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)
31	(-)	Rear window defog-		Rear window de-	OFF	0V
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (when front door RH opens)	0V
33	Ground	Compressor ON sig-	Input	A/C switch	OFF	9.0 - 12.0V
(SB)		nal	· .		ON	0V
34 ²	Ground	Front door lock as- sembly LH (key cylin-	Input	Front door lock assembly LH (key	OFF (neutral)	5V
(L/R)		der switch) (unlock)		cylinder switch)	ON (unlock)	0V
36 ² (GR)	Ground	Lock switch signal	Input	Door lock/unlock switch	Lock Unlock	Battery voltage 0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V
38	Craund	Rear window defog-	laaut	Rear window de-	OFF	5V
(GR/ W)	Ground	ger ON signal	Input	fogger switch	ON	0V
39 ²				Door lock/unlock	Unlock	Battery voltage
(GR/ R)	Ground	Unlock switch signal	Input	switch	Lock	OV
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OFI	F or ACC	0V
41		Engine switch (push		Engine switch	ON	5.5V
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	OV
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V
(R)		r	•	lamp	OFF	Battery voltage

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Terminal No.		Description				Value	Δ.
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	А
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		OV	В
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF ACC or ON	0V 5.0V	
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ** 0.2s OCC3881D	C D
(G/O)		er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 	F G
48 (R/G)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position Except P and N positions	12.0V 0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	ON	0V 15 10 5 0 JPMIA0014GB	J DLI
					OFF	Battery voltage	-
				Combination	All switch OFF Lighting switch 1ST Lighting switch high-beam	(V) 15	M
50 (LG/ B)	Ground	Combination switch OUTPUT 5		Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	10 0	Ν
					Turn signal switch RH	2 ms JPMIA0031GB	0

< ECU DIAGNOSIS >

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0V
					Front wiper switch HI (Wiper intermittent dial 4)	(V)
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	JPMIA0032GB
					All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON (Wiper intermittent dial 4)	(<u>V</u>)
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	15 10 5 0 2 ms JPMIA0033GB
-					All switch OFF	0V
					Front wiper switch INT	
				O a substruction	Front wiper switch LO	(V)
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	2 ms JPMIA0034GB 10.7V
					All switch OFF	0V
					Front fog lamp switch ON	•
					Lighting switch 2ND	(V)
54		Combination switch		Combination switch	Lighting switch flash-to-	15
(G/Y)	Ground	OUTPUT 4	Output	(Wiper intermit-	pass	0
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
55				Front blower mo-	ON	Battery voltage
(BR/ W)	Ground	Front blower monitor	Input	tor switch	OFF	0V
56 ²	Ground	Front door lock as- sembly LH (key cylin-	Input	Front door lock assembly LH (key	OFF (neutral)	5V
(L/B) 57	Ground	der switch) (lock) Tire pressure warn-	Input	cylinder switch)	ON (lock)	0V 5V
(W)		ing check switch				

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 JPMIA0011GB 11.8V	
					ON (front door LH OPEN)	0V	
59	Craund	Rear window defog-	Outout	Rear window de-	Active	Battery voltage	
(G/R)	Ground	ger relay	Output	fogger	Not activated	0V	
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
60 (B/R)		Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB		
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0	
61 (W/R) Grour	Ground	Center console antenna 2 (+)			When Intelligent Key is not in the passenger compartment	JMKIA0062GB (V) 15 10 5 U JMKIA0063GB	

Terminal No. (Wire color)		Description Input/			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
62 ⁴	Ground	Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B/Y)	Glound	RH antenna (-)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
63 ⁴	Ground	Front outside handle	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(LG)	Ground	RH antenna (+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
64 ⁴	Ground	Front outside handle LH antenna (-)		When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)			Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

< ECU DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Terminal No.		Description				Value	۸
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
65 ⁴	cc4 Front outside h		Front outside handle		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(P)	Ground	LH antenna (+)	Output	door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	E
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	G
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	Н
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	I
71		Remote keyless entry	During waiting			(V) 15 10 5 1 ms JMKIA0064GB	J DLK
(L/O)	Ground	receiver signal	Input/ Output	When operating e	ither button on Intelligent Key	(V) 15 10 5 0 1 ms JMKIA0065GB	M
		I		I			0

< ECU DIAGNOSIS >

	ninal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
					Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V

< ECU DIAGNOSIS >

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
76	Ground	, Combination switch	Input	Combination switch	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB	E F
(R/G)		INPUT 3	3		Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	G H
				Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	J DLK	
77 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed Not pressed	0V Battery voltage	M
78 (P)	Ground	CAN-L	Input/ Output		_	_	IVI
79 (L)	Ground	CAN-H	Input/ Output		_	_	Ν
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	(V) 15 10 5 0 JPMIA0015GB 6.5V	O P
					ON	Battery voltage	

< ECU DIAGNOSIS >

	inal No. e color)	Description	1			Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
81	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V
(LG)	Ground	OIV maleator ramp	Output	igilition switch	ON	Battery voltage
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)				9	ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
85	Craund	Electronic steering	lant	Electronic steer-	Lock status	0V
(L/O)	Ground	column lock condition No. 1	Input	ing column lock	Unlock status	Battery voltage
86	Ground	Electronic steering column lock condition	Input	Electronic steer-	Lock status	Battery voltage
(G/R)	Giodila	No. 2	IIIput	ing column lock	Unlock status	OV
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V
(G/B)	Ground	tion switch	IIIput	Selector level	Any position other than P	Battery voltage
					ON (pressed)	0V
88 ⁴ (P/L)	Ground	Front door RH request switch	Innut	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
-					ON (pressed)	OV
89 ⁴ (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0016GB
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V
(Y)	5.54.14	lay control	- Lipat		ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage
94	Ground	Steering wheel lock	Output	Ignition switch	OFF or ACC	Battery voltage
(G/Y)	Cidana	unit power supply	Catput	.g.maon ownon	ON	0V

< ECU DIAGNOSIS >

	inal No.	Description				Value	Δ
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	ВС
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	E F
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H I
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J DLK
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	M

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
96	Ground	Combination switch	th Input Combination switch		Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(P/B)				switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0036GB
				Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3V	

< ECU DIAGNOSIS >

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	B C D
					Lighting switch flash-to- pass	(V) 15 10 2 ms JPMIA0037GB 1.3V	E F
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	G H
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J DLK
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	M
					Pressed	0 V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	Р

< ECU DIAGNOSIS >

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)
					LOCK status	Battery voltage
99 (L/Y)	Ground	Cround column lock unit com '		Electronic steer-ing column lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB
				For 15 seconds after UN- LOCK	Battery voltage	
					15 seconds or later after UNLOCK	0V
103	Ground	Trunk lid opening	Output	Trupk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	Giodila	Trunk ild Operiilig	Output	Trunk lid	Close (trunk lid opener actuator is not activated)	0V
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)	Orodria	Trank room lamp	Оигриг	Trank room lamp	OFF	Battery voltage
114	Ground	Rear parcel shelf an-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(B)	Giouria		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
115	Ground	Rear parcel shelf an-	Quitout	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Giouna	tenna 1 (+)	1 (+) OFF When Intelligent	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
118 ⁴	Constitution	Rear bumper anten-	Out	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(L/O)	Ground	na (-)	Output	lid request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
119 ⁴ (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BK/	Ciounu	na (+)	Сифи	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

Term	inal No.	Description				
	e color)	·	Input/	Condition		Value (Approx.)
(+)	(-)	Signal name	Output			(лфрюх.)
127	Craund	Ignition relay (IPDM	Out and	lanition outitab	OFF or ACC	Battery voltage
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (trunk is open)	0V
				Ignition switch OFF (M/T vehi-	When the clutch pedal is depressed	Battery voltage
				cle)	When the clutch pedal is not depressed	OV
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	ov
					ON (pressed)	0V
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V
144 ⁴	Ground	Intelligent Key warn-	Output	Request switch	Sounding	0V
(GR)	Ground	ing buzzer	Output	buzzer	Not sounding	Battery voltage
144 ⁵	Ground	Outside warning	Output	Outside warning	Sounding	0V
(GR)	2.300	buzzer		buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	0V
(L/R)		switch		switch	Not pressed	Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (when rear door RH opens)	0V

< ECU DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Terminal No.		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when rear door LH opens)	0V	

- 1: Sedan only
- 2: With LH front window anti-pinch
- 3: With LH and RH front window anti-pinch
- 4: With intelligent key
- 5: Without intelligent key

Wiring Diagram—POWER DOOR LOCK SYSTEM—WITH REMOTE KEYLESS EN-

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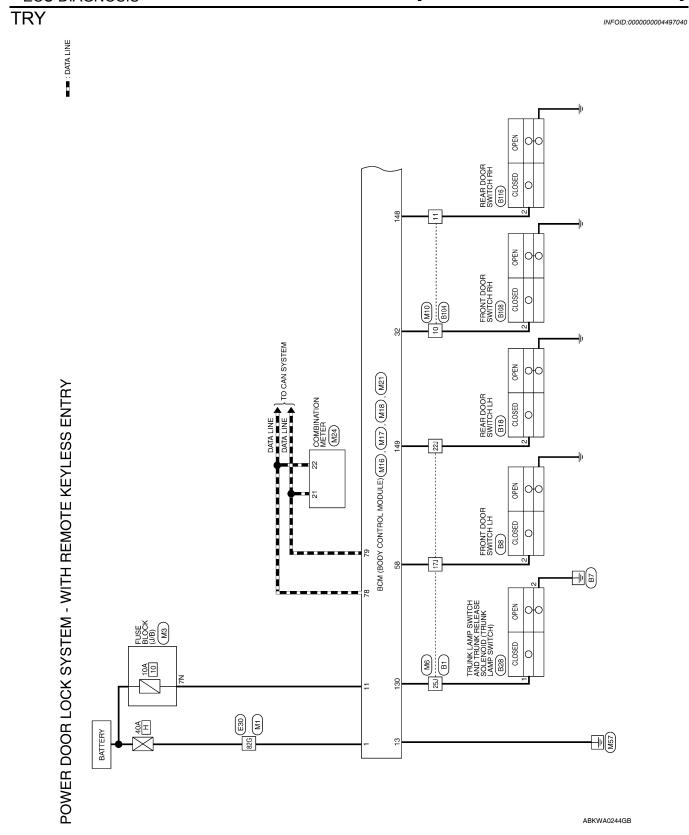
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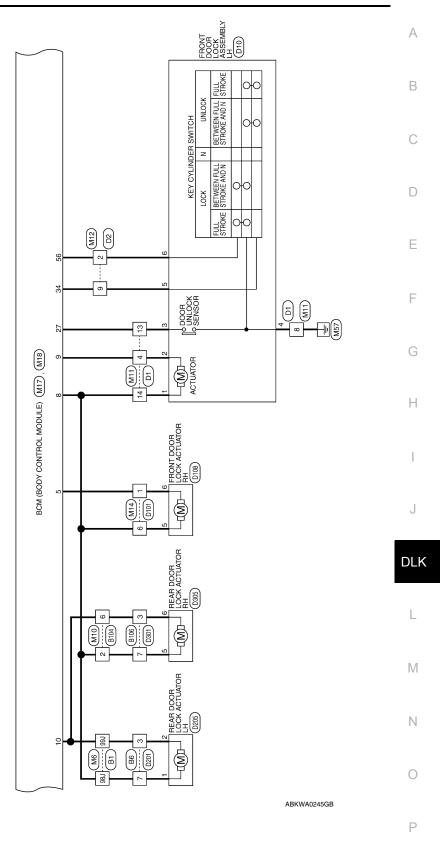
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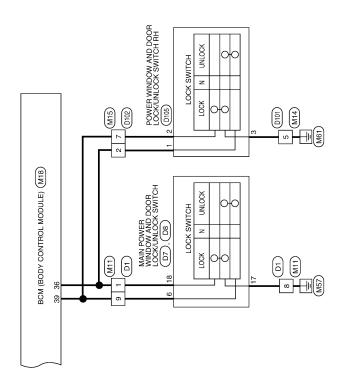
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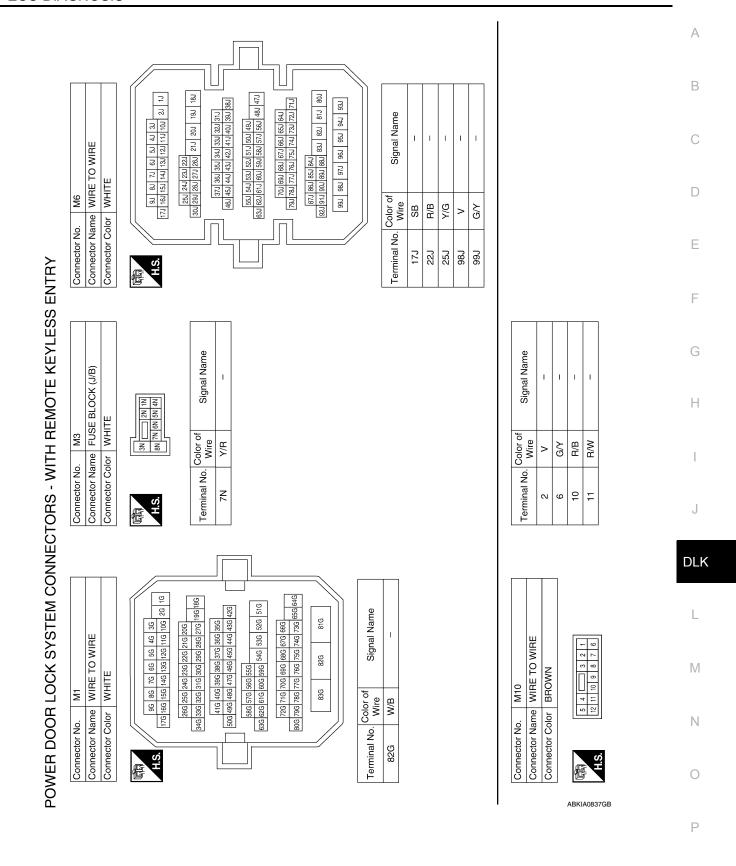
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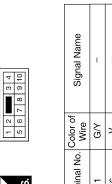
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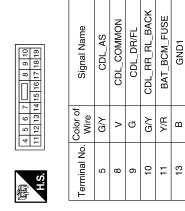




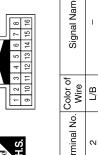




ctor No. M17	Connector Name BCM (BODY CONTROI MODULE)	Connector Color WHITE	
Connector No.	Connector	Connector (

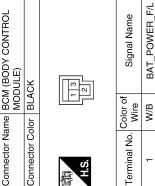






Signal Name	I	_
Color of Wire	L/B	L/R
Terminal No.	2	6

	M16	Connector Name BCM (BODY CONTROL MODULE)	BI ACK
	Connector No.	Connector Name	Connector Color BI ACK







Signal Name	ı	ı	I	1	_
Color of Wire	GR	В	GR/R	G/W	^
Terminal No. Wire	-	4	6	13	14

	TO WIRE	Ш	
M15	WIRE	WHIT	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	





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Connector No. M19 Connector No. M19 Connector Name BCM (BODY CONTROL MODULE)	A B C D
Terminal No. Color of Signal Name 34 L/R DOOR_KEY/C_UNLOCK Signal Name 36 GR CENTRAL_LOCK_SW Signal Name Signal Name	F G H
Connector No. M18	L M N
I ABKIA0839GB	P

Revision: February 2010 DLK-555 2009 Altima

Connector No. B6 Connector Name WIRE TO WIRE	Connector Color WHITE			4 5 6 7		Terminal No. Color of Signal Name Wire	3 G/Y –						Connector No. B28		Connector Name TRUNK RELEASE SOLENOID	Connector Color WHITE		H.S. 4	Terminal No. Color of Wire Signal Name	1 Y/G -	2 B
Signal Name	1	ı	ı	ı	ı									BEAB DOOB SWITCH I H			⊘ -	- 2 5	Signal Name	DOOR SW (RL)	
Terminal No. Wire	17J SB	22J R/B	25J Y/G	7 F86	A/5 ∫66								Connector No. B18	9				H.S.	Terminal No. Wire	2 R/B	
Connector No. B1 Connector Name WIRE TO WIRE	Connector Color WHITE	_		3 4 5 6 7	1.1 2.1 1.0 1.1 1.2 1.5 1.5 1.5 1.5 1.5	220 230 244 250 250 250 250 250 250 250 250		31.4 32.4 33.4 34.4 35.4 36.8 37.7 38.1 38.1 40.1 42.1 42.1 42.1 43.1 44.1 45.1 46.1	49J 50J 51J 52J 53J 54J 55J 47J 48J 56J 57J 58J 59J 60J 61J 62J 63J	64.) 65.3 (68.) 67.3 (68.) 63.3 (7.0 77.) 72.1 72.1 72.1 72.1 72.1 72.1 72.1 72.1	17.8 18.9		Connector No. B8	9	Connector Color WHITE			H.S.	Terminal No. Color of Signal Name	2]

[SEDAN WITHOUT INTELLIGENT KEY]

< ECU DIAGNOSIS >

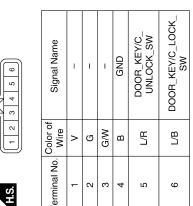
Connector No. B104 Connector Name WIRE TO WIRE	Connector No. B106 Connector Name WIRE TO WIRE	b. B106 ame WIRE	TO WIRE	88	Connector No. B108 Connector Name FRONT DOOR SWITCH RH	B108 FRONT DOC	OR SWITCH RH	
Connector Color BROWN	Connector Color WHITE	olor WHITE		8	Connector Color WHITE	쁘		
H.S. 1	是 H.S.	1 4 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 8 Z 8		S. E.	Q - Q 6		
Terminal No. Color of Signal Name	Terminal No.	Color of Wire	Signal Name		-			
2 ×	က	G/Y	ı	<u>Т</u> е	Terminal No. Wire		Signal Name	
- G/Y -	7	^	ı		2 R/B		DOOR SW (AS)	
10 R/B –								
11 R/W -								
Connector No. B116	Connector No.	o. D1		ပိ	Connector No. D2	8		
Connector Name REAR DOOR SWITCH RH	Connector Name WIRE TO WIRE	ame WIRE	TO WIRE	<u> </u> පි	Connector Name WIRE TO WIRE	IRE TO WI	IRE	
Connector Color WHITE	Connector Color WHITE	olor WHITI	111	8	Connector Color WHITE	HITE		
H.S.	画 H.S.	7 6 5 4 C	12 11 10 9 8		H.S. 16 15 14 13	8 1	2 C C	
10						=		
Terminal No. Color of Signal Name	Terminal No.	Color of Wire	Signal Name	Te	Terminal No. Wire		Signal Name	
2 R/W DOOR SW (RR)	-	GR	1		2 L/B		1	
	4	ŋ	ı		9 L/R		1	
	6	GR/R	ı					
	13	G/W	1					
	14	>	1					
L M N	J	ı	G	E	D	С	В	Α

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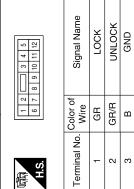
Revision: February 2010 DLK-557 2009 Altima



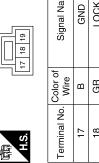


Signal Name	1	I	ı	GND	DOOR_KEY/C_ UNLOCK_SW	DOOR_KEY/C_LOCK_ SW	
Color of Wire	^	В	G/W	В	L/R	L/B	
Terminal No. Wire	-	2	က	4	5	9	

D105	Connector Name DOOMER WINDOW AND SOURCE SWITCH RH	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

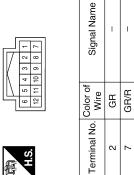


D8	Connector Name DOOR LOCK/UNLOCK SWITCH	WHITE	
Connector No.	Connector Name	Connector Color WHITE	



Signal Name	GND	LOCK	
Color of Wire	В	ЯÐ	
minal No.	17	18	

D102	WIRE TO WIRE	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	

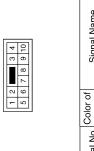


Connector Name AND DOOR LOCK/UNLOCK SWITCH Connector Color WHITE



NOTOCK	GR/R	9
Signal Name	Color of Wire	Terminal No.

D101	WIRE TO WIRE	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	



Signal Name	ſ	_
Color of Wire	G/Y	^
Terminal No.	-	9

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[SEDAN WITHOUT INTELLIGENT KEY]

TO WIRE TO WIRE Connector Name REAR DOC Connector Color GRAY ACTUATO Connector Color GRAY ACTUATO Connector Color GRAY ACTUATO Connector Color GRAY ACTUATO Connector Color of Terminal No. Wire		10						
TO WIRE E Signal Name		DOOR LOCK	ATOR LH		4	Signal Name	1	
TO WIRE E Signal Name		me REAR	ACTU	or GRAY	l H—II	Color of Wire	>	20
10 V	Connector No.	Connector Nar		Connector Col	南 H.S.	Terminal No.	-	c
	Connector No. D201	Connector Name WIRE TO WIRE	Connector Color WHITE		7 6 5 7	Terminal No. Color of Signal Name	G/Y –	

Signal Name	_	-	
Color of Wire	G/Y	^	
Terminal No.	3	7	

Signal Name	_	-	
Color of Wire	۸	G/Y	
Terminal No.	5	9	

Connector Name FRONT DOOR LOCK
ACTUATOR RH
Connector Color GRAY

D108

Connector No.

Connector No. D305				l
	02			
Connector Name REAR DOOR LOCK	:AR D	OOR	LOCK	
AC	ACTUATOR RH	70R F	갦	
Connector Color GRAY	₹AY			
1.5.	3	2	9	

Connector Name WIRE TO WIRE Connector Color WHITE

D301

Connector No.



Signal Name	1	I	
Color of Wire	^	G/Y	
Terminal No.	5	9	

Signal Name

Color of Wire გ

> Terminal No. က

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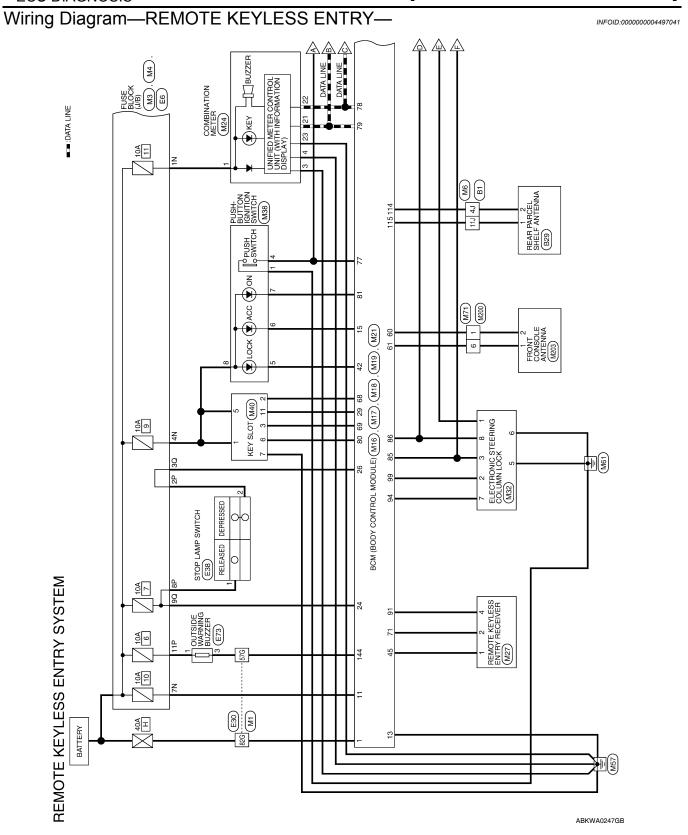
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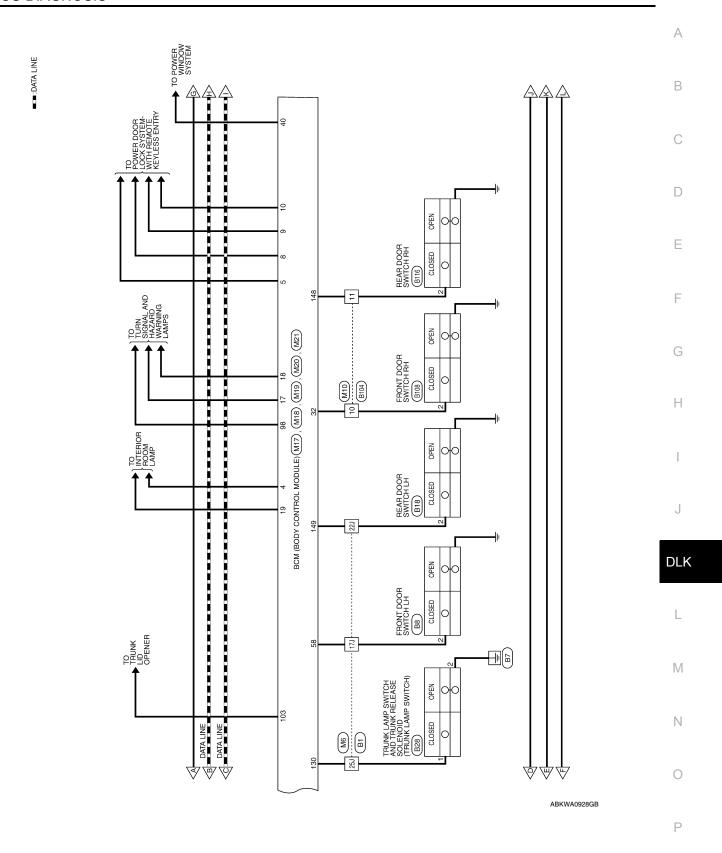
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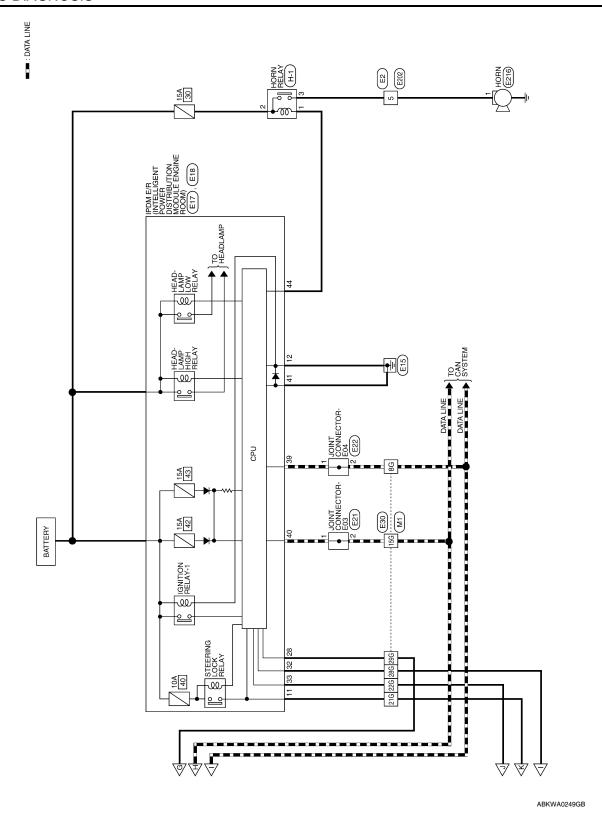
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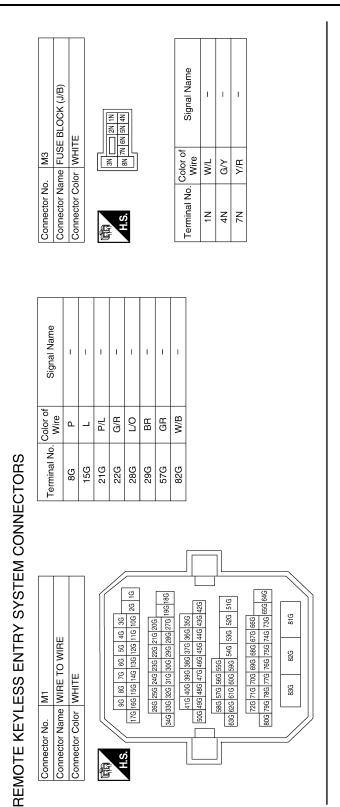
DLK-559 Revision: February 2010 2009 Altima

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M4	Connector Name FUSE BLOCK (J/B)	WHITE	40 30 20 10 100 90 80 70 60 50
Connector No.	Connector Name	Connector Color WHITE	H.S.

Signal Name	I	ı
Color of Wire	O/L	B/W
Terminal No.	30	90

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	olor BROWN		5 4	11 10 9 8			Color of	Wire Signal Name	R/B –	R/W –						Color of Signal Name Wire	P/W ROOM LAMP BAT SAVER	G/Y CDL_AS	V CDL_COMMON	G CDL_DR/FL	G/Y CDL_RR_RL_BACK	Y/R BAT_BCM_FUSE	B GND1	Y/L ACC_LED	G/B FR_FLASHER	G/Y FL_FLASHER	Y ROOM_LAMP_OUTPUT
Connector No.	Connector Color			U	511		CIA	i erminai No.	10	11						Terminal No.	4	S	8	6	10	11	13	15	17	18	19
Signal Name		ı	ı	1	ı											M17	JLE)		8 9 10	11 12 13 14 15 16 17 18 19							
S S S		11J W	17J SB	22J R/B	25J Y/G											Connector No. M17			4567	(r)							
WISE TO WIRE	Connector Color WHITE			90 80 70 60 50 40 30	173 163 153 143 133 123 113	253 [244] 253 [252] 250 [254] 254 [252] 255 [254] 255 [254] 255 [254] 255 [255]			46J 45J 44J 43J 47J 40J 39J 38J	55J 54J 53J 52J 51J 50J 49J		79J 78J 77J 78J 78J 78J 78J 77J 77J 78J 78	873 883 853 844	000 000 000		COL		DEACK			7		Terminal No. Color of Signal Name	Wire	1 W/B BAI_POWER_F/L		

[SEDAN WITHOUT INTELLIGENT KEY]

Signal Name	FOB_SLOT_ ILLUMINATION	IGN_ON_LED	S/L_CONDITION_1	S/L_CONDITION_2	RF1_POWER_SUPPLY	S/L_POWER_SUPPLY_ 12V	HAZARD SW	S/L_K-LINE
Color of Wire	R/L	LG	0/1	G/R	L/R	G/Y	G/O	\sim
Terminal No.	80	81	85	98	91	94	86	66

Signal Name	ROOM_ANT_2_B	ROOM_ANT_2_A	FOB READER CLOCK	FOB_READER_DATA	RF1_TUNER_SIGNAL	ENG_START_SW	CAN-L	CAN-H
Color of Wire	B/B	W/R	G/O	0	9	BR	Ь	٦
Terminal No.	09	61	89	69	71	77	8/	62

nnector No. M19 nnector Name BCM (BODY CON- MODULE) nnector Color BLACK State St			ROL			65 64 63 62 61 60	35 84 83 82 81 80
Connector No. M19 Connector Name BCM (BODY Connector Color BLACK H.S. 12			LNO			99	
Connector No. M19 Connector Name BCM (BODY MODULE) Connector Color BLACK LS. 13 78 77 76 75 74 73 72 71 70 68 6 98 98 98 97 68 59 4 68 92 91 90 68 98 88			Ö				8 87
Connector No. M19 Connector Name BCM (BC Connector Color BLACK MDDULE Connector Color BLACK LS. 13 78 77 76 75 74 73 72 71 70 19 19 19 19 19 19 19 19 19 19 19 19 19			اق شا			9 68	8
Connector No. M19 Connector Name BCM MODU Connector Color BLAC LAS. 13 78 77 78 78 74 73 72 71 199 98 97 98 95 94 93 92 91			<u> </u>	~		2	8
Connector No. MI Connector Name BG Connector Color BL Connector No.		6	ΣŽ	AC		7	9
Connector No. Connector Name Connector Color H.S. H.S. 79 78 77 76 75 74 73 99 98 97 96 95 94 93		Ξ	8 ≥	님		72	95
Connector No. Connector Color Connector Native Color Color Connector Native Color Con	ł	_	Φ	_		73	93
Connector No Connector No Connector No Connector No Connector			Ĕ	<u>ة</u>		74	94
Connector Connec		ž	<u>×</u>	ပြ		75	95
Connect Connec		ō	ō	ō		9/	96
Conni Conni Conni		ect	ect	6 6		77	97
		Ĕ	Ē	Ĕ		78	86
		Õ	ပြ	Ŝ	暨	62	66

Signal N	FOB_SL	IGN_ON	S/L_CONDI	S/L_CONDI	RF1_POWER	S/I DOWED
Color of Wire	R/L	ГG	0/7	G/R	L/R	
Terminal No. Wire	80	81	85	98	91	
		Ţχ	[.		i	

Signal Name	STOP_LAMP_LOW_SW	STOP_LAMP_HIGH_SW	FOB_IN_SW_1	AS_DOOR_SW	PW K-LINE	S/L_LOCK_LED	GND_RF2_A/L	DR_DOOR_SW	
Color of Wire	B/W	O/L	У	B/B	Y/G	В	Ь	SB	
Ferminal No.	24	26	29	32	40	42	45	58	

Connector No.	M18
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color	GREEN
l南 H.S.	
39 38 37 36 35 34 33 32 31 30 29 28 27	32 31 30 29 28 27 26 25 24 23 22 21 20
59 58 57 56 55 54 53	58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 40

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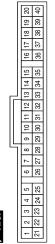
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Signal Name	BATT	GND	GND	CAN-H	CAN-L	GND
Color of Wire	M/L	В	В	٦	Ь	В
Terminal No. Color of Wire	-	3	4	21	22	23

			_	_	_	_	_
Signal Name	S/L 12V MECHANICAL (V1)	S/L_COM	S/L_CONDITION_1	GND	GNĐ	S/L_12V_CPU (V2)	S/L_CONDITION_2
Color of Wire	P/L	5	0/1	В	В	G/Y	G/R
Terminal No.	1	2	3	5	9	7	8

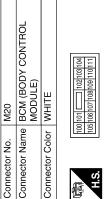




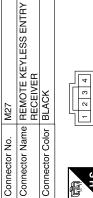
Signal Name	TRUNK_ANT_1_B	TRUNK_ANT_1_A	TRUNK_SW	BUZZER	RR_DOOR_SW	RL_DOOR_SW
Color of Wire	В	M	Y/G	GR	B/W	B/B
Terminal No. Wire	114	115	130	144	148	149







Signal Name	CDL_BACK_TRUNK
Color of Wire	^
Terminal No.	103





Signal Name	GND	SIGNAL	12V	
Color of Wire	۵	9	L/R	
erminal No.	-	2	4	

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[SEDAN WITHOUT INTELLIGENT KEY]

Signal Name

12 22	Signal Name	I	
Connector No. M71 Connector Name WIRE TO WIRE Connector Color WHITE T 2 3 4 5 T 2 8 9 10 11 12 H.S.	Color of Wire	B/R	0/4/
Connector No. M71 Connector Name WIRE T Connector Color WHITE T 2 3 T T 2 8 9 1 H.S.	Terminal No.	-	

8 9 10 11 12	Signal Na	ı	1
6 8 1	Color of Wire	B/R	W/R
H.S.	Terminal No.	-	9

Signal Name

Terminal No. Wire

0/5	CLOCK		Wire	ogia a
0,0	CLOCK	_	a/a	
0		_	<u>-</u>	_
	DATA	9	W/B	
გ_	LIGHT_BAT+	,		
R/L	LIGHT_A			
В	GND			
>	CARD_SW_1			
M203		Connector		
FRON	T CONSOLE ANTENNA	Connector	Name WI	RE TO WIRE
Connector Color GRAY		Connector	. Color Wi	HTE
_		á	 	
7			-14	1 2 4 3 4 5 6 7 8 3
-JJ		S.	1	
Color of Wire	Signal Name	Terminal N	lo. Color o	Signal N
W/R	ANT+	2	0	ı
B/R	ANT-			
	MZ03 FRON GRAY or of ire	ON S		Connector No. E. Connector Name W Connector Color W Terminal No. Wire 5

	Connector Name WIRE TO WIRE	ш	3 2 1	Signal Name	-	ı
M200	e WIRE	WHITE	5 4 11 10	Color of Wire	B/R	W/R
No.	Nam	Colo				
Connector No.	Connector	Connector Color	H.S.	Terminal No.	Į.	9
			·			

Connector No.	M38
Connector Name	Connector Name PUSH-BUTTON IGNITION
	SWITCH
Connector Color BROWN	BROWN

Connector Name KEY SLOT
Connector Color WHITE

Connector No. M40





Signal Nam	GN 5	START_S\	LOCK	ACC	NO	B+	
Color of Wire	В	BB	Œ	7/A	рη	G/Y	
erminal No.	-	4	5	9	7	8	

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Connector No. E21 Connector Name JOINT CONNECTOR-E03 Connector Color WHITE
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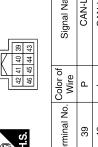
	Connector Name JOINT CONNECTOR-E03	111	2 1	Signal Name	-	
-	JOINT	WHITE	0 4 3 2 1	Color of Wire	٦	-
Collifornia de la collifornia della collifornia	ector Name	Connector Color WHITE		Terminal No.	1	_
5	Conn	Conn	用.S.	Term		

E17	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	WHITE
Connector No.	Connector Name	Connector Color WHITE

Connector Name FUSE BLOCK (J/B)

Connector No.

Connector Color WHITE

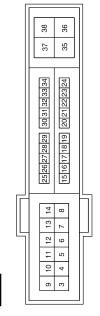


Signal Name	CAN-L	CAN-H	GND (SIGNAL	HORN RLY
Color of Wire	۵	_	В	G/W
Terminal No.	39	40	41	44

	_			
Signal Name	ı	I	I	
Color of Wire	R/G	Y/R	Y/B	
Terminal No.	2P	48	11P	

Signal Name	ESCL	GND (POWER)	PUSH_START_SW	SL_CONDITION_1	SL_CONDITION_2
Color of Wire	P/L	В	BR	0/1	G/R
Terminal No.	=	12	28	32	33

Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color WHITE



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[SEDAN WITHOUT INTELLIGENT KEY]

< ECU DIAGNOSIS >

Connector No. E30 Terminal No. Color of Signal Name Connector Name WIRE TO WIRE 8G P -	Connector No. E30 Connector No. Connector Name WIRE TO WIRE Solution of Connector Color Wire Solution of Color of	Connector Name WIRE TO WIRE
nector No. E30 nector Name WIRE TO WIRE nector Color WHITE 36 46 56 66 76 86 96 16 26 106 116 126 139 146 156 169 776 26 216 226 236 236 236 236 236 16 16 26 276 289 396 306 316 236 336 336 16 16 18 276 289 396 306 316 236 336 336 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE 16 26 106 116 126 126 126 126 126 126 126 126 12	Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color WHITE Light See 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
nector No. E30 nector Name WIRE TO WIRE nector Color WHITE 36 46 56 66 76 86 96 16 26 106 116 126 139 146 156 169 776 26 216 226 236 236 236 236 236 16 16 26 276 289 396 306 316 236 336 336 16 16 18 276 289 396 306 316 236 336 336 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE 16 26 106 116 126 126 126 126 126 126 126 126 12	Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color WHITE Light See 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
nector No. E30 nector Name WIRE TO WIRE nector Color WHITE 36 46 56 66 76 86 96 16 26 106 116 126 139 146 156 169 776 26 216 226 236 236 236 236 236 16 16 26 276 289 396 306 316 236 336 336 16 16 18 276 289 396 306 316 236 336 336 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE 16 26 106 116 126 126 126 126 126 126 176 186 196 16 26 106 116 126 126 126 126 126 126 126 126 12	Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE Connector Color WHITE Light See 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	INT CONNECTOR-E04	No. E22 Name JOINT CONNECTOR-E04 Solor WHITE A 3 2 1 1

	Connector Name OUTSIDE WARINING BUZZER	NN	<u></u>	Signal Name	ı	ı
E73	ne OUTSIDE BUZZER	or BRO		Color of Wire	മ	Œ
Connector No.	Connector Nan	Connector Color BROWN	H.S.	Terminal No. Wire	1	က
	LAMP SWITCH	~		Signal Name	1	1
Connector No. E38	Connector Name STOP LAMP SWITCH (WITH M/T)	Connector Color BLACK	1 2	Color of Signal Name	- L	

	STOP LAMP SWITCH (WITH CVT)	=	42	Signal Name	ı	ı	
E38		WHITE		Color of Wire	В	LG	
Connector No.	Connector Name	Connector Color	ιώ	Terminal No.	-	2	
20	Con	Con	H.S.	Tern	AE	SKIA0	850GB

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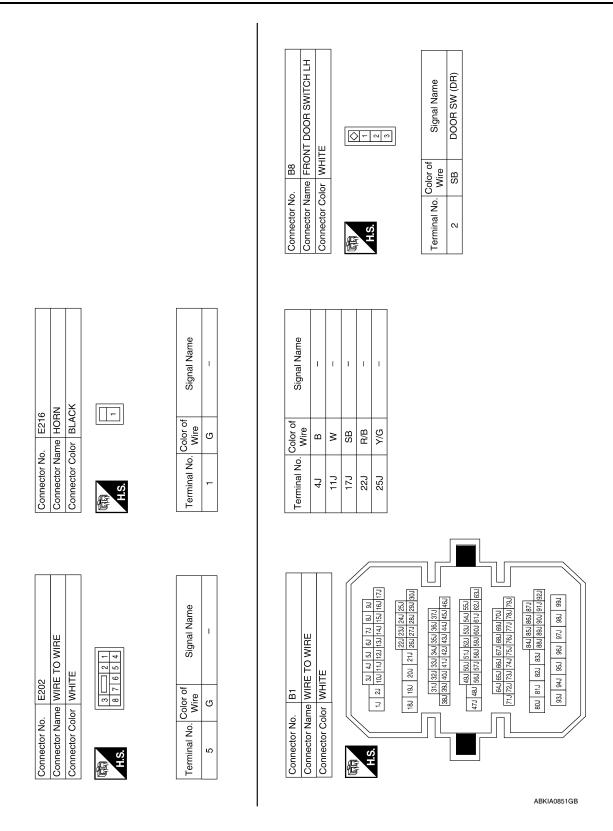
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[SEDAN WITHOUT INTELLIGENT KEY]

No. B28	ctor No. B28 ctor Name TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID ctor Color WHITE at No. Color of Signal Name 'Y/G
No. B28 Name TRUNK LAMP SWITCH A TRUNK RELEASE SOLEN Color WHITE 2 1 4 3 Color of Signal Name Wire Y/G	Connector No. Connector Color Connector Color H.S. H.S. Terminal No. Color Termi
Name 11 12 13 13 14 15 15 15 15 15 15 15	Connector No.
Connector Connector Connector H.S. H.S.	R SWITCH LH ignal Name OOR SW (RL)

		l .			_				
ANT+	ANT-		Q	Connector Name REAR DOOR SWITCH RH	TE		3 8	Signal Name	ı
Ν	В). B116	me REA	olor WHI			Color of Wire	Ø
1	2		Connector No.	Connector Na	Connector Color WHITE			Terminal No. Wire	-
I	ı			Connector Name FRONT DOOR SWITCH RH	E			Signal Name	1
Y/G	В). B108	ıme FROI	lor WHIT	⊘ -	0 8	Color of Wire	Ø
-	2		Connector No.	Connector Na	Connector Color WHITE	E		Terminal No.	-

	TO WIRE	NA	9 10 11 12	Signal Name	_	_
B104	ne WIRE	or BROV	6 7 8 8	Color of Wire	B/B	R/W
Connector No.	Connector Name WIRE TO WIRE	Connector Color BROWN	H.S.	Terminal No.	10	11

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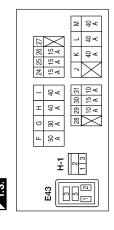
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Signal Name	I	I	I	
Color of Wire	G/W	SB	В	
Terminal No. Wire	-	2	3	

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Wiring Diagram — TRUNK LID OPENER SYSTEM —

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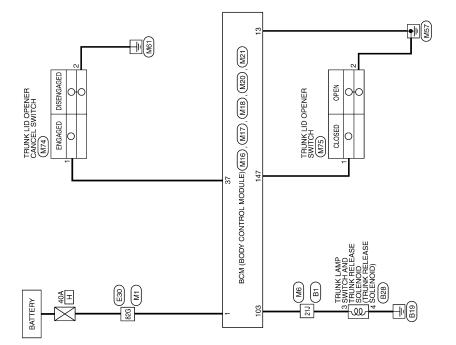
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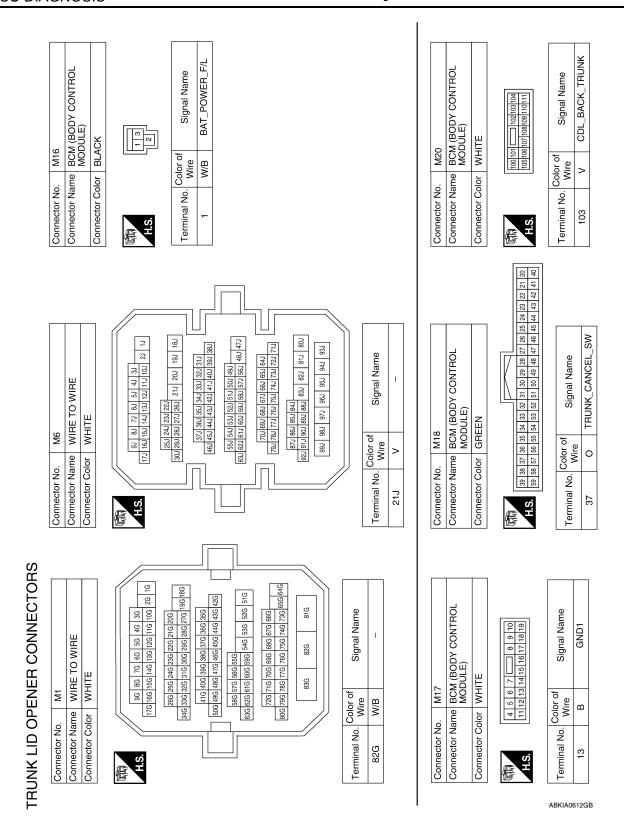
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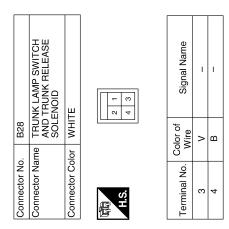
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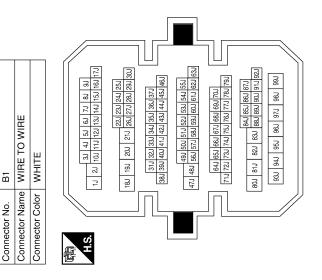
TRUNK LID OPENER



		А
M75 TRUNK LID OPENER SWITCH BLACK 2		В
		С
Connector No. Connector Name Connector Color H.S. 1 LV		D
		E F
D OPENER SWITCH Signal Name	Signal Name	G
NO CELCE		Н
CO CO Miles	Terminal No. Wire 82G LG	I
Connector No Connector No Connector Co Connector Co H.S.	Terminal 82G	J
ROL 116 115 114 113 112 114 113 112 114 113 112 114 113 112 114 113 112 114 113 112 114 113 112 114 113 112 114 113		DLK
2DY CONTROL 2) 1 120 19 18 117 116 115 116	MIRE 66	L
A A V (BC)	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE Connector Color WHITE 16 26 106 116 126 136 146 156 166 176 16 26 106 116 120 136 146 156 166 176 26 210 226 236 246 256 266 186 196 270 286 286 306 316 286 336 346 26 36 36 36 376 386 386 406 416 420 436 446 456 466 476 486 496 506 516 526 536 546 586 606 110 626 686 646 656 736 746 756 766 777 776 776 776 806	M
M2 M2 M2 M3 M4 M5 M5 M5 M5 M5 M5 M5	Connector No. E Connector Name V Connector Color V Connector Color V 16 26 16 166	N
Connector No Connector No Connector Co Connector Co H.S.	ABKIA0613GB	0
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Signal Name	ı	
Color of Wire	>	
Terminal No.	21J	



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Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC

< ECU DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Display contents of CONSULT	Fail-safe	Cancellation
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	Inhibit engine cranking Inhibit electronic steering column lock	100 ms after the power supply voltage increases to more than 8.8 V
B2601: SHIFT POSITION	Inhibit electronic steering column lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit electronic steering column lock	 5 seconds after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 /h or more
B2603: SHIFT POSI STATUS	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit electronic steering column lock	 500 ms after any of the following BCM recognition conditions is fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/transmission range switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - transmission range switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)

< ECU DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilledPower position changes to ACCReceives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the electronic steering column lock unit power sup- ply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: OFF (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to electronic steering column lock, and receives LOCK response signal from electronic steering column lock, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

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If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)

< ECU DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Priority	DTC	
	B2190: NATS ANTENNA AMP	
_	B2191: DIFFERENCE OF KEY	
3	B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM	
	B2195: ANTI SCANNING	
	B2013: ID DISCORD BCM-S/L	
	B2013: ID DISCORD BCW-5/L B2014: CHAIN OF S/L-BCM	
	B2553: IGNITION RELAY	
	B2555: STOP LAMP	
	B2556: PUSH-BTN IGN SW	
	B2557: VEHICLE SPEED	
	B2560: STARTER CONT RELAY	
	B2601: SHIFT POSITION Bases SUITE POSI	
	B2602: SHIFT POSITION B2603: SHIFT POSI STATUS	
	• B2604: PNP SW	
	• B2605: PNP SW	
	• B2606: S/L RELAY	
	• B2607: S/L RELAY	
	B2608: STARTER RELAY	
	• B2609: S/L STATUS	
	B260A: IGNITION RELAY B260B: STEEPING LOCK LINIT	
4	B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT	
	B260D: STEERING LOCK UNIT	
	B260F: ENG STATE SIG LOST	
	• B2612: S/L STATUS	
	B2614: ACC RELAY CIRC	
	B2615: BLOWER RELAY CIRC	
	B2616: IGN RELAY CIRC	
	B2617: STARTER RELAY CIRC B2618: BCM	
	• B2619: BCM	
	B261A: PUSH-BTN IGN SW	
	B261E: VEHICLE TYPE	
	B26E1: ENG STATE NO RECIV	
	B26E8: CLUTCH SW	
	B26E9: S/L STATUS	
	B26EA: KEY REGISTRATION ATTO MILE OF THE STATE O	
	C1729: VHCL SPEED SIG ERR LIGHTS: VEHICLE SPEED SIG	
	U0415: VEHICLE SPEED SIG	

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[SEDAN WITHOUT INTELLIGENT KEY]

< ECU DIAGNOSIS >

Priority	DTC
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1724: [COTROL UNIT
6	B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-39
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-40
U0415: VEHICLE SPEED SIG	_	_	_	BCS-41
B2013: ID DISCORD BCM-S/L	×	_	_	SEC-39 (Coupe) SEC-249 (Sedan with I-Key) SEC-458 (Sedan without I-Key)
B2014: CHAIN OF S/L-BCM	×	_	_	SEC-40 (Coupe) SEC-250 (Sedan with I-Key) SEC-459 (Sedan without I-Key)
B2190: NATS ANTENNA AMP	×	_	_	SEC-65 (Coupe) SEC-275 (Sedan with I-Key) SEC-478 (Sedan without I-Key)
B2191: DIFFERENCE OF KEY	×	_	_	SEC-68 (Coupe) SEC-278 (Sedan with I-Key) SEC-481 (Sedan without I-Key)

[SEDAN WITHOUT INTELLIGENT KEY]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-69 (Coupe) SEC-279 (Sedan with I-Key) SEC-482 (Sedan without I-Key)
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-70 (Coupe) SEC-280 (Sedan with I-Key) SEC-483 (Sedan without I-Key)
B2195: ANTI SCANNING	×	_	_	SEC-70 (Coupe) SEC-281 (Sedan with I-Key) SEC-484 (Sedan without I-Key)
B2553: IGNITION RELAY	_	_	_	PCS-62
B2555: STOP LAMP	_	_	_	SEC-72 (Coupe) SEC-282 (Sedan with I-Key) SEC-485 (Sedan without I-Key)
B2556: PUSH-BTN IGN SW	_	×	_	SEC-74 (Coupe) SEC-284 (Sedan with I-Key) SEC-487 (Sedan without I-Key)
B2557: VEHICLE SPEED	×	×	_	SEC-76 (Coupe) SEC-286 (Sedan with I-Key) SEC-489 (Sedan without I-Key)
B2560: STARTER CONT RELAY	×	×	_	SEC-77 (Coupe) SEC-287 (Sedan with I-Key) SEC-490 (Sedan without I-Key)
B2562: LOW VOLTAGE	_	_	_	BCS-42
B2601: SHIFT POSITION	×	×	_	SEC-78 (Coupe) SEC-288 (Sedan with I-Key) SEC-491 (Sedan without I-Key)
B2602: SHIFT POSITION	×	×	_	SEC-81 (Coupe) SEC-291 (Sedan with I-Key) SEC-494 (Sedan without I-Key)
B2603: SHIFT POSI STATUS	×	×	_	SEC-84 (Coupe) SEC-294 (Sedan with I-Key) SEC-497 (Sedan without I-Key)
B2604: PNP SW	×	×	_	SEC-87 (Coupe) SEC-297 (Sedan with I-Key) SEC-500 (Sedan without I-Key)
B2605: PNP SW	×	×	_	SEC-89 (Coupe) SEC-299 (Sedan with I-Key) SEC-502 (Sedan without I-Key)
B2606: S/L RELAY	×	×	_	SEC-91 (Coupe) SEC-301 (Sedan with I-Key) SEC-504 (Sedan without I-Key)
B2607: S/L RELAY	×	×	_	SEC-92 (Coupe) SEC-302 (Sedan with I-Key) SEC-505 (Sedan without I-Key)
B2608: STARTER RELAY	×	×	_	SEC-94 (Coupe) SEC-304 (Sedan with I-Key) SEC-507 (Sedan without I-Key)
B2609: S/L STATUS	×	×	_	SEC-96 (Coupe) SEC-306 (Sedan with I-Key) SEC-509 (Sedan without I-Key)
B260A: IGNITION RELAY	×	×		PCS-64
B260B: STEERING LOCK UNIT	_	×	_	SEC-100 (Coupe) SEC-310 (Sedan with I-Key) SEC-513 (Sedan without I-Key)

[SEDAN WITHOUT INTELLIGENT KEY]

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B260C: STEERING LOCK UNIT	_	×	_	SEC-101 (Coupe) SEC-311 (Sedan with I-Key) SEC-514 (Sedan without I-Key)
B260D: STEERING LOCK UNIT	_	×	_	SEC-102 (Coupe) SEC-312 (Sedan with I-Key) SEC-515 (Sedan without I-Key)
B260F: ENG STATE SIG LOST	×	×	_	SEC-103 (Coupe) SEC-313 (Sedan with I-Key) SEC-516 (Sedan without I-Key)
B2612: S/L STATUS	×	×	_	SEC-108 (Coupe) SEC-318 (Sedan with I-Key) SEC-519 (Sedan without I-Key)
B2614: ACC RELAY CIRC	_	×	_	PCS-67
B2615: BLOWER RELAY CIRC	_	×	_	PCS-70
B2616: IGN RELAY CIRC	_	×	_	PCS-73
B2617: STARTER RELAY CIRC	×	×	_	SEC-112 (Coupe) SEC-322 (Sedan with I-Key) SEC-523 (Sedan without I-Key)
B2618: BCM	×	×	_	PCS-76
B2619: BCM	×	×	_	SEC-114 (Coupe) SEC-324 (Sedan with I-Key) SEC-525 (Sedan without I-Key)
B261A: PUSH-BTN IGN SW	_	×	_	SEC-116 (Coupe) SEC-326 (Sedan with I-Key) SEC-527 (Sedan without I-Key)
B261E: VEHICLE TYPE	×	× (Turn ON for 15 seconds)	_	SEC-116 (Coupe) SEC-325 (Sedan with I-Key) SEC-526 (Sedan without I-Key)
B2622: INSIDE ANTENNA	_	_	_	DLK-57 (Coupe) DLK-279 (Sedan with I-Key) DLK-480 (Sedan without I-Key)
B2623: INSIDE ANTENNA	_	_	_	DLK-60 (Coupe) DLK-282 (Sedan with I-Key) DLK-483 (Sedan without I-Key)
B26E1: ENG STATE NO RES	×	×	_	SEC-118 (Coupe) SEC-328 (Sedan with I-Key) SEC-529 (Sedan without I-Key)
B26E8: CLUTCH SW	×	×	_	<u>SEC-118</u> (Coupe) <u>SEC-314</u> (Sedan with I-Key)
B26E9: S/L STATUS	×	× (Turn ON for 15 seconds)	_	SEC-118 (Coupe) SEC-316 (Sedan with I-Key) SEC-517 (Sedan without I-Key)
B26EA: KEY REGISTRATION	×	× (Turn ON for 15 seconds)	_	SEC-118 (Coupe) SEC-317 (Sedan with I-Key) SEC-518 (Sedan without I-Key)
C1704: LOW PRESSURE FL	_	_	×	
C1705: LOW PRESSURE FR	_	_	×	\A/T E2
C1706: LOW PRESSURE RR	_	_	×	<u>WT-53</u>
C1707: LOW PRESSURE RL	_	_	×	

< ECU DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
C1708: [NO DATA] FL	_	_	×		
C1709: [NO DATA] FR	_	_	×	WT-14	
C1710: [NO DATA] RR	_	_	×	<u>W1-14</u>	
C1711: [NO DATA] RL	_	_	×		
C1712: [CHECKSUM ERR] FL	_	_	×		
C1713: [CHECKSUM ERR] FR	_	_	×	WT-16	
C1714: [CHECKSUM ERR] RR	_	_	×	<u>vv 1-10</u>	
C1715: [CHECKSUM ERR] RL	_	_	×		
C1716: [PRESSDATA ERR] FL	_	_	×		
C1717: [PRESSDATA ERR] FR	_	_	×	WT-18	
C1718: [PRESSDATA ERR] RR	_	_	×	<u>vv 1-10</u>	
C1719: [PRESSDATA ERR] RL	_	_	×		
C1720: [CODE ERR] FL	_	_	×		
C1721: [CODE ERR] FR	_	_	×		
C1722: [CODE ERR] RR	_	_	×		
C1723: [CODE ERR] RL	_	_	×	WT 16	
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-16</u>	
C1725: [BATT VOLT LOW] FR	_	_	×		
C1726: [BATT VOLT LOW] RR	_	_	×		
C1727: [BATT VOLT LOW] RL	_	_	×		
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>	
C1734: CONTROL UNIT	_	_	×	<u>WT-20</u>	

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SYMPTOM DIAGNOSIS

DOOR LOCK FUNCTION

Symptom Table

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-457, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Symptom		Diagnosis/service procedure		
		Check BCM Power supply and gre	DLK-486	
Power door locks do not operate with door lock	2.	Check door lock and unlock switch	h.	DLK-490
and unlock switch.	3.	Check door lock actuator (driver s	ide)	DLK-506
	4.	Check Intermittent Incident.		<u>GI-42</u>
Power door locks do not operate with door key	1.	Check key cylinder switch.		DLK-496
cylinder operation. (Power door locks operate properly with door lock and unlock switch.)	2.	Replace power window main switch.		PWC-193
	Check door lock actuator		Driver side	DLK-506
		Passenger side	DLK-507	
Specific door lock actuator does not operate.	١.		Rear LH	DLK-508
			Rear RH	DLK-509
	2.	Check Intermittent Incident.		<u>GI-42</u>
Vehicle speed sensing auto door LOCK opera-	1.	Ensure automatic door lock/unlock function (lock operation) is enabled.		DLK-475
tion does not operate.	2.	Check combination meter vehicle speed signal.		MWI-42
	3.	Check intermittent incident.	<u>GI-42</u>	
Ignition OFF interlock auto door UNLOCK	1.	Ensure automatic door lock/unlock function (unlock operation) is enabled.		DLK-475
function does not operate.	2.	Check BCM for DTCs.		DLK-580
	3.	Check intermittent incident.		<u>GI-42</u>

REMOTE KEYLESS ENTRY SYSTEM

< SYMPTOM DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

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REMOTE KEYLESS ENTRY SYSTEM

Symptom Table

REMOTE KEYLESS ENTRY SYSTEM

Symptom	Diagnoses/service procedure	Reference page		
All functions of remote keyless entry system do not operate.	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.			
	Check BCM and remote keyless entry receiver.	DLK-514		
The new ID of keyfob cannot be entered.	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-517		
	2. Door switch check	DLK-487		
	3. ACC power check	DLK-486		
	4. Replace BCM.	BCS-100		
Door lock or unlock does not function. (If the power door lock system does not operate manually, check power door lock system)	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-517		
	2. Replace BCM.	BCS-100		
Hazard and horn reminder does not activate properly	Check hazard and horn reminder mode with CONSULT-III NOTE: Hazard and horn reminder mode can be changed. First check the hazard and horn reminder mode setting.	PCS-17		
when pressing lock or unlock button of keyfob.	2. Door switch check	DLK-487		
	3. Replace BCM.	BCS-100		
Hazard reminder does not activate properly when pressing lock or unlock button of keyfob.	Check hazard reminder mode with CONSULT-III NOTE: Hazard reminder mode can be changed. First check the hazard reminder mode setting.	PCS-17		
(Horn reminder OK)	2. Check hazard function with hazard switch	_		
	3. Replace BCM.	BCS-100		
Horn reminder does not activate properly when pressing lock or unlock button of keyfob.	Check horn reminder mode with CONSULT-III NOTE: Horn reminder mode can be changed. First check the horn reminder mode setting.	PCS-17		
(Hazard reminder OK)	2. Check horn function with horn switch	_		
•	3. IPDM E/R operation check	DLK-521		
	4. Replace BCM.	BCS-100		
	1. Room lamp operation check	INL-3		
Room lamp illumination does not operate properly.	2. Door switch check	DLK-487		
	3. Replace BCM.	BCS-100		

REMOTE KEYLESS ENTRY SYSTEM

< SYMPTOM DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Symptom	Diagnoses/service procedure	Reference page
Panic alarm (horn and headlamp) does not activate when panic alarm button is continuously pressed.	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-517
	2. ACC power check	DLK-486
	3. Replace BCM.	BCS-100
Auto door lock operation does not activate properly. (All other remote keyless entry functions OK.)	Check auto door lock operation mode with CONSULT-III NOTE: Auto door lock operation mode can be changed. First check the auto door lock operation mode setting.	DLK-475
	2. Replace BCM.	BCS-100

TRUNK OPEN FUNCTION

< SYMPTOM DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

TRUNK OPEN FUNCTION

Symptom Table

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to <u>DLK-457</u>, "Work <u>Flow"</u>.
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- · Keyfob is out of key slot.
- · All doors are closed.

Symptom	Diagnosis/service procedure	Reference page
	Check trunk opener switch.	DLK-499
Trunk open function does not operate by trunk opener switch.	Check trunk lid opener cancel switch.	DLK-501
	Check Intermittent Incident.	<u>GI-42</u>

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WARNING FUNCTION

Symptom Table

WARNING FUNCTION MALFUNCTION

NOTE

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-457, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

Warning chime functions operating condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation.

Symptom		Diagnosis/service procedure	Reference page
		Check push-button ignition switch position indicator.	<u>SEC-326</u>
	For internal	2. Check door switch.	DLK-487
		Check warning chime function.	DLK-524
OFF position warn-		Check Intermittent Incident.	<u>GI-42</u>
ing does not oper- ate.		Check push-button ignition switch position indicator.	<u>SEC-326</u>
	For external	2. Check door switch.	DLK-487
	For external	Check outside warning buzzer.	DLK-512
		Check Intermittent Incident.	<u>GI-42</u>
		Check Park position switch.	SEC-297
		Check door switch.	DLK-487
P position warning d	loos not aparata	Check outside warning buzzer.	DLK-512
P position warning o	ioes not operate.	Check warning chime function.	DLK-524
		5. Check combination meter display function.	DLK-523
		6. Check Intermittent Incident.	<u>GI-42</u>
ACC warning does not operate		Check push-button ignition switch position indicator.	SEC-326
		Check warning chime function.	DLK-524
		Check combination meter display function.	DLK-523
		Check Intermittent Incident.	<u>GI-42</u>

WARNING FUNCTION

< SYMPTOM DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Symptom		Diagnosis/service procedure		Reference page	
		1.	Check door switch.		DLK-487
			Object Society Inc. and a sec	Console	<u>DLK-480</u>
		2.	Check inside key antenna.	Trunk room	<u>DLK-483</u>
	D (c. ele	3.	Check outside warning buzzer.		DLK-512
	Door open to close	4.	4. Check warning chime function.		DLK-524
		5.	5. Check key slot illumination.		DLK-519
		6.	Check combination meter display function.		DLK-523
		7.	Check Intermittent Incident.		<u>GI-42</u>
		1.	Check push-button ignition switch position	n indicator.	SEC-326
		_	Charle inside have entered	Console	DLK-480
	Push-button igni-	2.	Check inside key antenna.	Trunk room	DLK-483
	tion switch opera-	3.	Check warning chime function.	1	DLK-524
	tion	4.	Check key slot illumination.		DLK-519
Take away warning		5.	Check combination meter display function	1.	DLK-523
does not operate.		6.	Check Intermittent Incident.		<u>GI-42</u>
		1.	Check push-button ignition switch position	n indicator.	SEC-326
	Door is open		0	Console	DLK-480
		2. (Check inside key antenna.	Trunk room	DLK-483
		3.	Check combination meter display function.		DLK-523
		4.	4. Check Intermittent Incident.		<u>GI-42</u>
	Take away through	1.	Check "TAKE OUT FROM WIN WARN" setting in "WORK SUPPORT".		DLK-272
			0	Console	<u>DLK-480</u>
		2.	Check inside key antenna.	Trunk room	DLK-483
	window	3.	B. Check warning chime function.		DLK-524
		4.	Check key slot illumination.		DLK-519
		5.	5. Check combination meter display function.		DLK-523
		6.	6. Check Intermittent Incident.		<u>GI-42</u>
	1	1.	1. Check key slot.		DLK-494
		2. Check door switch.		DLK-487	
Karrana ana ahiran	d	3.	Check warning chime function.		DLK-524
Key warning chime	does not operate.	Check key slot illumination.			DLK-519
		5.	Check combination meter display function	1.	DLK-523
			Check Intermittent Incident.		<u>GI-42</u>
Door lock operation warning chime does		Check door switch.			DLK-487
		Check key slot illumination.			DLK-519
		3.	Check outside warning buzzer.		DLK-512
not operate.	<u> </u>	_	· · · · · · · · · · · · · · · · · · ·	Console	DLK-480
		4.	Check inside key antenna.	Trunk room	DLK-483
		5.	Check Intermittent Incident.	+	<u>GI-42</u>

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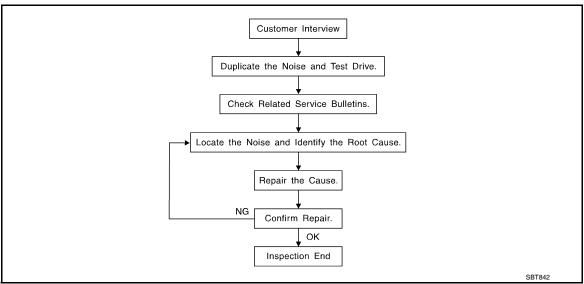
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SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to DLK-594, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 - Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 - Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle)
 - Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 - Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise)
 - Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumble bee)
 - Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge
 as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUE	BLE DIAGNOSES
< SYMPTOM DIAGNOSIS >	[SEDAN WITHOUT INTELLIGENT KEY]
If the noise can be duplicated easily during the test drive, to help cate the noise with the vehicle stopped by doing one or all of the 1) Close a door.	o identify the source of the noise, try to duplifollowing:
2) Tap or push/pull around the area where the noise appears to	be coming from.
3) Rev the engine.4) Use a floor jack to recreate vehicle "twist".	
 5) At idle, apply engine load (electrical load, half-clutch on M/T r 6) Raise the vehicle on a hoist and hit a tire with a rubber hamm 	
 Drive the vehicle and attempt to duplicate the conditions the cu If it is difficult to duplicate the noise, drive the vehicle slowly vehicle body. 	stomer states exist when the noise occurs.
CHECK RELATED SERVICE BULLETINS After verifying the customer concern or symptom, check ASIST to that concern or symptom.	,
If a TSB relates to the symptom, follow the procedure to repair the	ne noise.
LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE	
1. Narrow down the noise to a general area. To help pinpoint (Chassis Ear: J-39570, Engine Ear and mechanics stethosom	
2. Narrow down the noise to a more specific area and identify t	he cause of the noise by:
 removing the components in the area that you suspect the nois Do not use too much force when removing clips and fasteners or lost during the repair, resulting in the creation of new noise. 	
 tapping or pushing/pulling the component that you suspect is c Do not tap or push/pull the component with excessive force, of porarily. 	
 feeling for a vibration with your hand by touching the compor 	nent(s) that you suspect is (are) causing the

noise.

placing a piece of paper between components that you suspect are causing the noise.

 looking for loose components and contact marks. Refer to <u>DLK-592</u>, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31 \text{ in})/76884-71L01$: 60×85 mm $(2.36 \times 3.35 \text{ in})/76884-71L01$

71L02: $15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in})$

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97 \times 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97 \times 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18 \times 1.97 in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

68370-4B000: 15 \times 25 mm (0.59 \times 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that will be visible or not fit. Will only last a few months.

SILICONE SPRAY

Use when grease cannot be applied.

DUCT TAPE

Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000004497062

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- 2. Inside handle escutcheon to door finisher
- Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

- Trunk lid bumpers out of adjustment
- Trunk lid striker out of adjustment
- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

- Any component mounted to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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Revision: February 2010 DLK-593 2009 Altima

Diagnostic Worksheet

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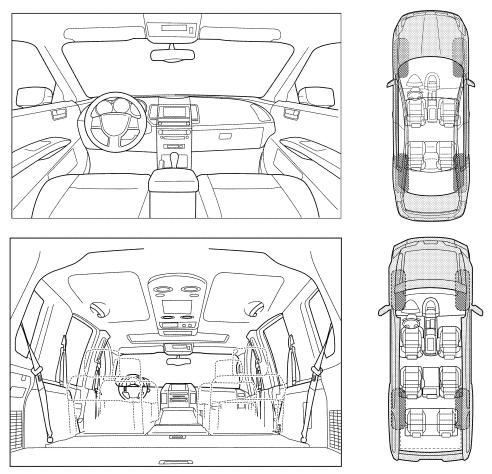
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[SEDAN WITHOUT INTELLIGENT KEY]

- Noise verified on test drive	Briefly describe the location where the	e noise occurs:
Anytime		
1st time in the morning	II. WHEN DOES IT OCCUR? (please	e check the boxes that apply)
Only when it is cold outside		
Only when it is hot outside		
WHEN DRIVING: IV. WHAT TYPE OF NOISE Through driveways		
Through driveways Squeak (like tennis shoes on a clean floor)		
Over rough roads	III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE
Over speed bumps		·
Only about mph	_	
On acceleration		
☐ On turns: left, right or either (circle) ☐ Buzz (like a bumble bee) ☐ With passengers or cargo ☐ Other: ☐ After driving ☐ miles or ☐ minutes TO BE COMPLETED BY DEALERSHIP PERSONNEL Test Drive Notes: YES NO Initials of person performing Wehicle test driven with customer ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
With passengers or cargo Other: After driving miles or minutes TO BE COMPLETED BY DEALERSHIP PERSONNEL Test Drive Notes: YES NO Initials of person performing Wehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair WIN: Customer Name W.O.# Date: This form must be attached to Work Order		
Other: After driving miles or minutes TO BE COMPLETED BY DEALERSHIP PERSONNEL Test Drive Notes: YES NO Initials of person performing Wehicle test driven with customer	_	e)
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Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair Customer Name W.O.# This form must be attached to Work Order		IP PERSONNEL
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair VIN:	Tast Driva Notas:	
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- Noise verified on test drive	Test Drive Notes:	
- Follow up test drive performed to confirm repair		
VIN: Customer Name W.O.# Date: This form must be attached to Work Order	Vehicle test driven with customer - Noise verified on test drive	performing
W.O.# Date: This form must be attached to Work Order	Vehicle test driven with customer	performing
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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

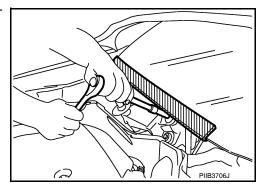
WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Procedure without Cowl Top Cover

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When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Precaution for work

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

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PREPARATION

PREPARATION

Special Service Tools

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	SIIAO993E	Locating the noise
(J-43980) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester	LEL946A	Used to test keyfobs

Commercial Service Tools

Tool name		Description
Engine ear	SIIA0995E	Locating the noise
Power tool	PIIB1407E	

ON-VEHICLE REPAIR

HOOD

HOOD ASSEMBLY

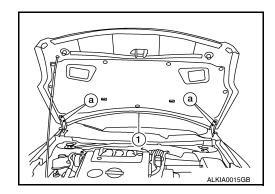
HOOD ASSEMBLY: Removal and Installation

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REMOVAL

Remove the hinge bolts (a) and the hood assembly (1).
 CAUTION:

Operate with two workers, because of its large size.



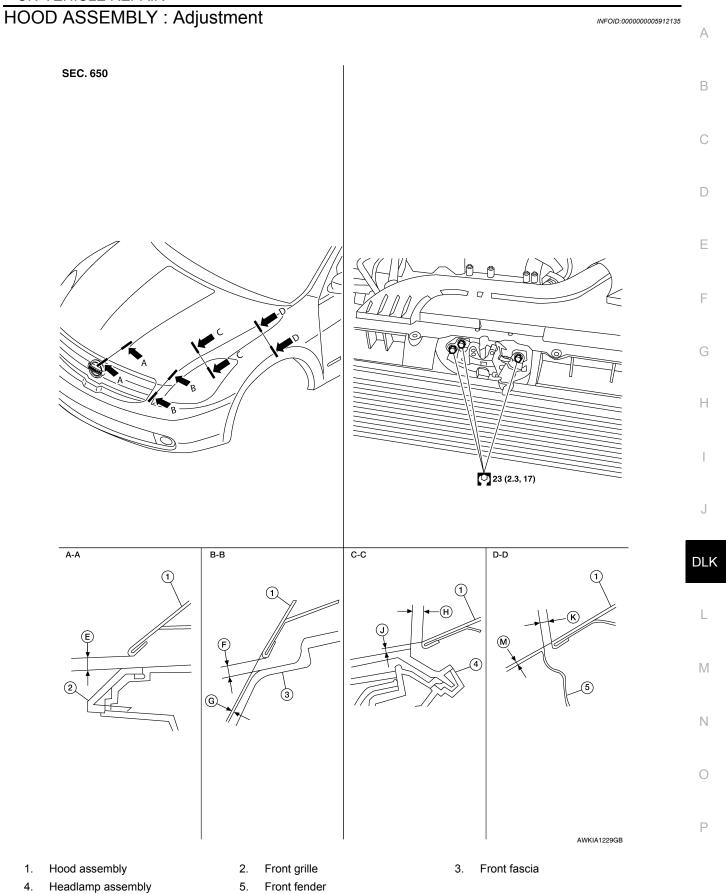
INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installing, perform hood fitting adjustment. Refer to <u>DLK-599</u>, "HOOD ASSEMBLY: Adjustment".

Hood hinge nuts 14 N·m (1.4 kg-m, 10 ft-lb)



FRONT END HEIGHT ADJUSTMENT AND LATERAL/LONGITUDUNAL CLEARANCE ADJUST-**MENT**

Front fender

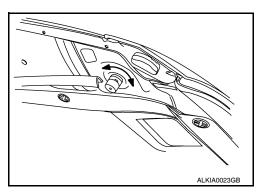
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mm (in)

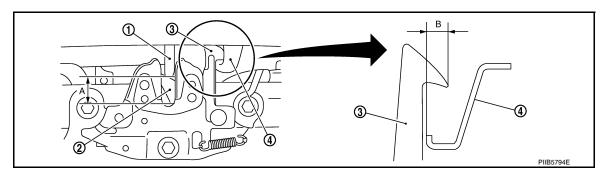
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Section	Item	Measurement	Standard	Parallelism	Equality
A – A	Е	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.079)$	≤ 2.0 (0.079)	_
B – B	F	Clearance	$5.0 \pm 2.0 \; (0.20 \pm 0.079)$	≤ 2.0 (0.079)	≤ 2.2 (0.087)
B = B	G	Surface height	$1.0 \pm 2.0 \; (0.04 \pm 0.079)$	≤ 2.0 (0.079)	≤ 2.0 (0.079)
C – C	Н	Clearance	$4.5 \pm 2.0 \; (0.18 \pm 0.079)$	_	2.1 (0.083)
0-0	J	Surface height	1.0 ± 2.1 (0.04 ± 0.083)	_	< 2.0 (0.079)
D – D	K	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	1.0 (0.04)	1.0 (0.04)
	М	Surface height	$0.2 \pm 1.0 \; (0.01 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)

FRONT END HEIGHT ADJUSTMENT

- 1. Check the surface height between the hood and each part by visual and tactile feeling.
- 2. Remove the front grille. Refer to EXT-40, "Removal and Installation".
- 3. Remove the hood lock.
- 4. Adjust the surface level difference of the hood, fender and head lamp by rotating the hood bumpers until the hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.



- 5. Install and align the hood lock center with the center of the hood striker. Engage the lock with the striker and check for looseness.
- Adjust A and B as shown to specification with hood's own weight by dropping it from approx. 200 mm (7.87 in) height or by pressing the hood closed lightly [approx. 29 N (3 kg-f)].



1. Hood striker

Primary latch

3. Secondary striker

Secondary latch

A. 20 mm (0.79 in)

- B. 6.8 mm (0.27 in)
- 7. After adjustment tighten the hood lock bolts to the specified torque.

LATERAL/LONGITUDUNAL CLEARANCE ADJUSTMENT

- Check the clearance between the hood and each part by visual and tactile feeling.
- 2. Loosen the hood hinge bolts.

NOTE:

The anticorrosive agent applied between the hoodledge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

- Move the hood so that the clearance measurements are within specifications.
- 4. Tighten the hood hinge bolts.

NOTE:

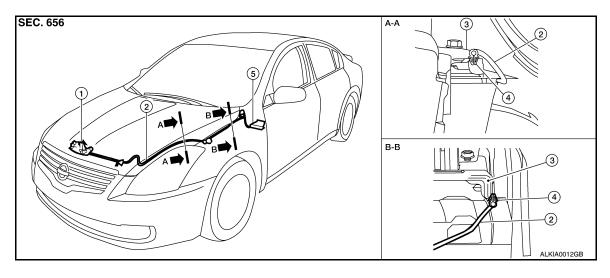
After installation apply touch-up paint onto the hinge bolts and around the base of the hinge.

Hood hinge bolts 14 N·m (1.4 kg-f, 10 ft-lb)

5. If the clearance measurements between the hood and fender cannot be corrected by moving the hood, the fender must be adjusted. Refer to <u>DLK-436</u>, "Removal and Installation".

HOOD LOCK CONTROL

HOOD LOCK CONTROL: Component Parts Location



Hood lock assembly

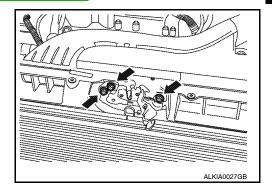
Clip

- 2. Hood lock cable
- 5. Hood lock release handle
- 3. Hoodledge reinforcement

HOOD LOCK CONTROL: Removal and Installation

REMOVAL

- 1. Remove the front grill. Refer to EXT-40, "Removal and Installation".
- Remove the LH fender protector. Refer to <u>EXT-42, "Removal and Installation"</u>.
- 3. Remove the hood lock assembly bolts.



Disconnect the hood lock cable from the hood lock assembly, and unclip it from the hoodledge.

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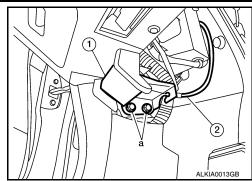
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5. Remove the screws (a) with power tool, and separate the hood lock release handle (1) from the hood lock cable (2).



Remove the grommet from the upper dash, and pull the hood lock cable into the passenger compartment. CAUTION:

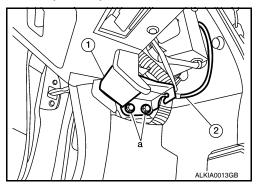
While pulling, be careful not to damage (peel) the outside of the hood lock cable.

INSTALLATION

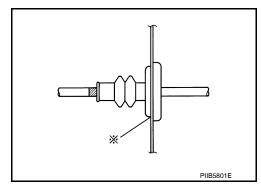
1. Pull the hood lock cable through the upper dash into the engine compartment. **CAUTION:**

Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.

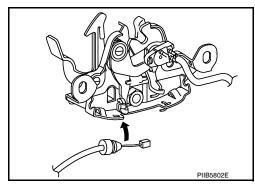
2. Connect the hood lock cable (2) to the hood lock release handle (1) and install the screws (a).



- 3. Check that the cable is not offset from the center of the grommet, and seat the grommet into the upper dash hole.
- 4. Apply the sealant around the grommet at * mark.



- 5. Position the hood lock cable and clip it into place.
- 6. Connect the hood lock cable to the hood lock assembly.
- 7. Loosely install the hood lock assembly.
- 8. Perform hood fitting adjustment. Refer to <u>DLK-429</u>, "HOOD ASSEMBLY: Adjustment".
- 9. Check the hood lock control operation.

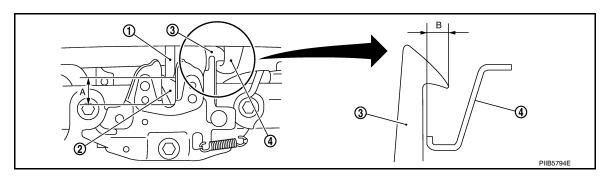


INSPECTION

CAUTION:

If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is positioned within specification of the secondary striker with hood's own weight.

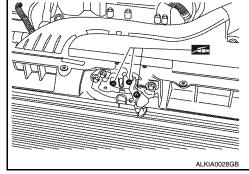


Hood striker

Secondary latch

- 2. Primary latch
- A. 20 mm (0.8 in)

- 3. Secondary striker
- B. 6.8 mm (0.3 in)
- 2. While operating the hood lock release handle, carefully check that the front end of the hood is raised by approx. 20 mm (0.79 in). Also check that the hood lock release handle returns to the original position.
- 3. Check that the hood lock release handle operating is 294 N (30 kg, 66 lb) or below.
- 4. Install so the static closing force of the hood is 344 431 N·m (35 44 kg-m, 254 ——- 318 ft-lb)
- 5. Check the hood lock assembly lubrication condition. If necessary, apply grease as shown.



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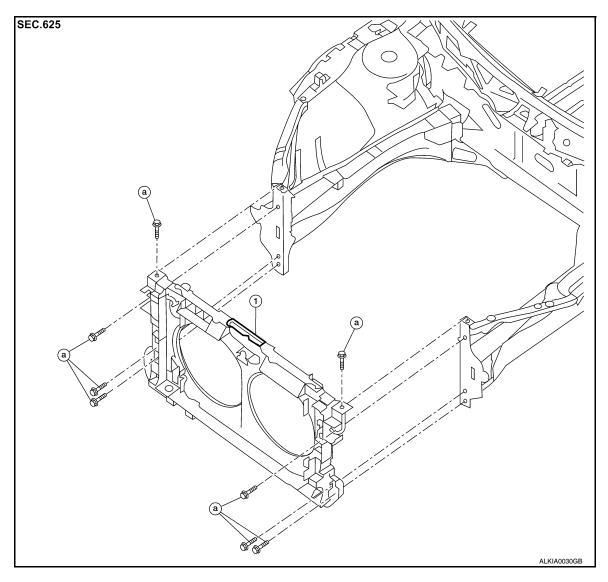
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RADIATOR CORE SUPPORT

Removal and Installation

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1. Radiator core support

a. Bolts

REMOVAL

- Remove front bumper reinforcement. Refer to <u>EXT-36</u>, "Removal and Installation".
- 2. Remove head lamps (LH/RH). Refer to EXL-254, "Removal and Installation".
- 3. Remove air duct. Refer to EM-19, "Removal and Installation" QR25DE, EM-123, "Removal and Installation" VQ35DE.
- 4. Remove the radiator cooling fans. Refer to CO-18, "Removal and Installation" QR25DE, CO-41, "Removal and Installation" VQ35DE.
- 5. Remove the radiator. Refer to CO-16, "Removal and Installation" QR25DE, CO-38, "Removal and Installation" VQ35DE.
- 6. Remove the hood lock control. Refer to <u>DLK-601</u>, "HOOD LOCK CONTROL: Removal and Installation".
- 7. Remove ambient sensor. Refer to <u>HA-40, "Removal and Installation"</u>.
- 8. Remove crash zone sensor. Refer to SR-14, "Removal and Installation".
- 9. Remove air guides (LH/RH).
- Remove power steering tube assembly. Refer to <u>ST-22, "QR25DE: Removal and Installation"</u> QR25DE, ST-22, "VQ35DE: With 17 Inch Tire" or ST-24, "VQ35DE: With 18 Inch Tire" VQ35DE.

RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[SEDAN WITHOUT INTELLIGENT KEY]

- 11. Remove horn (High/Low). Refer to HRN-12, "Removal and Installation".
- 12. Remove the hood support rod.
- 13. Remove the harness clips from the radiator core support assembly, the harness is separate.
- 14. Remove the bolts and the radiator core support.

INSTALLATION

Installation is in the reverse order of removal.

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FRONT FENDER

< ON-VEHICLE REPAIR >

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FRONT FENDER

Removal and Installation

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REMOVAL

- 1. Remove the head lamp. Refer to EXL-254, "Removal and Installation".
- 2. Remove the front fender protector. Refer to EXT-42, "Removal and Installation".
- 3. Remove the inner fender bolt cover.
- 4. Remove the center mud guard. Refer to EXT-43, "Removal and Installation".
- 5. Remove the bolts and the front fender.

CAUTION:

- While removing use a shop cloth to protect body from damaging.
- Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the foam or damage to the fender may occur.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

• After installing, apply touch-up paint (the body color) onto the head of the front fender bolts.

ADJUSTMENT

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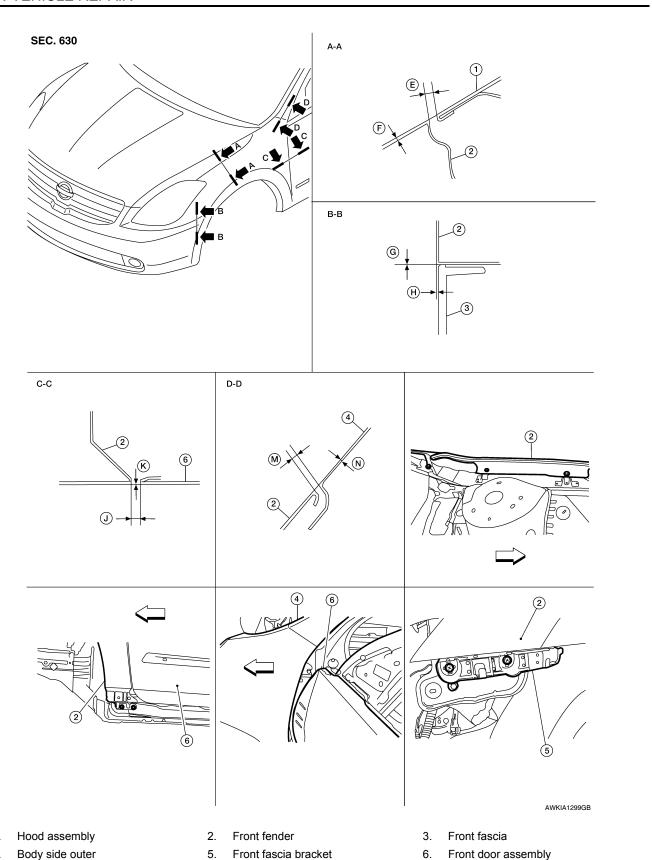
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Revision: February 2010

← Front

DLK-607

FRONT FENDER

[SEDAN WITHOUT INTELLIGENT KEY]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality	
A-A	E	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	1.0 (0.04)	1.0 (0.04)	
A-A	F F	Surface height	$0.2 \pm 1.0 \ (0.01 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)	
В-В	G	Clearance	0.0 + 0.8 (0.0 + 0.031)	_	_	
D-D	Н	Surface height	$0.7 \pm 1.0 \; (0.028 \pm 0.04)$	1.0 (0.04)	1.0 (0.04)	
C-C	K	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$	_	_	
C-C	J	Clearance	3.6 ± 1.0 (0.14 ± 0.04)	1.0 (0.04)	_	
D-D	M	Clearance	2.3 ± 1.0 (0.09 ± 0.04)	1.0 (0.04)	_	
D-D	N	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$	_	_	

- Remove the inner fender bolt cover.
- 2. Remove the front fender protector. Refer to EXT-42, "Removal and Installation".
- Remove the center mud guard. Refer to <u>EXT-43</u>, "Removal and Installation".
- 4. Loosen the front fender bolts and screws.
- 5. Adjust the clearance (J) and surface height (K) between the front fender and the front door.
- 6. Tighten the rear upper and lower front fender bolts.
- 7. Adjust the clearance (E) and surface height (F) between the front fender and the hood.
- 8. Adjust the clearance (M) and surface height (N) between the front fender and the body side outer.
- Tighten the inner front fender bolts.
- 10. Adjust the clearance (G) and the surface height (H) between the front fender and the front fascia.
- 11. Tighten the front fender to front fascia and bracket screws.
- 12. Apply touch-up paint (the body color) onto the head of the front fender bolts.
- 13. Install the center mud guard. Refer to EXT-43, "Removal and Installation".
- 14. Install the front fender protector. Refer to EXT-42, "Removal and Installation".
- 15. Install the inner fender bolt cover.

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DOOR

FRONT DOOR

FRONT DOOR: Removal and Installation

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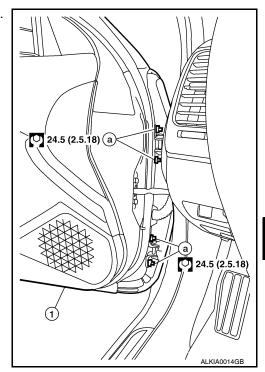
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CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- When removing and installing front door assembly, be sure to carry out the fitting adjustment. Refer to <u>DLK-610</u>, "<u>FRONT DOOR</u>: <u>Adjustment</u>".
- After installing, apply touch-up paint (the body color) onto the head of the hinge nuts.
- Check the hinge rotating parts for lubrication. If necessary, apply "body grease".
- · Operate with two workers, because of its heavy weight.
- Check front door open/close operation after installation.

REMOVAL

- 1. Pull the grommet and wire harness out of the front pillar until the harness connectors are accessible. Then disconnect the wire harness connectors.
- 2. Remove the check link bolt from the front pillar.
- 3. Remove the door-side hinge nuts (a) and the door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

NOTE:

Adjust the door. Refer to DLK-610, "FRONT DOOR: Adjustment".

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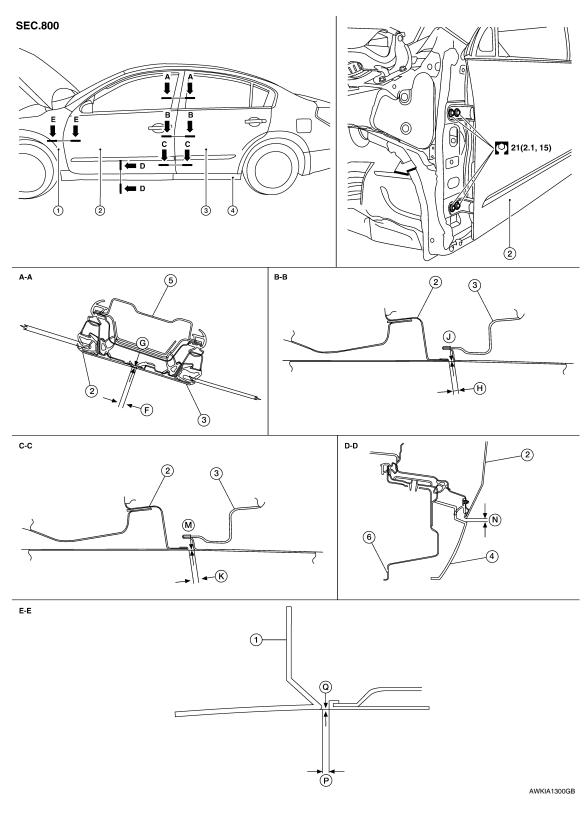
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FRONT DOOR : Adjustment



- 1. Front fender
- 4. Center mud guard
- ← Front

- 2. Front door assembly
- Center pillar

- 3. Rear door assembly
- 6. Outer sill

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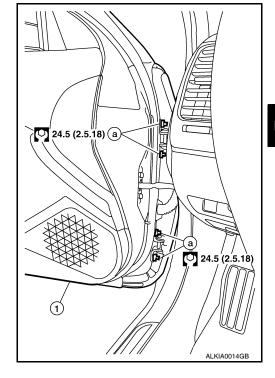
			Unit: mm (in)
Section	Item	Measurement	Standard
A-A	F	Clearance	$4.5 \pm 1.5 \; (0.18 \pm 0.06)$
A-A	G	Surface height	0.0 ± 1.5 (0.0 ± 0.06)
В-В	Н	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
B-B	J	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$
C-C	K	Clearance	$4.2 \pm 1.0 \; (0.17 \pm 0.04)$
C-C	M	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$
D-D	N	Clearance	5.1 ± 1.7 (0.20 ± 0.07)
E-E	P	Clearance	3.6 ± 1.0 (0.14 ± 0.04)
L-L	Q	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$

LONGITUDINAL CLEARANCE

- 1. Confirm the back door adjustments and adjust if necessary. Refer to <u>DLK-611, "BACK DOOR: Removal and Installation"</u>.
- 2. Remove the front fender. Refer to <u>DLK-606, "Removal and Installation"</u>.
- 3. Loosen the hinge bolts. Raise or lower the front door at rear edge to adjust.
- Tighten the hinge bolts to specifications.
- 5. Install the front fender. Refer to <u>DLK-606</u>, "Removal and Installation".

SURFACE HEIGHT ADJUSTMENT

- 1. Loosen the front door hinge nuts.
- Move the top and or bottom in or out as necessary until it is within specifications.
- 3. Tighten the hinge nuts to specifications.



BACK DOOR

BACK DOOR: Removal and Installation

CAUTION:

- When removing and installing the rear door assembly, support the door with a jack and cloth to protect the door and body.
- When removing and installing rear door assembly, be sure to carry out the fitting adjustment.
- Check the hinge rotating parts for poor lubrication. If necessary, apply "body grease".
- After installing, apply touch-up paint (the body color) onto the head of the hinge nuts.

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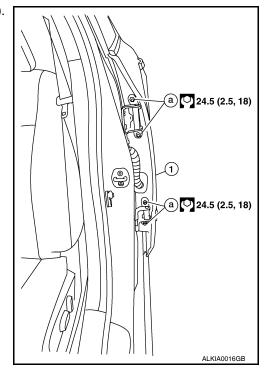
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- · Operate with two workers, because of its heavy weight.
- Check rear door open/close operation after installation.

REMOVAL

- 1. Pull out grommet and disconnect rear door harness connector.
- 2. Remove the check link bolt from the center pillar.
- 3. Remove the door-side hinge nuts (a) and the door assembly (1).



INSTALLATION Installation is in the reverse order of removal.

BACK DOOR: Adjustment

ADJUSTMENT

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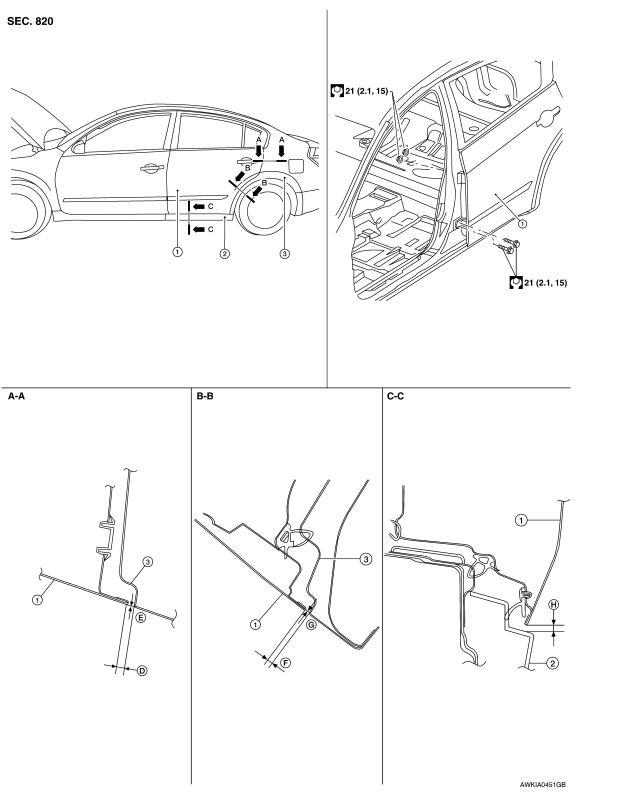
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Rear door assembly

2. Center mud guard

Body side outer

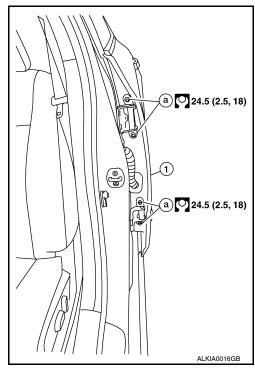
Section	Item	Measurement	Standard
В-В	F	Clearance	$3.6\pm1.0\;(0.14\pm0.04)$
	G	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$
C-C	Н	Clearance	5.3 ± 1.7 (0.21 ± 0.07)

LONGITUDINAL CLEARANCE

- 1. Remove the center pillar upper and lower trim. Refer to INT-39, "Removal and Installation".
- 2. Loosen the upper pillar hinge nuts.
- 3. Loosen the lower pillar hinge bolts.
- 4. Raise or lower the door at the rear edge to adjust.
- 5. Tighten the lower pillar hinge bolts.
- 6. Tighten the upper pillar hinge nuts.
- 7. Install the center pillar upper and lower trim. Refer to INT-39, "Removal and Installation".

SURFACE HEIGHT ADJUSTMENT

- 1. Loosen the hinge nuts.
- 2. Move the top and or the bottom in or out as necessary until it is within specification.
- 3. Tighten the hinge nuts to specification.



DOOR LOCK FRONT DOOR LOCK

FRONT DOOR LOCK: Component Parts Location



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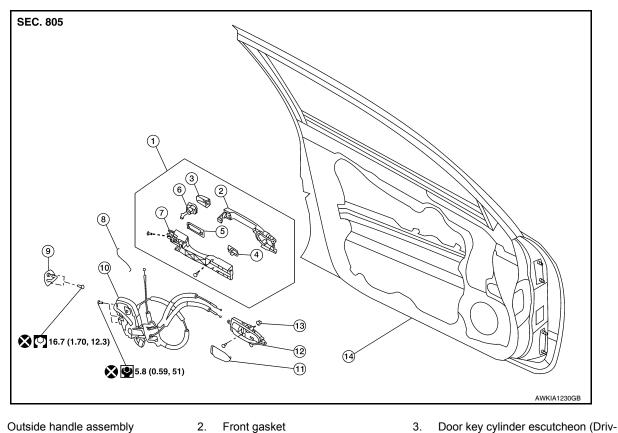
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- Outside handle assembly
- 2. Front gasket

Front gasket

- Rear gasket
- Outside handle bracket 7.
- 8. Key cylinder rod (Driver side only) 11. Cap
- 10. Door lock assembly 13. Grommet
- 14. Front door assembly

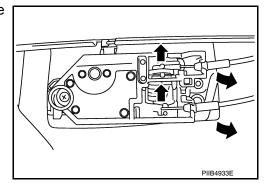
- er side) Outside handle escutcheon (Passenger side)
- Key cylinder assembly (Driver side only)
- Front door striker
- 12. Inside door handle assembly

FRONT DOOR LOCK: Removal and Installation

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REMOVAL

- Remove the front door finisher. Refer to INT-33, "Removal and Installation".
- Disconnect the inside handle knob cable and lock knob cable from the back side of the front door finisher.

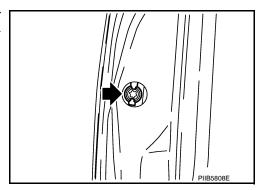


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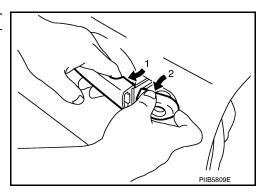
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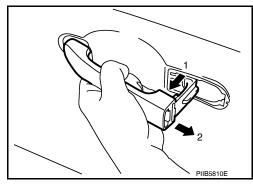
- 3. Remove the front door window and front door module assembly. Refer to <u>GW-17</u>, "<u>Removal and Installation</u>".
- 4. Remove door side grommet, and remove door key cylinder assembly (driver side) and outside handle escutcheon (passenger side) bolts (TORX T30) from grommet hole.



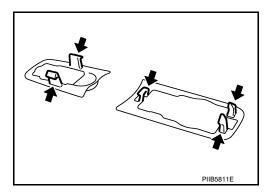
- 5. Disconnect the key cylinder rod.
- 6. Disconnect door key cylinder switch harness connector.
- 7. While pulling the outside handle (1), remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side) (2).



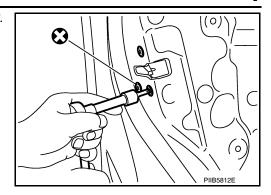
8. While pulling outside handle (1), slide toward rear of vehicle (2) to remove outside handle.



9. Remove the front gasket and rear gasket.



10. Remove the TORX bolts (T30), remove the door lock assembly.



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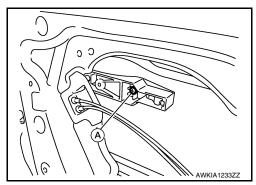
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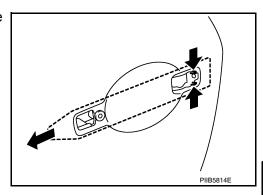
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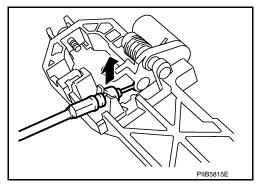
11. Remove the TORX bolt (T30) (A) of the outside handle bracket.



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



- 13. Disconnect the door lock actuator connector and remove the door lock assembly.
- 14. Disconnect the outside handle cable from the outside handle bracket connection.



INSTALLATION

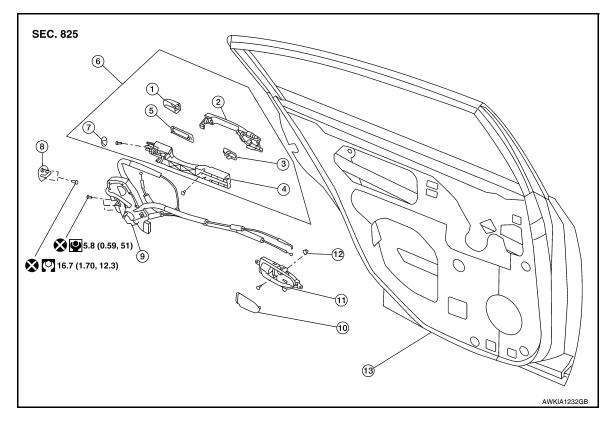
Installation is in the reverse order of removal.

CAUTION:

When installing the key cylinder rod be sure to rotate the rod holder until a click is felt. BACK DOOR LOCK

BACK DOOR LOCK: Component Parts Location

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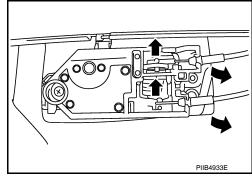
- 1. Outside handle escutcheon
- 4. Outside handle bracket
- 7. Hole plug
- 10. Cap
- 13. Rear door assembly
- 2. Outside handle
- 5. Rear gasket
- 8. Rear door striker
- 11. Inside handle assembly
- 3. Front gasket
- 6. Outside handle assembly
- 9. Rear door lock assembly
- 12. Grommet

BACK DOOR LOCK: Removal and Installation

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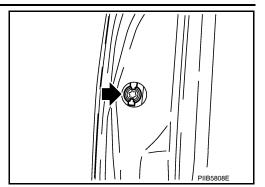
REMOVAL

- 1. Remove the rear door finisher. Refer to INT-33, "Removal and Installation".
- 2. Disconnect the inside handle knob cable and lock knob cable from the back side of the inside door handle.

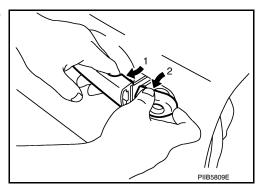


- 3. Remove the rear door sash. Refer to EXT-45, "Removal and Installation".
- 4. Remove the rear door window and rear door screen assembly.

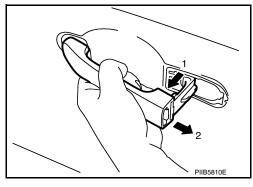
5. Remove door side grommet, and remove outside handle escutcheon bolt (TORX T30) from grommet hole.



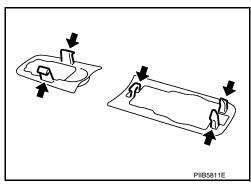
6. While pulling the outside handle (1), remove outside handle escutcheon (2).



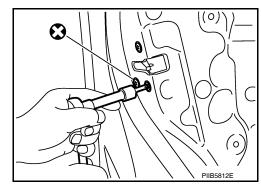
7. While pulling outside handle (1), slide toward rear of vehicle (2) to remove outside handle.



8. Remove the front gasket and rear gasket.



9. Remove the TORX bolts (T30), remove the door lock assembly.



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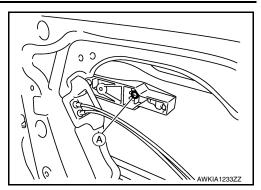
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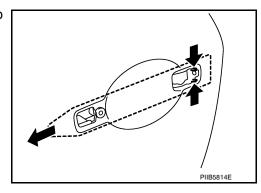
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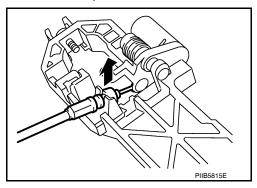
10. Remove the TORX bolt (T30) (A) from the outside handle bracket.



11. While pulling outside handle, slide toward rear of vehicle to remove outside handle.



- 12. Disconnect the door lock actuator connector and remove the door lock assembly.
- 13. Disconnect the outside handle cable from the outside handle bracket.



INSTALLATION

Installation is in the reverse order of removal.

TRUNK LID

< ON-VEHICLE REPAIR >

[SEDAN WITHOUT INTELLIGENT KEY]

TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY: Removal and Installation

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REMOVAL

- 1. Remove trunk lid finisher. Refer to INT-49, "Removal and Installation".
- 2. Disconnect the connectors in the trunk lid, and remove the harness clips to pull the harness out of the trunk lid.
- 3. Remove the bolts, and remove the trunk lid assembly.
- 4. Remove the rear spoiler (if equipped). Refer to EXT-49, "Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- · After installing, apply touch-up paint (the body color) onto the head of the hinge bolts.
- · After installing, check operation.
- After installing, perform fitting adjustment. Refer to <u>DLK-622, "TRUNK LID ASSEMBLY: Adjustment"</u>.

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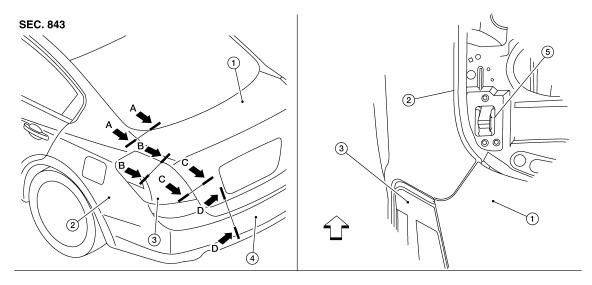
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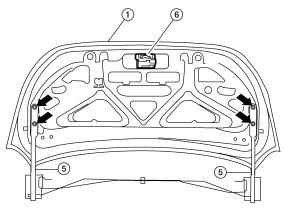
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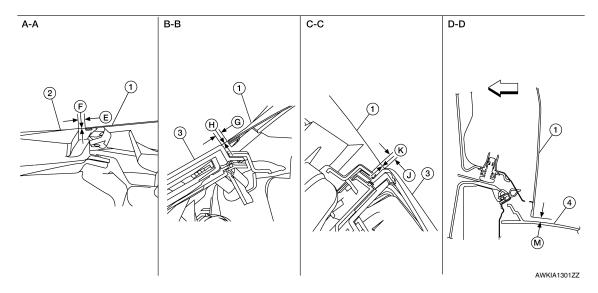
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TRUNK LID ASSEMBLY : Adjustment

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- 1. Trunk lid assembly
- 4. Rear bumper fascia
- ← Front

- 2. Body side outer
- 5. Trunk lid hinge assembly
- 3. Rear combination lamp
- 6. Trunk lid latch assembly

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Parts		Standard	Right/left clearance (MAX)
A – A	E	$4.0 \pm 1.0 \; (0.16 \pm 0.04)$	2.0 (0.08)
	F	-0.5 \pm 1.0 (-0.02 \pm 0.04)	2.0 (0.08)
B – B	G	$4.0 \pm 1.5~(0.16 \pm 0.06)$	2.0 (0.08)
	Н	-0.5 ± 1.5 (-0.02 ± 0.06)	2.0 (0.08)
0.0	J	$4.0 \pm 2.0 \; (0.16 \pm 0.08)$	_
C – C	K	$5.9 \pm 2.0 \; (0.23 \pm 0.08)$	_
D – D	M	$5.9 \pm 2.0 \; (0.23 \pm 0.08)$	_

LONGITUDINAL CLEARANCE

Trunk Lid Removed From Hinge

- Check the clearance and the evenness between the trunk lid and each part by visual and tactile feeling.
- Loosen the trunk lid to hinge bolts.
- Move the trunk lid so that the clearance measurements are within specifications.
- Tighten the trunk lid to hinge bolts.

Trunk Lid Hinge Removed From Vehicle

- Remove the parcel shelf trim. Refer to <u>INT-41</u>, "Removal and Installation".
- Loosen the hinge to parcel shelf bolts.
- 3. Move the trunk lid so that the clearance measurements are within specifications.
- Tighten the hinge to parcel shelf bolts.
- Install the parcel shelf trim. Refer to <u>INT-41</u>, "Removal and Installation".

SURFACE HEIGHT ADJUSTMENT

- Loosen the bumper rubber.
- Loosen the striker bolts.
- Lift up the trunk lid approx. 100 150 mm (3.94 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
- Finally tighten the trunk lid striker.

TRUNK LID LOCK

TRUNK LID LOCK: Removal and Installation

LOCK

Removal

- Remove the trunk lid inner trim panel. Refer to INT-49, "Removal and Installation".
- Remove the bolts, disconnect the electrical connector, separate the emergency release handle, and remove the trunk lid lock.

Installation

Installation is in the reverse order of removal.

Striker

Removal

Remove the trunk end finisher. Refer to INT-49, "Removal and Installation".

2. Remove the bolts and the striker.

Installation

Installation is in the reverse order of removal.

NOTE:

Align the trunk lid lock. Refer to DLK-622, "TRUNK LID ASSEMBLY: Adjustment".

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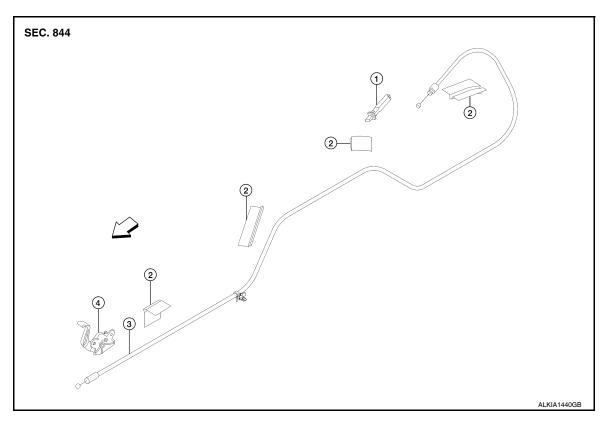
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FUEL FILLER LID

Exploded View



1. Fuel door latch

- 2. Cable protector
- Fuel door opener cable

- 4. Fuel door opener handle
- ← Front

Removal and Installation

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REMOVAL

- 1. Remove the front and rear LH kicking plates. Refer to INT-39, "Removal and Installation".
- 2. Remove the rear seat. Refer to SE-58, "Removal and Installation".
- 3. Remove the LH front seat belt anchor. Refer to SB-7, "Exploded View".
- 4. Remove the LH center pillar lower finisher. Refer to INT-38. "Exploded View".
- 5. Position the carpet aside.
- 6. Remove the LH trunk side finisher. Refer to INT-48, "Exploded View".
- 7. Remove the fuel door opener handle and disconnect the fuel door opener cable.
- 8. Remove the fuel door latch and disconnect the fuel door opener cable.
- 9. Remove the fuel door opener cable.

INSTALLATION

Installation is in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

< ON-VEHICLE REPAIR >

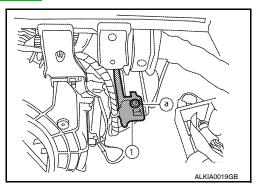
[SEDAN WITHOUT INTELLIGENT KEY]

REMOTE KEYLESS ENTRY RECEIVER

Removal INFOID:000000004497088

REMOVAL

- 1. Remove glove compartment. Refer to IP-12, "Removal and Installation".
- 2. Remove the screw (a), lower the bracket and remote keyless entry receiver (1), then disconnect the harness and remove the receiver.



Installation INFOID:0000000004497089

Installation is in the reverse order of removal.

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