

SECTION **DLK**
DOOR & LOCK

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000009471578

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

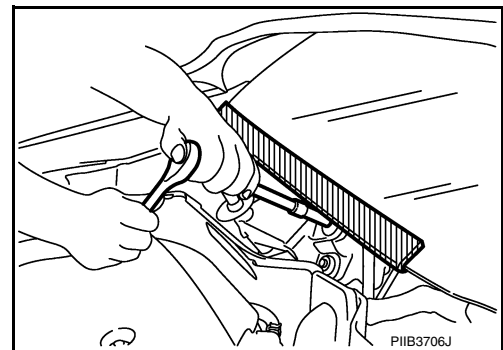
WARNING:

- 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:000000009471579

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



Precaution for Servicing Doors and Locks

INFOID:000000009471580

WARNING:

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use,

- 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.
- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.

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PRECAUTIONS

< PRECAUTION >

- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tools

INFOID:000000009471581

The actual shapes of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-39570) Chassis Ear	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester	Used to test keyfobs
— (J-50190) Signal Tech II	<ul style="list-style-type: none"> • Activate and display TPMS transmitter IDs • Display tire pressure reported by the TPMS transmitter • Read TPMS DTCs • Register TPMS transmitter IDs • Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength

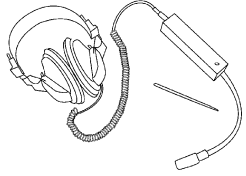

Commercial Service Tools

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PREPARATION

< PREPARATION >

(TechMate No.) Tool name	Description
(J-39565) Engine Ear  SIA0995E	Locating the noise
(—) Power tool  PIIB1407E	Loosening nuts, screws and bolts

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

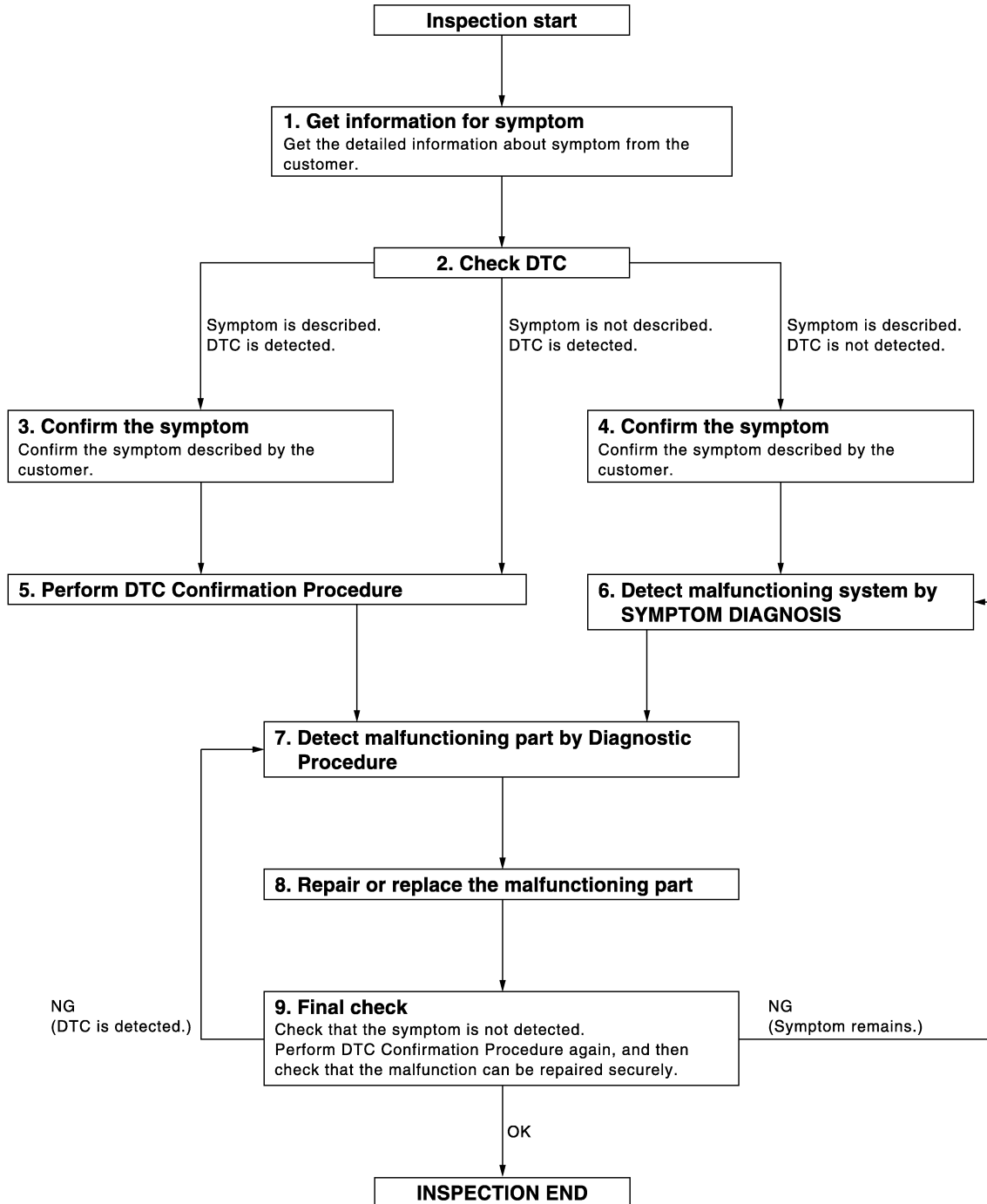
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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OVERALL SEQUENCE



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DETAILED FLOW

Revision: August 2013

DLK-9

2014 Maxima NAM

JMKIA2270GB

DIAGNOSIS AND REPAIR WORKFLOW

< 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.)
 - 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 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 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 to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to [DLK-146. "DTC Inspection Priority Chart"](#) 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 although 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-41. "Intermittent Incident"](#).

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to [DLK-183. "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 >

The Diagnostic Procedure described is 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.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
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 has 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 >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

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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

INFOID:000000009471585

Refer to the CONSULT Immobilizer mode and follow the on-screen instructions.

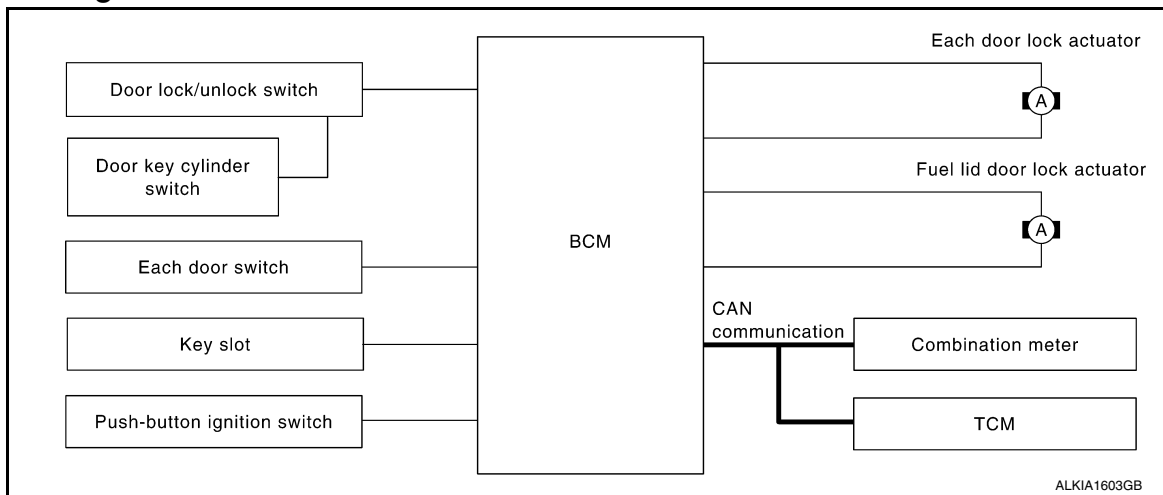
AUTOMATIC DOOR LOCKS

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

AUTOMATIC DOOR LOCKS

System Diagram



System Description

INFOID:000000009471587

Input	Single	Function	Actuator
Door lock/unlock switch	Door lock/unlock signal	Door lock function	<ul style="list-style-type: none"> Each door lock actuator Fuel lid door lock actuator
Door key cylinder switch			
Each door switch	Door open/close signal	Key reminder function	
Key slot	Key insert/remove signal		
Combination meter	Warning buzzer signal	Automatic door lock/unlock function	
	Vehicle speed signal		
TCM	Shift position signal		

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 and fuel lid are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors and fuel lid 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 and fuel lid.
- 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 and fuel lid; 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 SUPPORT”. Refer to [DLK-53, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors and fuel lid linked with the vehicle speed or shift position. It has 2 types as follows.

Vehicle Speed Sensing Auto Door Lock*1

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

AUTOMATIC DOOR LOCKS

< SYSTEM DESCRIPTION >

BCM outputs the lock signal to all door lock and fuel lid 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.

If a door is opened and closed at any time during one ignition cycle (OFF → 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.

P Range Interlock Door Lock

All doors and fuel lid are locked when shifting the selector lever from the P position to any position other than P.

BCM outputs the lock signal to all door lock and fuel lid actuators when it detects that the ignition switch is in the ON position and the shift signal received from the TCM via CAN communication is shifted from the P position to any position other than P.

Setting change of Automatic Door Locks (LOCK) Function

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

With CONSULT

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. Refer to [DLK-53, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Without CONSULT

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
3. 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 → ON : 2 blinks
ON → OFF : 1 blink

5. 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 and fuel lid linked with the key position or shift position. It has 2 types as follows.

IGN OFF Interlock Door Unlock*1

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

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

P Range Interlock Door Unlock

All doors and fuel lid are unlocked when shifting the selector lever from any position other than the P to P position.

BCM outputs the unlock signal to all door lock and fuel lid actuators when it detects that the ignition switch is in the ON position and the shift signal received from TCM via CAN communication is shifted from any position other than the P to P position.

Setting change of Automatic Door Locks (UNLOCK) Function

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

With CONSULT

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. Refer to [DLK-53, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Without CONSULT

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
3. 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.

AUTOMATIC DOOR LOCKS

< SYSTEM DESCRIPTION >

4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

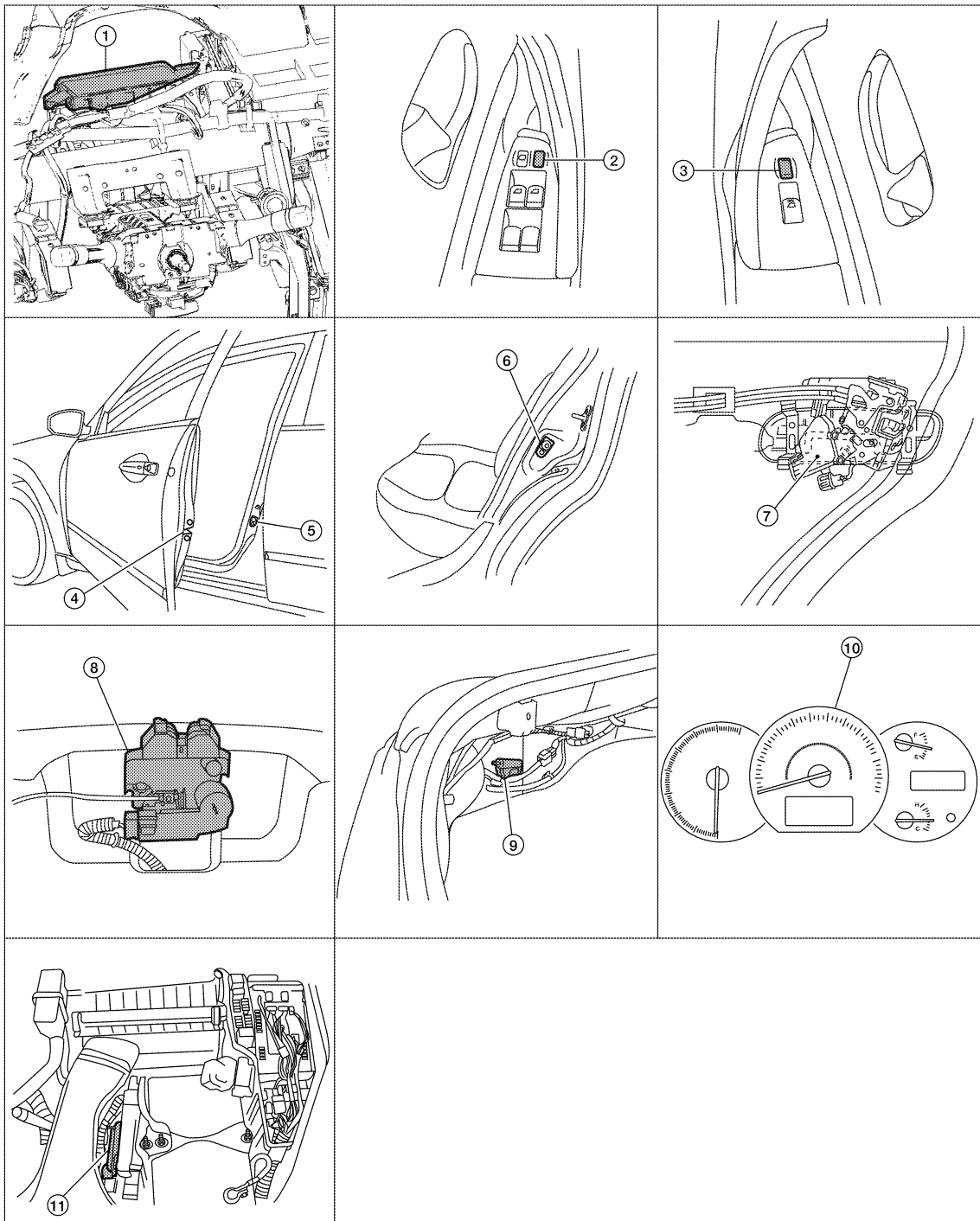
ON → OFF : 1 blink

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

*1: This function is set to ON before delivery.

Component Parts Location

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AUTOMATIC DOOR LOCKS

< SYSTEM DESCRIPTION >

- | | | |
|--|---|--|
| <p>1. BCM M16, M17, M18, M19, M21
(view with instrument panel removed)</p> <p>4. Front door lock assembly LH (key cylinder switch) D10
Front door lock actuator RH D108</p> <p>7. Rear door lock actuator
LH D205
RH D305</p> <p>10. Combination meter M24</p> | <p>2. Main power window and door lock/unlock switch D7, D8</p> <p>5. Front door switch
LH B8
RH B108</p> <p>8. Trunk lamp switch and trunk release solenoid T7</p> <p>11. TCM F15</p> | <p>3. Power window and door lock/unlock switch RH D105</p> <p>6. Rear door switch
LH B18
RH B116</p> <p>9. Fuel lid door lock actuator B27</p> |
|--|---|--|

Component Description

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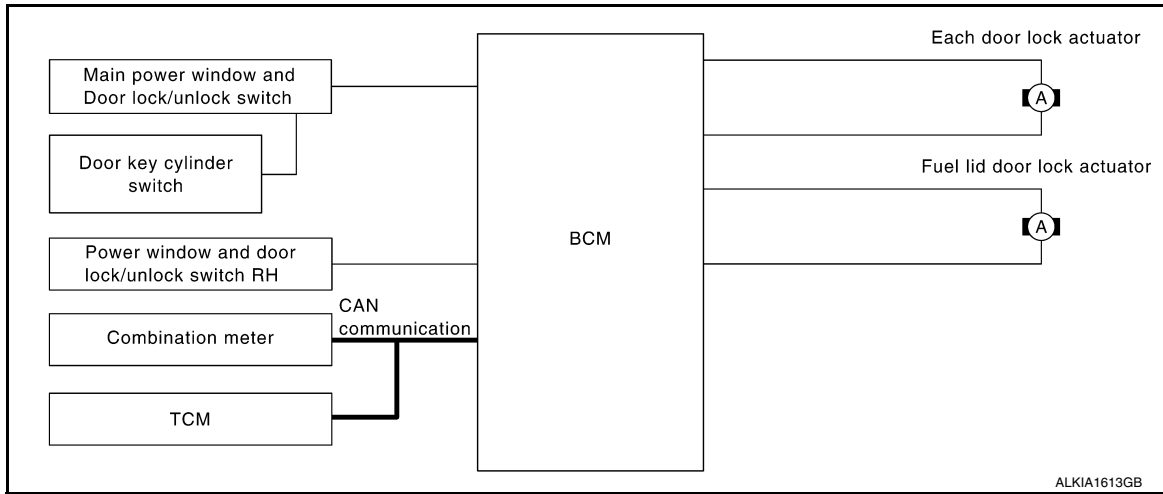
Item	Function
BCM	Controls the door lock function and fuel lid door lock actuator function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Fuel lid door lock actuator	Output lock/unlock signal from BCM and locks/unlocks fuel lid door lock actuator.
Door switch	Input door open/close condition to BCM.
Door key cylinder switch	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. • Transmits vehicle speed signal to BCM via CAN communication line.
TCM	Transmit shift position signal to BCM via CAN communication line.
Push-button ignition switch	Input push-button ignition switch ON/OFF condition to BCM.

DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

DOOR LOCK FUNCTION DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : System Diagram



DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000009471591

Switch	Input/output signal to BCM	BCM function	Actuator
Main power window and door lock/unlock switch	Door lock/unlock signal	Door lock/unlock control	<ul style="list-style-type: none"> • Door lock actuator • Fuel lid door lock actuator
Power window and door lock/unlock switch			
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 60 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 SUPPORT". Refer to [DLK-53, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Key Reminder System

Refer to [DLK-49, "System Description"](#).

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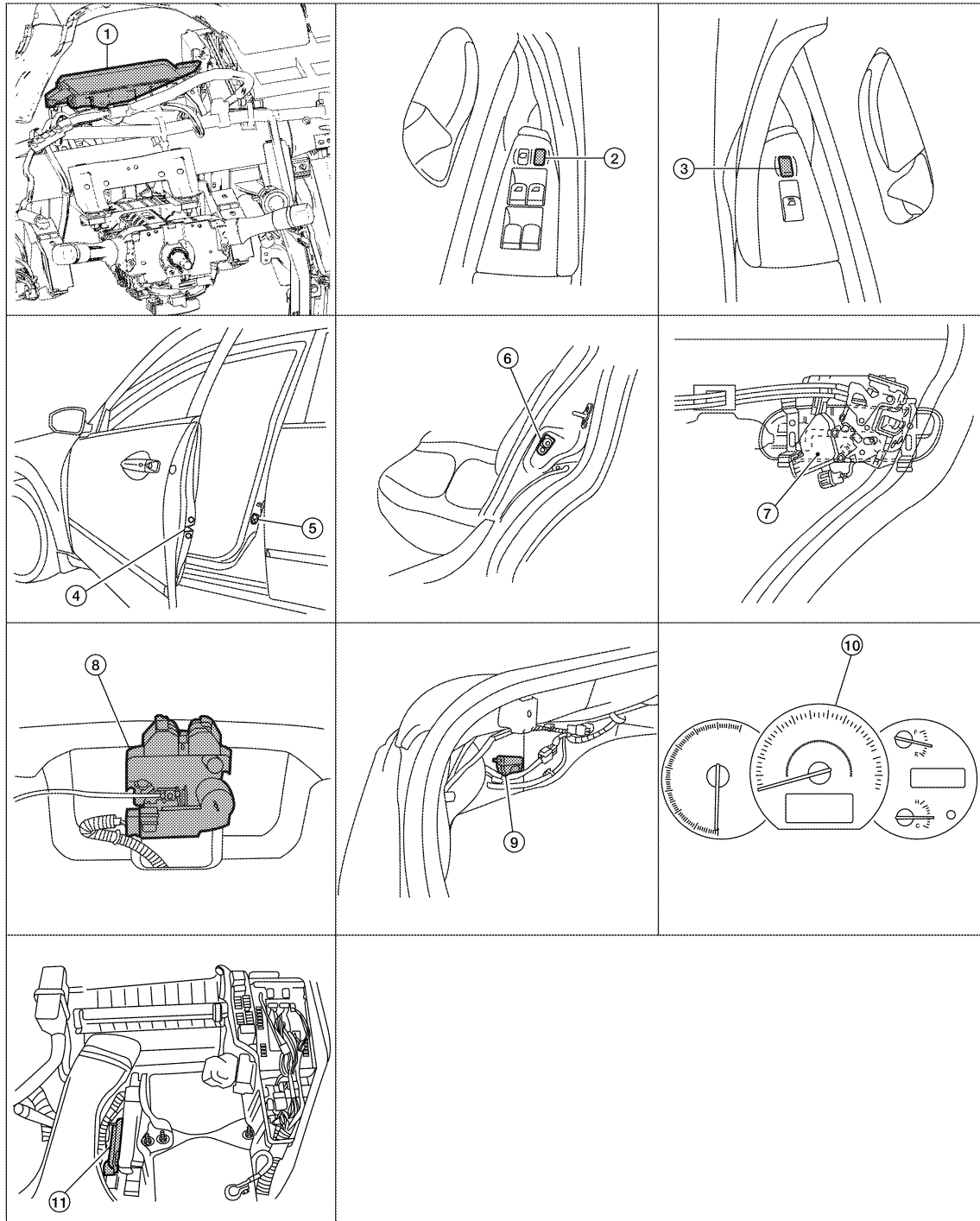
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DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

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- | | | |
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| 1. BCM M16, M17, M18, M19, M21
(view with instrument panel removed) | 2. Main power window and door lock/unlock switch D7, D8 | 3. Power window and door lock/unlock switch RH D105 |
| 4. Front door lock assembly LH (key cylinder switch) D10
Front door lock actuator RH D108 | 5. Front door switch
LH B8
RH B108 | 6. Rear door switch
LH B18
RH B116 |
| 7. Rear door lock actuator
LH D205
RH D305 | 8. Trunk lamp switch and trunk release solenoid T7 | 9. Fuel lid door lock actuator B27 |
| 10. Combination meter M24 | 11. TCM F15 | |

DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

DOOR LOCK AND UNLOCK SWITCH : Component Description

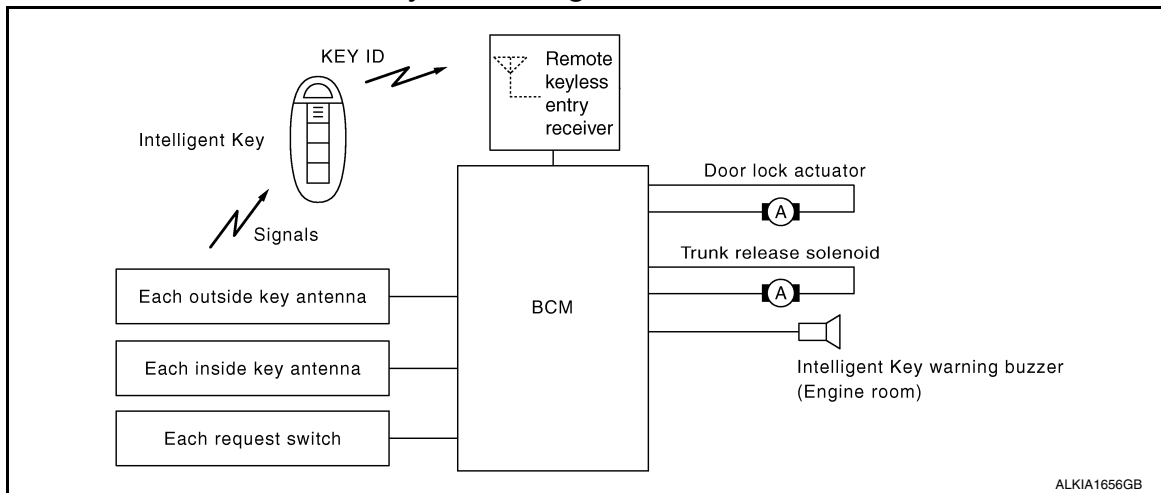
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Item	Function
BCM	Controls the door lock function and fuel lid door lock actuator function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Fuel lid door lock actuator	Output lock/unlock signal from BCM and locks/unlocks fuel lid door lock actuator.
Door switch	Input door open/close condition to BCM.
Door key cylinder switch	<ul style="list-style-type: none"> Input lock or unlock signal to power window main switch. Power window main switch transmits door lock/unlock signal to BCM.
Combination meter	<ul style="list-style-type: none"> Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to BCM via CAN communication line.
TCM	Transmit shift position signal to BCM via CAN communication line.

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : System Diagram

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DOOR REQUEST SWITCH : System Description

INFOID:000000009471595

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.
- 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.

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, checks that the Intelligent Key is near the door.

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DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

- 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 times, unlock: 1 time) at the same time as a reminder.
- With the doors locked, when either door request switch is pressed, that door is unlocked. When the same request switch is pressed again within 60 seconds, all doors and trunk are unlocked.
- With door(s) unlocked, when either door request switch is pressed, all doors and trunk are locked.

OPERATION CONDITION

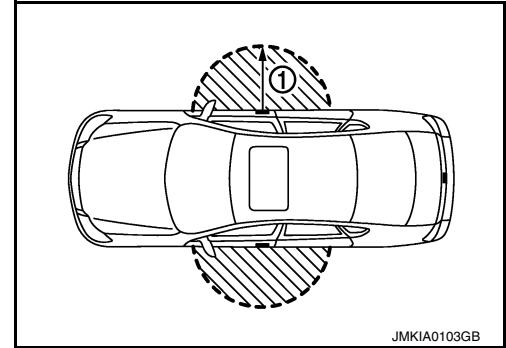
If the following conditions are not satisfied, door lock/unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition
Lock operation	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area *

*: 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 60 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 Function \(BCM - INTELLIGENT KEY\)"](#).

AUTO DOOR LOCK FUNCTION

DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

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 [DLK-53, "INTELLIGENT KEY : CONSULT 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-17, "DOOR LOCK AND UNLOCK SWITCH : System Description"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

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	BCM	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	×	×		×	×	×				×	×		×

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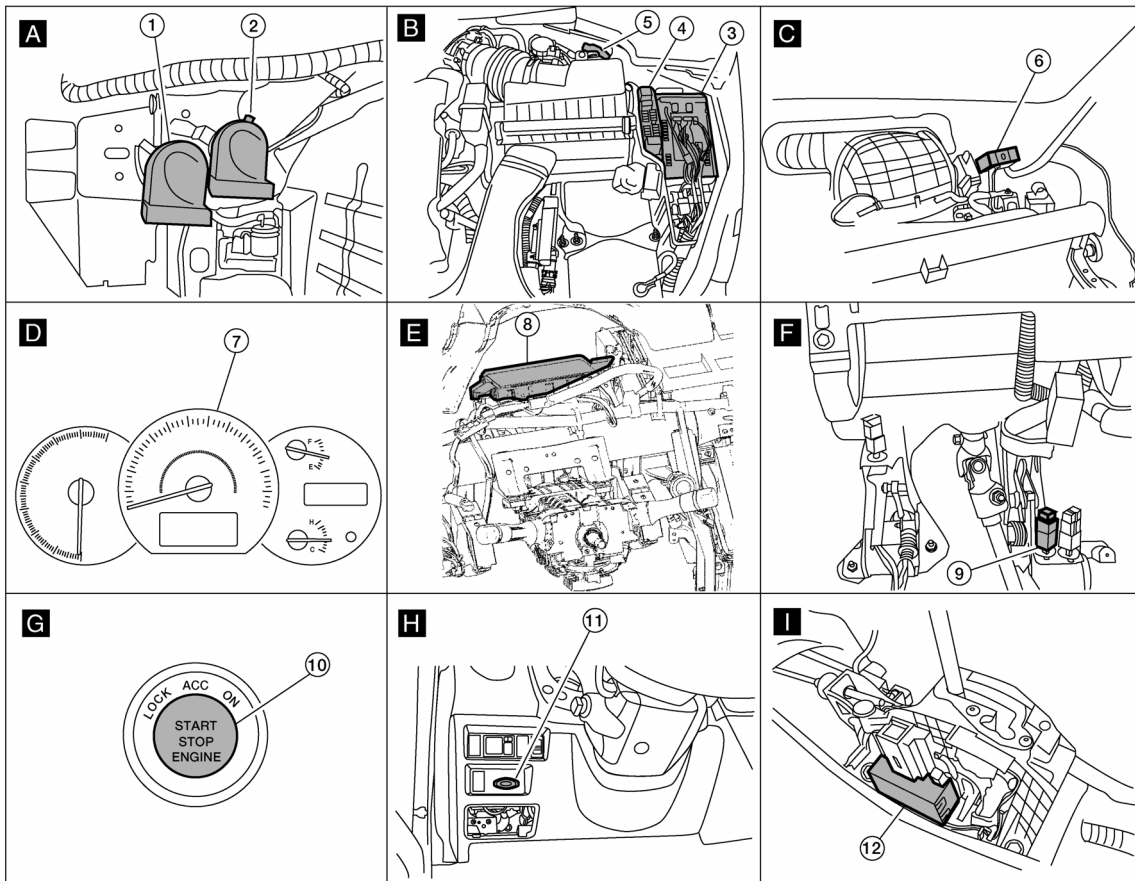
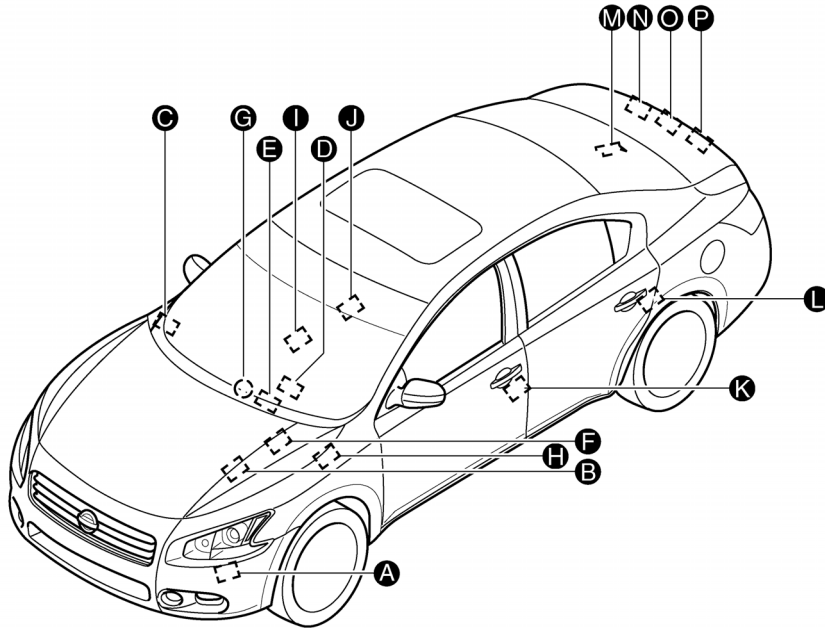
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DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

DOOR REQUEST SWITCH : Component Parts Location

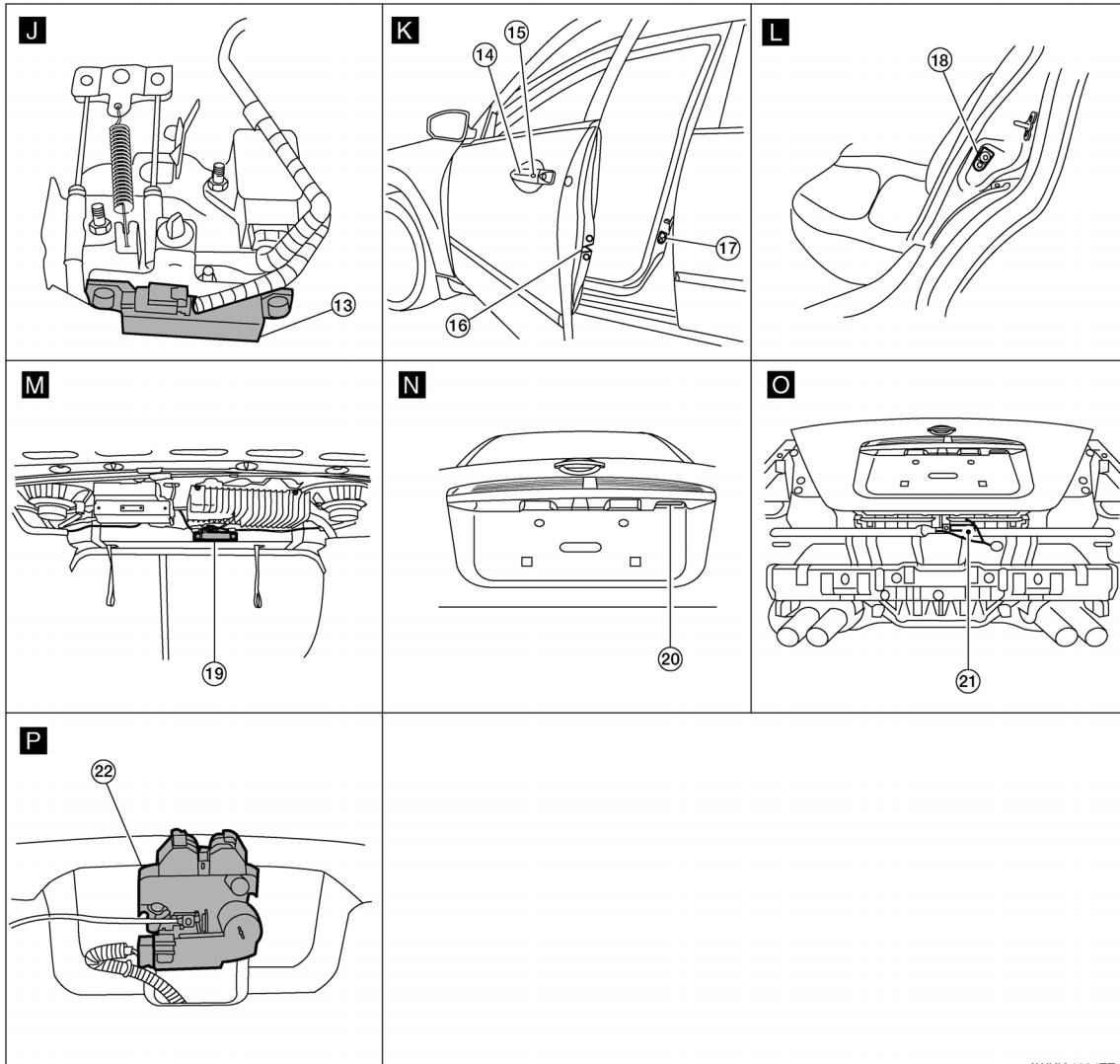
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DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >



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| 1. Horn (low) E215
(view with front fender protector LH removed) | 2. Horn (high) E216 | 3. IPDM E/R E17, E18 |
| 4. Horn relay H-1 | 5. Intelligent Key warning buzzer E28 | 6. Remote keyless entry receiver M27
(view with instrument panel removed) |
| 7. Combination meter M24 | 8. BCM M16, M17, M18, M19, M20, M21
(view with instrument panel removed) | 9. Stop lamp switch E38 |
| 10. Push button ignition switch M38 | 11. Key slot M40 | 12. CVT shift selector (park position switch
(Intelligent Key system)) M78 |
| 13. Front console antenna M41
(view with center console assembly removed) | 14. Front outside handle LH (outside key antenna) D6
Front outside handle RH (outside key antenna) D106 | 15. Front outside handle LH (request switch) D15
Front outside handle RH (request switch) D115 |
| 16. Front door lock assembly LH (door unlock sensor) D10 | 17. Front door switch LH B8
RH B108 | 18. Rear door switch LH B18
RH B116 |
| 19. Rear parcel shelf antenna B29 | 20. Trunk opener request switch T5 | 21. Rear bumper antenna B46 |
| 22. Trunk lamp switch and trunk release solenoid T7 | | |

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DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

DOOR REQUEST SWITCH : Component Description

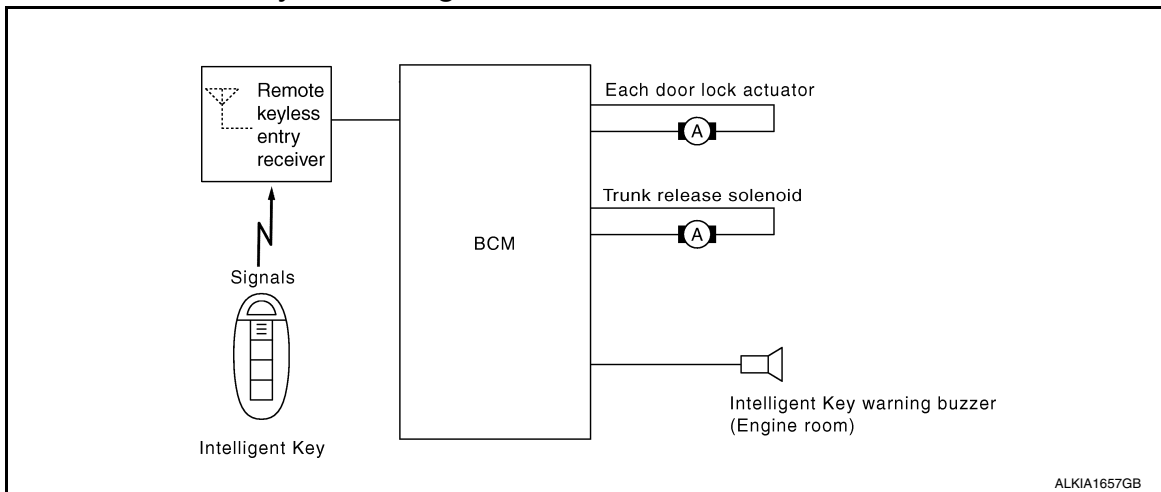
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Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Transmits lock or unlock signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Transmits 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:000000009471598



INTELLIGENT KEY : System Description

INFOID:000000009471599

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

DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

- To ensure the Intelligent Key works effectively, use within 80 cm (31.50 inch) 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		
	Lock	Unlock	Trunk open	Lock	Unlock	Trunk open
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

With CONSULT

Refer to [DLK-53, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Without CONSULT

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, "INTELLIGENT KEY : CONSULT 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 Key
 - When BCM receives any signal from driver or passenger request switch with Intelligent Key in range
- Panic alarm function mode can be changed by PANIC ALARM SET mode in "WORK SUPPORT". Refer to [DLK-53, "INTELLIGENT KEY : CONSULT 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 activates, keyless power window down (open) function cannot be operated.

DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

Keyless power window down operation mode can be changed by PW DOWN SET mode in "WORK SUPPORT". Refer to [DLK-53, "INTELLIGENT KEY : CONSULT 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 [DLK-24, "INTELLIGENT KEY : System Description"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

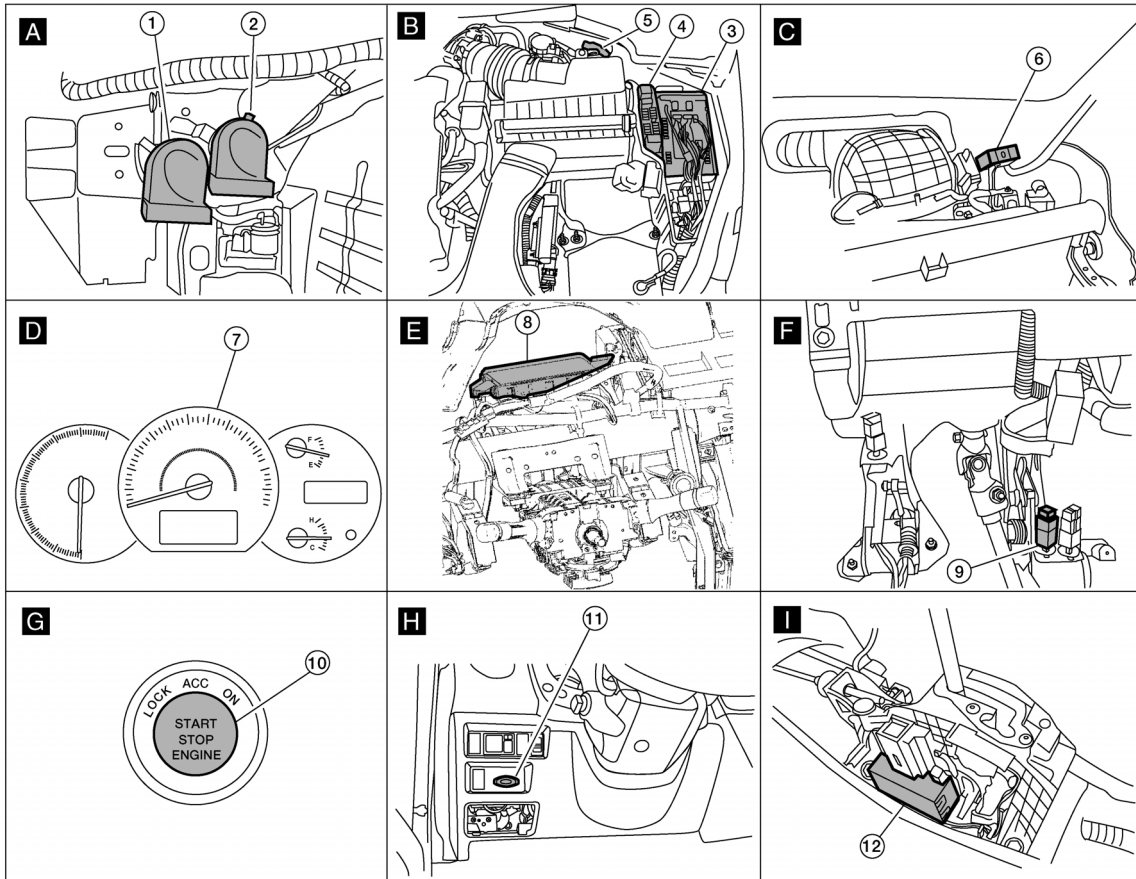
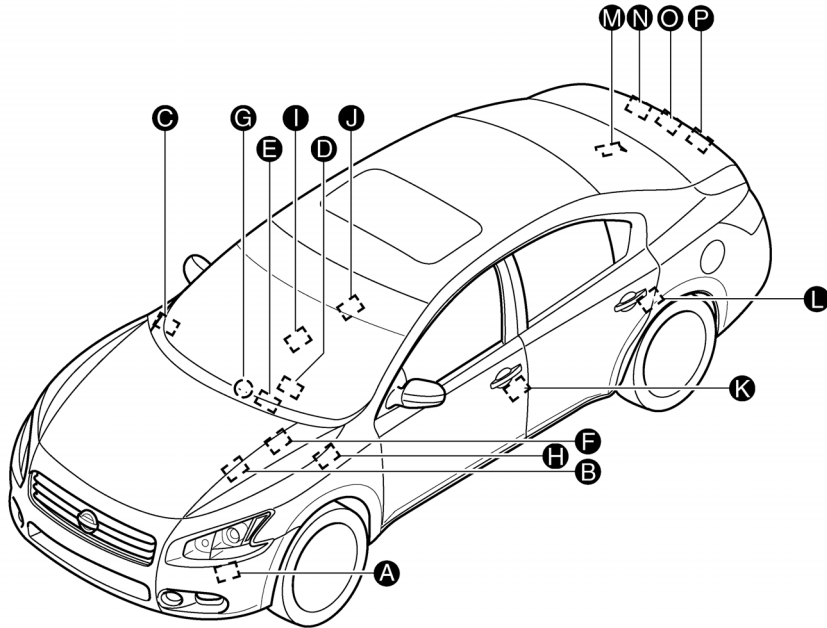
Remote keyless entry functions	Intelligent Key	Key slot	Door request switch (Driver, Passenger)	Door switch	Door lock actuator	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	Horn	IPDM E/R	Head lamp
Door lock/unlock function by remote control button	×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

DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

INTELLIGENT KEY : Component Parts Location

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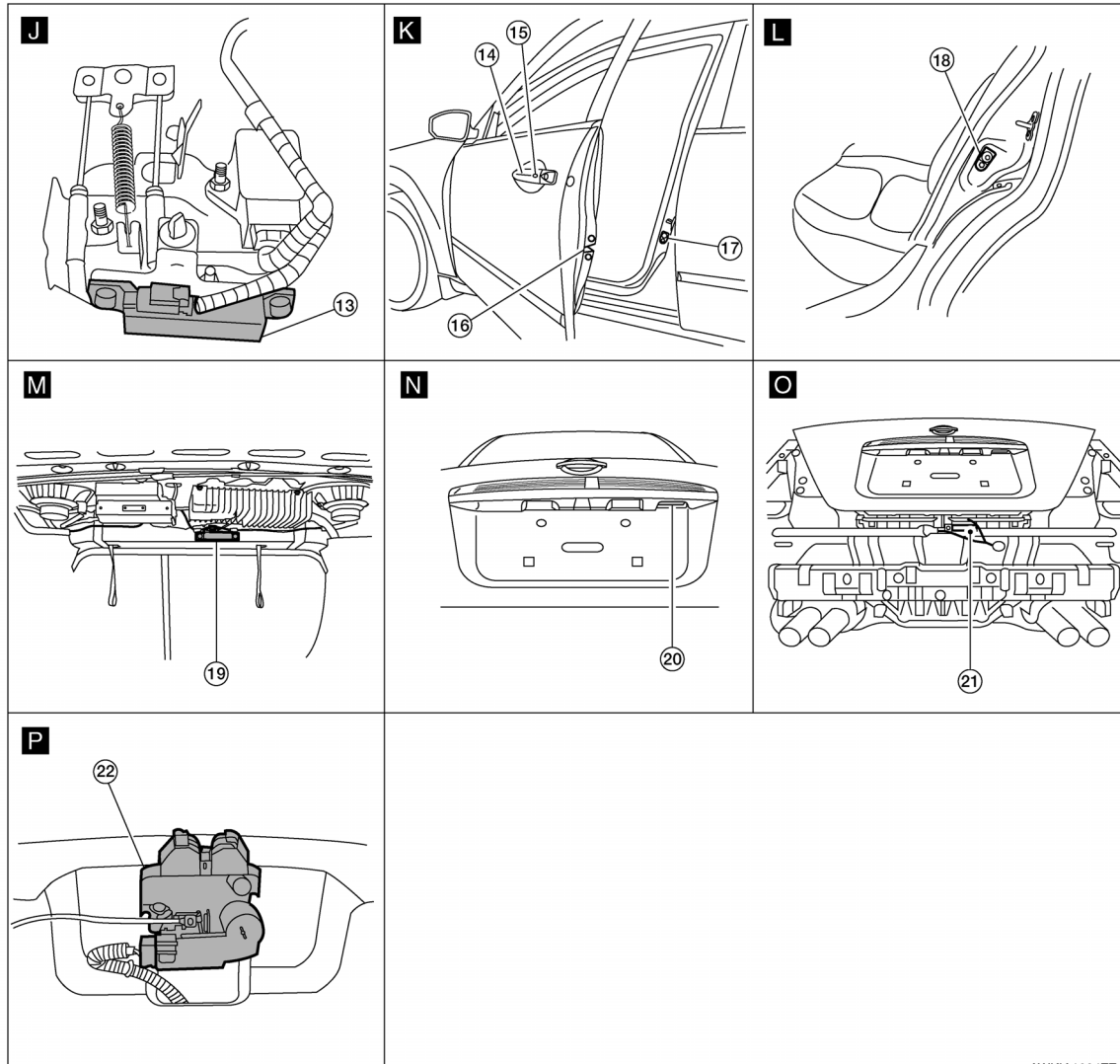


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DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >



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| 1. Horn (low) E215
(view with front fender protector LH removed) | 2. Horn (high) E216 | 3. IPDM E/R E17, E18 |
| 4. Horn relay H-1 | 5. Intelligent Key warning buzzer E28 | 6. Remote keyless entry receiver M27
(view with instrument panel removed) |
| 7. Combination meter M24 | 8. BCM M16, M17, M18, M19, M20, M21
(view with instrument panel removed) | 9. Stop lamp switch E38 |
| 10. Push button ignition switch M38 | 11. Key slot M40 | 12. CVT shift selector (park position switch
(Intelligent Key system)) M78 |
| 13. Front console antenna M41
(view with center console assembly removed) | 14. Front outside handle LH (outside key antenna) D6
Front outside handle RH (outside key antenna) D106 | 15. Front outside handle LH (request switch) D15
Front outside handle RH (request switch) D115 |
| 16. Front door lock assembly LH (door unlock sensor) D10 | 17. Front door switch LH B8
RH B108 | 18. Rear door switch LH B18
RH B116 |
| 19. Rear parcel shelf antenna B29 | 20. Trunk opener request switch T5 | 21. Rear bumper antenna B46 |
| 22. Trunk lamp switch and trunk release solenoid T7 | | |

INTELLIGENT KEY : Component Description

INFOID:000000009471601

DOOR LOCK FUNCTION

< SYSTEM DESCRIPTION >

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.
Fuel lid door lock actuator	Performs lock/unlock of the fuel lid.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

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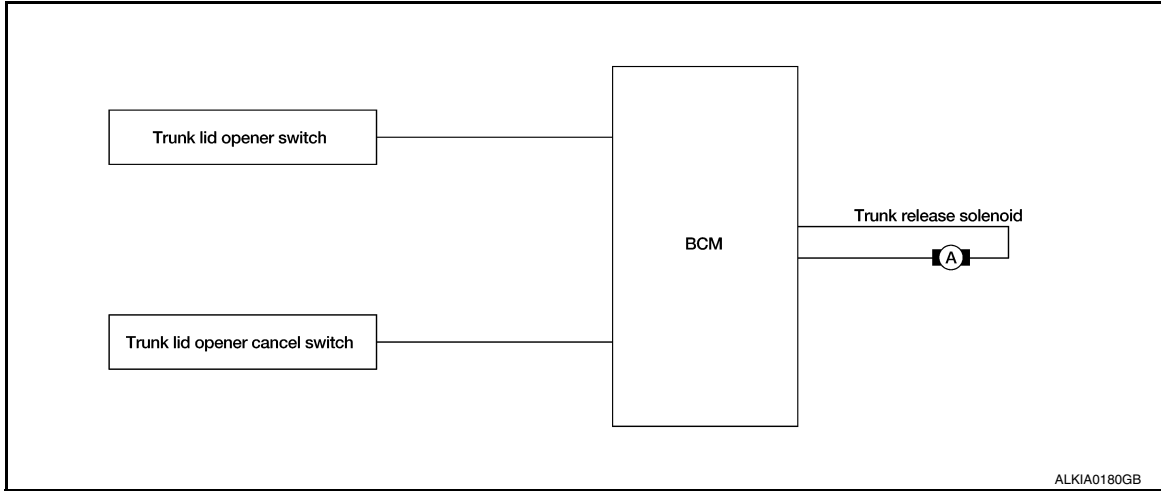
TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

TRUNK OPEN FUNCTION TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH : System Diagram

INFOID:000000009471602



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TRUNK LID OPENER SWITCH : System Description

INFOID:000000009471603

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

TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM opens trunk release solenoid.

BCM can open trunk lid opener actuator when

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

BCM does not open trunk lid opener actuator when

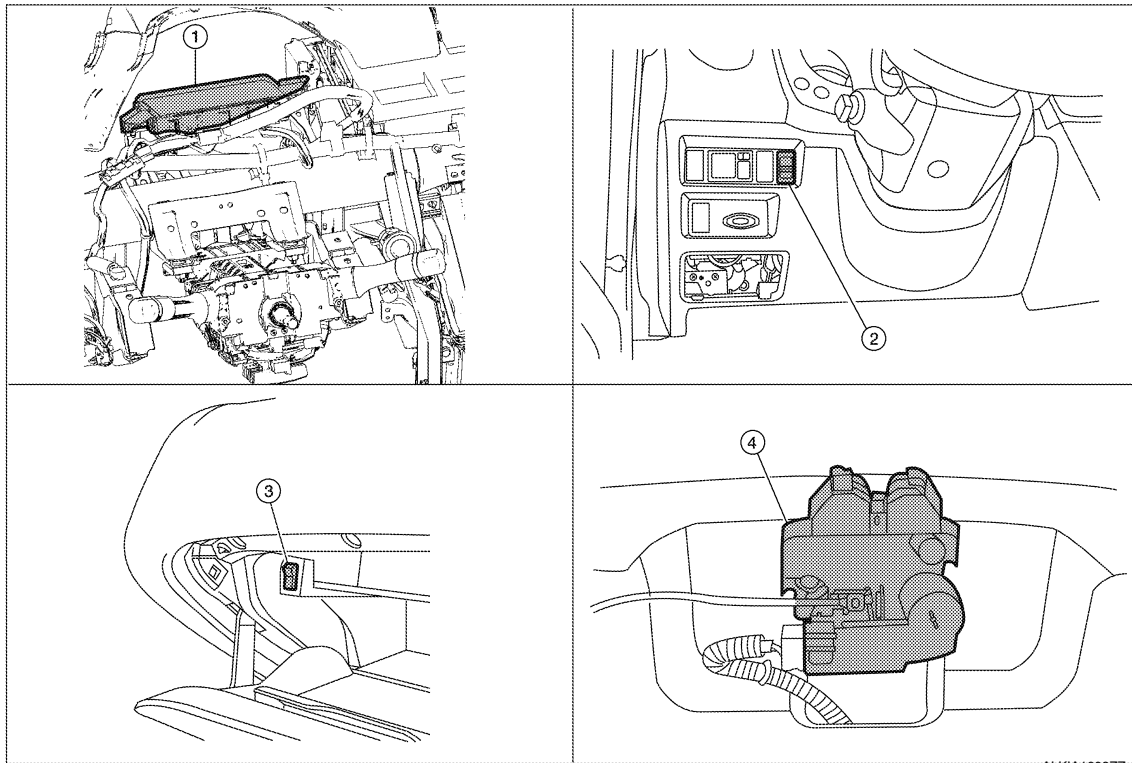
- trunk lid opener cancel switch is OFF (CANCEL)
- vehicle speed is more than 5 km/h (3 MPH)
- vehicle security system is armed or in alarm phase
- Within 3 seconds of removing the Intelligent Key from the key slot

TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

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
4. Trunk lamp switch and trunk release solenoid T7

TRUNK LID OPENER SWITCH : Component Description

INFOID:000000009471605

Item	Function
BCM	Controls trunk open function.
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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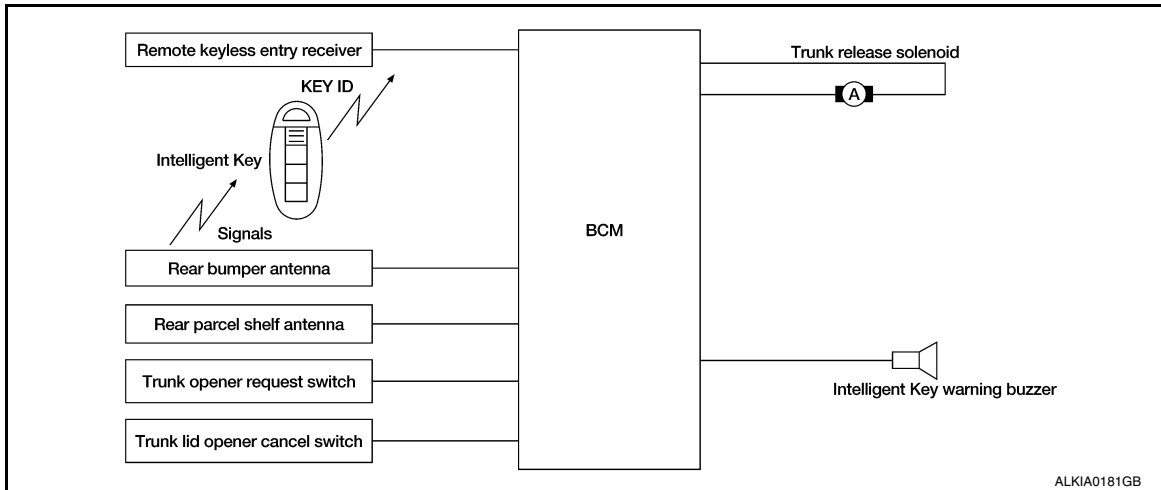
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TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

TRUNK REQUEST SWITCH : System Diagram

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TRUNK REQUEST SWITCH : System Description

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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.
- 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.

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	<ul style="list-style-type: none"> • Intelligent Key is within outside key antenna (trunk room) detection area* • Trunk cancel switch is ON • Key reminder functions operate (trunk)

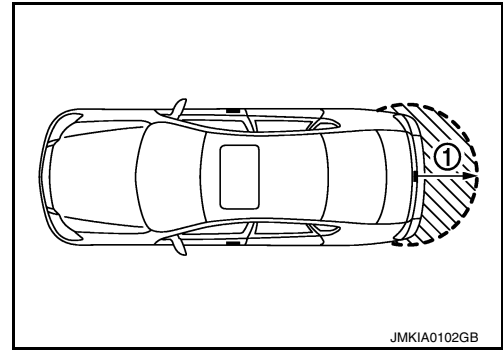
*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

OUTSIDE KEY ANTENNA DETECTION AREA

TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

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 <ul style="list-style-type: none"> • Intelligent Key is inside trunk room • All doors are closed • All doors are locked 	<ul style="list-style-type: none"> • 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 performed 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

With CONSULT

Refer to [DLK-53, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

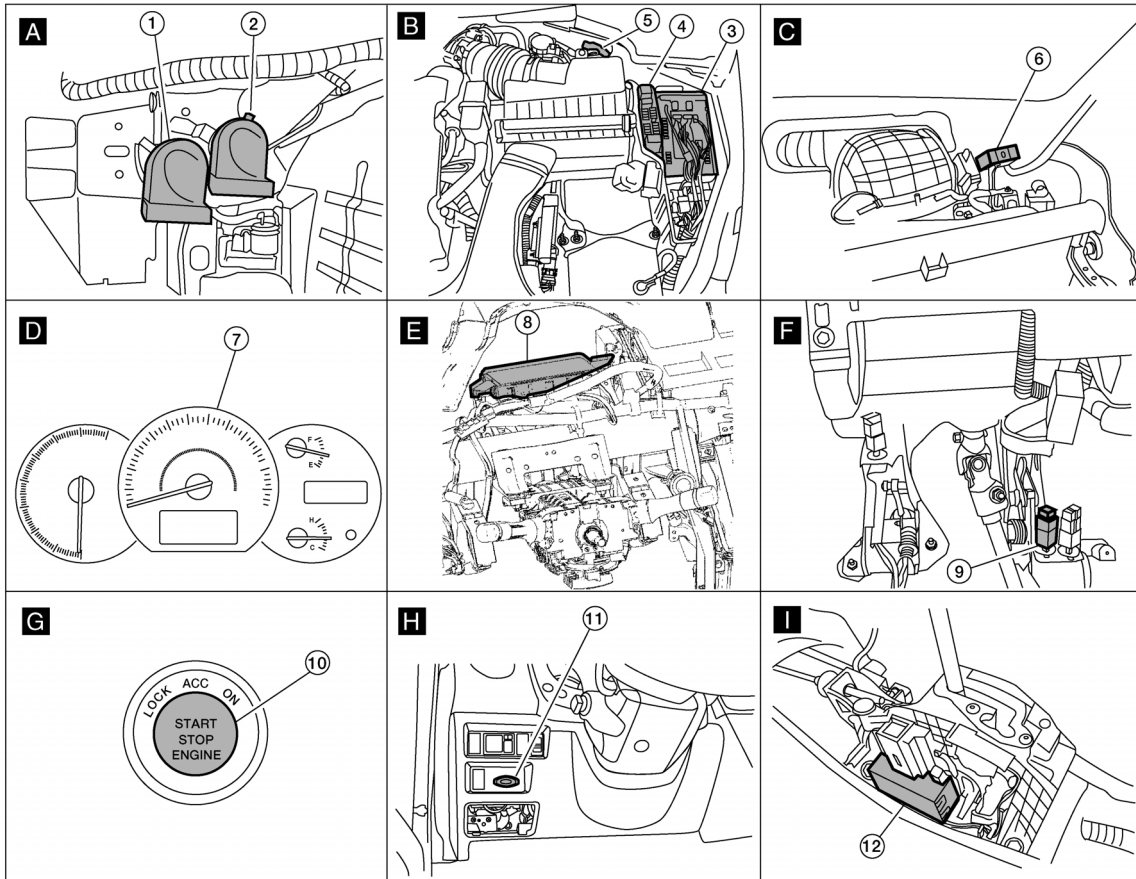
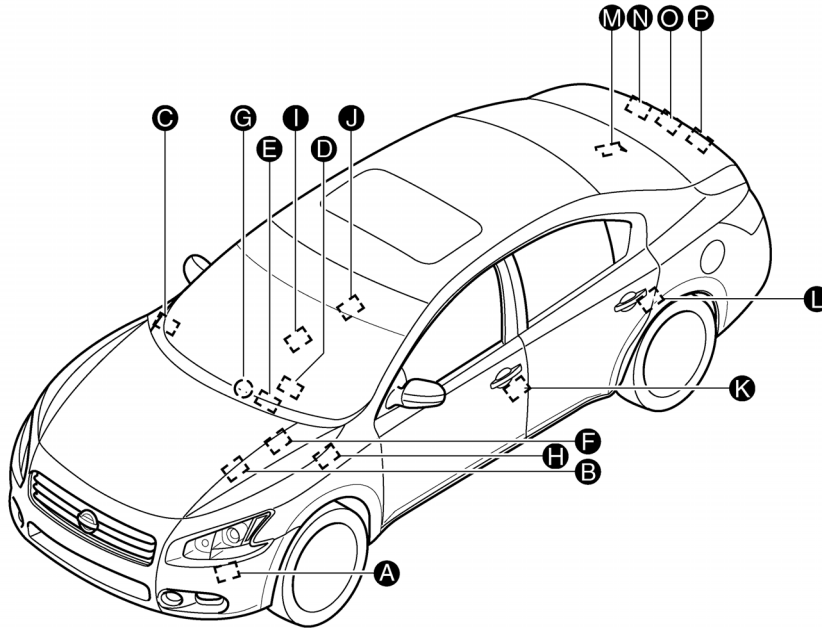
Trunk open function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Trunk room lamp switch	Trunk opener request switch	Trunk release solenoid	Inside key antenna	Outside key antenna (Trunk)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamps	Trunk lid opener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

TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

TRUNK REQUEST SWITCH : Component Parts Location

INFOID:000000009471608



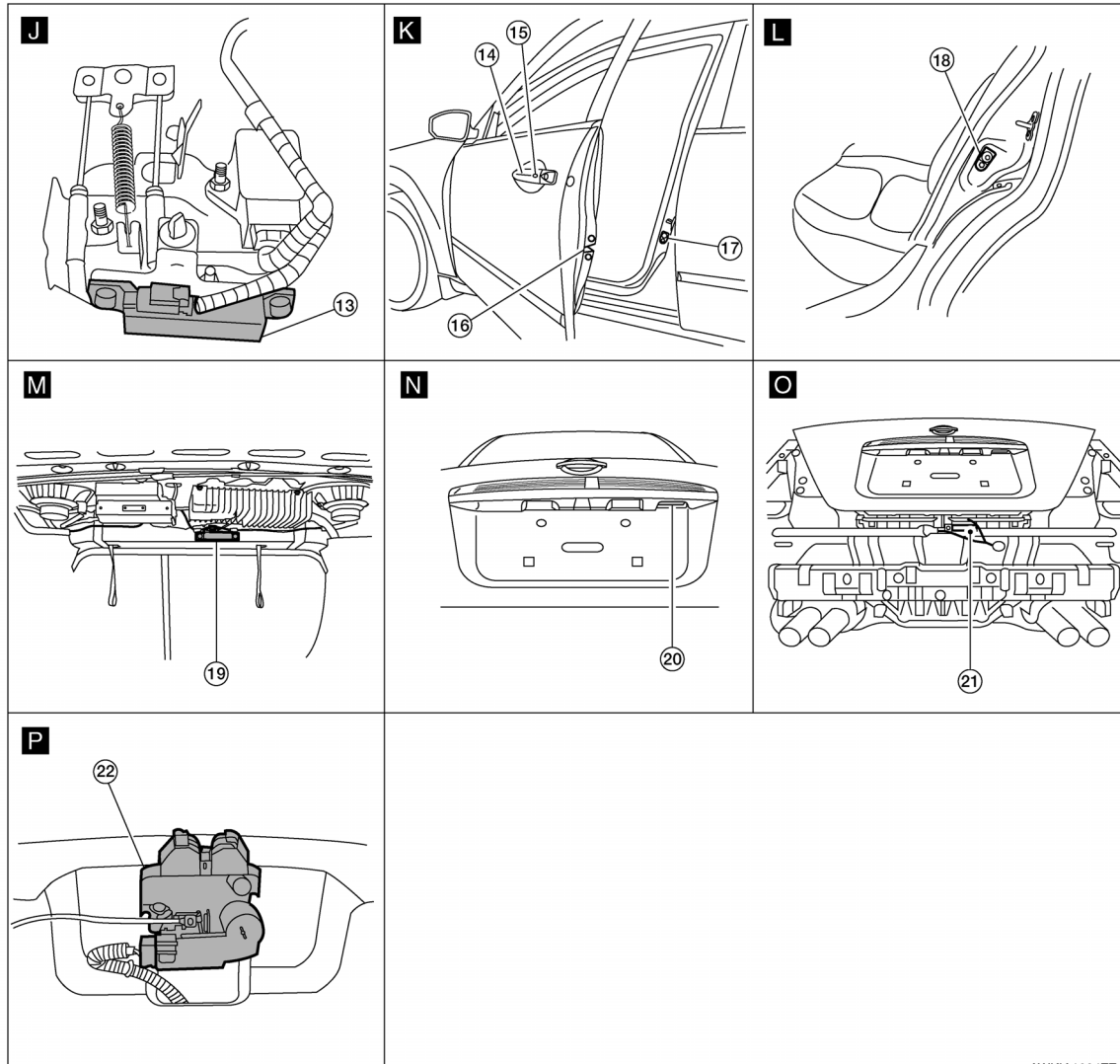
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TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >



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|--|--|---|
| 1. Horn (low) E215
(view with front fender protector LH removed) | 2. Horn (high) E216 | 3. IPDM E/R E17, E18 |
| 4. Horn relay H-1 | 5. Intelligent Key warning buzzer E28 | 6. Remote keyless entry receiver M27
(view with instrument panel removed) |
| 7. Combination meter M24 | 8. BCM M16, M17, M18, M19, M20, M21
(view with instrument panel removed) | 9. Stop lamp switch E38 |
| 10. Push button ignition switch M38 | 11. Key slot M40 | 12. CVT shift selector (park position switch
(Intelligent Key system)) M78 |
| 13. Front console antenna M41
(view with center console assembly removed) | 14. Front outside handle LH (outside key antenna) D6
Front outside handle RH (outside key antenna) D106 | 15. Front outside handle LH (request switch) D15
Front outside handle RH (request switch) D115 |
| 16. Front door lock assembly LH (door unlock sensor) D10 | 17. Front door switch LH B8
RH B108 | 18. Rear door switch LH B18
RH B116 |
| 19. Rear parcel shelf antenna B29 | 20. Trunk opener request switch T5 | 21. Rear bumper antenna B46 |
| 22. Trunk lamp switch and trunk release solenoid T7 | | |

TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

TRUNK REQUEST SWITCH : Component Description

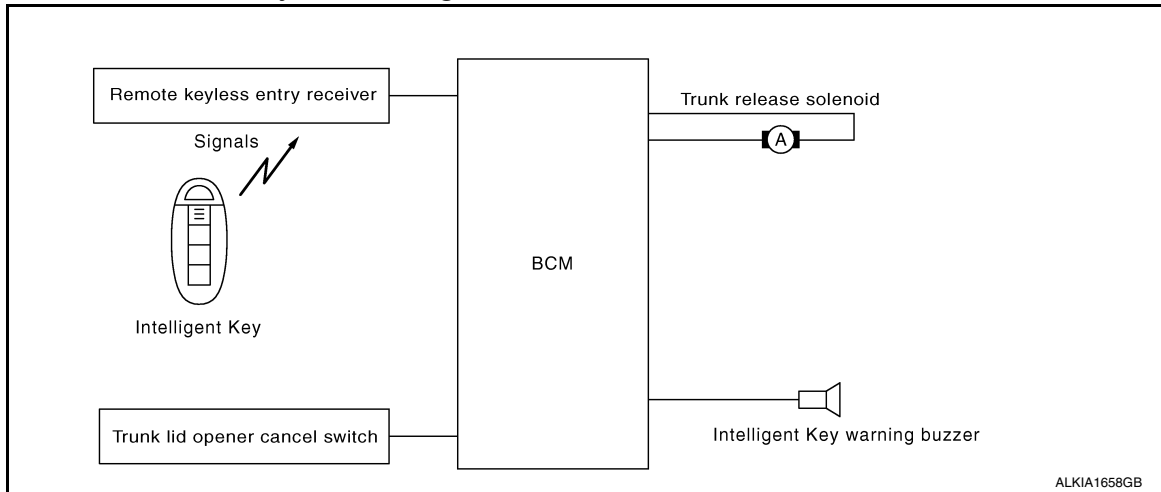
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Item	Function
BCM	Controls trunk open function.
Trunk release solenoid	Transmits trunk open operation to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Trunk opener request switch	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:000000009471610



INTELLIGENT KEY : System Description

INFOID:000000009471611

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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TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

Operating function of hazard and horn reminder

	C mode			S mode		
	Lock	Unlock	Trunk open	Lock	Unlock	Trunk open
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

Refer to [DLK-53, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

ⓧ Without CONSULT

Refer to Owner's Manual for instructions.

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

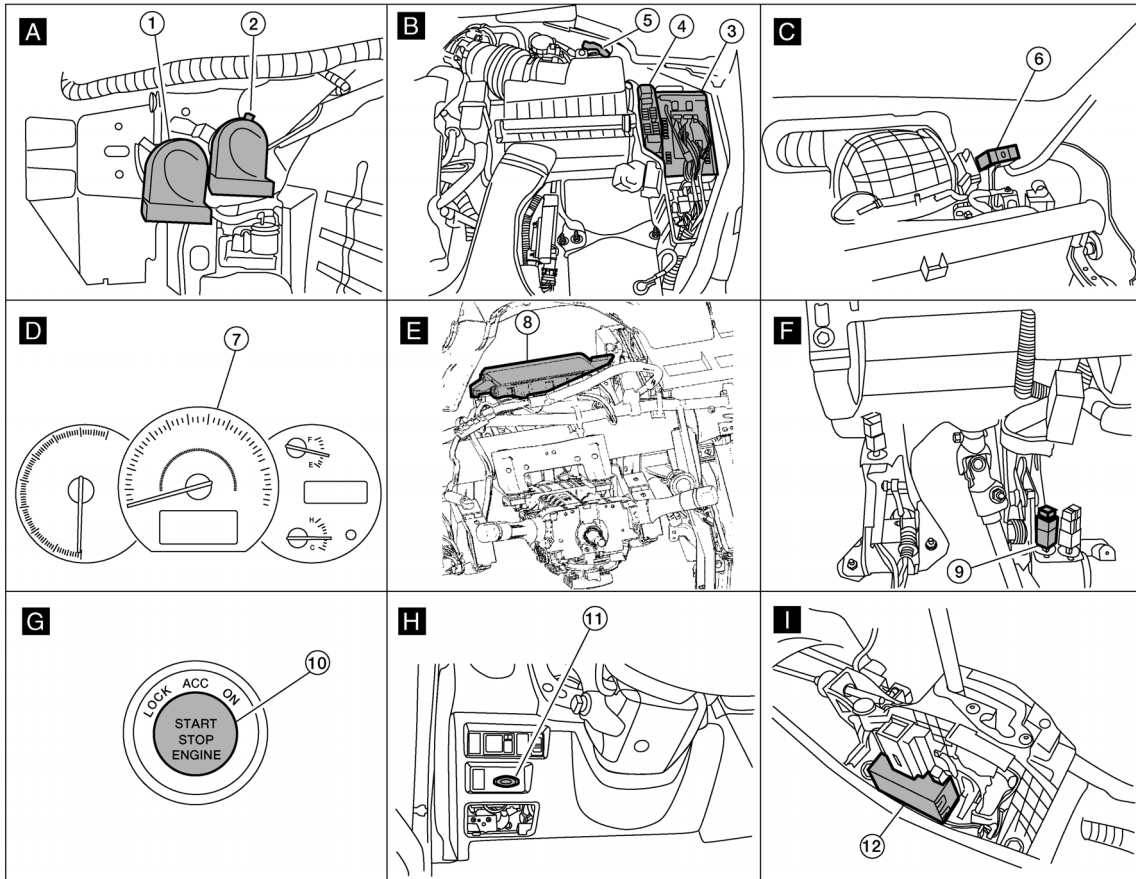
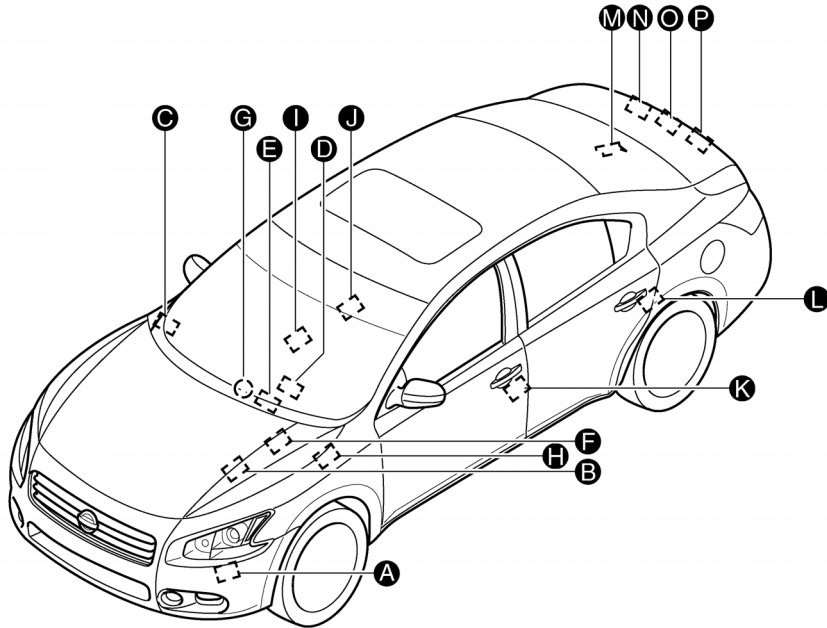
Remote keyless entry functions	Intelligent Key	Key slot	Trunk room lamp switch	Trunk release solenoid	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamps	Horns	IPDM E/R
Trunk open function by remote control button	×	×	×	×		×	×				
Hazard and horn reminder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

TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

INTELLIGENT KEY : Component Parts Location

INFOID:000000009471612



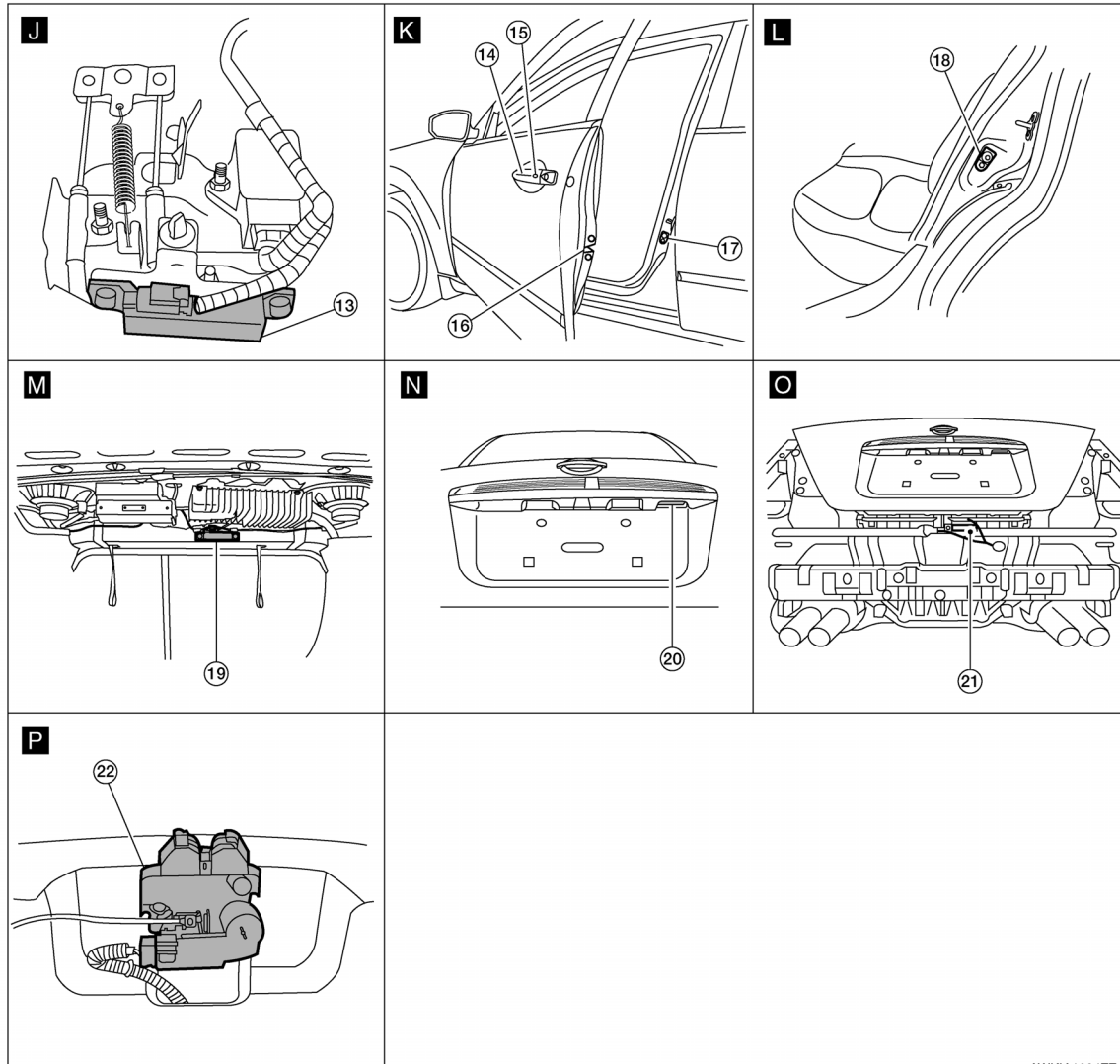
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TRUNK OPEN FUNCTION

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|--|--|---|
| 1. Horn (low) E215
(view with front fender protector LH removed) | 2. Horn (high) E216 | 3. IPDM E/R E17, E18 |
| 4. Horn relay H-1 | 5. Intelligent Key warning buzzer E28 | 6. Remote keyless entry receiver M27
(view with instrument panel removed) |
| 7. Combination meter M24 | 8. BCM M16, M17, M18, M19, M20, M21
(view with instrument panel removed) | 9. Stop lamp switch E38 |
| 10. Push button ignition switch M38 | 11. Key slot M40 | 12. CVT shift selector (park position switch
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Front outside handle RH (outside key antenna) D106 | 15. Front outside handle LH (request switch) D15
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| 16. Front door lock assembly LH (door unlock sensor) D10 | 17. Front door switch LH B8
RH B108 | 18. Rear door switch LH B18
RH B116 |
| 19. Rear parcel shelf antenna B29 | 20. Trunk opener request switch T5 | 21. Rear bumper antenna B46 |
| 22. Trunk lamp switch and trunk release solenoid T7 | | |

TRUNK OPEN FUNCTION

< SYSTEM DESCRIPTION >

INTELLIGENT KEY : Component Description

INFOID:000000009471613

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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WARNING FUNCTION

< SYSTEM DESCRIPTION >

WARNING FUNCTION

System Description

INFOID:000000009471614

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
- 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/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, "KEY" warning lamp will illuminate.
OFF position warning	For internal	When condition A, B or condition C is satisfied <ul style="list-style-type: none"> • Condition A <ul style="list-style-type: none"> - Ignition switch: ACC position - Door switch (driver side): ON (Door is open) • Condition B <ul style="list-style-type: none"> - Turn ignition switch from ON to OFF while door is open • Condition C <ul style="list-style-type: none"> - Intelligent Key is inserted in key slot - Door switch (driver side): ON (Door is open)
	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		<ul style="list-style-type: none"> • Shift position: Except P position • Engine is running to stopped (Ignition switch is ON to OFF)
ACC warning		<ul style="list-style-type: none"> • During P position warning is in active mode, shift position has changed P position. • Ignition switch: Except OFF position.

WARNING FUNCTION

< SYSTEM DESCRIPTION >

Warning/Information functions		Operation procedure
Take away warning	Door is open to close	<ul style="list-style-type: none"> Ignition switch: Except LOCK position. Door switch: ON to OFF (door is open to close). Intelligent Key cannot be detected inside the vehicle.
	Door is open	<ul style="list-style-type: none"> Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle.
	Push-ignition switch operation	<ul style="list-style-type: none"> Ignition switch: Except LOCK position. Press ignition switch. Intelligent Key can not be detected inside the vehicle.
	Take away through window	<ul style="list-style-type: none"> Engine is running. Key ID verification every 30 seconds when registered Intelligent Key cannot be detected inside the vehicle. After vehicle speed verification, the registered Intelligent Key cannot be detected inside the vehicle.
	Intelligent Key is removed from key slot	<ul style="list-style-type: none"> When Intelligent Key is removed from key slot, Intelligent Key cannot be detected inside the vehicle.
Door lock operation warning	Request switch operation	When request switch is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> Door switch: ON (any door is open). Intelligent Key is inside vehicle.
	Intelligent Key button operation	When Intelligent Key button is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> Door switch: ON (any door is open). For 3 seconds after Intelligent Key is removed from key slot.
Key warning		<ul style="list-style-type: none"> Ignition switch is in OFF position. Driver side door switch: ON (driver side door is open). Intelligent Key is inserted in key slot.
Intelligent Key insert information		<ul style="list-style-type: none"> 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 cannot be detected inside the vehicle.
Engine start information	Ignition switch is in ON position	<ul style="list-style-type: none"> Ignition switch: ON position. Shift position: P position Engine is stopped
	Ignition switch is except ON position	<ul style="list-style-type: none"> Ignition switch: Except ON position. Shift position: P position Intelligent Key is inserted in key slot. Intelligent Key can be detected inside the vehicle.
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


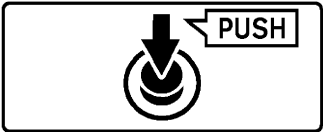




The following table shows the alarm or warning methods with chime.

Meter display, "KEY" indicator or key slot illumination when the warning conditions are met.

Warning/Information functions	"KEY" warning lamp	Combination meter display	Key slot illumination	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key system malfunction	Illuminate	—	—	—	—
OFF position warning	For internal	—	—	Activate	—
	For external	—	—	—	Activate



WARNING FUNCTION

< SYSTEM DESCRIPTION >

Warning/Information functions		"KEY" warning lamp	Combination meter display	Key slot illumination	Warning chime	
					Combination meter buzzer	Intelligent Key warning buzzer
P position warning		—	 <small>JMKIA0037GB</small>	—	Activate	—
ACC warning		—	 <small>JMKIA0047GB</small>	—	Activate	—
Take away warning	Door is open to close	—	 <small>JMKIA0036GB</small>	Flash	Activate	Activate
	Door is open	—		Flash	—	—
	Push-ignition switch operation	—		Flash	Activate	—
	Take away through window	—		Flash	Activate	—
	Intelligent Key is removed from key slot	—		Flash	—	—
Door lock operation warning	Request switch operation	—	—	—	—	Activate
	Intelligent Key operation	—	—	—	—	Activate
Key ID warning		—	 <small>JMKIA0036GB</small>	—	—	—
Key warning		—	 <small>JMKIA0035GB</small>	Flash	Activate	—
Intelligent Key insert information		—	 <small>JMKIA0034GB</small>	Flash	—	—

WARNING FUNCTION

< SYSTEM DESCRIPTION >

Warning/Information functions	"KEY" warning lamp	Combination meter display	Key slot illumination	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Engine start information	—	 <small>JMKIA0032GB</small>	—	—	—
Intelligent Key low battery warning	—	 <small>JMKIA0048GB</small>	—	—	—

LIST OF OPERATION RELATED PARTS

Parts marked with × 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	Transmission range switch	"KEY" warning lamp
Intelligent Key system malfunction										×	×				×
OFF position warning	For internal			×					×	×	×				
	For external			×				×		×	×				
P position warning			×						×	×	×	×		×	
ACC warning			×						×	×	×	×		×	
Take away warning	Door is open or close	×		×	×	×	×	×	×	×	×	×	×		
	Door is open	×		×	×	×				×	×	×	×		
	Push-ignition switch operation	×		×		×			×	×	×	×	×		
	Take away through window	×				×			×	×	×	×	×		
	Intelligent Key is removed from key slot	×	×				×			×	×	×	×		
Door lock operation warning	×	×		×	×	×	×	×		×	×				
Key ID warning	×	×	×			×				×	×	×			
Key warning	×	×		×				×	×	×	×	×	×		
Intelligent Key insert information	×	×	×	×		×				×	×	×	×		

WARNING FUNCTION

< SYSTEM DESCRIPTION >

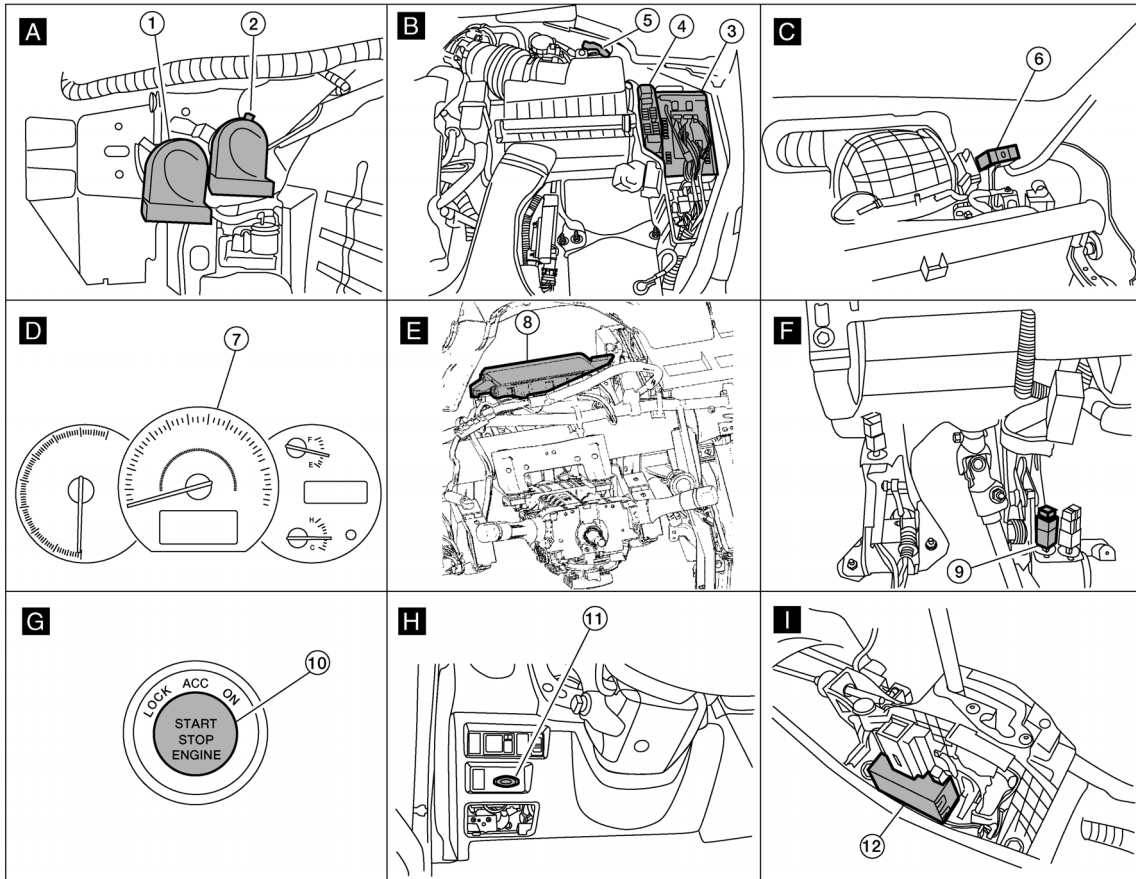
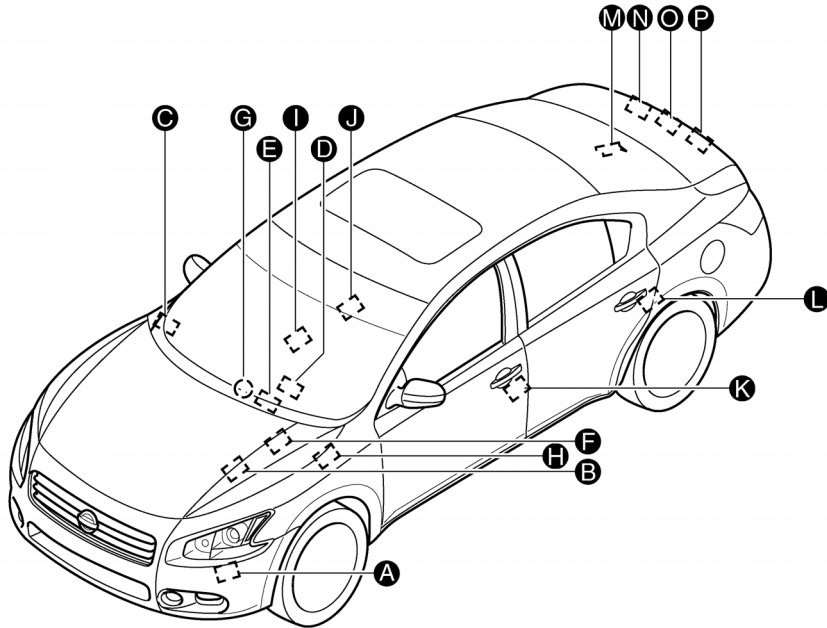
Warning function		Intelligent Key	Key slot	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Combination meter display	Key slot illumination	Transmission range switch	"KEY" warning lamp
Engine start information	Ignition switch is in ON position	x	x	x			x				x	x	x		x	
	Ignition switch is in any position except ON position	x	x	x			x				x	x	x			
Intelligent Key low battery warning		x					x				x	x	x			

WARNING FUNCTION

< SYSTEM DESCRIPTION >

Component Parts Location

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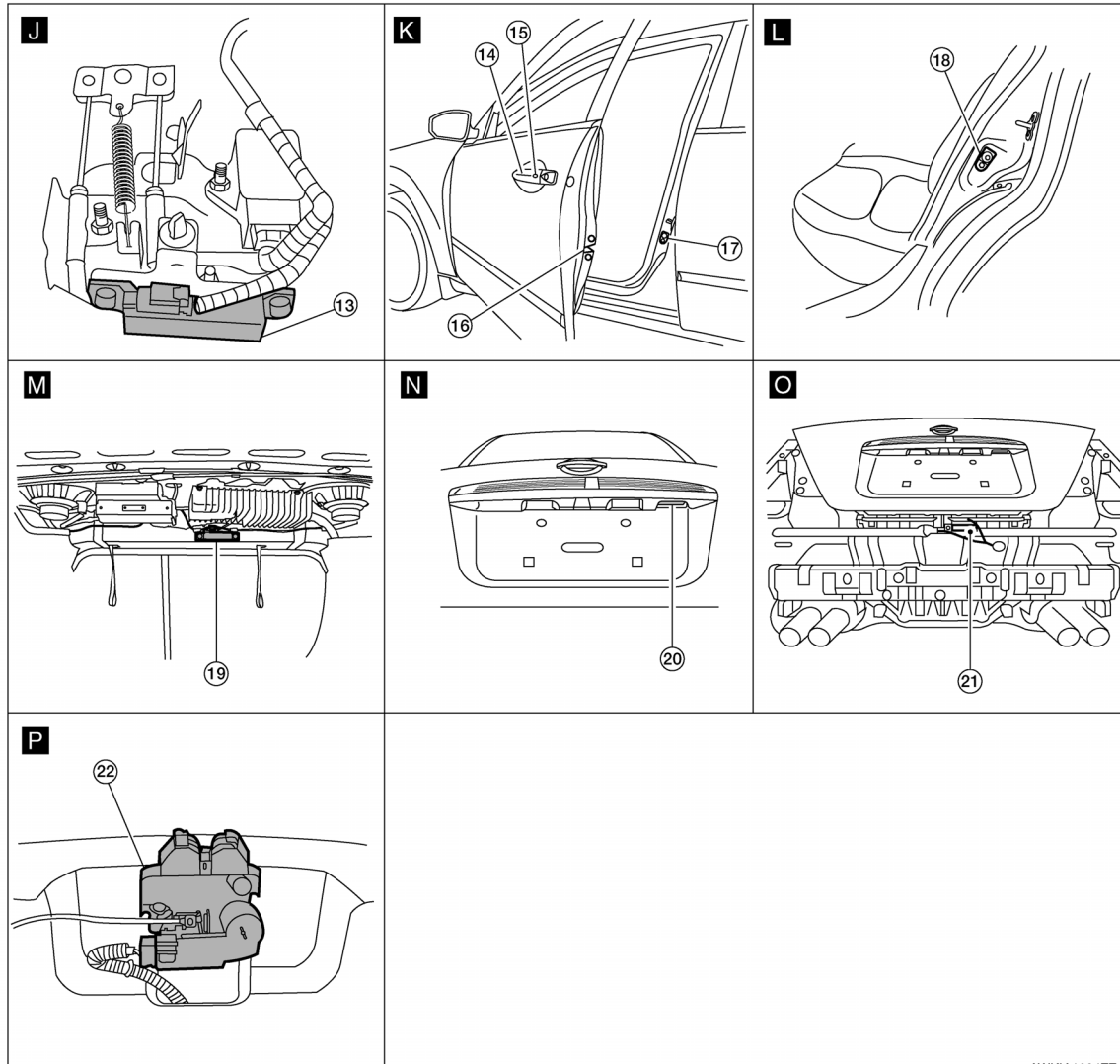
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WARNING FUNCTION

< SYSTEM DESCRIPTION >



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| 1. Horn (low) E215
(view with front fender protector LH removed) | 2. Horn (high) E216 | 3. IPDM E/R E17, E18 |
| 4. Horn relay H-1 | 5. Intelligent Key warning buzzer E28 | 6. Remote keyless entry receiver M27
(view with instrument panel removed) |
| 7. Combination meter M24 | 8. BCM M16, M17, M18, M19, M20, M21
(view with instrument panel removed) | 9. Stop lamp switch E38 |
| 10. Push button ignition switch M38 | 11. Key slot M40 | 12. CVT shift selector (park position switch
(Intelligent Key system)) M78 |
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(view with center console assembly removed) | 14. Front outside handle LH (outside key antenna) D6
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RH B116 |
| 19. Rear parcel shelf antenna B29 | 20. Trunk opener request switch T5 | 21. Rear bumper antenna B46 |
| 22. Trunk lamp switch and trunk release solenoid T7 | | |

KEY REMINDER FUNCTION

< SYSTEM DESCRIPTION >

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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Intelligent Key is inside the vehicle• Any door is opened• All doors are locked by door lock and unlock switch or door lock knob	<ul style="list-style-type: none">• All doors unlock• Sounds Intelligent Key warning buzzer
Trunk is closed	Right after trunk is closed under the following conditions <ul style="list-style-type: none">• Intelligent Key is inside trunk room• All doors are closed• All doors are locked	<ul style="list-style-type: none">• 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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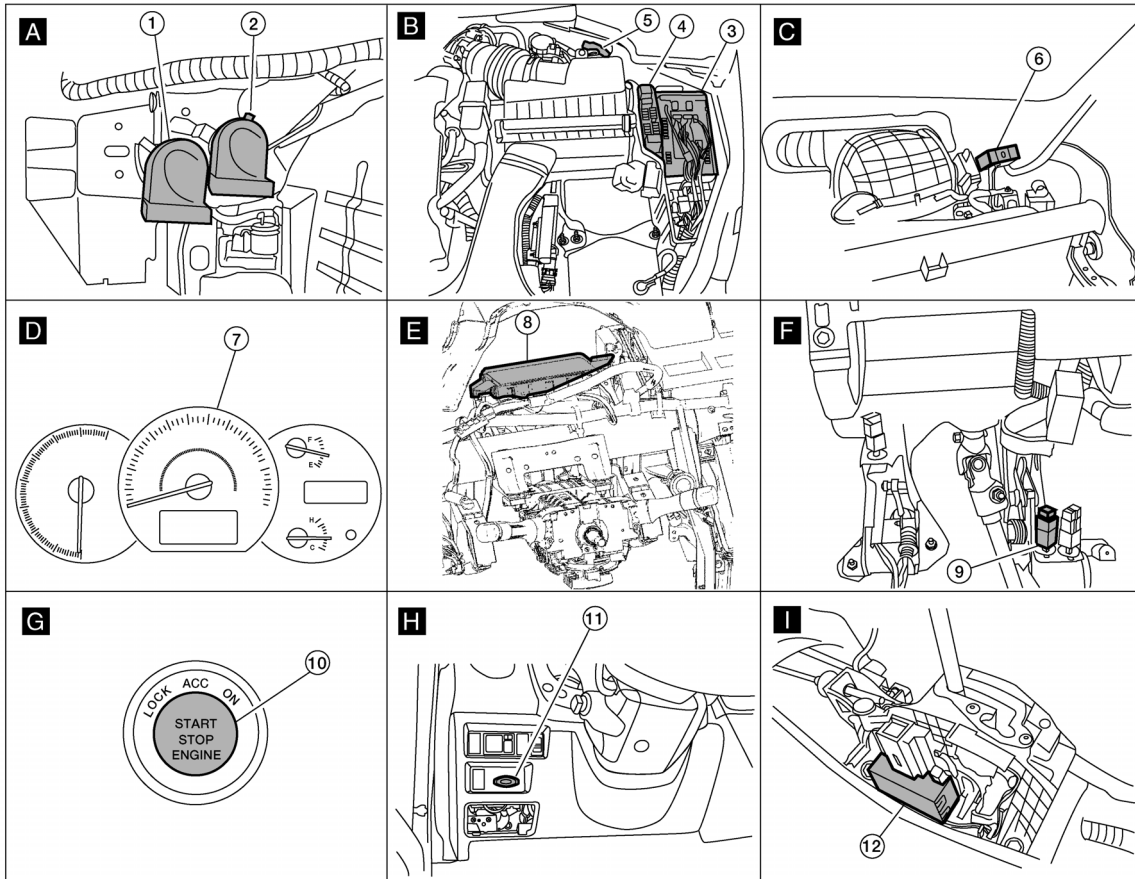
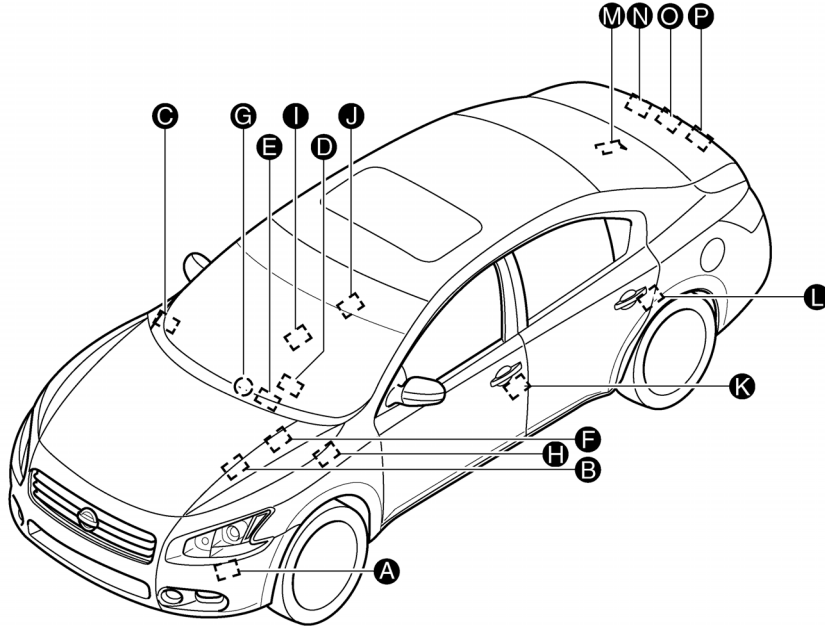
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KEY REMINDER FUNCTION

< SYSTEM DESCRIPTION >

Component Parts Location

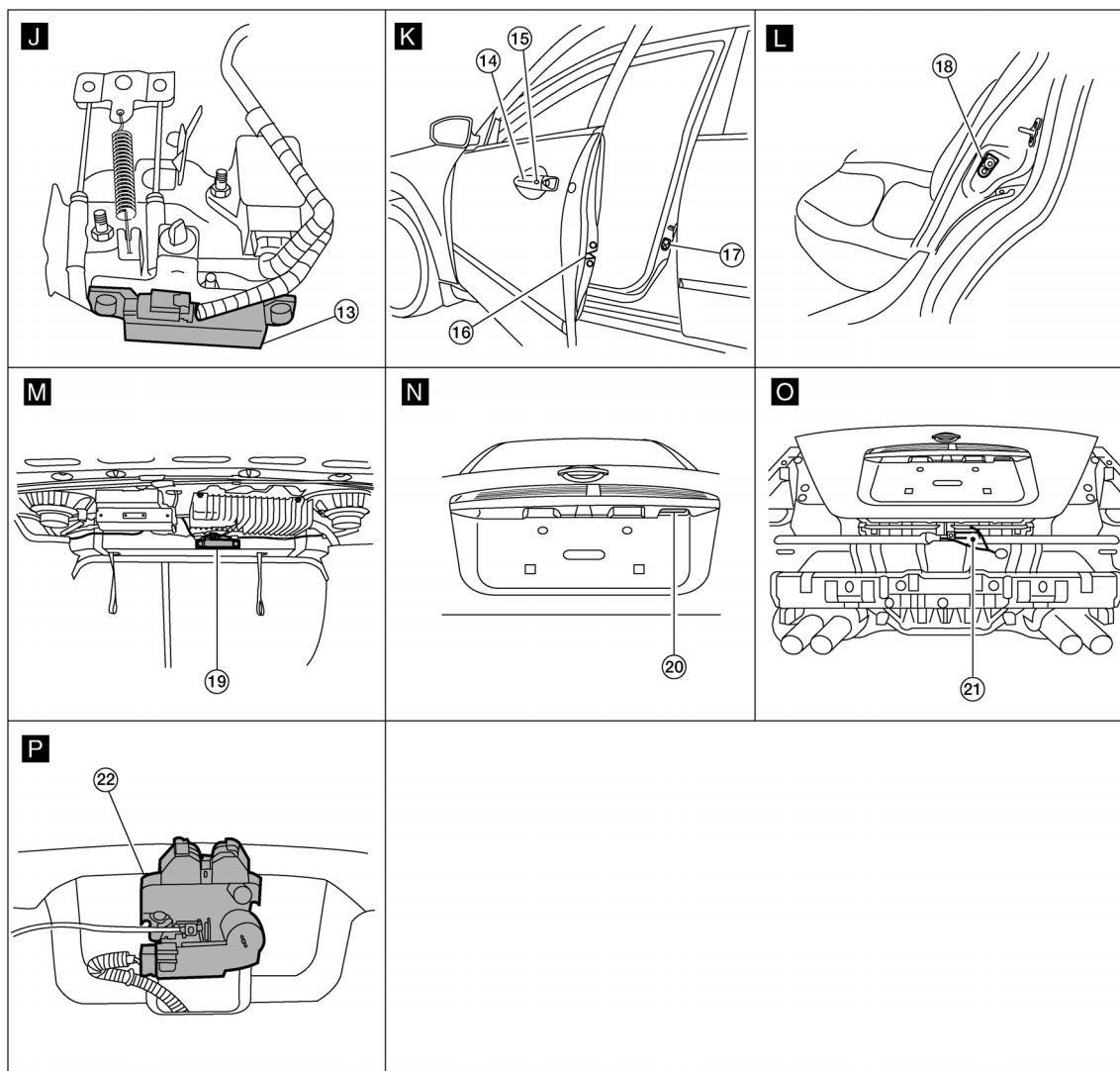
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KEY REMINDER FUNCTION

< SYSTEM DESCRIPTION >



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|--|--|---|
| 1. Horn (low) E215
(view with front fender protector LH removed) | 2. Horn (high) E216 | 3. IPDM E/R E17, E18 |
| 4. Horn relay H-1 | 5. Intelligent Key warning buzzer E28 | 6. Remote keyless entry receiver M27
(view with instrument panel removed) |
| 7. Combination meter M24 | 8. BCM M16, M17, M18, M19, M20, M21
(view with instrument panel removed) | 9. Stop lamp switch E38 |
| 10. Push button ignition switch M38 | 11. Key slot M40 | 12. CVT shift selector (park position switch
(Intelligent Key system)) M78 |
| 13. Front console antenna M41
(view with center console assembly removed) | 14. Front outside handle LH (outside key antenna) D6
Front outside handle RH (outside key antenna) D106 | 15. Front outside handle LH (request switch) D15
Front outside handle RH (request switch) D115 |
| 16. Front door lock assembly LH (door unlock sensor) D10 | 17. Front door switch LH B8
RH B108 | 18. Rear door switch LH B18
RH B116 |
| 19. Rear parcel shelf antenna B29 | 20. Trunk opener request switch T5 | 21. Rear bumper antenna B46 |
| 22. Trunk lamp switch and trunk release solenoid T7 | | |

HOMELINK UNIVERSAL TRANSCEIVER

< SYSTEM DESCRIPTION >

HOMELINK UNIVERSAL TRANSCEIVER

Component Description

INFOID:000000009471618

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)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000010056654

SELF DIAGNOSTIC RESULT

Refer to [BCS-64, "DTC Index"](#).

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 opener request 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
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock 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 [OTR ULK/AS UNLK/DR UNLK/ALL UNLK/ALL LCK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON
	Off	Automatic door locks function OFF
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of park (P)
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph)
AUTOMATIC DOOR UNLOCK SELECT	MODE4	Drivers door unlocks automatically when shifted into park (P)
	MODE3	Drivers door unlocks automatically when ignition is switched from ON to OFF
	MODE2	Doors unlock automatically when shifted into park (P)
	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF
AUTOMATIC LOCK/UNLOCK SELECT	Lock/Unlock*	Automatic door locks function operates in lock and unlock
	Lock Only	Automatic door locks function operates in lock only
	Unlock Only	Automatic door locks function operates in unlock only
	Off	Automatic door locks function OFF

* : Initial setting

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000010056656

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	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 opener request switch
PUSH SW [On/Off]		Indicates condition of push button ignition switch
IGN RLY2 -F/B [On/Off]		Indicates condition of ignition relay 2
ACC RLY -F/B [On/Off]		Indicates condition of accessory relay
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch
BRAKE SW 2 [On/Off]		Indicates condition of brake switch
DETE/CANCL SW [On/Off]	×	Indicates condition of P position
SFT PN/N SW [On/Off]	×	Indicates condition of P or N position
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor
PUSH SW -IPDM [On/Off]		Indicates condition of push button ignition switch received from IPDM E/R on CAN communication line
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line
SFT PN -IPDM [On/Off]		Indicates condition of P or N position from TCM on CAN communication line
SFT P -MET [On/Off]		Indicates condition of P position from TCM on CAN communication line
SFT N -MET [On/Off]		Indicates condition of N position from IPDM E/R on CAN communication line
ENGINE STATE [Stop/Start/Crank/Run]	×	Indicates condition of engine state from ECM on CAN communication line
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
KEY SW -SLOT [On/Off]		Indicates condition of key slot.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk lid.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-P/W OPEN [On/Off]		Indicates condition of power window down signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
REVERSE SW [On/Off]		Indicates condition of reverse switch status.

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test Item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
PW REMOTO DOWN SET	This test is able to check power window down operation [On/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [Off/On].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Key/Knob/Take Out/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY IND/KEY ON/Off].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
LCD	This test is able to check combination meter display information [Off/LK WN/OUTKEY/NO KY/BATT/INSRT/SFT P/ROTAT/ID NG/BP I/BP N].
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation [Open].
FLASHER	This test is able to check hazard lamp operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].
P RANGE	This test is able to check CVT shift selector illumination operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push button ignition switch illumination operation [On/Off].
LOCK INDICATOR	This test is able to check LOCK indicator in push button ignition switch operation [On/Off].
ACC INDICATOR	This test is able to check ACC indicator in push button ignition switch operation [On/Off].
IGNITION ON IND	This test is able to check ignition ON indicator in push button ignition switch operation [On/Off].
KEY SLOT ILLUMI	This test is able to check key slot illumination operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator operation [Open].

WORK SUPPORT

Support Item	Setting	Description
CONFIRM KEY FOB ID	MEMORY 1	Intelligent Key ID code can be checked.
	MEMORY 2	
	MEMORY 3	
	MEMORY 4	
	NON REGIST	
AUTO LOCK SET	MODE 4 2 min	Auto door lock time can be set in this mode.
	MODE 3 30 sec	
	MODE 2 5 min	
	MODE 1* 1 min	
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.
	Off	Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*	Engine start function from Intelligent Key ON.
	Off	Engine start function from Intelligent Key OFF.
TRUNK/GLASS HATCH OPEN	On*	Buzzer reminder function by trunk opener request switch ON.
	Off	Buzzer reminder function by trunk opener request switch OFF.
PANIC ALARM SET	MODE 3 1.5 sec	Panic alarm button set time on Intelligent Key can be set in this mode.
	MODE 2 OFF	
	MODE 1* 0.5 sec	
PW DOWN SET	MODE 3 5 sec	Unlock button press time on Intelligent Key to lower front window can be set in this mode.
	MODE 2 OFF	
	MODE 1* 3 sec	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Support Item	Setting		Description
TRUNK OPEN DELAY	MODE 3	1.5 sec	Trunk button pressing time on Intelligent Key button can be selected from the following with this mode.
	MODE 2	OFF	
	MODE 1*	0.5 sec	
LO- BATT OF KEY FOB WARN	On*		Intelligent Key low battery warning mode ON.
	Off		Intelligent Key low battery warning mode OFF.
ANTI KEY LOCK IN FUNCTI	On*		Key reminder function mode ON.
	Off		Key reminder function mode OFF.
HAZARD ANSWER BACK	Lock/Unlock*		Hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.
	Unlock Only		Hazard warning lamp activation when doors are unlocked with Intelligent Key.
	Lock Only		Hazard warning lamp activation when doors are locked with Intelligent Key.
	Off		No hazard warning lamp activation when doors are locked or unlocked with Intelligent Key.
ANS BACK I-KEY LOCK	Horn Chirp		Horn chirp reminder when doors are unlocked with Intelligent Key
	Buzzer*		Buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
ANS BACK I-KEY UNLOCK	Off		No buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
	On*		Buzzer or horn chirp reminder when doors are unlocked with Intelligent Key
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration times.
		100 msec	
		200 msec	
	End		
INSIDE ANT DIAGNOSIS	Start		This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Off		No horn reminder activation when doors are locked with Intelligent Key.
	On*		Horn reminder activation when doors are locked with Intelligent Key.

*: Initial Setting

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:000000010056657

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push button ignition switch
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line
TR CANCEL SW [On/Off]	Indicates condition of trunk lid opener cancel switch
TR/BD OPEN SW [On/Off]	Indicates condition of trunk lid opener switch
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk room lamp switch
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Test Item	Description
TRUNK/GLASS HATCH	This test is able to check trunk open operation [Open].

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DLK

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000009471622

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-24, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000009471623

DTC DETECTION LOGIC

DTC	CONSULT 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. <ul style="list-style-type: none">• Transmission• Receiving (ECM)• Receiving (VDC/TCS/ABS)• Receiving (METER/M&A)• Receiving (TCM)• Receiving (MULTI AV)• Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:000000009471624

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-15, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-41, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:000000009471625

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000009471626

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

Special Repair Requirement

INFOID:000000009471627

1.REQUIRED WORK WHEN REPLACING BCM

Initialize NVIS by CONSULT. For the details of initialization refer to CONSULT Immobilizer mode and follow the on-screen instructions.

>> Work end.

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DLK

B2622 INSIDE KEY ANTENNA 2

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE KEY ANTENNA 2

Description

INFOID:000000009471628

Detects whether Intelligent Key is inside the vehicle.
Installed under the center console.

DTC Logic

INFOID:000000009471629

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

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.	<ul style="list-style-type: none">• Front console antenna• Between BCM and front console antenna.

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

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 [DLK-60, "Diagnosis Procedure"](#).
NO >> Front console antenna is OK.

Diagnosis Procedure

INFOID:000000009471630

NOTE:

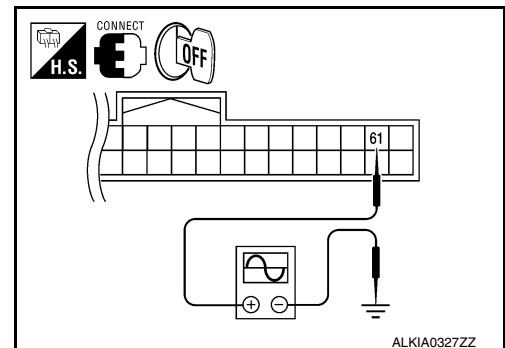
The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

Terminals				Condition	Signal (Reference value.)
(+)		(-)			
BCM connector	Terminal				
M19	Front console antenna	61	Ground	Place Intelligent Key inside the vehicle.	
				Place Intelligent Key outside the vehicle.	

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
M19	60	M41	Console	2	Yes
	61			1	

3. Check continuity between BCM connector and ground.

BCM connector		Terminal	Ground	Continuity
M19	Console	60		No
		61		

Is the inspection result normal?

- YES >> GO TO 3
 NO >> Repair or replace harness between BCM and front console antenna.

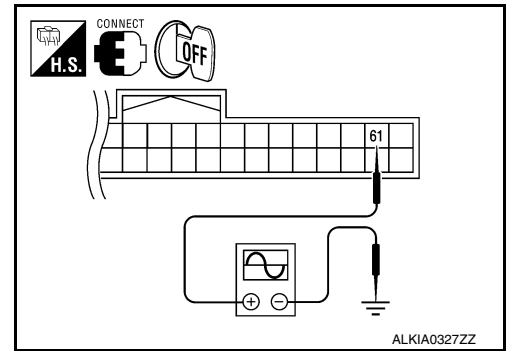
3. CHECK FRONT CONSOLE ANTENNA INPUT SIGNAL 2

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

B2622 INSIDE KEY ANTENNA 2

< DTC/CIRCUIT DIAGNOSIS >

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



Terminals			Condition	Signal (Reference value.)	
(+)		(-)			
BCM connector	Terminal				
M19	Front console antenna	61	Ground	Place Intelligent Key inside the vehicle.	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				Place Intelligent Key outside the vehicle.	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

Is the inspection result normal?

- YES >> Replace front console antenna. Refer to [IP-21, "Disassembly and Assembly"](#).
 NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

B2623 INSIDE KEY ANTENNA 3

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE KEY ANTENNA 3

Description

INFOID:000000009471631

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

DTC Logic

INFOID:000000009471632

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

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.	<ul style="list-style-type: none">• Rear parcel shelf antenna• Between BCM and rear parcel shelf antenna

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

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

Is rear parcel shelf antenna DTC detected?

- YES >> Refer to [DLK-63, "Diagnosis Procedure"](#).
- NO >> Rear parcel shelf antenna is OK.

Diagnosis Procedure

INFOID:000000009471633

NOTE:

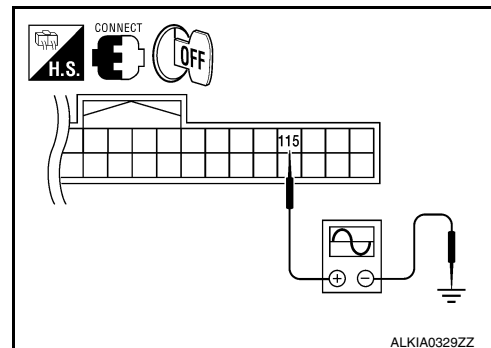
The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

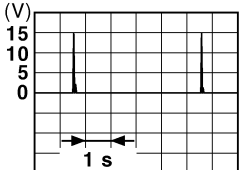
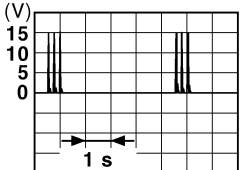
1. CHECK REAR PARCEL SHELF ANTENNA INPUT SIGNAL 1

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



B2623 INSIDE KEY ANTENNA 3

< DTC/CIRCUIT DIAGNOSIS >

Terminals				Condition	Signal (Reference value.)
(+)		(-)	Terminal		
BCM connector	Terminal				
M21	Rear parcel shelf antenna	115	Ground	Place Intelligent Key inside the vehicle.	
				Place Intelligent Key outside the vehicle.	

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
M21	114	B29	Trunk room	2	Yes
	115			1	

3. Check continuity between BCM connector and ground.

BCM connector		Terminal	Ground	Continuity
M21	Trunk room	114		Ground
		115		

Is the inspection result normal?

- YES >> GO TO 3
 NO >> Repair or replace harness between BCM and rear parcel shelf antenna.

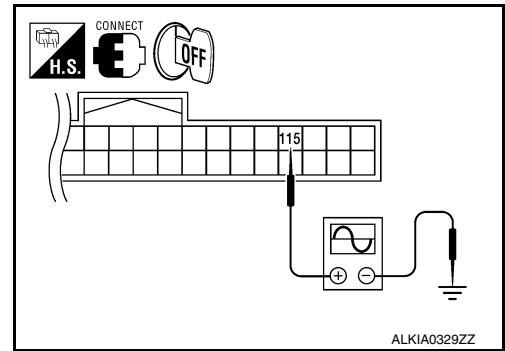
3. CHECK REAR PARCEL SHELF ANTENNA INPUT SIGNAL 2

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

B2623 INSIDE KEY ANTENNA 3

< DTC/CIRCUIT DIAGNOSIS >

- 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.	
				Place Intelligent Key outside the vehicle.	

Is the inspection result normal?

- YES >> Replace rear parcel shelf antenna. Refer to [INT-28, "Removal and Installation"](#).
 NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

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DLK

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000010056660

Regarding Wiring Diagram information, refer to [BCS-67. "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	H
11		10
24		7

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.

Terminals		Voltage (Approx.)
(+)	(-)	
BCM		Battery voltage
Connector	Terminal	
M16	1	
M17	11	
M18	24	
		Ground

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		Ground	Continuity
Connector	Terminal		
M17	13		Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

Special Repair Requirement

INFOID:000000010056661

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to [BCS-5. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(BCM\) : Work Procedure"](#).

>> Work End.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Description

INFOID:000000009471636

Detects door open/close condition.

Component Function Check

INFOID:000000009471637

1.CHECK FUNCTION

With CONSULT

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

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

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-67, "Diagnosis Procedure"](#).

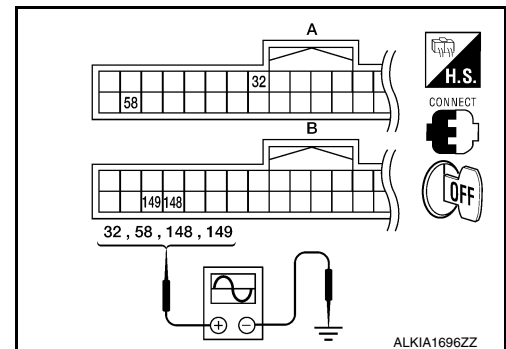
Diagnosis Procedure

INFOID:000000009471638

Regarding Wiring Diagram information, refer to [DLK-150, "Wiring Diagram"](#).

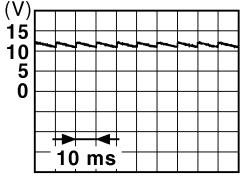
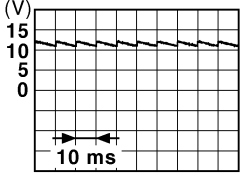
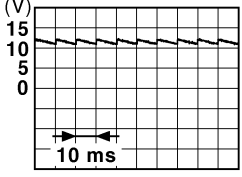
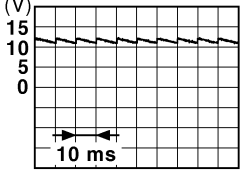
1.CHECK DOOR SWITCH INPUT SIGNAL

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



DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terminals		(-)	Door condition	Voltage (V) (Approx.)
(+)				
BCM connector	Terminal			
A: M18	58	Ground	OPEN	0
			CLOSE	
	32		OPEN	0
			CLOSE	
B: M21	148		OPEN	0
			CLOSE	
	149		OPEN	0
			CLOSE	

Is the inspection result normal?

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

2. CHECK DOOR SWITCH CIRCUIT

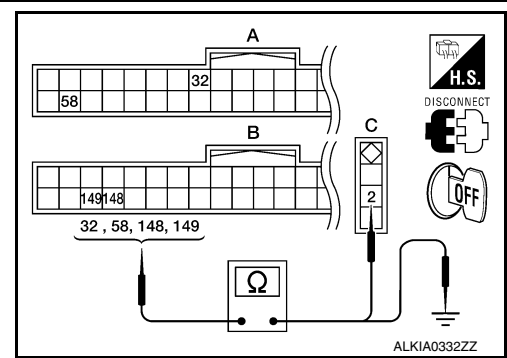
1. Disconnect BCM connector.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between BCM connector and door switch connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
A: M18	58	C: B8 (Driver side)	2	Yes
	32	C: B108 (Passenger side)		
B: M21	148	C: B116 (Rear RH)		
	149	C: B18 (Rear LH)		



- Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
A: M18	58	No
	32	
B: M21	148	
	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-69. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471639

1.CHECK DOOR SWITCH

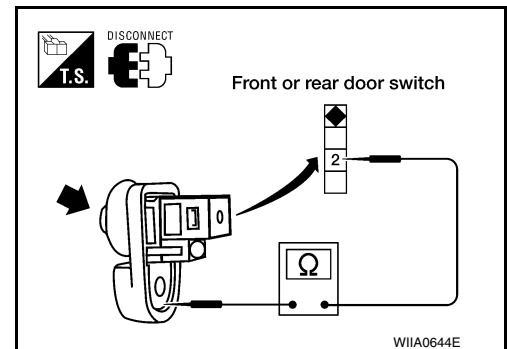
- Turn ignition switch OFF.
- Disconnect door switch connector.
- Check door switch.

Terminal	Door switch condition	Continuity
2	Pressed	No
	Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.



DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK AND UNLOCK SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000009471640

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:000000009471641

1. CHECK FUNCTION

Ⓜ With CONSULT

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

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	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 [DLK-70, "DRIVER SIDE : Diagnosis Procedure"](#).

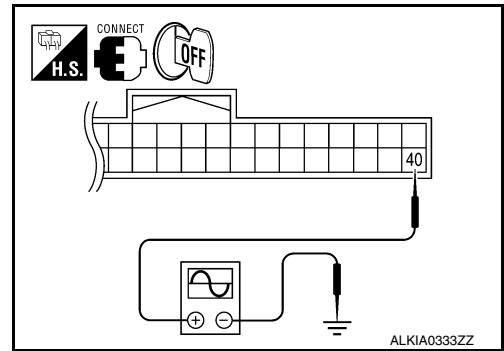
DRIVER SIDE : Diagnosis Procedure

INFOID:000000009471642

Regarding Wiring Diagram, refer to [DLK-150, "Wiring Diagram"](#).

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. 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 to "LOCK" or "UNLOCK".

Terminal		Condition	Signal (Reference value)
(+)	(-)		
BCM connector	Terminal		
M18	40	Ground	<p style="text-align: right;">PIIA1297E</p>

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

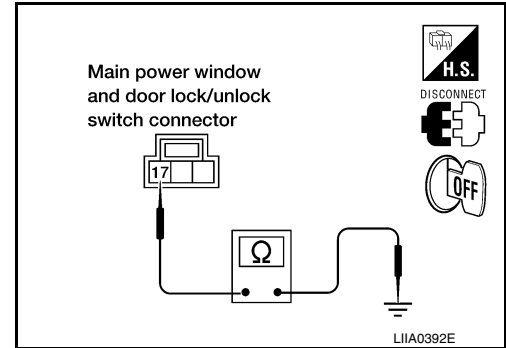
2. CHECK POWER WINDOW SWITCH GROUND

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
D8	17	Ground	Yes

Is the inspection result normal?

- YES >> GO TO 3
- NO >> Repair or replace harness.



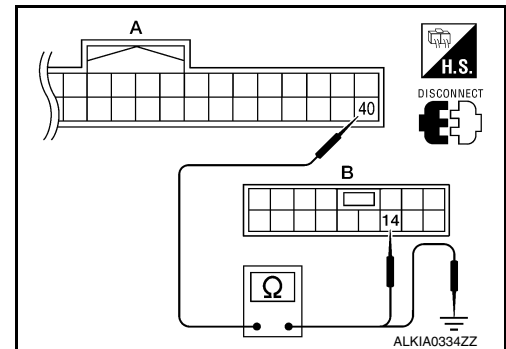
3. CHECK POWER WINDOW SERIAL LINK CIRCUIT

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	14	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-41. "Intermittent Incident"](#).

>> Inspection End.

DRIVER SIDE : Special Repair Requirement

INFOID:000000009471643

INITIALIZATION PROCEDURE

1. Disconnect battery negative terminal or main power window and door lock/unlock switch. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

1. Fully open the door window.
2. Place a piece of wood near fully closed position.
3. Close door glass completely with AUTO-UP.

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- Check that glass lowers for approximately 150 mm (5.91 in) or 2 seconds without pinching piece of wood and stops.
- Check that glass does not rise when operating the main power window and door lock/unlock switch while lowering.

CAUTION:

- **Do not check with hands and other parts of the body because they may be pinched. Do not get pinched.**
 - **Check that AUTO-UP operates before inspection when system initialization is performed.**
 - **It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to [PWC-53, "Fail Safe"](#), [PWC-56, "Fail Safe"](#) or [PWC-78, "Fail Safe"](#).**
 - **Perform initial setting when auto-up operation or anti-pinch function does not operate normally.**
 - **Finish initial setting. Otherwise, next operation cannot be done.**
1. Auto-up operation
 2. Anti-pinch function
 3. Retained power operation when ignition switch is OFF.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000009471644

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000009471645

1.CHECK FUNCTION

ⓅWith CONSULT

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

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	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 [DLK-72, "PASSENGER SIDE : Diagnosis Procedure"](#).

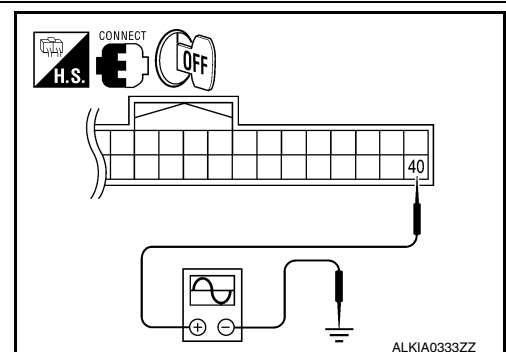
PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009471646

Regarding Wiring Diagram information, refer to [DLK-150, "Wiring Diagram"](#).

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. 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 to "LOCK" or "UNLOCK".

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terminal		Condition	Signal (Reference value)
(+)	(-)		
BCM connector	Terminal		
M18	40	Door is closed	 PIIA1297E

Is the inspection result normal?

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

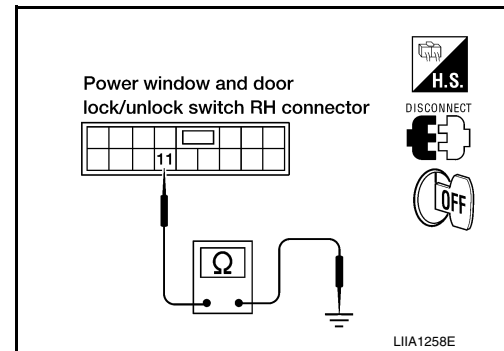
2.CHECK POWER WINDOW SWITCH GROUND

- Turn ignition switch OFF.
- Disconnect power window and door lock/unlock switch RH connector.
- Check continuity between 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	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-41, "Intermittent Incident"](#).

- YES >> Inspection End.

PASSENGER SIDE : Special Repair Requirement

INITIALIZATION PROCEDURE

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1. Disconnect battery negative terminal or main power window and door lock/unlock switch. Reconnect it after a minute or more.
2. Turn ignition switch ON.
3. Operate power window switch to fully open the window. (This operation is unnecessary if the window is already fully open)
4. Continue pulling the power window switch UP (AUTO-UP operation). Even after glass stops at fully closed position, keep pulling the switch for 4 seconds or more.
5. Inspect anti-pinch function.

CHECK ANTI-PINCH FUNCTION

1. Fully open the door window.
2. Place a piece of wood near fully closed position.
3. Close door glass completely with AUTO-UP.
 - Check that glass lowers for approximately 150 mm (5.91 in) or 2 seconds without pinching piece of wood and stops.
 - Check that glass does not rise when operating the main power window and door lock/unlock switch while lowering.

CAUTION:

- Do not check with hands and other parts of the body because they may be pinched. Do not get pinched.
 - Check that AUTO-UP operates before inspection when system initialization is performed.
 - It may switch to fail-safe mode if open/close operation is performed continuously. Perform initial setting in that situation. Refer to [PWC-53, "Fail Safe"](#), [PWC-56, "Fail Safe"](#) or [PWC-78, "Fail Safe"](#).
 - Perform initial setting when auto-up operation or anti-pinch function does not operate normally.
 - Finish initial setting. Otherwise, next operation cannot be done.
1. Auto-up operation
 2. Anti-pinch function
 3. Retained power operation when ignition switch is OFF.

KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT

Description

INFOID:000000009471648

Detects whether Intelligent Key is inserted.
Immobilizer antenna amp checks Intelligent Key transponder.

Component Function Check

INFOID:000000009471649

1. CHECK FUNCTION

With CONSULT

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

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 [DLK-75, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471650

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1. CHECK KEY SLOT POWER SUPPLY CIRCUIT

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

Terminals		Voltage (V) (Approx.)
(+)	(-)	
Key slot connector	Terminal	Ground
M40	1	
		5

Is the inspection result normal?

- YES >> GO TO 2
NO >> Repair or replace key slot power supply circuit.

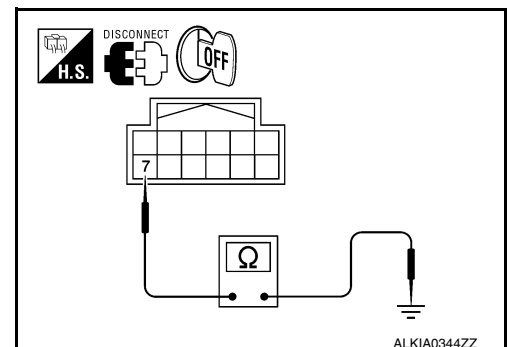
2. CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot connector and ground.

Key slot connector	Terminal	Ground	Continuity
M40	7		

Is the inspection result normal?

- YES >> GO TO 3
NO >> Repair or replace key slot ground circuit.



3. CHECK KEY SLOT CIRCUIT

- Disconnect BCM connector.

KEY SLOT

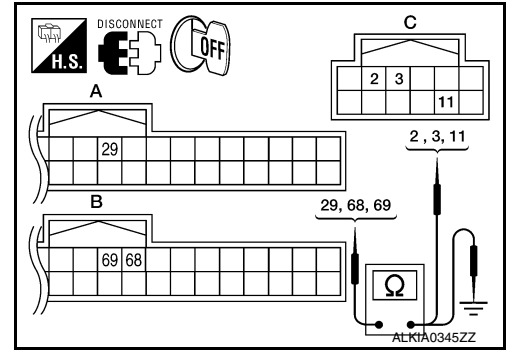
< DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between BCM connector and key slot connector.

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

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
A: M18	29	Ground No
B: M19	68	
	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-76. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5
- NO >> Replace key slot.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471651

1.CHECK KEY SLOT

Check key slot.

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

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Replace key slot.

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

KEY CYLINDER SWITCH

Description

INFOID:000000009471652

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.

Component Function Check

INFOID:000000009471653

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. Refer to [DLK-53. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
 NO >> Refer to [DLK-77. "Diagnosis Procedure".](#)

Diagnosis Procedure

INFOID:000000009471654

Regarding Wiring Diagram information, refer to [DLK-150. "Wiring Diagram".](#)

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		Key position	Voltage (V) (Approx.)
(+)	(-)		
Main power window and door lock/unlock switch connector	Terminal	Ground	Lock
			Neutral / Unlock
D7	4		Unlock
	6		Neutral / Lock
			0
			5
			0
			5

Is the inspection result normal?

- YES >> GO TO 3
 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.
- Check continuity between main power window and door lock/unlock switch connector and front door lock assembly LH (key cylinder switch) connector.

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KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Main power window and door lock/unlock switch connector	Terminal	Front door lock assembly LH (key cylinder switch) connector	Terminal	Continuity
D7	4	D10	6	Yes
	6		5	

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

Power window main switch connector	Terminal	Ground	Continuity
D7	4		
	6		

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		

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-41, "Intermittent Incident"](#).

NO >> Replace front door lock assembly LH (key cylinder switch). Refer to [DLK-221, "FRONT DOOR LOCK : Removal and Installation"](#). After that, Refer to [DLK-79, "Special Repair Requirement"](#).

Component Inspection

INFOID:000000009471655

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

Check front door lock assembly LH (key cylinder switch).

Terminal		Key position	Continuity
Front door lock assembly LH (key cylinder switch) connector			
5	4	Unlock	Yes
		Neutral / Lock	No
6		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 [DLK-221, "FRONT DOOR LOCK : Removal and Installation"](#). After that, refer to [DLK-79, "Special Repair Requirement"](#).

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Special Repair Requirement

INFOID:000000009471656

1. PERFORM INITIALIZATION PROCEDURE

Perform initialization procedure.

Refer to [DLK-12. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-41. "Intermittent Incident"](#).

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UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Description

INFOID:000000009471657

Detects door lock condition of driver door.

Component Function Check

INFOID:000000009471658

1. CHECK FUNCTION

With CONSULT

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

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

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to [DLK-80, "Diagnosis Procedure"](#).

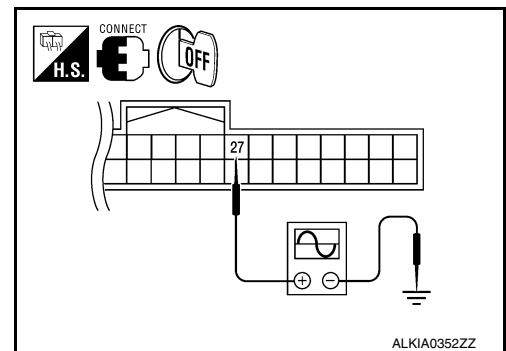
Diagnosis Procedure

INFOID:000000009471659

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1. CHECK UNLOCK SENSOR POWER SUPPLY

Check signal between BCM connector and ground with oscilloscope.



Terminals		Front door lock assembly LH condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M18	27	Locked	<p>JPMIA0011GB</p>
		Unlocked	0

Is the inspection result normal?

YES >> GO TO 6

NO >> GO TO 2

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK UNLOCK SENSOR CIRCUIT

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

BCM connector	Terminal	Front door lock assembly LH connector	Terminal	Continuity
M18	27	D10	3	Yes

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	27		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

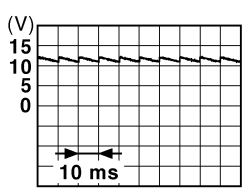
Is the inspection result normal?

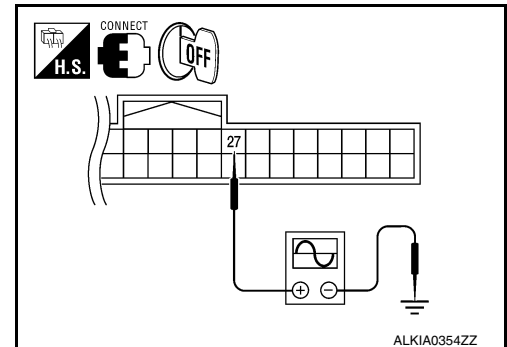
YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

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

Terminals		(-)	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M18	27	Ground	 <p style="text-align: center;">JPMA0011GB</p>



Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#)

5. CHECK UNLOCK SENSOR

Refer to [DLK-82. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace front door lock assembly LH. Refer to [DLK-221. "FRONT DOOR LOCK : Removal and Installation"](#).

6. CHECK INTERMITTENT INCIDENT

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UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471660

1. CHECK UNLOCK SENSOR

Check unlock sensor.

Terminal		Front door lock assembly LH condition	Continuity
Front door lock assembly LH			
3	4	Unlock	Yes
		Lock	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front lock assembly LH. Refer to [DLK-221, "FRONT DOOR LOCK : Removal and Installation"](#).

TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TRUNK LID OPENER SWITCH

Description

INFOID:000000009471661

Transmits trunk lid open signal to BCM.

Component Function Check

INFOID:000000009471662

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

With CONSULT

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

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

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

Is the inspection result normal?

- YES >> Trunk lid opener switch is OK.
- NO >> Refer to [DLK-83. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471663

Regarding Wiring Diagram information, refer to [DLK-177. "Wiring Diagram"](#).

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 trunk lid opener switch	Voltage (V) (Approx.)
(+)		(-)		
BCM connector	Terminal			
M21	147	Ground	ON (press and hold)	0
			OFF (release)	Battery voltage

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.

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TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- 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

- 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		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-41, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471664

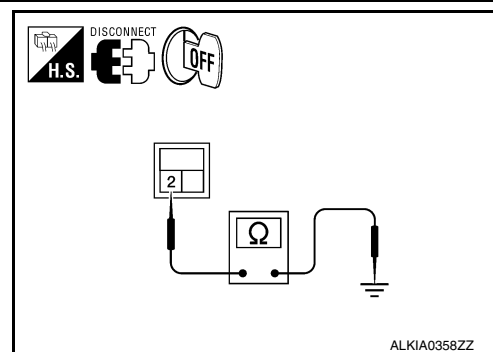
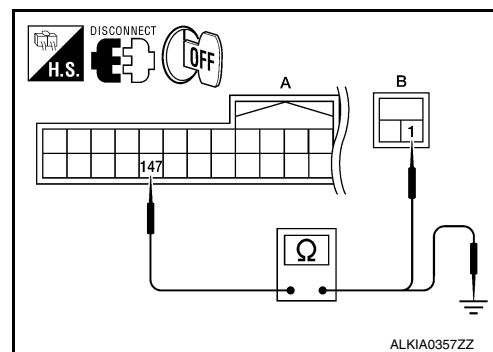
1.CHECK TRUNK LID OPENER SWITCH

- Turn ignition switch OFF.
- Disconnect trunk lid opener switch connector.
- Check continuity between trunk lid opener switch connector.

Terminal		Condition	Continuity
Trunk lid opener switch			
1	2	ON (press and hold)	Yes
		OFF (release)	No

Is the inspection result normal?

- YES >> Inspection End.
 NO >> Replace trunk lid opener switch.



TRUNK LID OPENER CANCEL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TRUNK LID OPENER CANCEL SWITCH

Description

INFOID:000000009471665

Cancels trunk lid open operation.

Component Function Check

INFOID:000000009471666

1.CHECK FUNCTION

With CONSULT

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

Monitor item	Condition
TR CANCEL SW	Trunk lid opener cancel switch is turned to "ON": ON
	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 [DLK-85. "Diagnosis Procedure"](#).

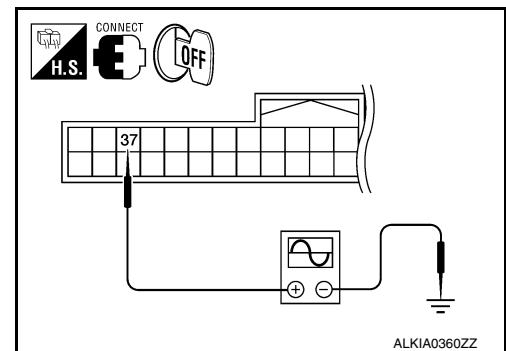
Diagnosis Procedure

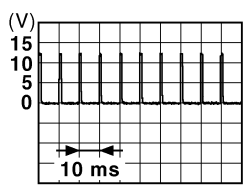
INFOID:000000009471667

Regarding Wiring Diagram information, refer to [DLK-177. "Wiring Diagram"](#).

1.CHECK TRUNK LID OPENER CANCEL SIGNAL

Check voltage between BCM connector and ground.



Terminals		(-)	Condition of trunk lid opener cancel switch	Voltage (V) (Approx.)
(+)	Terminal			
BCM connector			ON	0
M18	37	Ground	OFF (cancel)	

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Is the inspection result normal?

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

TRUNK LID OPENER CANCEL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK TRUNK LID OPENER CANCEL SWITCH CIRCUIT

1. Disconnect BCM connector.
2. 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		No

Is the inspection result normal?

- YES >> GO TO 3
 NO >> Repair harness or connector.

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-86, "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-41, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471668

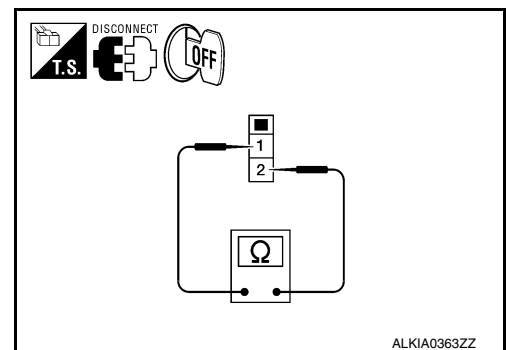
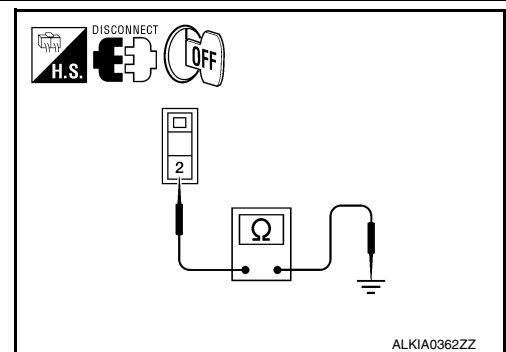
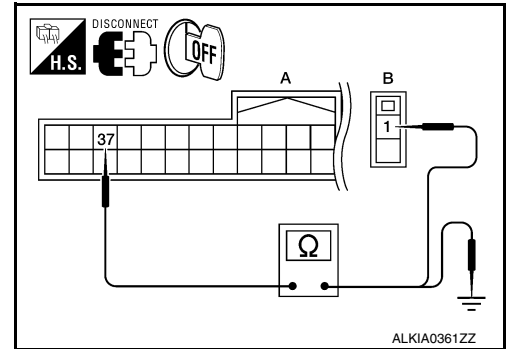
1. CHECK TRUNK LID OPENER CANCEL SWITCH

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

Terminal		Condition	Continuity
Trunk lid opener cancel switch			
1	2	ON	Yes
		OFF (cancel)	No

Is the inspection result normal?

- YES >> Inspection End.



TRUNK LID OPENER CANCEL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace trunk lid opener cancel switch.

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TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TRUNK LAMP SWITCH

Description

INFOID:000000009471669

Detects trunk open/close condition.

Component Function Check

INFOID:000000009471670

1. CHECK FUNCTION

With CONSULT

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

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

Is the inspection result normal?

- YES >> Trunk room lamp switch is OK.
 NO >> Refer to [DLK-88, "Diagnosis Procedure"](#).

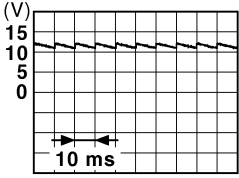
Diagnosis Procedure

INFOID:000000009471671

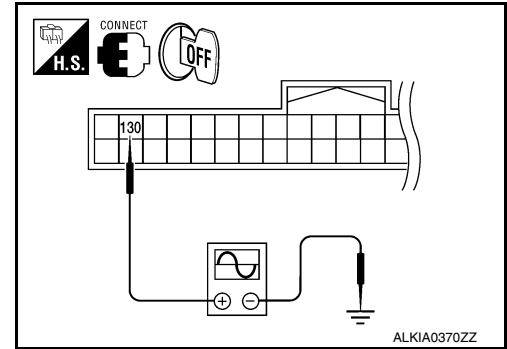
Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1. CHECK TRUNK LAMP SWITCH INPUT SIGNAL

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

Terminals		Trunk condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
M21	130	CLOSE	

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Is the inspection result normal?

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

2. CHECK TRUNK LAMP SWITCH CIRCUIT

- Disconnect BCM connector.

TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- 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.

BCM connector	Terminal	Ground	Continuity
A: M21	130		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	1		Yes

Is the inspection result normal?

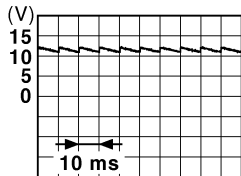
YES >> GO TO 4

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

4.CHECK BCM OUTPUT SIGNAL

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

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
M21	130	Ground



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Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

5.CHECK TRUNK ROOM LAMP SWITCH

Refer to [DLK-90. "Component Inspection"](#).

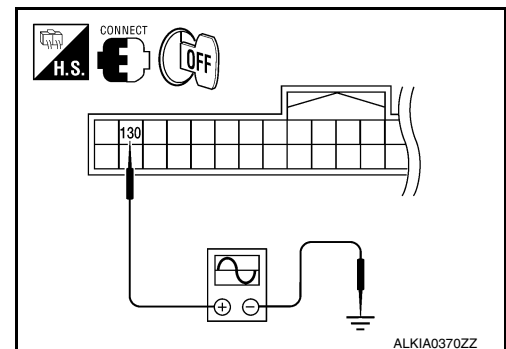
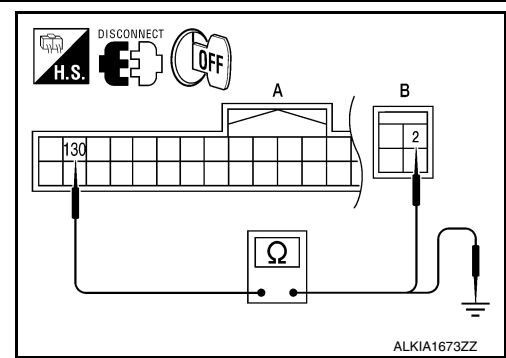
Is the inspection result normal?

YES >> GO TO 6

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

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).



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TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

>> Inspection End.

Component Inspection

INFOID:000000009471672

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

Is the inspection result normal?

- YES >> Inspection End.
NO >> Replace trunk lamp switch and trunk release solenoid.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Description

INFOID:000000009471673

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000009471674

1. CHECK FUNCTION

With CONSULT

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 [DLK-91, "Diagnosis Procedure"](#).

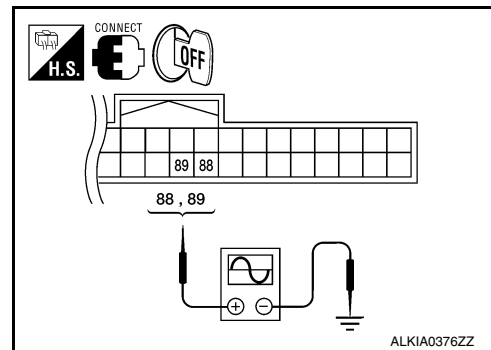
Diagnosis Procedure

INFOID:000000009471675

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

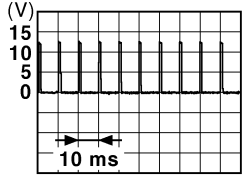
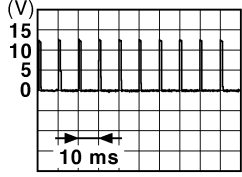
1. CHECK DOOR REQUEST SWITCH OUTPUT SIGNAL

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



DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Terminals			Door request switch Condition	Voltage (V) (Approx.)
(+)		(-)		
BCM connector	Terminal			
M19	Door request switch (driver side)	89	Pressed	0
			Released	
	Door request switch (passenger side)	88	Pressed	0
			Released	
			Ground	

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
M19	89	D15 (driver side)	3	Yes
	88	D115 (passenger side)		

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M19	89		
	88		

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

Check continuity between front outside handle connector and ground.

Front outside handle connector	Terminal	Ground	Continuity
D15 (driver side)	4		
D115 (passenger side)			

Is the inspection result normal?

- YES >> GO TO 4

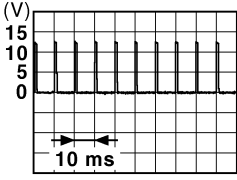
DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

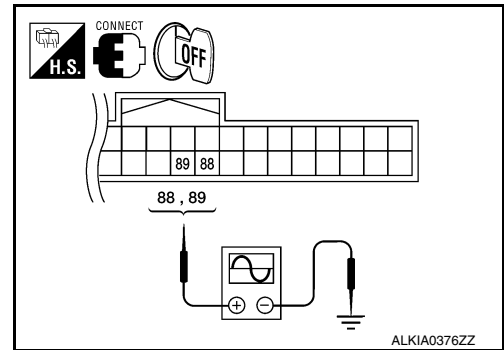
NO >> Repair or replace front outside handle ground circuit.

4. CHECK BCM OUTPUT SIGNAL

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

Terminals		(-)	Voltage (V) (Approx.)
(+) BCM connector			
Terminal			
M19	89	Ground	
	88		

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Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-79. "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-41. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471676

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1. CHECK DOOR REQUEST SWITCH

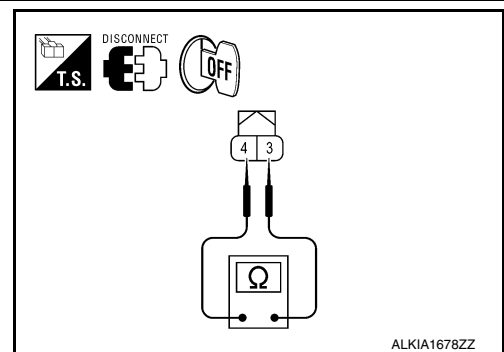
Check front outside handle (request switch).

Terminal		Door request switch condition	Continuity
Front outside handle (request switch)			
3	4	Pressed	Yes
		Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunction front outside handle.



TRUNK OPENER REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

TRUNK OPENER REQUEST SWITCH

Description

INFOID:000000009471677

Performs trunk lid open request when it is pressed.

Component Function Check

INFOID:000000009471678

1. CHECK FUNCTION

With CONSULT

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
	Trunk opener request switch is released : OFF

Is the inspection result normal?

- YES >> Trunk opener request switch is OK.
- NO >> Refer to [DLK-94, "Diagnosis Procedure"](#).

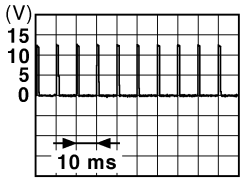
Diagnosis Procedure

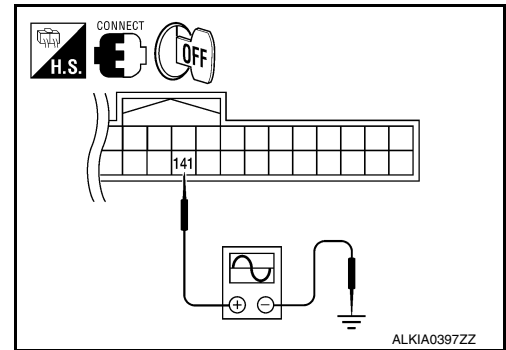
INFOID:000000009471679

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1. CHECK TRUNK OPENER REQUEST SWITCH OUTPUT SIGNAL

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

Terminals		Trunk lid opener request switch condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Pressed	0
M21	141	Released	 <p style="text-align: right; font-size: small;">JPMA0016GB</p>



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

BCM connector	Terminal	Trunk opener request switch connector	Terminal	Continuity
M21	141	T5	1	Yes

3. Check continuity between BCM connector and ground.

TRUNK OPENER REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
M21	141		No

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
T5	2		Yes

Is the inspection result normal?

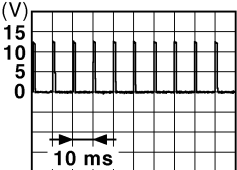
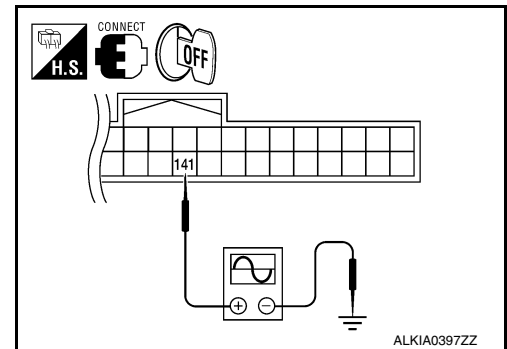
YES >> GO TO 4

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

4.CHECK BCM OUTPUT SIGNAL

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

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
M21	141	Ground

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

5.CHECK TRUNK OPENER REQUEST SWITCH

Refer to [DLK-95. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk opener request switch.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471680

1.CHECK TRUNK OPENER REQUEST SWITCH

Check trunk opener request switch.

TRUNK OPENER REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk opener request switch.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000009471681

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000009471682

1.CHECK FUNCTION

1. Use CONSULT 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-97. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009471683

Regarding Wiring Diagram information, refer to [DLK-150. "Wiring Diagram"](#).

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	Terminal			
BCM connector M17	8	Ground	Lock	0 → Battery voltage → 0
	9		Unlock	0 → Battery voltage → 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.
3. Check continuity between BCM connector and front door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M17	8	D10	1	Yes
	9		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M17	8	No
	9	

Is the inspection result normal?

- YES >> Replace front door lock actuator LH.
NO >> Repair or replace harness.

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000009471684

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000009471685

1. CHECK FUNCTION

1. Use CONSULT 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-98. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009471686

Regarding Wiring Diagram information, refer to [DLK-150. "Wiring Diagram"](#).

1. CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M17	8	Lock	0 → Battery voltage → 0
	5	Unlock	0 → Battery voltage → 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 RH connectors.
3. Check continuity between BCM connector and front door lock actuator RH.

BCM connector	Terminal	Front door lock actuator RH connector	Terminal	Continuity
M17	8	D108	5	Yes
	5		6	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity	
M17	8	Ground	No
	5		

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace front door lock actuator RH.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

REAR LH

REAR LH : Description

INFOID:000000009471687

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000009471688

1.CHECK FUNCTION

1. Use CONSULT 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-99. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000009471689

Regarding Wiring Diagram information, refer to [DLK-150. "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M17	8	Lock	0 → Battery voltage → 0
	10	Unlock	0 → Battery voltage → 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 rear door lock actuator LH connectors.
3. Check continuity between BCM connector and rear door lock actuator LH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M17	8	D205	1	Yes
	10		2	

4. Check continuity between BCM connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal		Continuity
M17	8	Ground	No
	10		

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

REAR RH

REAR RH : Description

INFOID:000000009471690

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000009471691

1.CHECK FUNCTION

1. Use CONSULT 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-100, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000009471692

Regarding Wiring Diagram information, refer to [DLK-150, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M17	8	Lock	0 → Battery voltage → 0
	10	Unlock	0 → Battery voltage → 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 rear door lock actuator RH connectors.
3. Check continuity between BCM connector and rear door lock actuator RH connectors.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M17	8	D305	5	Yes
	10		6	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M17	8	Ground
	10	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

FUEL FILLER LID LOCK ACTUATOR

FUEL FILLER LID LOCK ACTUATOR : Description

INFOID:000000009471693

Locks/unlocks the door with the signal from BCM.

FUEL FILLER LID LOCK ACTUATOR : Component Function Check

INFOID:000000009471694

1.CHECK FUNCTION

1. Use CONSULT 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-101. "FUEL FILLER LID LOCK ACTUATOR : Diagnosis Procedure"](#).

FUEL FILLER LID LOCK ACTUATOR : Diagnosis Procedure

INFOID:000000009471695

Regarding Wiring Diagram information, refer to [DLK-150. "Wiring Diagram"](#).

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M17	8	Lock	0 → Battery voltage → 0
	9	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 2

2.CHECK FUEL LID DOOR LOCK ACTUATOR CIRCUIT

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM and fuel lid door lock actuator connector.
3. Check continuity between BCM connector and fuel lid door lock actuator connector.

BCM connector	Terminal	fuel lid door lock actuator connector	Terminal	Continuity
M17	9	B27	1	Yes
	8		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity	
M17	8	Ground	No
	9		

Is the inspection result normal?

- YES >> Replace fuel lid door lock actuator.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

TRUNK RELEASE SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

TRUNK RELEASE SOLENOID

Description

INFOID:000000009471696

Performs trunk lid open with signal from BCM.

Component Function Check

INFOID:000000009471697

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.
2. Touch "OPEN" and check that trunk lid opens.

Is the inspection result normal?

- YES >> Trunk lid opener actuator is OK.
- NO >> Refer to [DLK-103, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471698

Regarding Wiring Diagram information, refer to [DLK-177, "Wiring Diagram"](#).

1.CHECK OUTPUT CIRCUIT

1. 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.

Terminals		(-)	Condition of trunk lid opener switch	Voltage (V) (Approx.)
(+)	Terminal			
Trunk lamp switch and trunk release solenoid connector	Terminal	Ground	OFF → ON	0 → Battery voltage → 0
T7	4	Ground	OFF → ON	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> GO TO 3
- NO >> GO TO 2

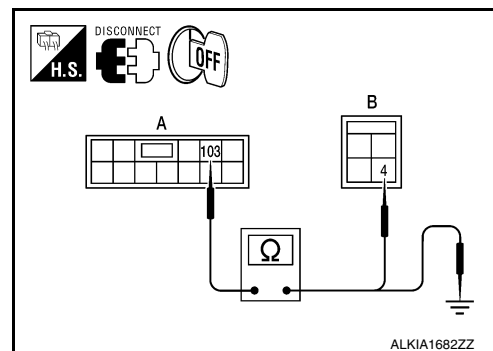
2.CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM.
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: T7	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
A: M20	103 Ground	No



TRUNK RELEASE SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.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
T7	3	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

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:000000009471699

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:000000009471700

1. CHECK FUNCTION

With CONSULT

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 [DLK-105, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471701

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check voltage between BCM connector and ground.

Terminals			Warning buzzer operation condition	Voltage (V) (Approx.)
(+)		(-)		
BCM connector	Terminal			
M21	144	Ground	ON	0
			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

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

Terminals			Voltage (V) (Approx.)
(+)		(-)	
Intelligent Key warning buzzer connector	Terminal		
E28	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.
2. Check continuity between BCM connector and Intelligent Key warning buzzer connector.

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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Intelligent Key warning buzzer connector	Terminal	Continuity
M21	144	E28	3	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M21	144		No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness between BCM and Intelligent Key warning buzzer.

4.CHECK INTELLIGENT KEY WARNING BUZZER

Check [DLK-106. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace Intelligent Key warning buzzer.

5.CHECK INTERMITTENT INCIDENT

Check [GI-41. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009471702

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

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA

Description

INFOID:000000009471703

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:000000009471704

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

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 [DLK-107, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471705

NOTE:

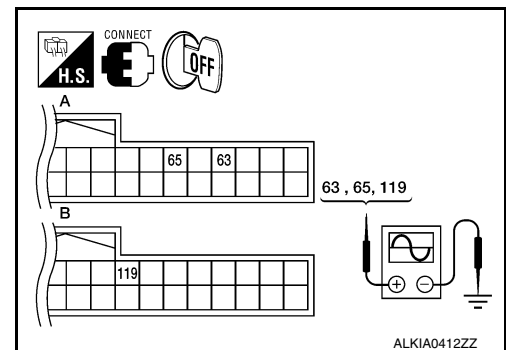
The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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



OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

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

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

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

- Check continuity between BCM connector and ground.

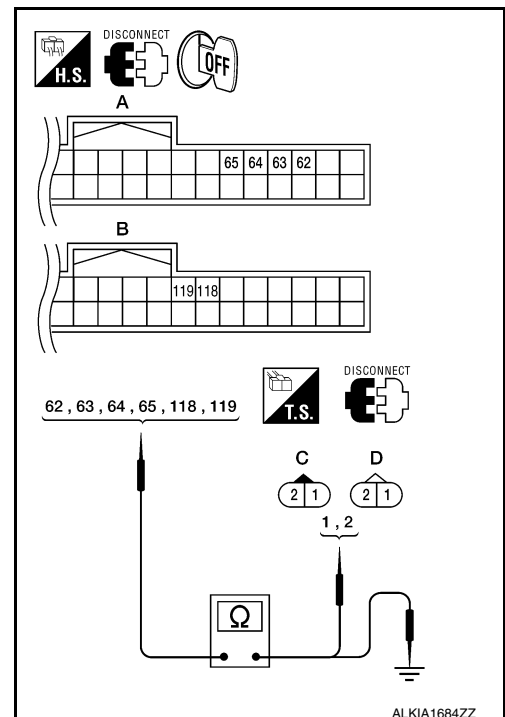
BCM connector	Terminal	Continuity
A: M19	62	Ground No
	63	
	64	
	65	
B: M21	118	Ground No
	119	

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

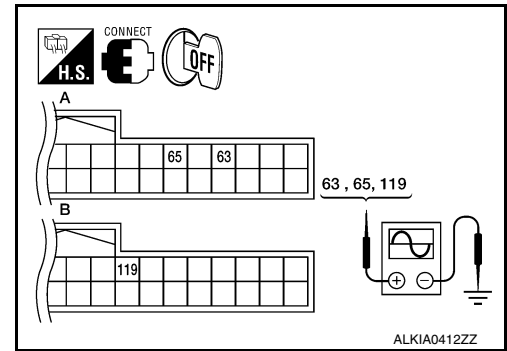
- Replace outside key antenna. (new antenna or other antenna)
- Connect BCM and outside key antenna connector.



OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

- Check signal between BCM connector and ground with oscilloscope.



Terminals			(-)	Condition	Signal (Reference value.)
(+) BCM connector		Terminal			
A: M19	Driver side Passenger side	65 63			
B: M21	Rear bumper	119	When Intelligent Key is not in the antenna detection area.		

Is the inspection result normal?

- YES >> Replace outside key antenna.
- NO >> GO TO 4

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:000000009471706

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:000000009471707

1. CHECK FUNCTION

With CONSULT

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

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-110. "Diagnosis Procedure"](#).

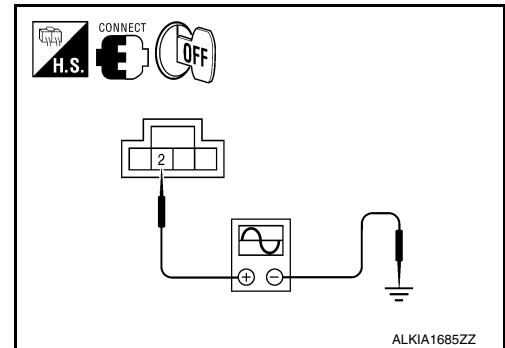
Diagnosis Procedure

INFOID:000000009471708

Regarding Wiring Diagram information, refer to [DLK-161. "Wiring Diagram"](#).

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.



REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

Terminals			Condition	Signal (Reference value)
(+) Remote keyless entry receiver connector		(-)		
Terminal				
M27	2	Ground	Waiting (All doors closed)	<p>JMKIA0064GB</p>
			When signal is received (All doors closed)	<p>JMKIA0065GB</p>

Is the inspection result normal?

- 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 voltage between remote keyless entry receiver connector and ground.

Terminals			Voltage (Reference value)
(+) Remote keyless entry receiver connector		(-)	
Terminal			
M27	4	Ground	Battery

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.

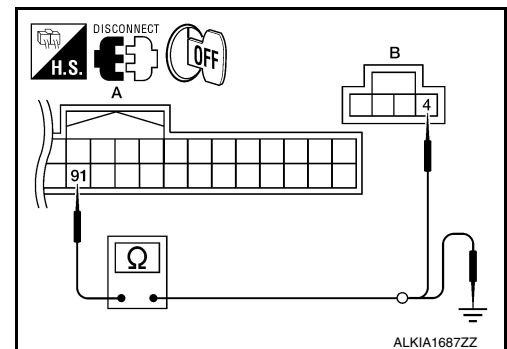
BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	91	B: M27	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	91		No

Is the inspection result normal?

- YES >> Reconnect BCM, GO TO 4
- NO >> Repair or replace harness between BCM and remote keyless entry receiver.



REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

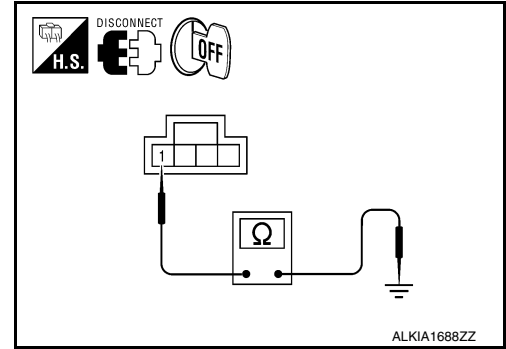
4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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



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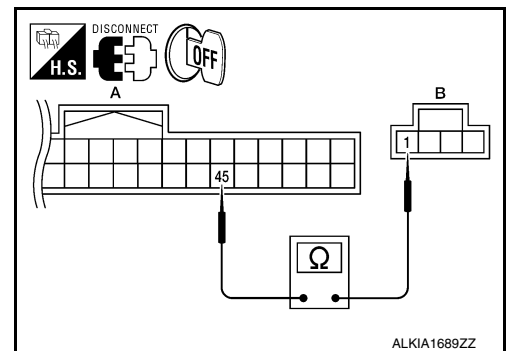
5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

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.



ALKIA1689ZZ

6. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

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

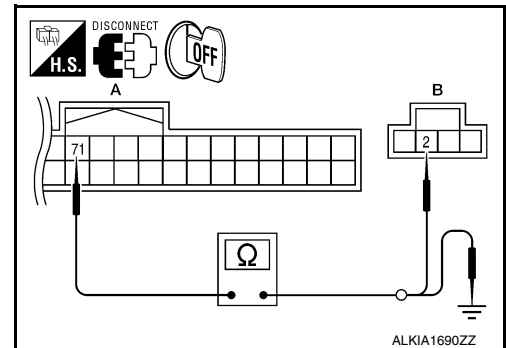
BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
A: M19	71	B: M27	2	Yes

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	71		No

Is the inspection result normal?

- YES >> GO TO 7
- NO >> Repair or replace harness between BCM and remote keyless entry.



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7. CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY

Description

INFOID:000000009471709

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:000000009471710

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

1. CHECK FUNCTION

With CONSULT

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

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.
- NO >> Refer to [DLK-113, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471711

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

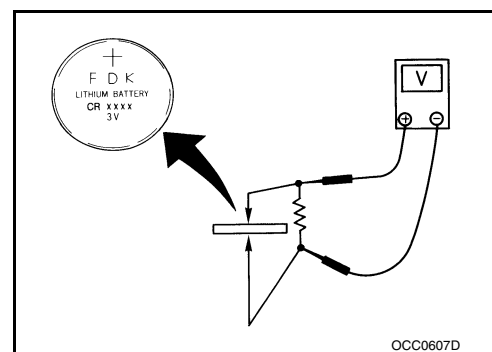
1. CHECK INTELLIGENT KEY BATTERY

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 >> GO TO 2
- NO >> Replace Intelligent Key battery. Refer to [DLK-233, "Removal and Installation"](#).



2. CHECK KEYFOB FUNCTION

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INTELLIGENT KEY

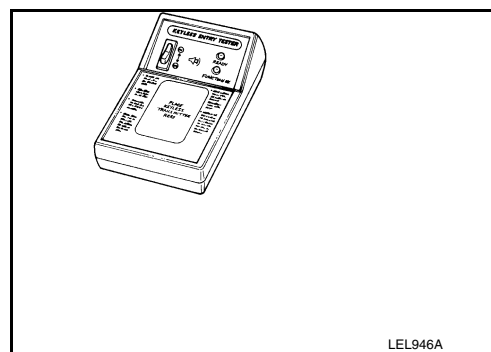
< DTC/CIRCUIT DIAGNOSIS >

Check keyfob function using Signal Tech II Tool J-50190 or Remote Keyless Entry Tester J-43241 (shown).

Does the test pass?

YES >> Keyfob is OK.

NO >> Replace keyfob. Refer to CONSULT Immobilizer mode and follow the on-screen instructions.



KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT ILLUMINATION

Description

INFOID:000000009471712

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:000000009471713

1.CHECK FUNCTION

With CONSULT

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 [DLK-115, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471714

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1.CHECK KEY SLOT ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot connector and ground.

Terminals			Condition	Key slot illumination	Voltage (V) (Approx.)
(+)		(-)			
Key slot connector	Terminal				
M40	6	Ground	Intelligent Key inserted	OFF	Battery voltage
			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.
2. Disconnect key slot connector.
3. Check voltage between slot connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(-)	
Key slot connector	Terminal		
M40	1	Ground	Battery voltage
	5		

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

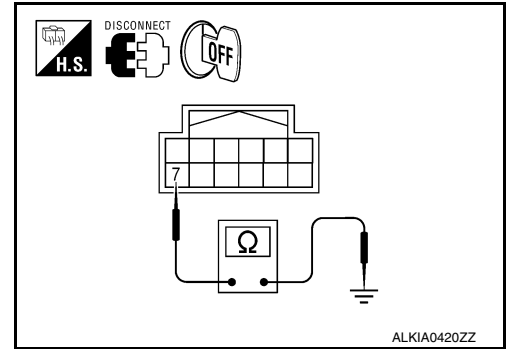
< DTC/CIRCUIT DIAGNOSIS >

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. Disconnect BCM and key slot connector.
2. Check continuity between BCM connector and key slot connector.

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

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
A: M19	80		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-76, "Component Inspection"](#).

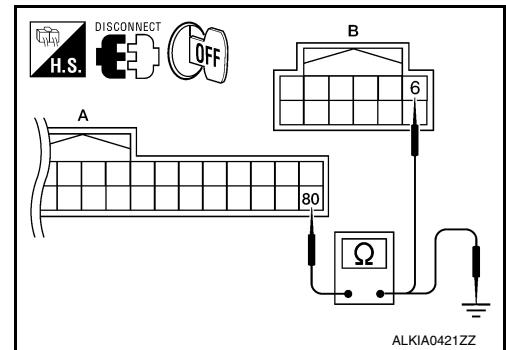
Is the inspection result normal?

- YES >> GO TO 6
 NO >> Replace key slot.

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.



HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HORN FUNCTION

Description

INFOID:000000009471715

Perform answer-back for each operation with horn.

Component Function Check

INFOID:000000009471716

1.CHECK FUNCTION

1. Select HORN in "ACTIVE TEST" mode with CONSULT.
2. 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 >> Go to [DLK-117, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471717

Regarding Wiring Diagram information, refer to [DLK-161, "Wiring Diagram"](#).

1.CHECK HORN FUNCTION

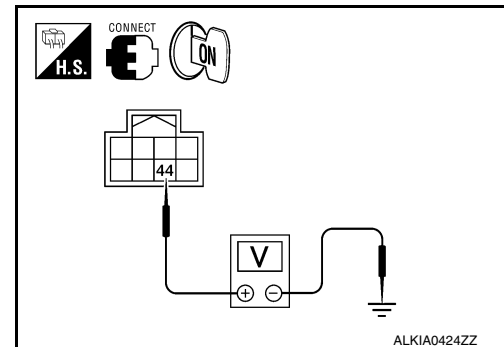
Check horn function with horn switch

Does the horn sound?

- YES >> GO TO 2
 NO >> Refer to [DLK-161, "Wiring Diagram"](#).

2.CHECK HORN RELAY POWER SUPPLY

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



IPDM E/R		Ground	Test item	Voltage (V) (Approx.)
Connector	Terminal			
E17	44	Ground	HORN	Battery voltage → 0 → Battery voltage
			Other than above	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3
 NO >> Replace IPDM E/R. Refer to [PCS-35, "Removal and Installation"](#).

3.CHECK INTERMITTENT INCIDENT

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HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

Refer to [GI-41, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace IPDM E/R. Refer to [PCS-35, "Removal and Installation"](#).
- NO >> Repair or replace the malfunctioning part.

COMBINATION METER DISPLAY FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION METER DISPLAY FUNCTION

Description

INFOID:000000009471718

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:000000009471719

1.CHECK FUNCTION

With **CONSULT**

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 [DLK-119, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471720

1.CHECK COMBINATION METER

Refer to [MWI-51, "DTC Index"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Check combination meter. Refer to [MWI-29, "Diagnosis Description"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

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DLK

WARNING CHIME FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

WARNING CHIME FUNCTION

Description

INFOID:000000009471721

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000009471722

1. CHECK FUNCTION

With CONSULT

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 [DLK-120, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471723

1. CHECK METER BUZZER CIRCUIT

Refer to [WCS-20, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2
NO >> Replace combination meter. Refer to [MWI-122, "Removal and Installation"](#).

2. CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Description

INFOID:000000009471724

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

Component Function Check

INFOID:000000009471725

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 [DLK-121, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009471726

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-56, "Diagnosis Procedure"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

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HOMELINK UNIVERSAL TRANSCEIVER

< DTC/CIRCUIT DIAGNOSIS >

HOMELINK UNIVERSAL TRANSCEIVER

Description

INFOID:000000009471727

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 Function Check

INFOID:000000009471728

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 [DLK-122. "Diagnosis Procedure"](#).

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. "Removal and Installation"](#).

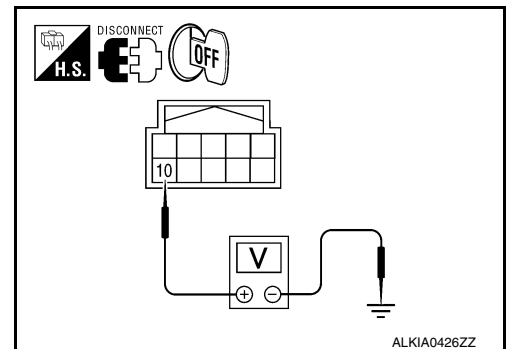
Diagnosis Procedure

INFOID:000000009471729

Regarding Wiring Diagram information, refer to [DLK-181. "Wiring Diagram"](#).

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

HOMELINK UNIVERSAL TRANSCEIVER

< DTC/CIRCUIT DIAGNOSIS >

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

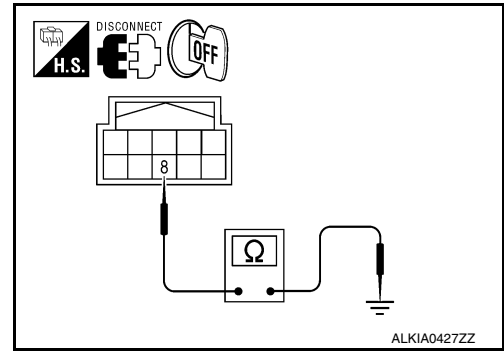
Check continuity between auto anti-dazzling inside mirror (homelink universal transceiver) harness connector and ground.

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

Is the inspection result normal?

YES >> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to [MIR-18. "Removal and Installation"](#).

NO >> Repair or replace harness.



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000010057369

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
FR WIPER STOP	Front wiper is not in STOP position	OFF
	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
	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
	Front fog lamp switch ON	ON
DOOR SW-DR	Driver door closed	OFF
	Driver door opened	ON

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
DOOR SW-AS	Passenger door closed	OFF	A
	Passenger door opened	ON	
DOOR SW-RR	Rear door RH closed	OFF	B
	Rear door RH opened	ON	
DOOR SW-RL	Rear door LH closed	OFF	C
	Rear door LH opened	ON	
DOOR SW-BK	Trunk door closed	OFF	D
	Trunk door opened	ON	
CDL LOCK SW	Other than power door lock switch LOCK	OFF	E
	Power door lock switch LOCK	ON	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF	F
	Power door lock switch UNLOCK	ON	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF	G
	Driver door key cylinder LOCK position	ON	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF	H
	Driver door key cylinder UNLOCK position	ON	
HAZARD SW	When hazard switch is not pressed	OFF	I
	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	J
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF	
	Trunk lid opener cancel switch ON	ON	
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF	
	While the trunk lid opener switch is turned ON	ON	
TRNK/HAT MNTR	Trunk lid closed	OFF	
	Trunk lid opened	ON	
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF	DLK
	When LOCK button of Intelligent Key is pressed	ON	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF	L
	When UNLOCK button of Intelligent Key is pressed	ON	
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	M
	When TRUNK OPEN button of Intelligent Key is pressed	ON	
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF	N
	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	O
	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	P
	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V	
	When outside of the vehicle is dark	Close to 0 V	
REQ SW -DR	When front door request switch is not pressed (driver side)	OFF	
	When front door request switch is pressed (driver side)	ON	
REQ SW -AS	When front door request switch is not pressed (passenger side)	OFF	
	When front door request switch is pressed (passenger side)	ON	

BCM (BODY CONTROL MODULE)

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Monitor Item	Condition	Value/Status
REQ SW -RL	When rear door request switch is not pressed (driver side)	OFF
	When rear door request switch is pressed (driver side)	ON
REQ SW -RR	When rear door request switch is not pressed (passenger side)	OFF
	When rear door request switch is pressed (passenger side)	ON
REQ SW -BD/TR	When trunk opener request switch is not pressed	OFF
	When trunk opener request switch is pressed	ON
PUSH SW	When engine switch (push switch) is not pressed	OFF
	When engine switch (push switch) is pressed	ON
IGN RLY2 -F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
ACC RLY -F/B	Ignition switch OFF	OFF
	Ignition switch ACC or ON	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN/N SW	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
UNLK SEN -DR	Driver door UNLOCK status	OFF
	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
IGN RLY1 -F/B	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
DETE SW -IPDM	When selector lever is in P position	OFF
	When selector lever is in any position other than P	ON
SFT PN -IPDM	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
SFT P -MET	When selector lever is in any position other than P	OFF
	When selector lever is in P position	ON
SFT N -MET	When selector lever is in any position other than N	OFF
	When selector lever is in N position	ON
ENGINE STATE	Engine stopped	STOP
	While the engine stalls	STALL
	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door LOCK status	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
DOOR STAT-AS	Passenger door LOCK status	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK

BCM (BODY CONTROL MODULE)

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Monitor Item	Condition	Value/Status	
ID OK FLAG	Ignition switch ACC or ON	RESET	A
	Ignition switch OFF	SET	
PRMT ENG STRT	When the engine start is prohibited	RESET	B
	When the engine start is permitted	SET	
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF	C
	When Intelligent Key is inserted into key slot	ON	
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET	D
	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	E
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE	F
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET	G
	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	H
	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	I
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE	J
TP 4	The ID of fourth key is not registered to BCM	YET	DLK
	The ID of fourth key is registered to BCM	DONE	
TP 3	The ID of third key is not registered to BCM	YET	L
	The ID of third key is registered to BCM	DONE	
TP 2	The ID of second key is not registered to BCM	YET	M
	The ID of second key is registered to BCM	DONE	
TP 1	The ID of first key is not registered to BCM	YET	N
	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	O
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire	P
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	
	When ID of front LH tire transmitter is not registered	YET	
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE	
	When ID of front RH tire transmitter is not registered	YET	
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE	
	When ID of rear RH tire transmitter is not registered	YET	

BCM (BODY CONTROL MODULE)

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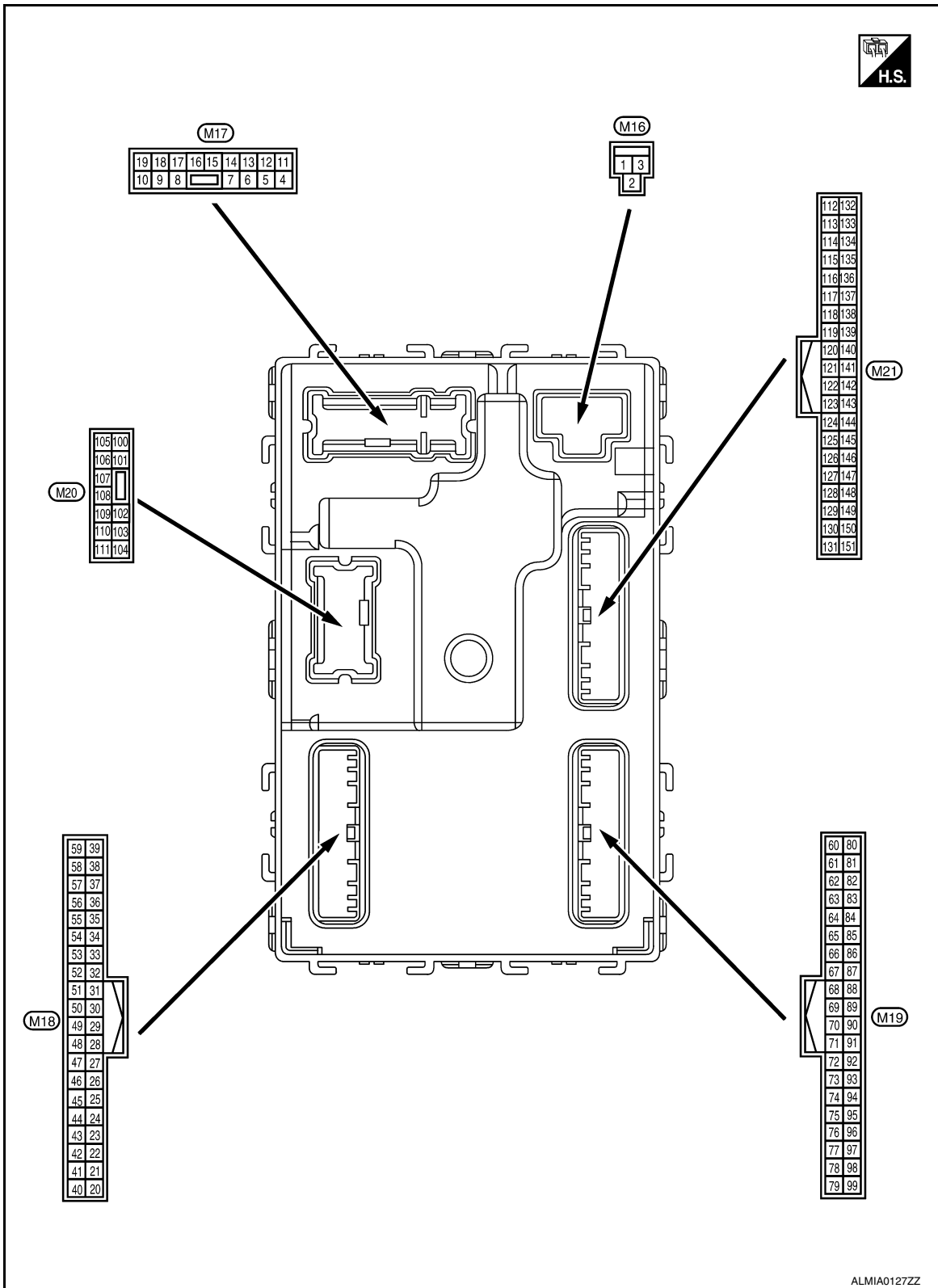
Monitor Item	Condition	Value/Status
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
	Tire pressure warning alarm is sounding	ON

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal Layout

INFOID:0000000110057370



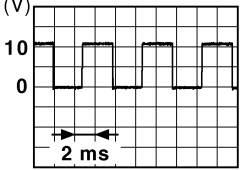
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Physical Values

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
(+)	(-)					
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFF		Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4 (P/W)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
5 (G)	Ground	Front door RH UNLOCK	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
7 (R/W)	Ground	Step lamp	Output	Step lamp	ON	0V
					OFF	Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
					Other than LOCK (actuator is not activated)	0V
9 (L)	Ground	Front door LH UNLOCK	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
10 (G)	Ground	Rear door RH and rear door LH UNLOCK	Output	Rear door RH and rear door LH	UNLOCK (actuator is activated)	Battery voltage
					Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0V
14 (GR/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	0V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
					ACC or ON	0V

BCM (BODY CONTROL MODULE)

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch RH	0V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch LH	0V
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF
				ON	Battery voltage
21 (P/B)	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehicle is bright
				When outside of the vehicle is dark	Close to 0V
24 (R/W)	Ground	Stop lamp switch 1	Input	—	Battery voltage
26 (O/L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is released)
				ON (brake pedal is depressed)	Battery voltage
27 (O)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status
				UNLOCK status	0V
29 (Y)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot	Battery voltage
				When Intelligent Key is not inserted into key slot	0V
31 (G)	Ground	Rear window defogger feedback signal	Input	Rear window defogger switch	OFF
				ON	Battery voltage

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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
(+)	(-)	Signal name	Input/ Output			
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	<p style="text-align: right; font-size: small;">JPMA0011GB</p> <p style="text-align: center;">11.8 V</p>
					ON (when front door RH opens)	0V
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	<p style="text-align: right; font-size: small;">JPMA0012GB</p> <p style="text-align: center;">1.1V</p>
					ON	0V
38 (GR/W)	Ground	Rear window defogger ON signal	Input	Rear window defogger switch	OFF	5V
					ON	0V
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON	<p style="text-align: right; font-size: small;">JPMA0013GB</p> <p style="text-align: center;">10.2V</p>	
				Ignition switch OFF or ACC	0V	
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illumination	ON	5.5V
					OFF	0V
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0V
					OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON	0V	
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF	0V
					ACC or ON	5.0V

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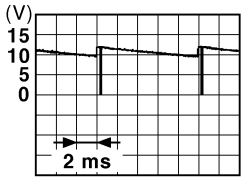
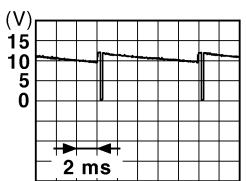
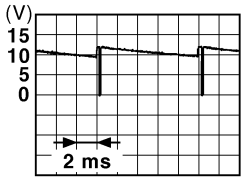
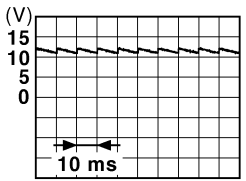
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	<p style="text-align: right;">OCC3881D</p>	
				When receiving the signal from the transmitter	<p style="text-align: right;">OCC3880D</p>	
48 (R/G)	Ground	Selector lever transmission range switch signal	Input	Selector lever	P or N position 12.0V	
					Except P and N positions 0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	ON 0V	
				Blinking	<p style="text-align: right;">JPMA0014GB</p> <p style="text-align: center;">11.3V</p>	
50 (LG/B)	Ground	Combination switch OUTPUT 5	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF 0V	
					Lighting switch 1ST	<p style="text-align: right;">JPMA0031GB</p> <p style="text-align: center;">10.7V</p>
					Lighting switch high-beam	
					Lighting switch 2ND	
	Turn signal switch RH					
51 (L/W)	Ground	Combination switch OUTPUT 1	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) 0V	
					Front wiper switch HI (Wiper intermittent dial 4)	<p style="text-align: right;">JPMA0032GB</p> <p style="text-align: center;">10.7V</p>
				Any of the conditions below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
52 (G/B)	Ground	Combination switch OUTPUT 2	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON (Wiper intermittent dial 4)	
					Any of the conditions below with all switch OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
					10.7V	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
					Front wiper switch INT	
					Front wiper switch LO	
					Lighting switch AUTO	
					10.7V	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0V
					Front fog lamp switch ON	
					Lighting switch 2ND	
					Lighting switch flash-to- pass	
					10.7V	
57 (W)	Ground	Tire pressure warn- ing check switch	Input	—	5V	
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	
					ON (front door LH OPEN)	
59 (G/R)	Ground	Rear window defog- ger relay	Output	Rear window de- fogger	Active	Battery voltage
				Not activated	0V	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

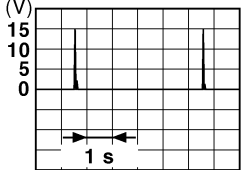
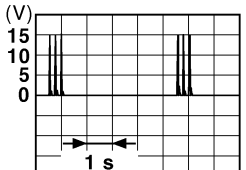
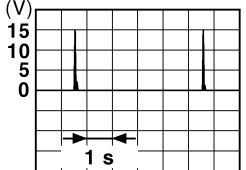
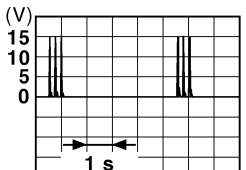
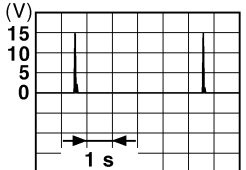
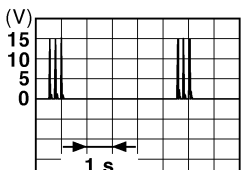
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
60 (B/R)	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
61 (W/R)	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
62 (V)	Ground	Front outside handle RH antenna (-)	Output	When the front door RH request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

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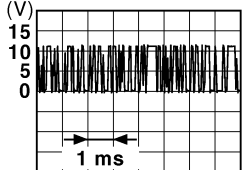
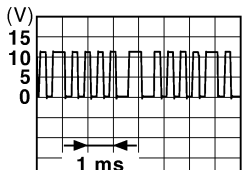
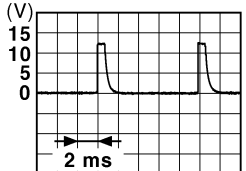

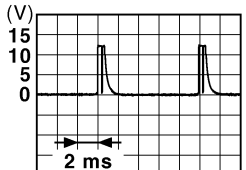
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
63 (P)	Ground	Front outside handle RH antenna (+)	Output	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the front door RH request switch is operat- ed with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
64 (V)	Ground	Front outside handle LH antenna (-)	Output	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the front door LH request switch is operat- ed with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
65 (P)	Ground	Front outside handle LH antenna (+)	Output	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the front door LH request switch is operat- ed with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

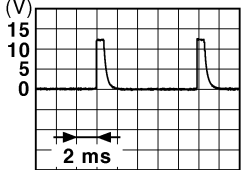
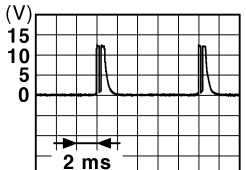

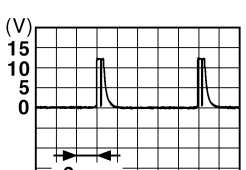
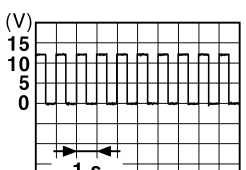
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
(+)	(-)					
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition 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 Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		 <p style="text-align: right; font-size: small;">JMKIA0064GB</p>
				When operating either button on Intelligent Key		 <p style="text-align: right; font-size: small;">JMKIA0065GB</p>
75 (R/Y)	Ground	Combination switch INPUT 5	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
					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	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p>

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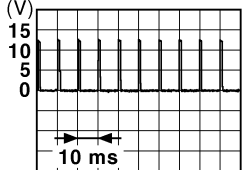
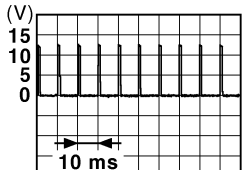
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
76 (R/G)	Ground	Combination switch INPUT 3	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4V</p>
					Lighting switch high-beam (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3V</p>
					Any of the conditions below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3V</p>
78 (P)	Ground	CAN-L	Input/ Output	—	—	
79 (L)	Ground	CAN-H	Input/ Output	—	—	
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	Battery voltage
					Blinking	 <p style="text-align: right; font-size: small;">JPMIA0015GB</p> <p style="text-align: center;">6.5V</p>
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	ON	0V
					OFF or ACC	0V
					ON	Battery voltage

BCM (BODY CONTROL MODULE)

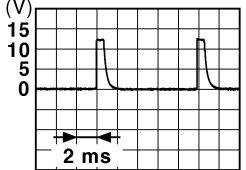

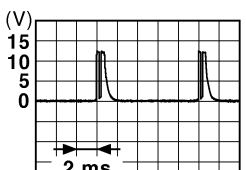
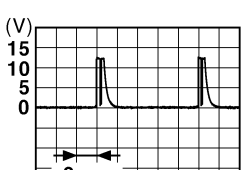
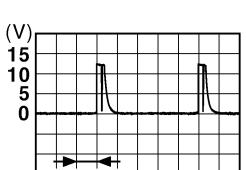
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
(+)	(-)					
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0V
					ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output	—		Battery voltage
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0V
					Any position other than P	Battery voltage
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V
					OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
90 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0V
					ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

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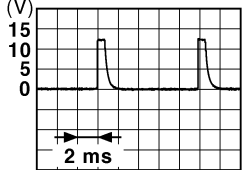
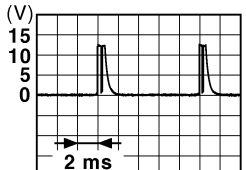
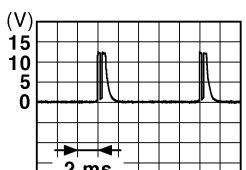
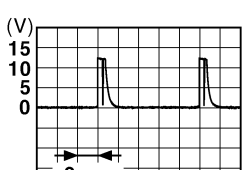
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF <div style="text-align: right;">  <p>1.4V</p> </div>
					Turn signal switch LH <div style="text-align: right;">  <p>1.3V</p> </div>
					Turn signal switch RH <div style="text-align: right;">  <p>1.3V</p> </div>
					Front wiper switch LO <div style="text-align: right;">  <p>1.3V</p> </div>
					Front washer switch ON <div style="text-align: right;">  <p>1.3V</p> </div>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

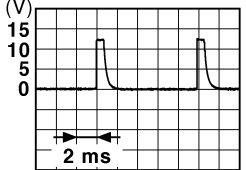

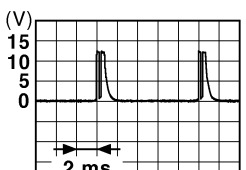
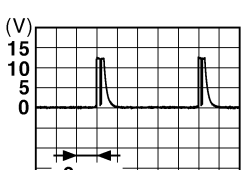
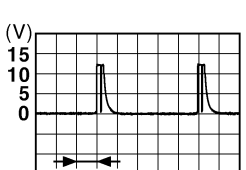
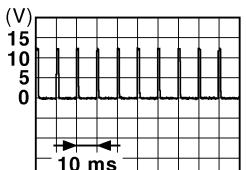
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
96 (P/B)	Ground	Combination switch INPUT 4	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0041GB</p> <p style="margin: 0;">1.4V</p> </div>
				Lighting switch AUTO (Wiper intermittent dial 4)	<div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0038GB</p> <p style="margin: 0;">1.3V</p> </div>
				Lighting switch 1ST (Wiper intermittent dial 4)	<div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0036GB</p> <p style="margin: 0;">1.3V</p> </div>
				Any of the conditions below with all switch OFF	<div style="text-align: right;">  <p style="font-size: small; margin: 0;">JPMIA0039GB</p> <p style="margin: 0;">1.3V</p> </div>

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
97 (R/B)	Ground	Combination switch INPUT 2	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right;">1.4V</p>
					Lighting switch flash-to-pass	 <p style="text-align: right;">1.3V</p>
					Lighting switch 2ND	 <p style="text-align: right;">1.3V</p>
					Front wiper switch INT	 <p style="text-align: right;">1.3V</p>
					Front wiper switch HI	 <p style="text-align: right;">1.3V</p>
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	 <p style="text-align: right;">1.1V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
(+)	(-)	Signal name	Input/ Output			
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)	0V
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
					OFF	Battery voltage
114 (B)	Ground	Trunk room antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	
115 (W)	Ground	Trunk room antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	
					When Intelligent Key is not in the passenger compartment	

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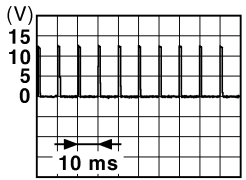
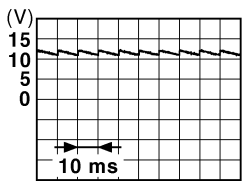
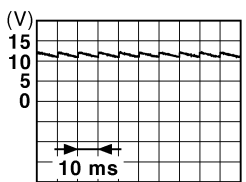
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
(+)	(-)	Signal name	Input/ Output		
118 (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
119 (BR/W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
127 (BR/W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC Battery voltage ON 0V
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	<p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8V</p>
				ON (trunk is open)	0V
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON	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 0V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
(+)	(-)				
140 (BR)	Ground	Engine switch (push switch)	Input	Engine switch (push switch)	Pressed 0V
				Not pressed Battery voltage	
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	ON (pressed) 0V
				OFF (not pressed)	 <p style="text-align: center;">1.0V</p>
144 (GR)	Ground	Request switch buzzer	Output	Request switch buzzer	Sounding 0V
				Not sounding Battery voltage	
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed 0V
				Not pressed Battery voltage	
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)
				ON (when rear door RH opens)	 <p style="text-align: center;">11.8V</p>
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)
				ON (when rear door LH opens)	 <p style="text-align: center;">11.8V</p>

Fail Safe

INFOID:000000010057372

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
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	Erase DTC
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
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
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)

DTC Inspection Priority Chart

INFOID:0000000010057373

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

Priority	DTC
1	<ul style="list-style-type: none"> • B2562: LO VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN)
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM
4	<ul style="list-style-type: none"> • 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 SWITCH • B2605: PNP SWITCH • B2608: STARTER RELAY • B260A: IGNITION RELAY • B260F: ENG STATE SIG LOST • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B261A: PUSH-BTN IGN SW • B26E1: ENG STATE NO RECIV • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Priority	DTC
5	<ul style="list-style-type: none"> • 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] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT
6	<ul style="list-style-type: none"> • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

INFOID:0000000010057374

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 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-32
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-33
U0415: VEHICLE SPEED SIG	—	—	—	BCS-34
B2190: NATS ANTENNA AMP	×	—	—	SEC-37
B2191: DIFFERENCE OF KEY	×	—	—	SEC-40
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-41
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-42
B2553: IGNITION RELAY	—	—	—	PCS-46
B2555: STOP LAMP	—	—	—	SEC-43
B2556: PUSH-BTN IGN SW	—	×	—	SEC-46
B2557: VEHICLE SPEED	×	×	—	SEC-48
B2560: STARTER CONT RELAY	×	×	—	SEC-49

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	—	—	—	BCS-35
B2601: SHIFT POSITION	×	×	—	SEC-50
B2602: SHIFT POSITION	×	×	—	SEC-53
B2603: SHIFT POSI STATUS	×	×	—	SEC-56
B2604: PNP SWITCH	×	×	—	SEC-59
B2605: PNP SWITCH	×	×	—	SEC-61
B2608: STARTER RELAY	×	×	—	SEC-63
B260A: IGNITION RELAY	×	×	—	PCS-48
B260F: ENG STATE SIG LOST	×	×	—	SEC-65
B2614: ACC RELAY CIRC	—	×	—	PCS-50
B2615: BLOWER RELAY CIRC	—	×	—	PCS-53
B2616: IGN RELAY CIRC	—	×	—	PCS-56
B2617: STARTER RELAY CIRC	×	×	—	SEC-67
B2618: BCM	×	×	—	PCS-59
B261A: PUSH-BTN IGN SW	—	×	—	PCS-60
B2622: INSIDE ANTENNA	—	—	—	DLK-60
B2623: INSIDE ANTENNA	—	—	—	DLK-63
B26E1: ENG STATE NO RES	×	×	—	SEC-66
C1704: LOW PRESSURE FL	—	—	×	WT-43
C1705: LOW PRESSURE FR	—	—	×	WT-43
C1706: LOW PRESSURE RR	—	—	×	WT-43
C1707: LOW PRESSURE RL	—	—	×	WT-43
C1708: [NO DATA] FL	—	—	×	WT-13
C1709: [NO DATA] FR	—	—	×	WT-13
C1710: [NO DATA] RR	—	—	×	WT-13
C1711: [NO DATA] RL	—	—	×	WT-13
C1712: [CHECKSUM ERR] FL	—	—	×	WT-15
C1713: [CHECKSUM ERR] FR	—	—	×	WT-15
C1714: [CHECKSUM ERR] RR	—	—	×	WT-15
C1715: [CHECKSUM ERR] RL	—	—	×	WT-15
C1716: [PRESSDATA ERR] FL	—	—	×	WT-17
C1717: [PRESSDATA ERR] FR	—	—	×	WT-17
C1718: [PRESSDATA ERR] RR	—	—	×	WT-17
C1719: [PRESSDATA ERR] RL	—	—	×	WT-17
C1720: [CODE ERR] FL	—	—	×	WT-15
C1721: [CODE ERR] FR	—	—	×	WT-15
C1722: [CODE ERR] RR	—	—	×	WT-15
C1723: [CODE ERR] RL	—	—	×	WT-15
C1724: [BATT VOLT LOW] FL	—	—	×	WT-15
C1725: [BATT VOLT LOW] FR	—	—	×	WT-15
C1726: [BATT VOLT LOW] RR	—	—	×	WT-15
C1727: [BATT VOLT LOW] RL	—	—	×	WT-15

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	—	—	×	WT-19
C1734: CONTROL UNIT	—	—	×	WT-20

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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

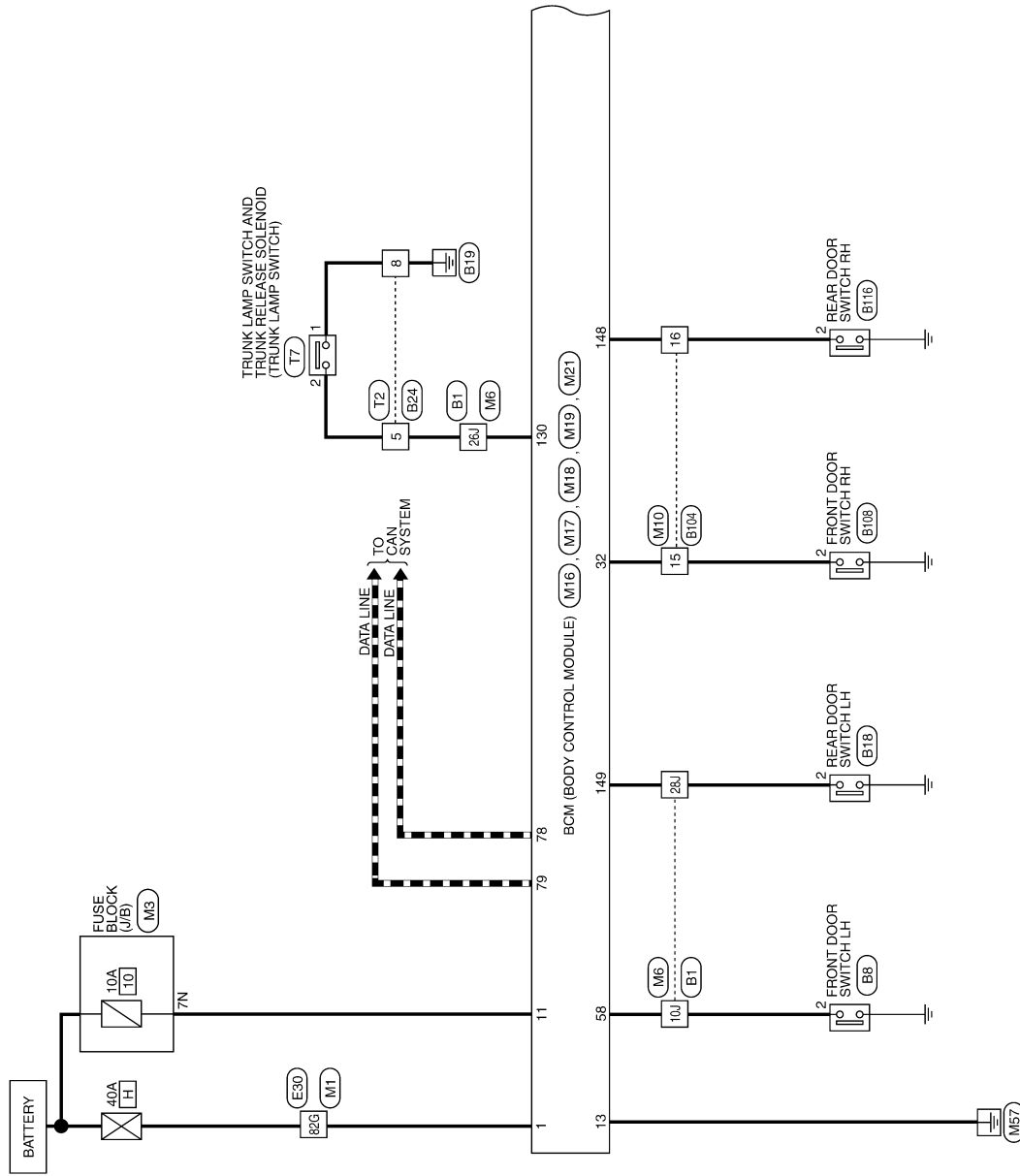
WIRING DIAGRAM

POWER DOOR LOCK SYSTEM

Wiring Diagram

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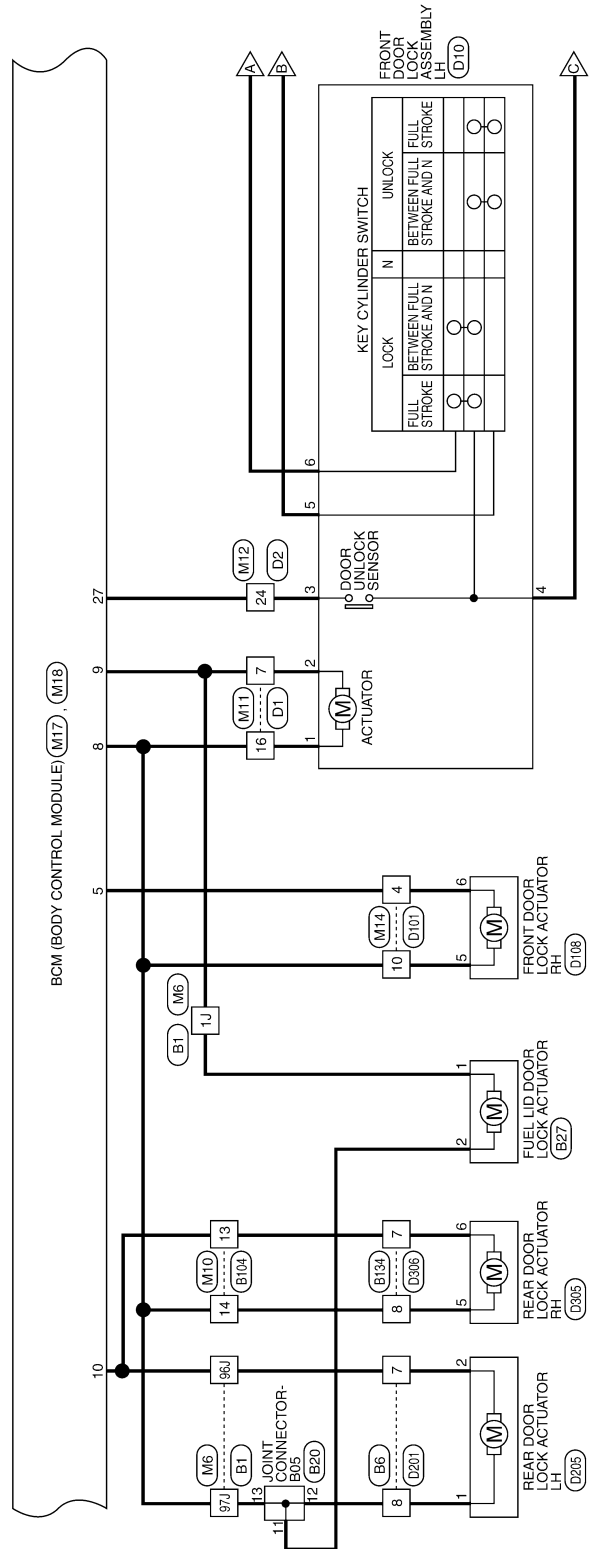
POWER DOOR LOCK SYSTEM



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POWER DOOR LOCK SYSTEM

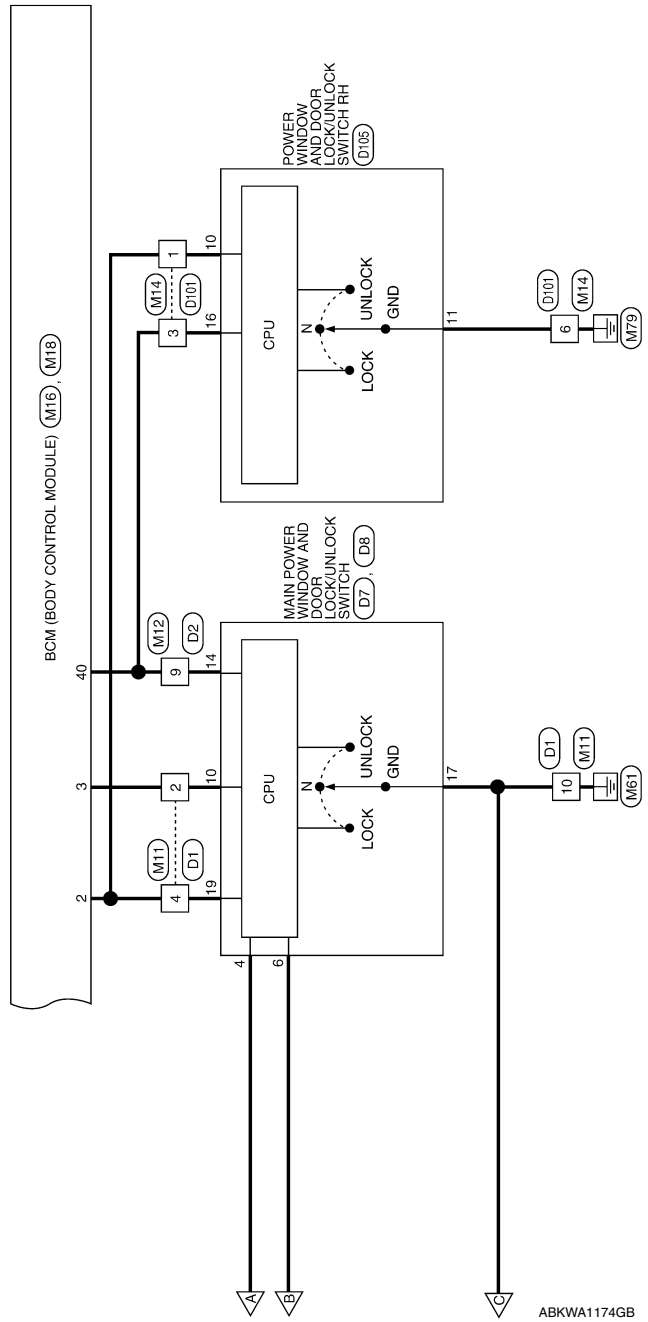
< WIRING DIAGRAM >



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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

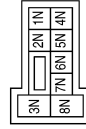
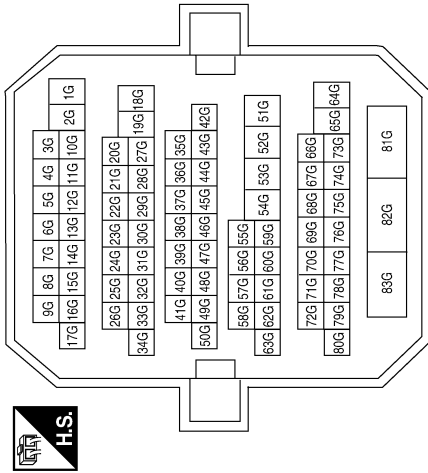


POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

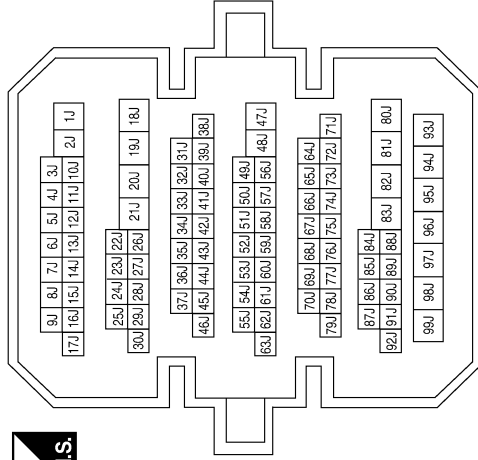


Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

Terminal No.	Color of Wire	Y/R	Signal Name
7N			-



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1J	L	-
10J	SB	-
26J	W	-
28J	R/B	-
96J	G	-
97J	V	-

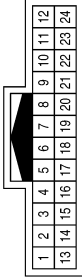
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POWER DOOR LOCK SYSTEM

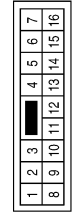
< WIRING DIAGRAM >

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



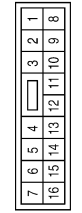
Terminal No.	Color of Wire	Signal Name
9	Y/G	-
24	O	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	L/W	-
4	R/Y	-
7	L	-
10	B	-
16	V	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	G	-
14	V	-
15	R/B	-
16	R/W	-

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W/B	BATT (F/L)
2	R/Y	P/W POWER SUPPLY PERM
3	L/W	P/W POWER SUPPLY IGN

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



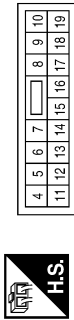
Terminal No.	Color of Wire	Signal Name
1	R/Y	-
3	Y/G	-
4	G	-
6	B	-
10	V	-

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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	G	DOOR UNLOCK OUTPUT AS
8	V	DOOR LOCK OUTPUT ALL
9	L	DOOR UNLOCK OUTPUT (DR/FL)
10	G	DOOR UNLOCK OUTPUT (RR/RL)
11	Y/R	BAT BCM FUSE
13	B	GND1

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



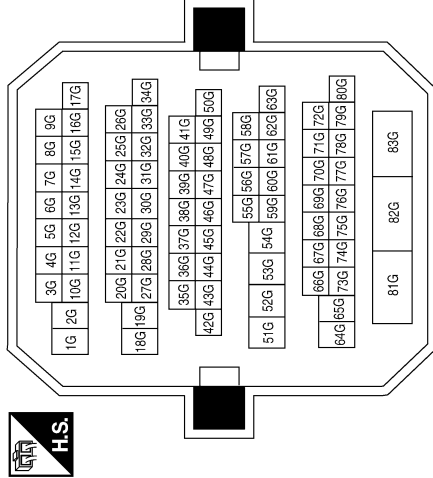
Terminal No.	Color of Wire	Signal Name
130	W	TRUNK SW
148	R/W	RR DOOR SW
149	R/B	RL DOOR SW

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
27	O	DOOR LOCK STATUS DR
32	R/B	AS DOOR SW 1
40	Y/G	PW K-LINE
58	SB	DR DOOR SW

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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



Terminal No.	Color of Wire	Signal Name
78	P	CAN-L
79	L	CAN-H

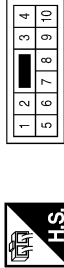
Terminal No.	82G
Color of Wire	LG
Signal Name	-

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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

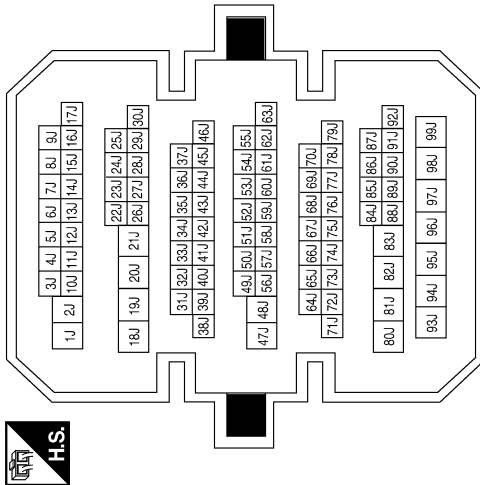
Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	G	-
8	GR	-

Terminal No.	Color of Wire	Signal Name
1J	L	-
10J	SB	-
26J	W	-
28J	BR	-
96J	G	-
97J	GR	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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



Terminal No.	Color of Wire	Signal Name
11	GR	-
12	GR	-
13	GR	-

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	BR	-

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	SB	-

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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

Terminal No.	Color of Wire	Signal Name
13	G	-
14	V	-
15	GR	-
16	B	-

Connector No.	B27
Connector Name	FUEL LID DOOR LOCK ACTUATOR
Connector Color	WHITE



4	2
3	1

Terminal No.	Color of Wire	Signal Name
1	L	-
2	GR	-

Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3
4	5	6
7	8	

Terminal No.	Color of Wire	Signal Name
5	W	-
8	B	-

Connector No.	B134
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name
7	G	-
8	V	-

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



1	2	3
---	---	---

Terminal No.	Color of Wire	Signal Name
2	B	-

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



1	2	3
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Terminal No.	Color of Wire	Signal Name
2	GR	-

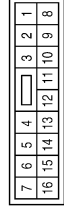
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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	V	-
4	R	-
7	G	-
10	B	-
16	GR	-

Connector No.	T7
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE



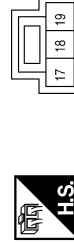
Terminal No.	Color of Wire	Signal Name
1	B	-
2	W	-

Connector No.	T2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



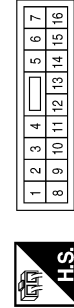
Terminal No.	Color of Wire	Signal Name
5	W	-
8	B	-

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



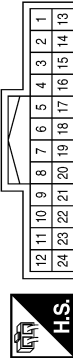
Terminal No.	Color of Wire	Signal Name
17	B	GND
19	R	BAT

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	L	LOCK
6	R	UNLOCK
10	V	IGN
14	O	COM

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



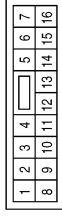
Terminal No.	Color of Wire	Signal Name
9	O	-
24	P	-

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POWER DOOR LOCK SYSTEM

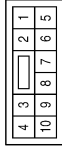
< WIRING DIAGRAM >

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



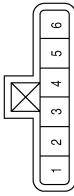
Terminal No.	Color of Wire	Signal Name
10	P	BAT
11	B	GND
16	R	COM

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



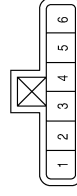
Terminal No.	Color of Wire	Signal Name
1	P	-
3	R	-
4	G	-
6	B	-
10	GR	-

Connector No.	D10
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY



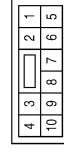
Terminal No.	Color of Wire	Signal Name
1	GR	-
2	G	-
3	P	-
4	B	-
5	R	-
6	L	-

Connector No.	D205
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY



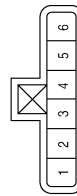
Terminal No.	Color of Wire	Signal Name
1	GR	-
2	G	-

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	G	-
8	GR	-

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



Terminal No.	Color of Wire	Signal Name
5	GR	-
6	G	-

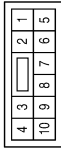
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POWER DOOR LOCK SYSTEM

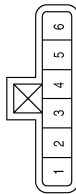
< WIRING DIAGRAM >

Connector No.	D306
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	G	-
8	GR	-

Connector No.	D305
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
5	GR	-
6	G	-

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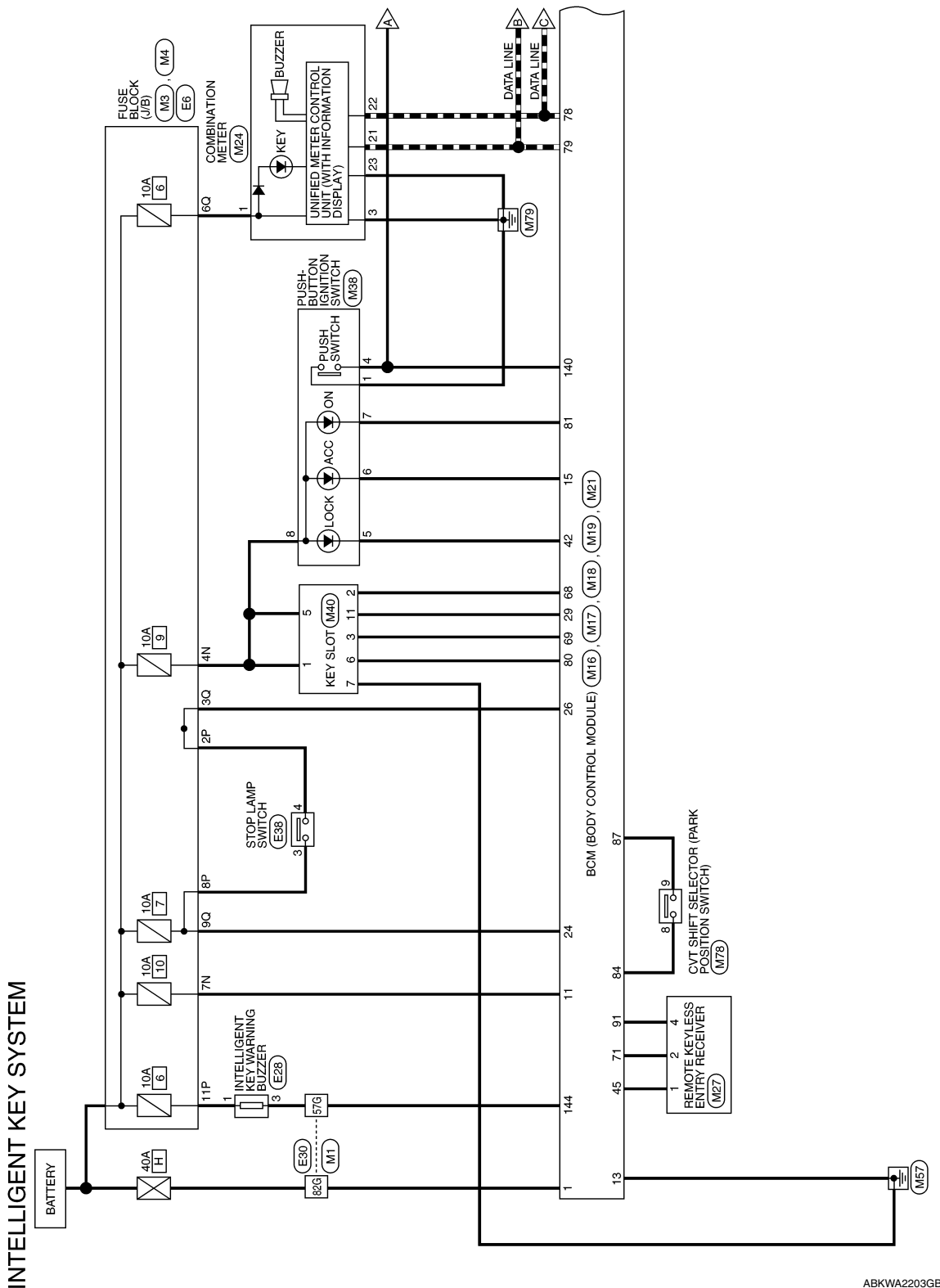
INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

INTELLIGENT KEY SYSTEM

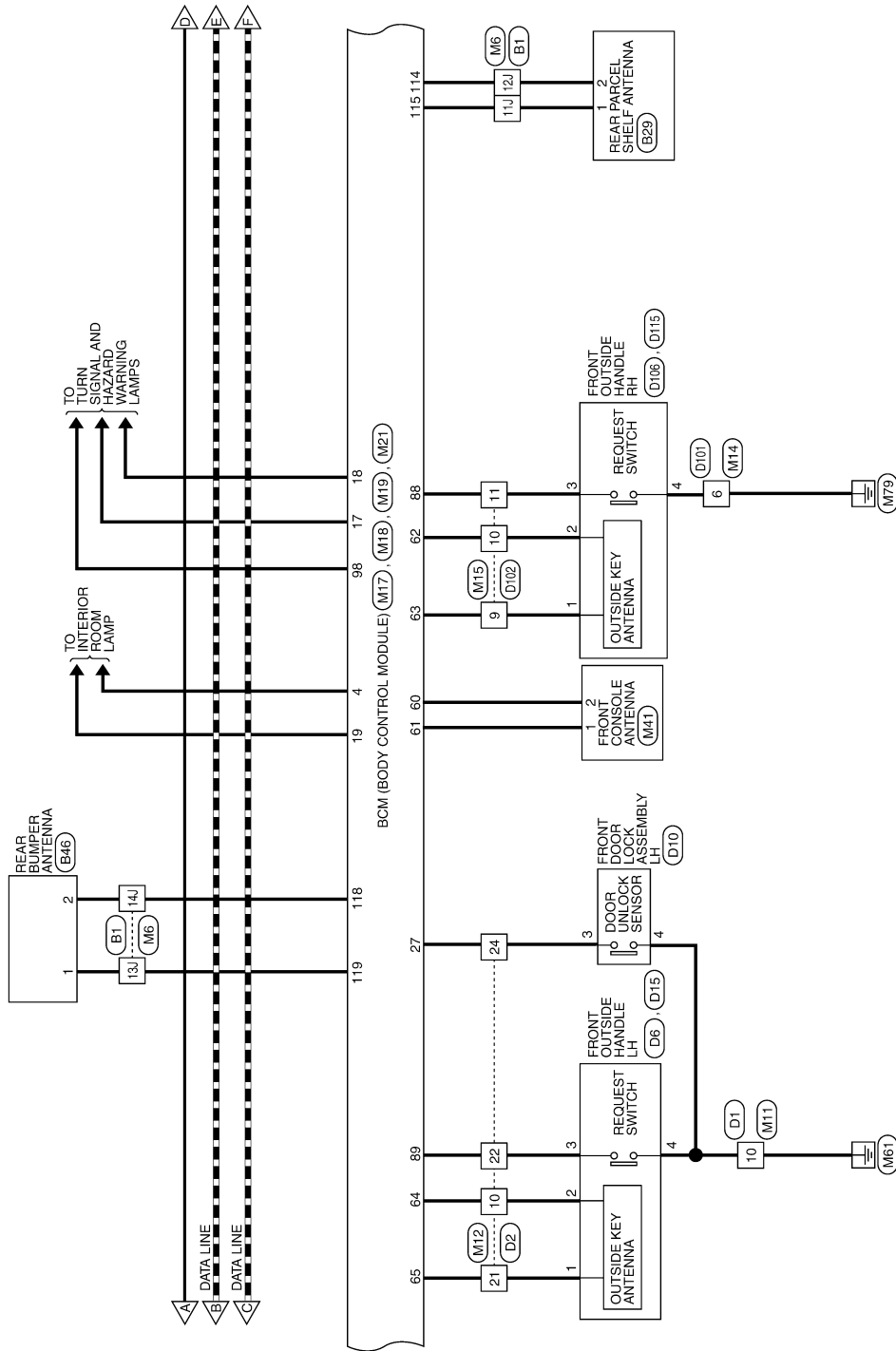
Wiring Diagram

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INTELLIGENT KEY SYSTEM

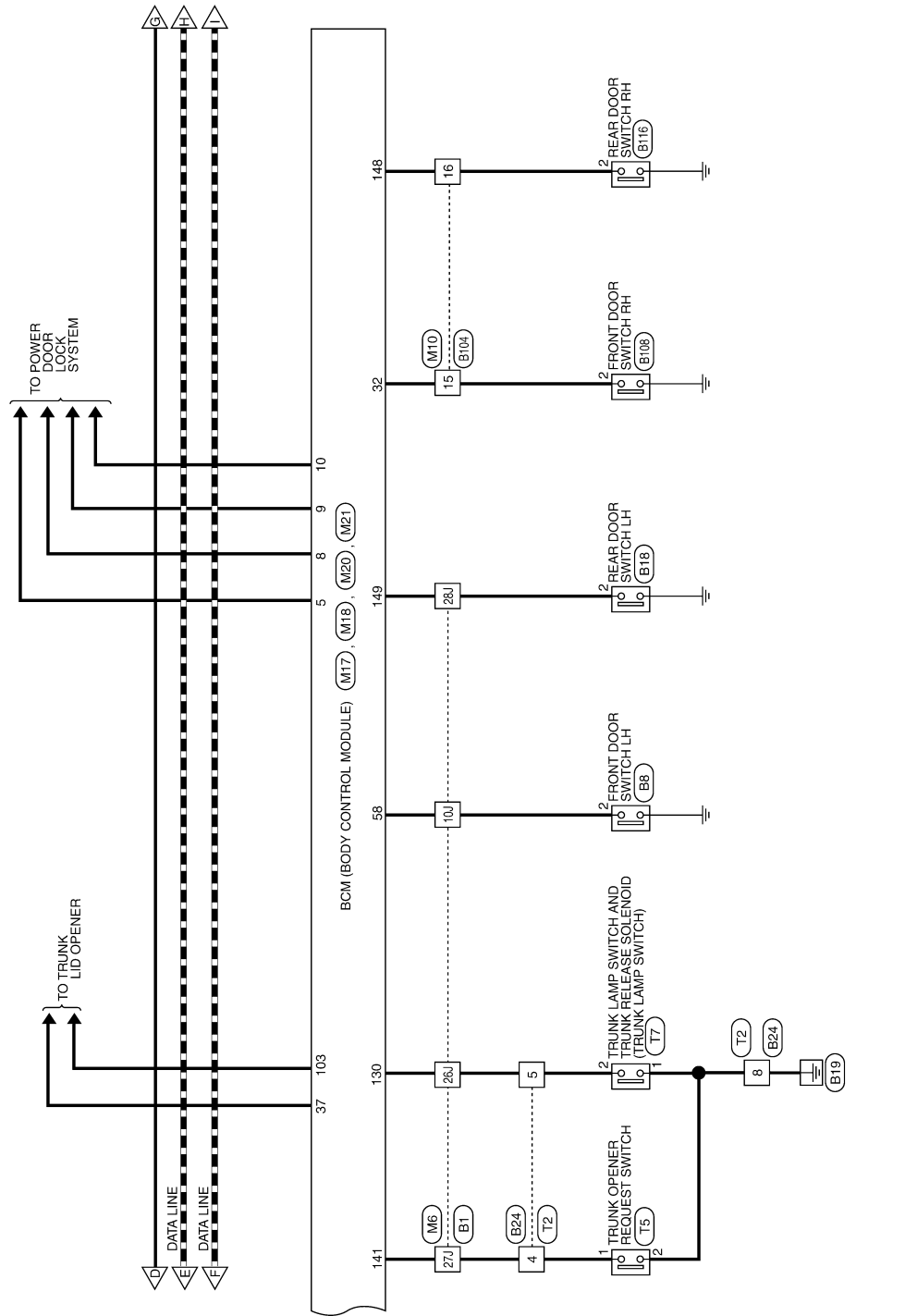
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INTELLIGENT KEY SYSTEM

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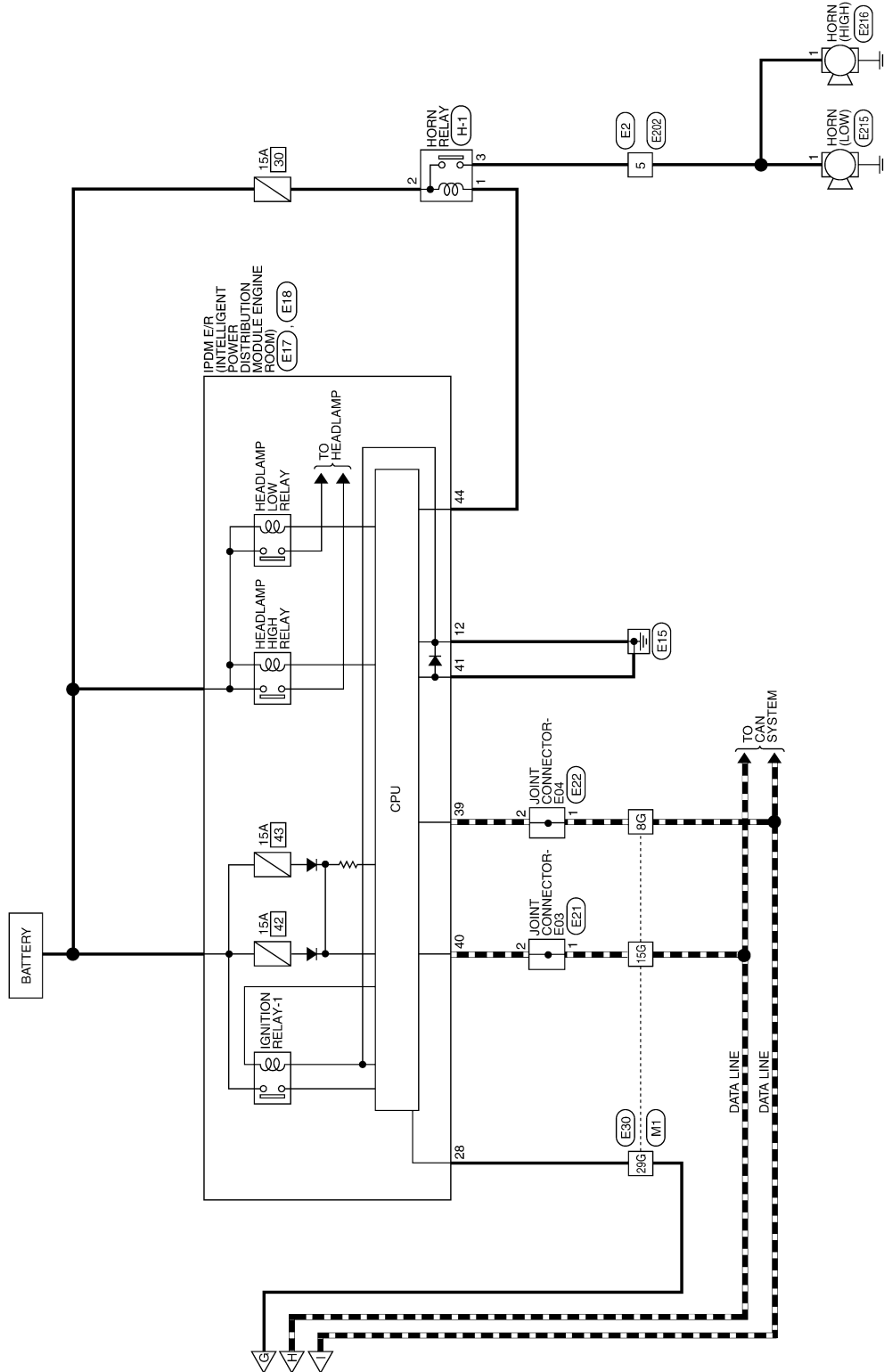


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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >



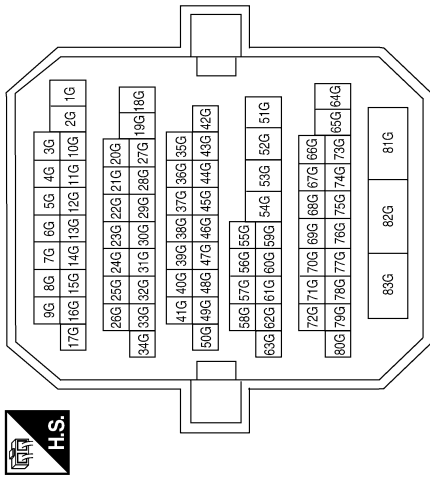
ABKWA1821GB

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

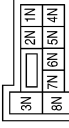
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



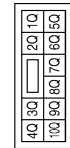
Terminal No.	Color of Wire	Signal Name
8G	P	-
15G	L	-
29G	BR	-
57G	GR	-
82G	W/B	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4N	G/Y	-
7N	Y/R	-

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3Q	O/L	-
6Q	Y/R	-
9Q	R/W	-

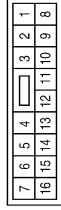
ABKIA3821GB

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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

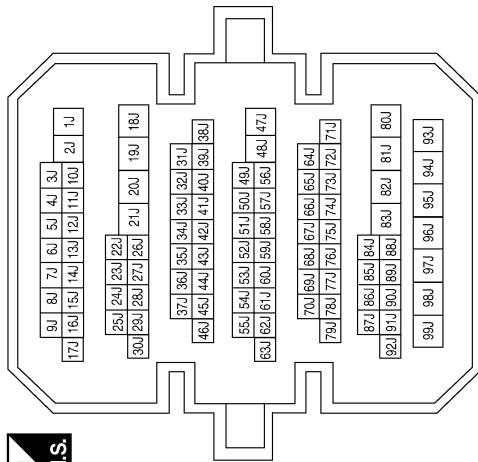
Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



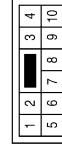
Terminal No.	Color of Wire	Signal Name
15	R/B	-
16	R/W	-

Terminal No.	Color of Wire	Signal Name
10J	SB	-
11J	W	-
12J	B	-
13J	BR/W	-
14J	L/O	-
26J	W	-
27J	BR	-
28J	R/B	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Color	WHITE



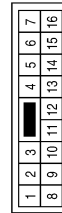
Terminal No.	Color of Wire	Signal Name
6	B	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	V	-
21	P	-
22	R	-
24	O	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



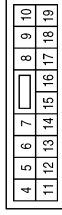
Terminal No.	Color of Wire	Signal Name
10	B	-

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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



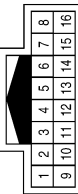
Terminal No.	Color of Wire	Signal Name
4	P/W	R/L POWER SUPPLY
5	G	DOOR UNLOCK OUTPUT AS
8	V	DOOR LOCK OUTPUT ALL
9	L	DOOR UNLOCK OUTPUT (DR/FL)
10	G	DOOR UNLOCK OUTPUT (RR/RL)
11	Y/R	BAT BCM FUSE
13	B	GND1
15	Y/L	ACC LED
17	G/B	FR FLASHER
18	G/Y	FL FLASHER
19	Y	ROOM LAMP CONT

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W/B	BATT (F/L)

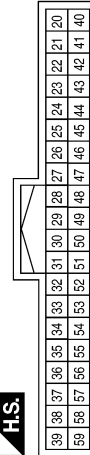
Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	P	-
10	V	-
11	R	-

Terminal No.	Color of Wire	Signal Name
24	R/W	BRAKE SW 1
26	O/L	BRAKE SW 2
27	O	DOOR LOCK STATUS DR
29	Y	FOB IN SW 1
32	R/B	AS DOOR SW 1
37	O	TRUNK CANCEL SW
42	R	S/L LOCK LED
45	P	GND RF2 A/L
58	SB	DR DOOR SW

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



100	101	102	103	104		
105	106	107	108	109	110	111

Terminal No.	Color of Wire	Signal Name
103	V	CDL BACK TRUNK

Terminal No.	Color of Wire	Signal Name
68	G/O	FOB READER CLOCK
69	O	FOB READER DATA
71	L/O	RF1 TUNER SIGNAL
78	P	CAN-L
79	L	CAN-H
80	R/L	FOB SLOT ILLUMINATION
81	LG	IGN ON LED
84	Y/R	AT DEVICE OUT
87	G/B	SHIFT P/ASCD CANCEL SW
88	R	AS REQUEST SW
89	R	DR REQUEST SW
91	L/R	RF POWER SUPPLY 12V
98	G/O	HAZARD SW

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



79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
59	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80

Terminal No.	Color of Wire	Signal Name
60	B/R	ROOM ANT 2 B
61	W/R	ROOM ANT 2 A
62	V	AS DOOR ANT B
63	P	AS DOOR ANT A
64	V	DR DOOR ANT B
65	P	DR DOOR ANT A

Terminal No.	Color of Wire	Signal Name
114	B	TRUNK ANT 1 B
115	W	TRUNK ANT 1 A
118	L/O	BACK DOOR ANT B
119	BR/W	BACK DOOR ANT A
130	W	TRUNK SW
140	BR	ENG START SW
141	BR	TRUNK REQUEST SW
144	GR	BUZZER
148	R/W	RR DOOR SW
149	R/B	RL DOOR SW

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



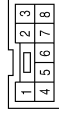
131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112
151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132

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INTELLIGENT KEY SYSTEM

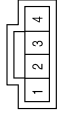
< WIRING DIAGRAM >

Connector No.	M38
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	BROWN



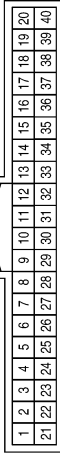
Terminal No.	Color of Wire	Signal Name
1	B	-
4	BR	-
5	R	-
6	Y/L	-
7	LG	-
8	G/Y	-

Connector No.	M27
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	P	-
2	L/O	-
4	L/R	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	Y/R	BAT
3	B	GND (POWER)
21	L	CAN-H
22	P	CAN-L
23	B	GND (CIRCUIT)

Connector No.	M78
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE



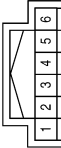
Terminal No.	Color of Wire	Signal Name
8	Y/R	-
9	G/B	-

Connector No.	M41
Connector Name	FRONT CONSOLE ANTENNA
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W/R	-
2	B/R	-

Connector No.	M40
Connector Name	KEY SLOT
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	G/Y	-
2	G/O	-
3	O	-
5	G/Y	-
6	R/L	-
7	B	-
11	Y	-

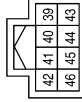
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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
39	P	CAN-L
40	L	CAN-H
41	B	GND (SIGNAL)
44	W	HORN RLY

Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2P	LG	-
8P	R	-
11P	G	-

Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	O	-

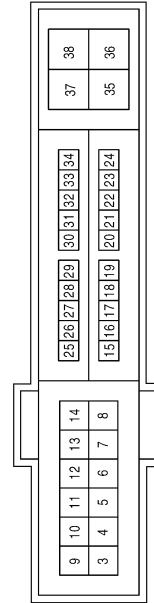
Connector No.	E21
Connector Name	JOINT CONNECTOR-E03
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Terminal No.	Color of Wire	Signal Name
12	B	GND (POWER)
28	SB	PUSH START SW

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	E22
Connector Name	JOINT CONNECTOR-E04
Connector Color	WHITE



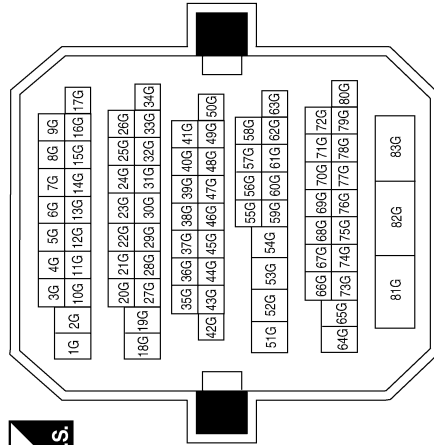
Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

Connector No.	E28
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	G	-
3	R	-

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8G	P	-
15G	L	-
29G	SB	-
57G	R	-
82G	LG	-

Connector No.	E38
Connector Name	STOP LAMP SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R	-
4	LG	-

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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	E216
Connector Name	HORN (HIGH)
Connector Color	BLACK



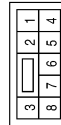
Terminal No.	1	Color of Wire	G	Signal Name	-
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Connector No.	E215
Connector Name	HORN (LOW)
Connector Color	BLACK



Terminal No.	1	Color of Wire	G	Signal Name	-
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Connector No.	E202
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	5	Color of Wire	G	Signal Name	-
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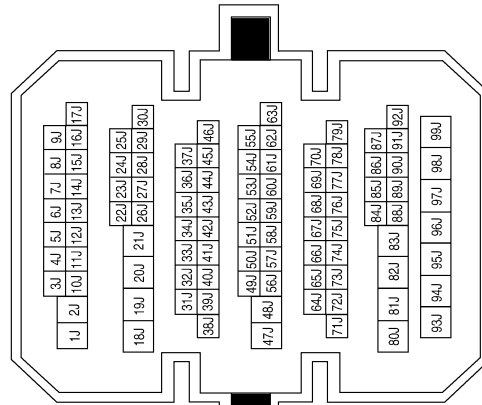
Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	2	Color of Wire	SB	Signal Name	-
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Terminal No.	Color of Wire	Signal Name
10J	SB	-
11J	W	-
12J	B	-
13J	R	-
14J	G	-
26J	W	-
27J	SB	-
28J	BR	-

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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INTELLIGENT KEY SYSTEM

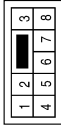
< WIRING DIAGRAM >

Connector No.	B29
Connector Name	REAR PARCEL SHELF ANTENNA
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE



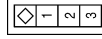
Terminal No.	Color of Wire	Signal Name
4	SB	-
5	W	-
8	B	-

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	BR	-

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	GR	-

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
15	GR	-
16	B	-

Connector No.	B46
Connector Name	REAR BUMPER ANTENNA
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	R	-
2	G	-

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INTELLIGENT KEY SYSTEM

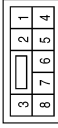
< WIRING DIAGRAM >

Connector No.	T5
Connector Name	TRUNK OPENER REQUEST SWITCH
Connector Color	BROWN



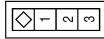
Terminal No.	Color of Wire	Signal Name
1	SB	-
2	B	-

Connector No.	T2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



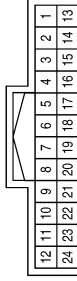
Terminal No.	Color of Wire	Signal Name
4	SB	-
5	W	-
8	B	-

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



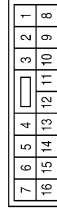
Terminal No.	Color of Wire	Signal Name
2	B	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	G	-
21	R	-
22	W	-
24	P	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	B	-

Connector No.	T7
Connector Name	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	-
2	W	-

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INTELLIGENT KEY SYSTEM

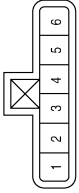
< WIRING DIAGRAM >

Connector No.	D15
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
3	W	-
4	B	-

Connector No.	D10
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3	P	-
4	B	-

Connector No.	D6
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Color	GRAY



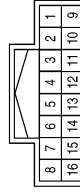
Terminal No.	Color of Wire	Signal Name
1	R	-
2	G	-

Connector No.	D106
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Color	GRAY



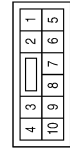
Terminal No.	Color of Wire	Signal Name
1	R	-
2	G	-

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



Terminal No.	Color of Wire	Signal Name
9	R	-
10	G	-
11	GR	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	B	-

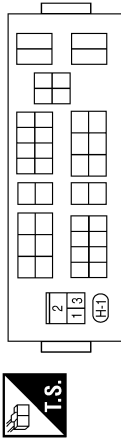
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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

Connector No.	H-1
Connector Name	FUSE AND FUSIBLE LINK BOX (HORN RELAY)
Connector Color	-



Terminal No.	Color of Wire	Signal Name
1	W	-
2	SB	-
3	O	-

Connector No.	D115
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
3	GR	-
4	B	-

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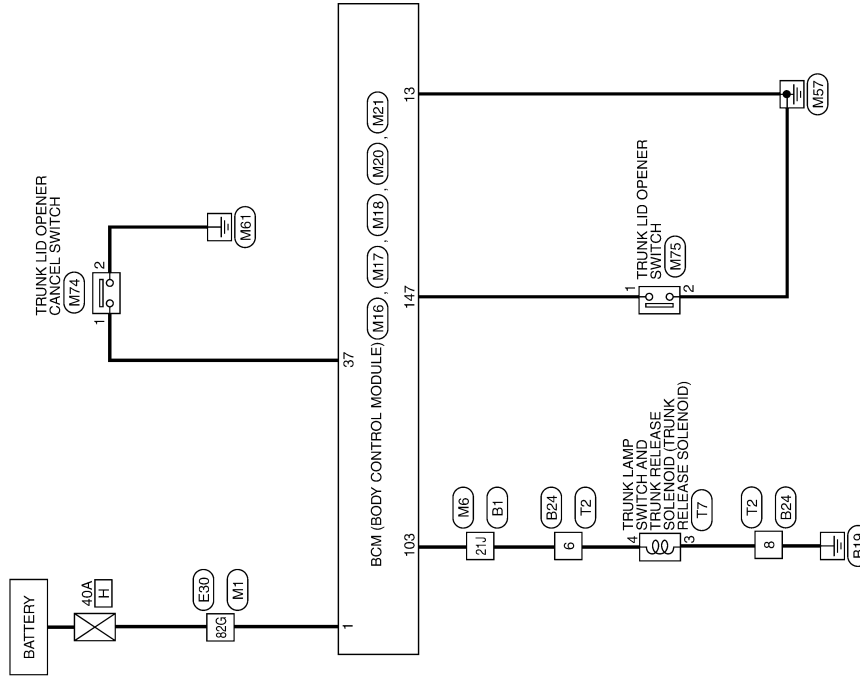
TRUNK LID OPENER

< WIRING DIAGRAM >

TRUNK LID OPENER

Wiring Diagram

INFOID:000000009471738



TRUNK LID OPENER

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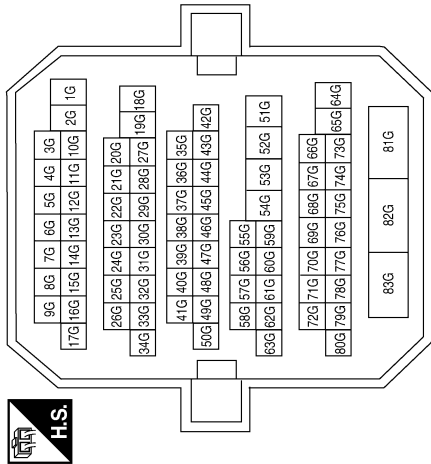
ABKWA1559GB

TRUNK LID OPENER

< WIRING DIAGRAM >

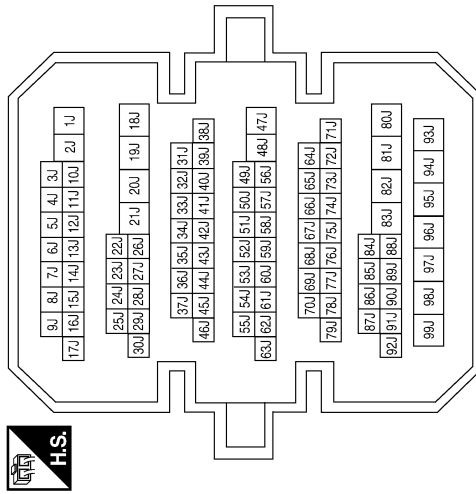
TRUNK LID OPENER CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
82G	W/B	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
21J	V	-

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



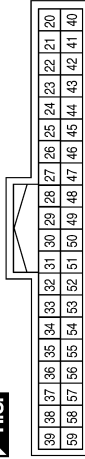
Terminal No.	Color of Wire	Signal Name
1	W/B	BATT (F/L)

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	B	GND1

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
37	O	TRUNK CANCEL SW

TRUNK LID OPENER

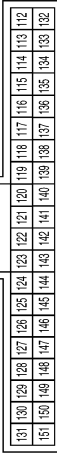
< WIRING DIAGRAM >

Connector No.	M74
Connector Name	TRUNK LID OPENER CANCEL SWITCH
Connector Color	WHITE



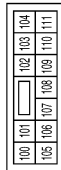
Terminal No.	Color of Wire	Signal Name
1	O	-
2	B	-

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



Terminal No.	Color of Wire	Signal Name
147	L/R	BACK TRUNK OPENER

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

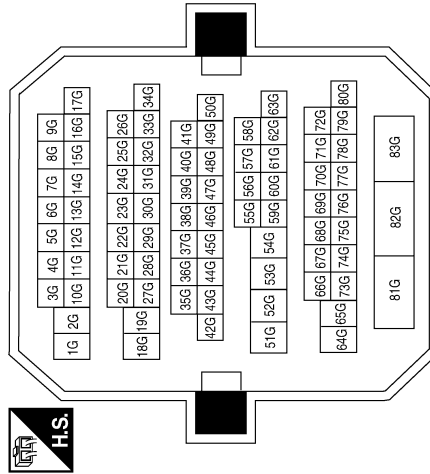


Terminal No.	Color of Wire	Signal Name
103	V	CDL BACK TRUNK

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
82G	LG	-



Connector No.	M75
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	L/R	-
2	B	-

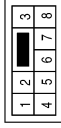
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TRUNK LID OPENER

< WIRING DIAGRAM >

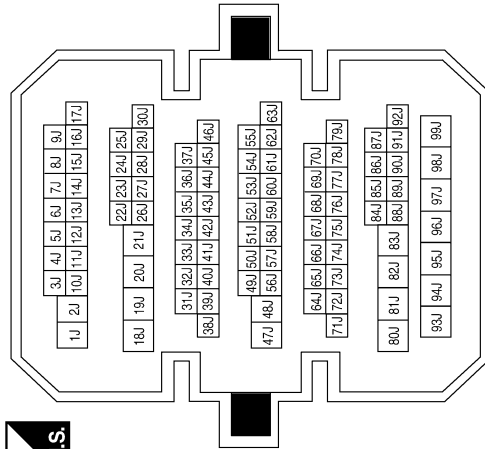
Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	V	-
8	B	-

Terminal No.	21J	Color of Wire	V	Signal Name	-
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Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

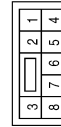


Connector No.	T7	Color of Wire	TRUNK LAMP SWITCH AND TRUNK RELEASE SOLENOID	Signal Name	-
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Terminal No.	Color of Wire	Signal Name
3	B	-
4	V	-

Connector No.	T2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	V	-
8	B	-

ABKIA2742GB

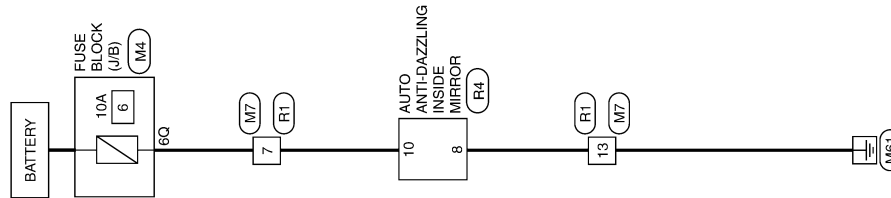
HOMELINK UNIVERSAL TRANSCEIVER

< WIRING DIAGRAM >

HOMELINK UNIVERSAL TRANSCEIVER

Wiring Diagram

INFOID:000000009471739



HOMELINK UNIVERSAL TRANSCEIVER

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HOMELINK UNIVERSAL TRANSCEIVER

< WIRING DIAGRAM >

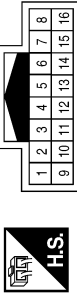
HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



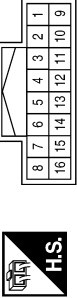
Terminal No.	Color of Wire	Signal Name
6Q	Y/R	--

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



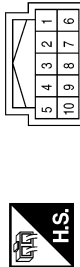
Terminal No.	Color of Wire	Signal Name
7	Y/R	--
13	B	--

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	B/Y	--
13	B	--

Connector No.	R4
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR (WITH HOMELINK UNIVERSAL TRANSCEIVER)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
8	B	--
10	B/Y	--

INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009471740

ALL FUNCTIONS OF INTELLIGENT KEY SYSTEM DO NOT OPERATE

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-9. "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.
- 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-66
	2. Check Intelligent Key function and battery inspection.	DLK-113
	3. Check remote keyless entry receiver.	DLK-110
	4. Check Intermittent Incident.	GI-41

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DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

DOOR LOCK FUNCTION SYMPTOMS

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : Symptom Table

INFOID:000000009471741

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-9, "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.
- Intelligent Key is out of key slot.
- All doors are closed.

Symptom	Diagnosis/service procedure		Reference page
Power door locks do not operate with door lock and unlock switch.	1.	Check BCM Power supply and ground circuit.	DLK-66
	2.	Check door lock and unlock switch.	DLK-70
	3.	Check door lock actuator (driver side)	DLK-97
	4.	Check Intermittent Incident.	GI-41
Power door locks do not operate with door key cylinder operation. (Power door locks operate properly with door lock and unlock switch.)	1.	Check key cylinder switch.	DLK-77
	2.	Replace power window main switch.	PWC-107
Specific door lock actuator does not operate.	1.	Check door lock actuator.	Driver side DLK-97
		Passenger side DLK-98	
		Rear LH DLK-99	
		Rear RH DLK-100	
		Fuel filler lid DLK-101	
	2.	Check Intermittent Incident.	GI-41

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : Symptom Table

INFOID:000000009471742

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-9, "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.
- Intelligent Key is out of key slot.
- All doors are closed.

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symptom	Diagnosis/service procedure	Reference page
Door lock/unlock system does not operate by door request switch.	1. Check BCM power supply and ground circuit.	DLK-66
	2. Check door switch.	DLK-67
	3. Check key slot.	DLK-75
	4. Check Intermittent Incident.	GI-41
Door lock/unlock system does not operate by request switch (driver side).	1. Check door request switch (driver side).	DLK-91
	2. Check outside key antenna (driver side).	DLK-107
	3. Check Intermittent Incident.	GI-41
Door lock/unlock system does not operate by request switch (passenger side).	1. Check door request switch (passenger side).	DLK-91
	2. Check outside key antenna (passenger side).	DLK-107
	3. Check Intermittent Incident.	GI-41
Selective unlock function does not operate by door request switch (driver side) (other door lock function operate).	1. Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".	DLK-53
	2. Check selective unlock function with a remote controller or door key cylinder.	DLK-19
	3. Check Intermittent Incident.	GI-41
Selective unlock function does not operate by door request switch (passenger side) (other door lock functions operate).	1. Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".	DLK-53
	2. Check Intermittent Incident.	GI-41
Auto lock function does not operate.	1. Check "AUTO LOCK SET" setting in "WORK SUPPORT".	DLK-53
	2. Check door switch.	DLK-67
	3. Check key slot.	DLK-75
	4. Check Intermittent Incident.	GI-41

INTELLIGENT KEY

INTELLIGENT KEY : Symptom Table

INFOID:000000009471743

DLK

REMOTE KEYLESS ENTRY FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-9, "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.
- Retained power operation does not operate. Refer to [DLK-24, "INTELLIGENT KEY : System Description"](#).

Symptom	Diagnosis/service procedure	Reference page
All of the remote keyless entry functions do not operate.	1. Check Intelligent Key battery inspection.	DLK-113
	2. Check Intermittent Incident.	GI-41
Selective unlock function does not operate by Intelligent Key.	1. Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".	DLK-53
	2. Check Intelligent Key battery inspection.	DLK-113
	3. Check Intermittent Incident.	GI-41

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

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.	DLK-67
	3. Check key slot.	DLK-75
	4. Check Intermittent Incident.	GI-41
Power window down function does not operate.	1. Check "PW DOWN SET" setting in "WORK SUPPORT".	DLK-53
	2. Check Intelligent Key battery inspection.	DLK-113

TRUNK OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

TRUNK OPEN FUNCTION SYMPTOMS

TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH : Symptom Table

INFOID:000000009471744

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-9, "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.	1. Check trunk opener switch.	DLK-83
	2. Check trunk lid opener cancel switch.	DLK-85
	3. Check Intermittent Incident.	GI-41

TRUNK REQUEST SWITCH

TRUNK REQUEST SWITCH : Symptom Table

INFOID:000000009471745

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-9, "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.	1. Check trunk opener request switch.	DLK-94
	2. Check trunk lid opener cancel switch.	DLK-85
	3. Check outside key antenna (trunk room).	DLK-107
	4. Check Intermittent Incident.	GI-41

INTELLIGENT KEY

INTELLIGENT KEY : Symptom Table

INFOID:000000009471746

TRUNK OPEN FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-9, "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.

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TRUNK OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

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
	3. Check trunk room lamp switch.	DLK-88
	4. Check Intelligent Key battery inspection.	DLK-113
	5. Check Intermittent Incident.	GI-41

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

WARNING FUNCTION SYMPTOMS

Symptom Table

INFOID:000000009471747

WARNING FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-9, "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
OFF position warning does not operate.	For internal	1. Check push-button ignition switch position indicator.	PCS-65
		2. Check door switch.	DLK-67
		3. Check warning chime function.	DLK-120
		4. Check Intermittent Incident.	GI-41
	For external	1. Check push-button ignition switch position indicator.	PCS-65
		2. Check door switch.	DLK-67
		3. Check Intelligent Key warning buzzer.	DLK-105
		4. Check Intermittent Incident.	GI-41
P position warning does not operate.	1. Check Park position switch.	SEC-56	
	2. Check door switch.	DLK-67	
	3. Check Intelligent Key warning buzzer.	DLK-105	
	4. Check warning chime function.	DLK-120	
	5. Check combination meter display function.	DLK-119	
	6. Check Intermittent Incident.	GI-41	
ACC warning does not operate	1. Check push-button ignition switch position indicator.	PCS-65	
	2. Check warning chime function.	DLK-120	
	3. Check combination meter display function.	DLK-119	
	4. Check Intermittent Incident.	GI-41	

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WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symptom		Diagnosis/service procedure		Reference page
Take away warning does not operate.	Door open to close	1. Check door switch.		DLK-67
		2. Check inside key antenna.	Console	DLK-60
			Trunk room	DLK-63
		3. Check Intelligent Key warning buzzer.		DLK-105
		4. Check warning chime function.		DLK-120
		5. Check key slot illumination.		DLK-115
		6. Check combination meter display function.		DLK-119
	7. Check Intermittent Incident.		GI-41	
	Push-button ignition switch operation	1. Check push-button ignition switch position indicator.		PCS-65
		2. Check inside key antenna.	Console	DLK-60
			Trunk room	DLK-63
		3. Check warning chime function.		DLK-120
		4. Check key slot illumination.		DLK-115
		5. Check combination meter display function.		DLK-119
	6. Check Intermittent Incident.		GI-41	
	Door is open	1. Check push-button ignition switch position indicator.		PCS-65
		2. Check inside key antenna.	Console	DLK-60
			Trunk room	DLK-63
		3. Check combination meter display function.		DLK-119
	4. Check Intermittent Incident.		GI-41	
Take away through window	1. Check inside key antenna.	Console	DLK-60	
		Trunk room	DLK-63	
	2. Check warning chime function.		DLK-120	
	3. Check key slot illumination.		DLK-115	
	4. Check combination meter display function.		DLK-119	
5. Check Intermittent Incident.		GI-41		
Key warning chime does not operate.	1. Check key slot.		DLK-75	
	2. Check door switch.		DLK-67	
	3. Check warning chime function.		DLK-120	
	4. Check key slot illumination.		DLK-115	
	5. Check combination meter display function.		DLK-119	
	6. Check Intermittent Incident.		GI-41	
Door lock operation warning chime does not operate.	1. Check door switch.		DLK-67	
	2. Check key slot illumination.		DLK-115	
	3. Check Intelligent Key warning buzzer.		DLK-105	
	4. Check inside key antenna.	Console	DLK-60	
		Trunk room	DLK-63	
5. Check Intermittent Incident.		GI-41		

KEY REMINDER FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

KEY REMINDER FUNCTION SYMPTOMS

Symptom Table

INFOID:000000009471748

KEY REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work flow”. Refer to [DLK-9, "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.
- “ANSWER BACK FUNCTION” is ON when setting on CONSULT.
- 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.	1. Check “ANTI KEY LOCK IN FUNCTI”setting in “WORK SUPPORT”.	DLK-53	
	2. Check door switch.	DLK-67	
	3. Check inside key antenna.	Console	DLK-60
		Trunk room	DLK-63
	4. Check unlock sensor.	DLK-80	
	5. Check Intelligent Key battery inspection.	DLK-113	
6. Check Intermittent Incident.	GI-41		

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HAZARD FUNCTION

< SYMPTOM DIAGNOSIS >

HAZARD FUNCTION

Symptom Table

INFOID:000000009471749

HAZARD AND BUZZER REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work flow”. Refer to [DLK-9, "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.
- “ANSWER BACK FUNCTION” is ON when setting on CONSULT.
- 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 switch. (Buzzer reminder operate.)	1. Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.	DLK-53
	2. Check hazard function.	DLK-121
	3. Check Intermittent incident.	GI-41
Hazard reminder does not operate by Intelligent Key. (Buzzer reminder operate.)	1. Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.	DLK-53
	2. Check hazard function.	DLK-121
	3. Check Intelligent Key battery inspection.	DLK-113
Buzzer reminder does not operate by request switch. (Hazard reminder operate.)	1. Check “ANS BACK I-KEY LOCK” or “ANS BACK I-KEY UNLOCK” setting in “WORK SUPPORT”.	DLK-53
	2. Check Intelligent Key warning buzzer.	DLK-105
	3. Check Intermittent incident.	GI-41
Buzzer reminder does not operate by trunk opener request switch.	1. Check “TRUNK OPEN DELAY” setting in “WORK SUPPORT”.	DLK-53
	2. Check Intelligent Key warning buzzer.	DLK-105
	3. Check trunk open function.	DLK-32
	4. Check Intermittent incident.	GI-41

HORN FUNCTION

< SYMPTOM DIAGNOSIS >

HORN FUNCTION

Symptom Table

INFOID:000000009471750

HAZARD AND HORN REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work flow”. Refer to [DLK-9, "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.
- Ignition switch is in OFF position.
- All doors are closed.

Symptom	Diagnosis/service procedure	Reference page
Hazard reminder does not operate by request switch. (Horn reminder operate.)	1. Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.	DLK-53
	2. Check hazard function.	DLK-121
	3. Check Intermittent Incident.	GI-41
Hazard reminder does not operate by Intelligent Key. (Horn reminder operate.)	1. Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.	DLK-53
	2. Check hazard function.	DLK-121
	3. Check Intelligent Key battery inspection.	DLK-113
Horn reminder does not operate by request switch. (Hazard reminder operate.)	1. Check “ANSWER BACK WITH I-KEY LOCK” or “ANSWER BACK WITH I-KEY UNLOCK” setting in “WORK SUPPORT”.	DLK-53
	2. Check Intelligent Key warning buzzer.	DLK-105
	3. Check Intermittent Incident.	GI-41
Horn reminder does not operate by Intelligent Key. (Hazard reminder operate.)	1. Check “HORN WITH KEYLESS LOCK” setting in “WORK SUPPORT”.	DLK-53
	2. Check horn function.	DLK-117
	3. Check Intermittent Incident.	GI-41

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INTEGRATED HOMELINK TRANSMITTER

< SYMPTOM DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER

Symptom Table

INFOID:000000009471751

HOMELINK UNIVERSAL TRANSCEIVER MALFUNCTION

Symptom	Diagnosis/service procedure	Reference page
Homelink universal transceiver does not operate properly.	1. Check homelink universal transceiver function.	DLK-122
	2. Check Intermittent Incident.	GI-41

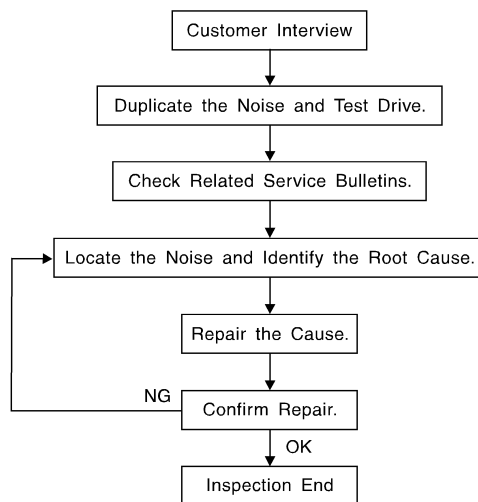
SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:00000009895353



SBT842

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-199, "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 >

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 and A/T models).
 - 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: J-39565 and mechanic's 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 fasteners 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 temporarily.
 - 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 [DLK-196. "Generic Squeak and Rattle Troubleshooting"](#).

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-50397) 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.

NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
 - SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease 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.

Generic Squeak and Rattle Troubleshooting

INFOID:000000009895354

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

1. Cluster lid A and the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel 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 silicone 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. Shift selector 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
3. 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-50397) 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:

1. 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

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:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor 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.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

3. Loose screws at console attachment points.

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 installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:000000009895355

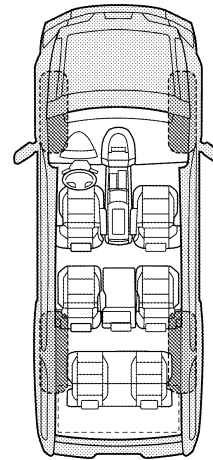
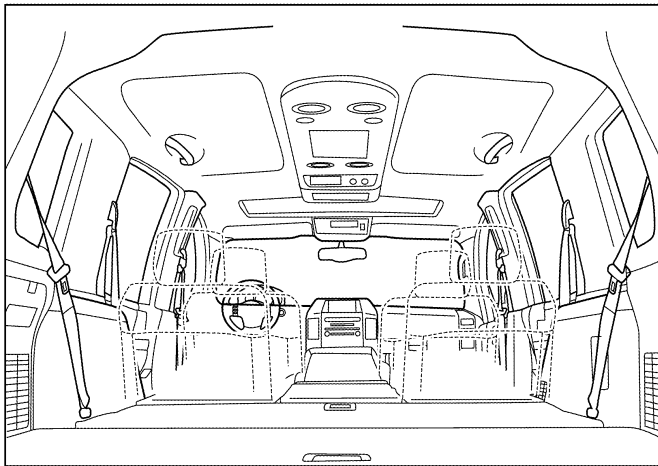
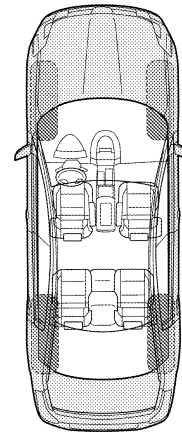
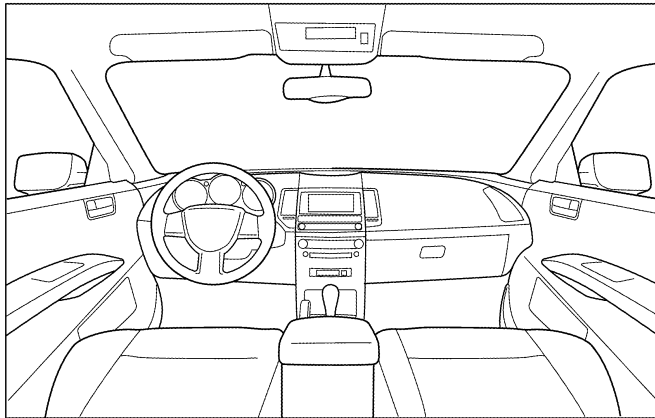
Dear Customer:

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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> Anytime | <input type="checkbox"/> After sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> When it is raining or wet |
| <input type="checkbox"/> Only when it is cold outside | <input type="checkbox"/> Dry or dusty conditions |
| <input type="checkbox"/> Only when it is hot outside | <input type="checkbox"/> Other: |

III. WHEN DRIVING:

- 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: _____
- After driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- Squeak (like tennis shoes on a clean floor)
- Creak (like walking on an old wooden floor)
- 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)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

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HOOD

< REMOVAL AND INSTALLATION >

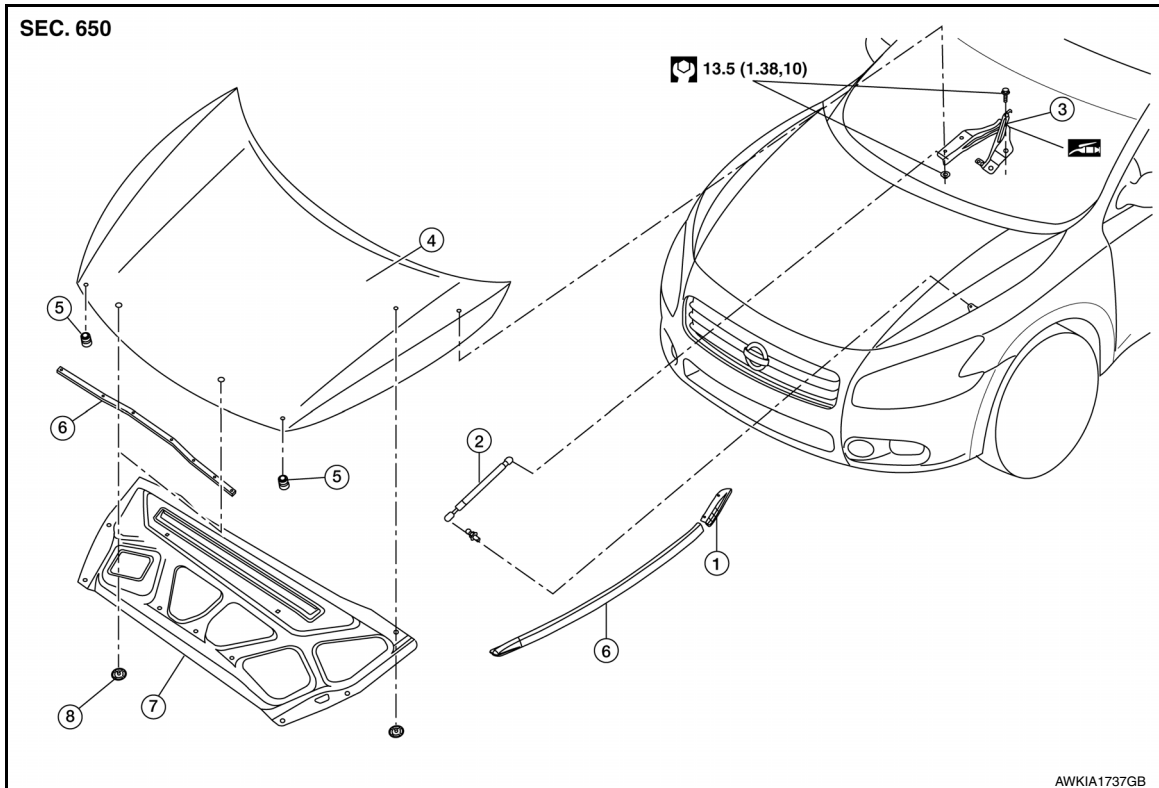
REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000009471755



- | | | |
|--------------------------|-------------------------|--------------------|
| 1. Hood hinge cover (LH) | 2. Hood stay (LH) | 3. Hood hinge (LH) |
| 4. Hood assembly | 5. Hood bumper rubber | 6. Seal |
| 7. Hood insulator | 8. Hood insulator clips | |

HOOD ASSEMBLY : Removal and Installation

INFOID:000000009471756

CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

REMOVAL

1. Support the hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

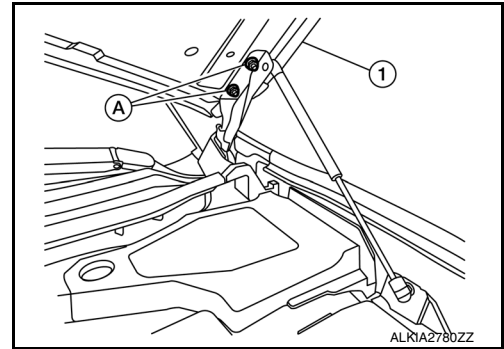
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HOOD

< REMOVAL AND INSTALLATION >

2. Remove hood hinge to hood nuts (A) and then remove the hood assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

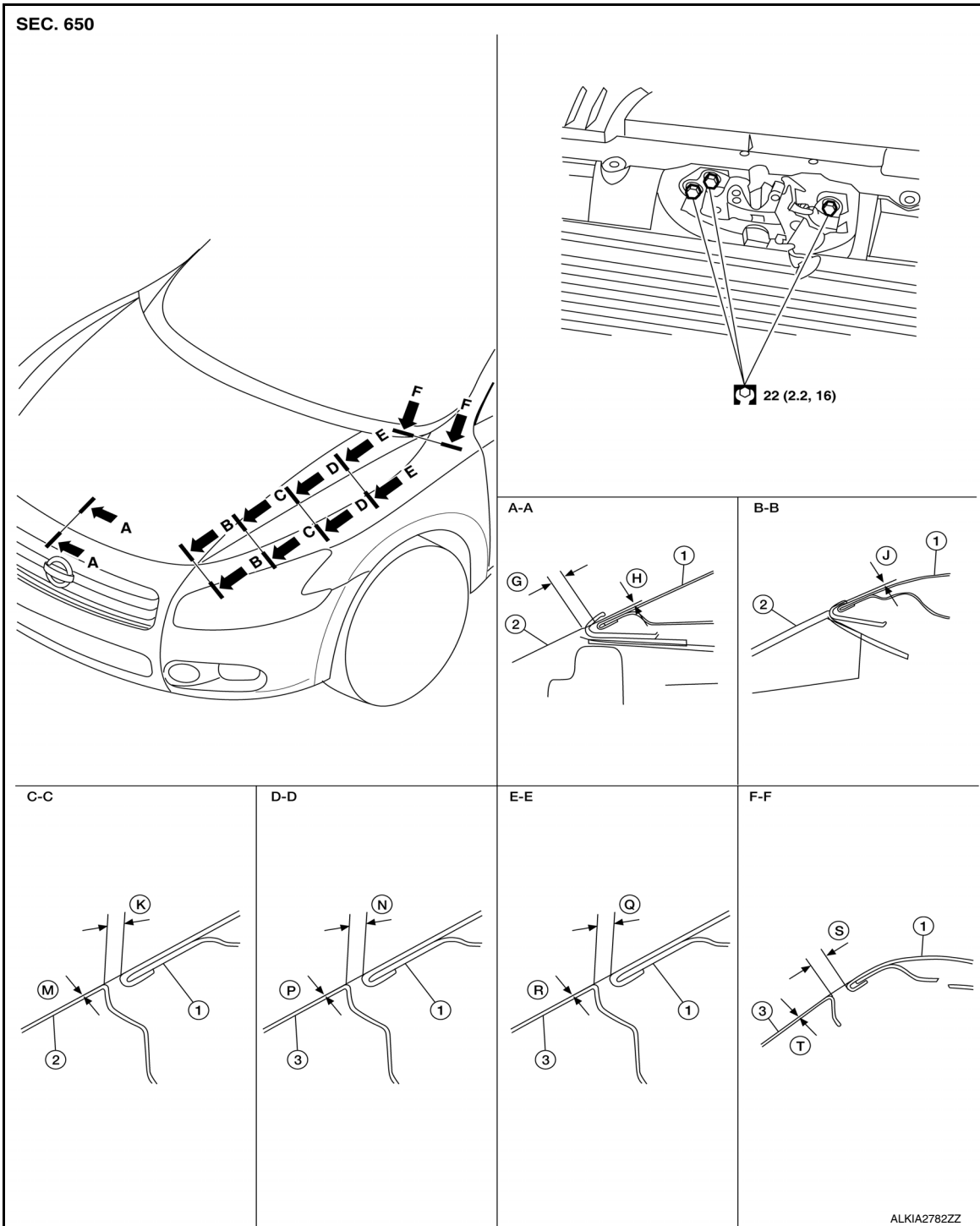
- After installation, perform the hood assembly adjustment procedure. Refer to [DLK-203, "HOOD ASSEMBLY : Adjustment"](#).
- When replacing hood stay(s). Refer to [DLK-208, "HOOD STAY : Disposal"](#)

HOOD

< REMOVAL AND INSTALLATION >

HOOD ASSEMBLY : Adjustment

INFOID:00000009471757



1. Hood assembly

2. Front fascia

3. Front fender

FRONT END HEIGHT ADJUSTMENT AND LATERAL/LONGITUDINAL CLEARANCE ADJUSTMENT

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

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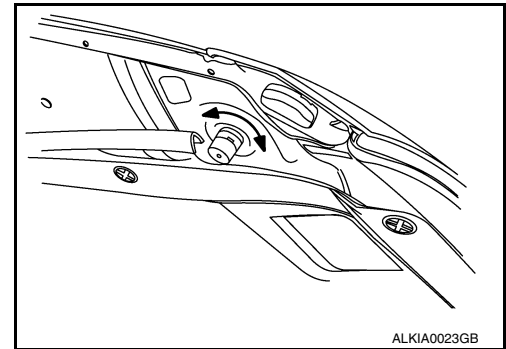
< REMOVAL AND INSTALLATION >

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A – A	G	Clearance	4.5 ± 2.0 (0.18 \pm 0.08)	≤ 2.0 (0.08)	—
	H	Surface height	-1.0 ± 1.6 (-0.04 \pm 0.06)	≤ 2.0 (0.08)	—
B – B	J	Surface height	-0.7 ± 1.6 (-0.03 \pm 0.06)	≤ 2.0 (0.08)	—
C – C	K	Clearance	4.5 ± 1.0 (0.18 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
	M	Surface height	-0.68 ± 1.0 (-0.027 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
D – D	N	Clearance	4.5 ± 1.0 (0.18 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
	P	Surface height	-0.57 ± 1.0 (-0.022 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
E – E	Q	Clearance	4.5 ± 1.0 (0.18 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
	R	Surface height	-0.37 ± 1.0 (-0.015 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
F – F	S	Clearance	4.5 ± 1.0 (0.18 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
	T	Surface height	-0.24 ± 1.0 (-0.009 \pm 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)

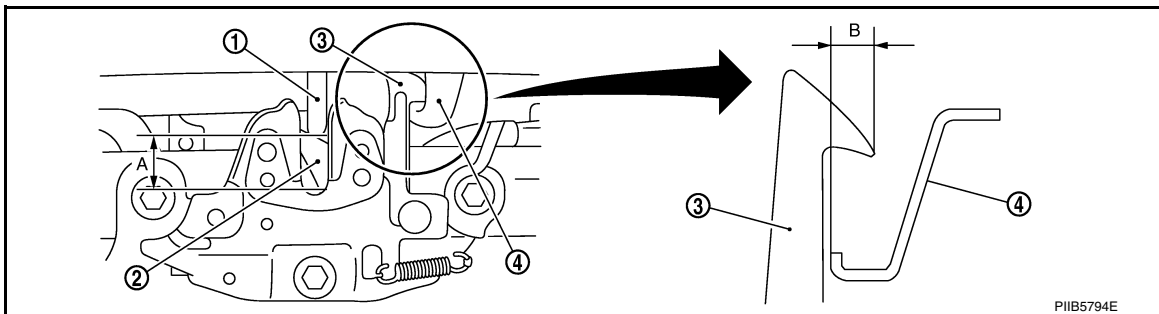
FRONT END HEIGHT ADJUSTMENT

1. Remove the core support cover clips, then remove the core support cover.
2. Remove the hood lock. Refer to [DLK-205, "HOOD LOCK CONTROL : Removal and Installation"](#).
3. Adjust the surface level difference of the hood, fender and front fascia by rotating the hood bumpers until the hood becomes 1 to 1.5 mm (0.04 to 0.06 in) lower than the fender.



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4. Install and align the hood lock center with the center of the hood striker. Engage the lock with the striker and check for looseness.
5. Adjust (A) and (B) shown in the figure to the specified value with hood's own weight by dropping it from approx. 200 mm (7.9 in) height or by pressing the hood closed lightly approximately 29 N (3.0 kg, 6.5 lb).



PIIB5794E

- | | | |
|----------------------|-------------------|---------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary latch |
| 4. Secondary striker | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in) |

6. After adjustment tighten the hood lock bolts to the specified torque.

LATERAL/LONGITUDUNAL CLEARANCE ADJUSTMENT

1. 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.

2. Move the hood so that the clearance measurements are within specifications provided.

HOOD

< REMOVAL AND INSTALLATION >

3. Tighten the hood hinge bolts to the specified torque.

NOTE:

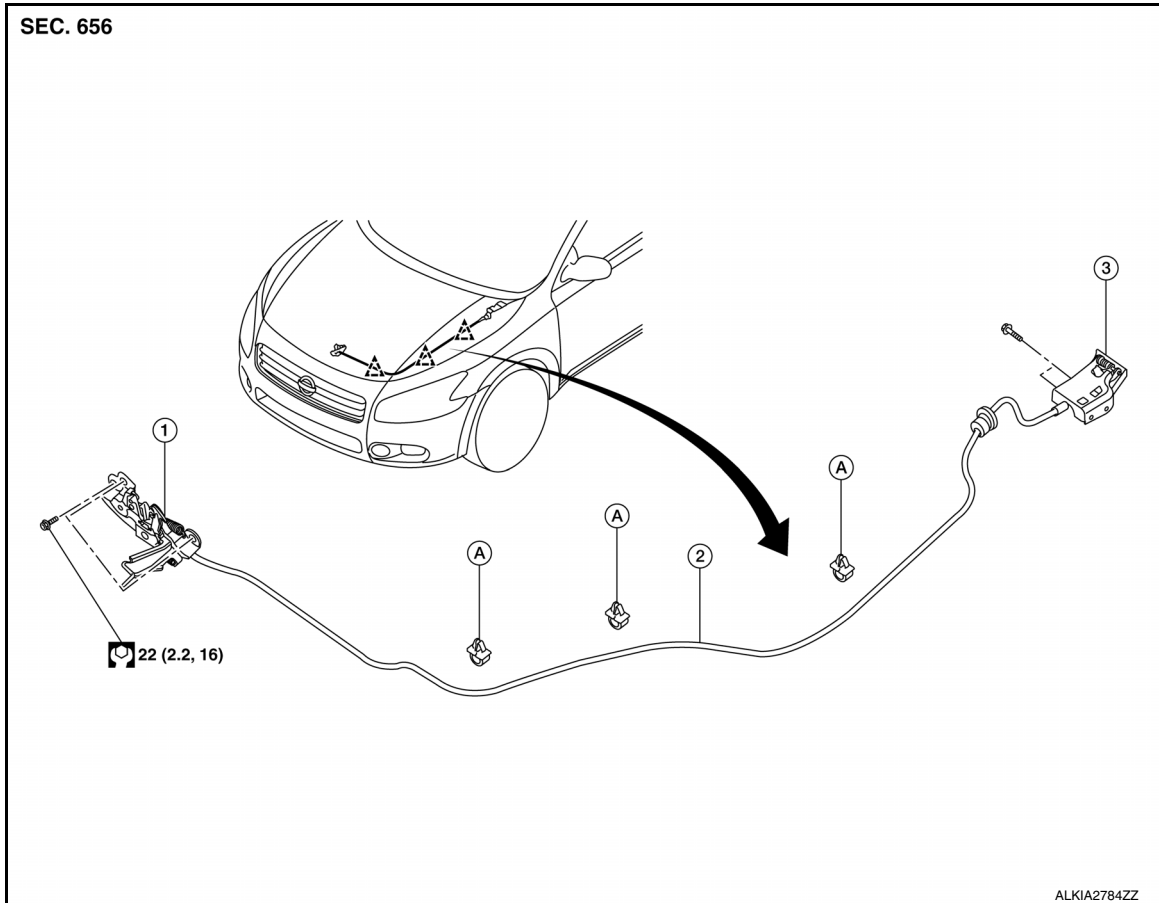
After installation apply touch-up paint onto the hinge bolts and around the base of the hinge.

4. If the clearance measurements between the hood and fender cannot be corrected by adjusting the hood, the fender must be adjusted. Refer to [DLK-211, "Adjustment"](#).

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:000000009471758



- | | | |
|---------------------------------|----------------------------|-----------------------------|
| 1. Hood lock assembly | 2. Hood lock release cable | 3. Hood lock release handle |
| A. Hood lock release cable clip | △ Clip | |

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000009471759

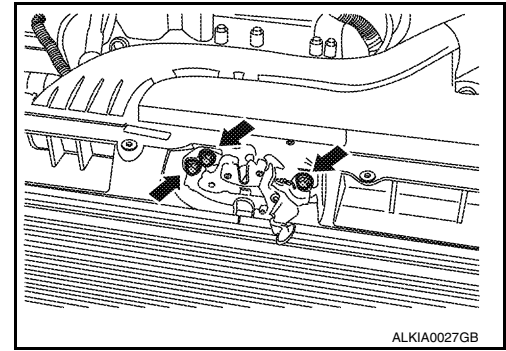
REMOVAL

1. Remove the core support cover clips, then remove the core support cover.
2. Remove the fender protector (LH). Refer to [EXT-24, "Removal and Installation"](#).

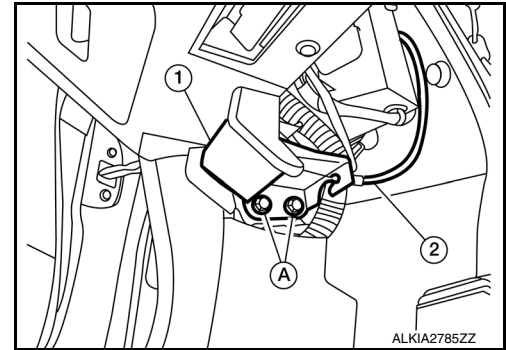
HOOD

< REMOVAL AND INSTALLATION >

3. Remove the hood lock assembly bolts (←→).



4. Disconnect the hood lock release cable from the hood lock, and unclip it from the hoodledge.
5. Remove the bolts (A) and separate the hood lock release handle (1) from the hood lock release cable (2).



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

CAUTION:

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

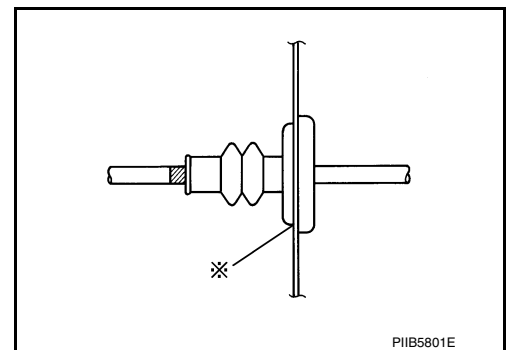
INSTALLATION

1. Pull the hood lock release cable through the upper dash into the engine compartment.

CAUTION:

Be careful not to bend the hood lock release cable too much, keep the radius 100 mm (3.9 in) or more.

2. Check that the hood lock release cable is not offset from the center of the grommet and seat the grommet into the upper dash hole.
3. Apply the sealant around the grommet at * mark.

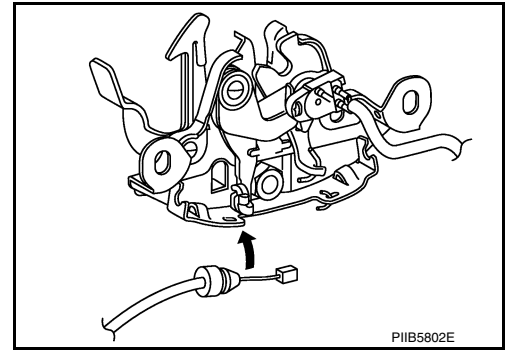


4. Position the hood lock release cable and clip it into place.

HOOD

< REMOVAL AND INSTALLATION >

- Connect the hood lock release cable to the hood lock assembly.



- Install the bolts to hood lock release handle.

Bolts **10 N·m (1.0 kg-m, 7ft-lb)**

- Loosely install the hood lock assembly.
- Perform hood fitting adjustment. Refer to [DLK-203, "HOOD ASSEMBLY : Adjustment"](#).
- Perform the hood lock control inspection. Refer to [DLK-207, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

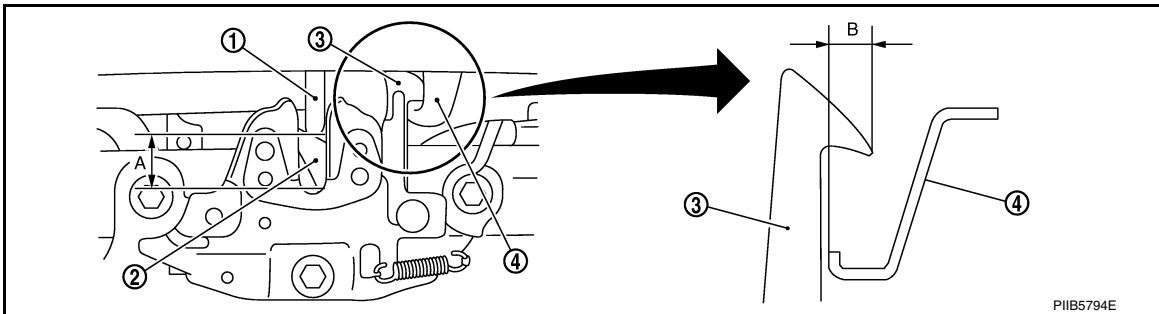
INFOID:000000009471760

INSPECTION

CAUTION:

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

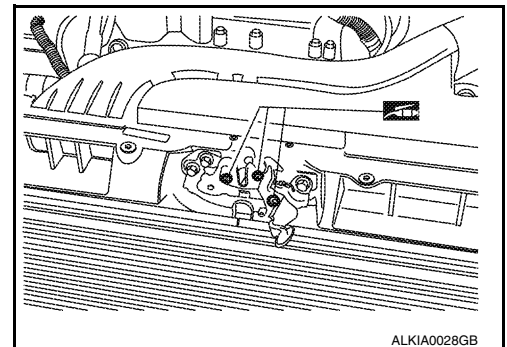
- Check that the secondary latch is properly engaged with the secondary striker with hood's own weight.



- | | | |
|----------------------|-------------------|---------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary latch |
| 4. Secondary striker | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in) |

- 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.
- Check that the hood lock release handle operating force is 49 N (5.0 kg, 11.0 lb) or below.
- Install so the static closing force of the hood assembly is 315 – 490 N·m (32.1– 50.0 kg-m, 70.8 - 110.2 ft-lb).
- Check the hood lock assembly lubrication condition. If necessary, apply a suitable multi-purpose grease as shown.

 Grease



HOOD STAY

HOOD

< REMOVAL AND INSTALLATION >

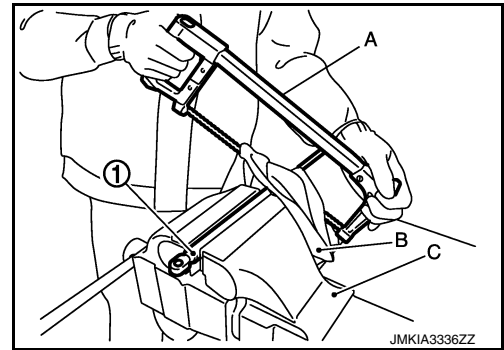
HOOD STAY : Disposal

INFOID:000000009471761

1. Fix hood stay (1) using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the hood stay (1), in numerical order as shown.

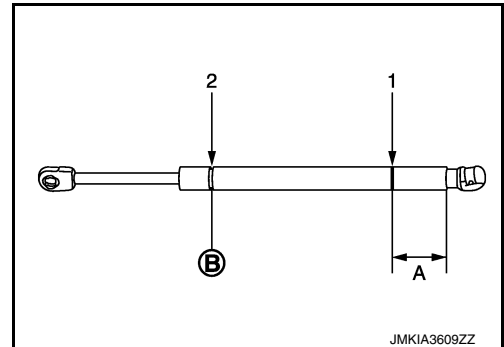
CAUTION:

- When cutting a hole on hood stay, always cover hacksaw with a shop cloth (B) to avoid scattering metal fragments or oil.
- Wear eye protection (safety glasses).
- Wear gloves.



A: 20 mm (0.8 in)

B: Cut at the groove.



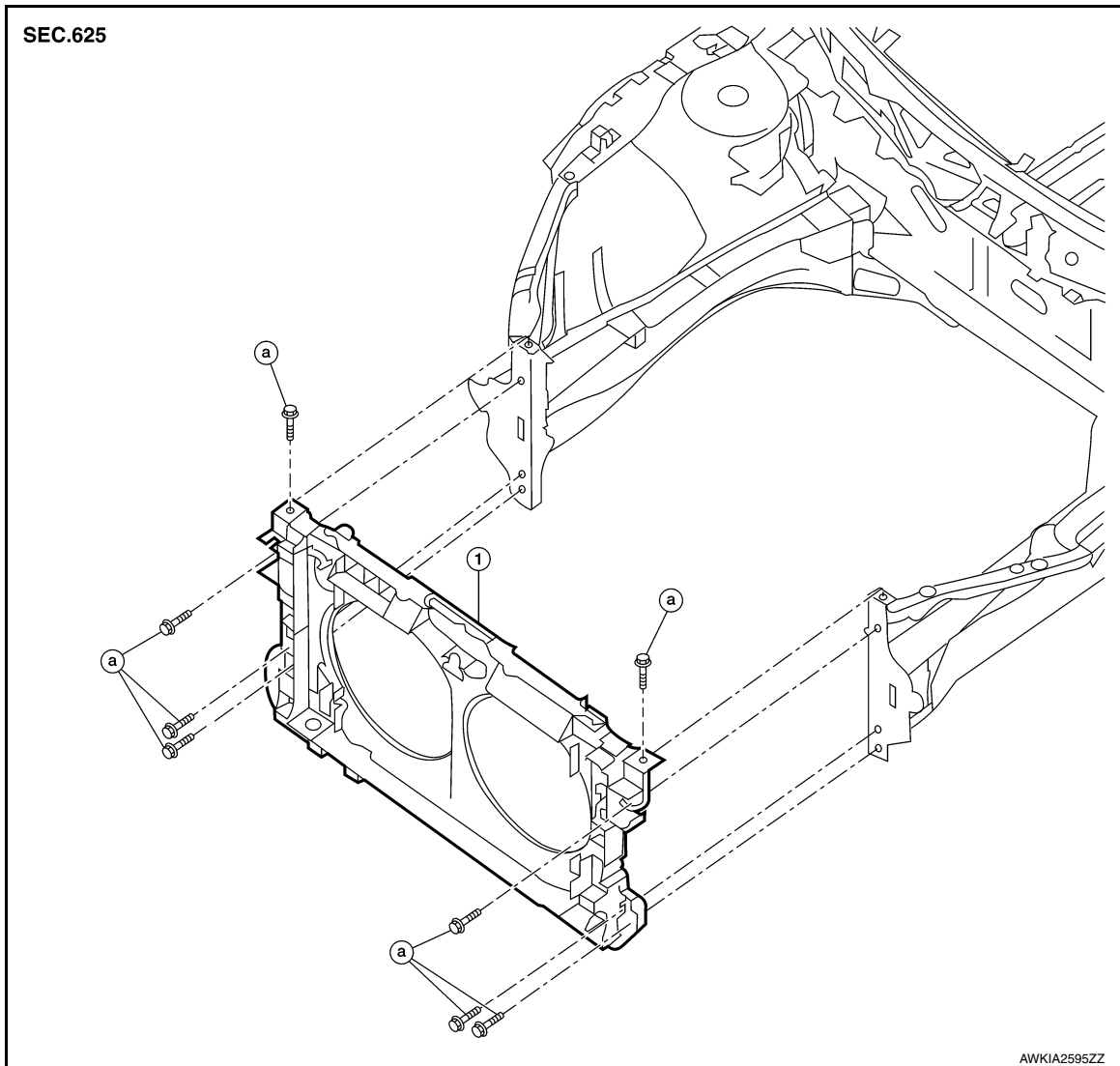
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000009471762



1. Radiator core support

a. Bolts

Removal and Installation

INFOID:000000009471763

REMOVAL

1. Remove front bumper. Refer to [EXT-16. "Removal and Installation"](#).
2. Remove front combination lamps (LH/RH). Refer to [EXL-154. "Removal and Installation"](#) (Xenon Type), [EXL-318. "Removal and Installation"](#) (Halogen Type).
3. Remove the radiator cooling fans. Refer to [CO-16. "Removal and Installation"](#).
4. Remove the radiator. Refer to [CO-14. "Removal and Installation"](#).
5. Remove the hood lock control. Refer to [DLK-205. "HOOD LOCK CONTROL : Removal and Installation"](#).
6. Remove crash zone sensor. Refer to [SR-27. "Removal and Installation"](#).
7. Disconnect power steering tube assembly from clips and position aside. Refer to [ST-30. "Removal and Installation"](#).
8. Remove the horns. Refer to [HRN-7. "Removal and Installation"](#).
9. Remove the harness clips from the radiator core support assembly and position the harness aside.

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

10. Remove the bolts and the radiator core support.

INSTALLATION

Installation is in the reverse order of removal.

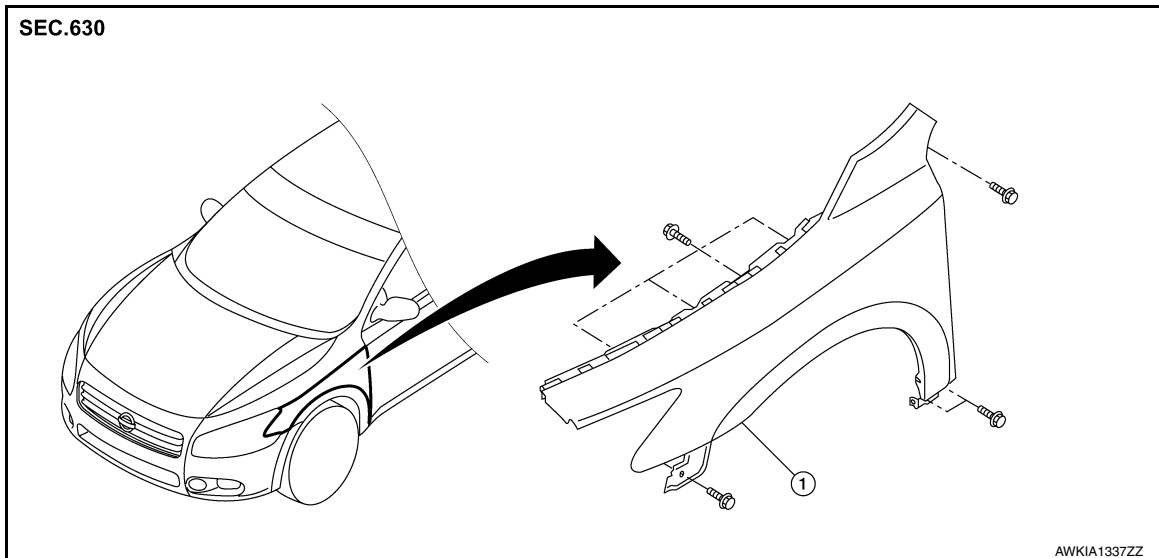
FRONT FENDER

< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

INFOID:000000009471764



1. Front fender

Removal and Installation

INFOID:000000009471765

REMOVAL

1. Remove the front combination lamp. Refer to [EXL-154, "Removal and Installation"](#).
2. Remove the fender protector. Refer to [EXT-24, "Removal and Installation"](#).
3. Remove cowl top side trim cover. [EXT-21, "Removal and Installation"](#)
4. Remove the bolts and the front fender.

CAUTION:

- Use shop cloths to protect the body from being damaged during removal and installation.
- Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the baffle foam or damage to the front fender may occur.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation apply touch up paint (body color) to the head of front fender bolts.
- After installation, adjust the following components as necessary:
 - Hood assembly: Refer to [DLK-203, "HOOD ASSEMBLY : Adjustment"](#).
 - Front door: Refer to [DLK-215, "FRONT DOOR : Adjustment"](#).

Adjustment

INFOID:000000009471766

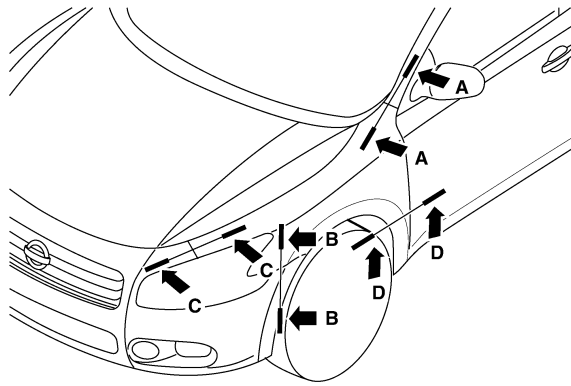
ADJUSTMENT

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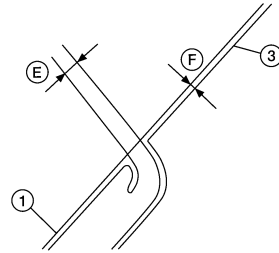
FRONT FENDER

< REMOVAL AND INSTALLATION >

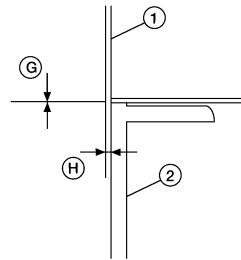
SEC. 630



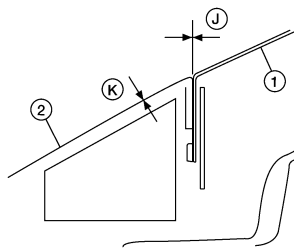
A-A



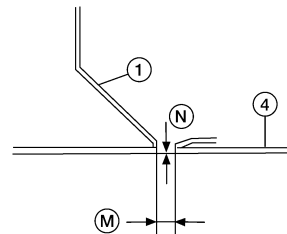
B-B



C-C



D-D



AWKIA1338ZZ

- 1. Front fender
- 2. Front fascia
- 3. Body side outer
- 4. Front door assembly

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A-A	E	Clearance	2.35 ± 1.0 (0.093 \pm 0.04)	≤ 1.0 (0.04)	—
	F	Surface height	0.7 ± 1.0 (0.028 \pm 0.04)	≤ 1.0 (0.04)	≤ 1.0 (0.04)

FRONT FENDER

< REMOVAL AND INSTALLATION >

Section	Item	Measurement	Standard	Parallelism	Equality
B-B	G	Clearance	0.0 + 0.08, - 0.0 (0.0 + 0.003, - 0.0)	—	—
	H	Surface height	0.7 ± 1.3 (0.028 ± 0.05)	≤ 2.0 (0.08)	≤ 2.0 (0.08)
C-C	J	Clearance	0.0 + 0.07, - 0.0 (0.0 + 0.003, - 0.0)	≤ 1.0 (0.04)	≤ 1.0 (0.04)
	K	Surface height	-0.24 ± 1.0 (-0.01 ± 0.04)	≤ 1.5 (0.06)	≤ 2.0 (0.08)
D-D	M	Clearance	4.25 ± 1.0 (0.17 ± 0.04)	—	—
	N	Surface height	0.0 ± 1.0 (0.0 ± 0.04)	—	—

1. Remove the fender protector. Refer to [EXT-24, "Removal and Installation"](#).
2. Loosen the front fender bolts and screws.
3. Adjust the clearance (M) and surface height (N) between the front fender and the front door.
4. Tighten the rear upper and lower front fender bolts.
5. Adjust the clearance (E) and surface height (F) between the front fender and the body side outer.
6. Tighten the inner front fender bolts.
7. Adjust the clearance (J) and the surface height (K) between the top of the front fender and the top of the front fascia.
8. Adjust the clearance (G) and surface height (H) between the side of the front fender and the side of the front fascia.
9. Tighten the front fender to front fascia and bracket screws.
10. Apply touch-up paint (body color) to the head of the front fender bolts.
11. Install the fender protector. Refer to [EXT-24, "Removal and Installation"](#).
12. Install the inner fender bolt cover.

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DOOR

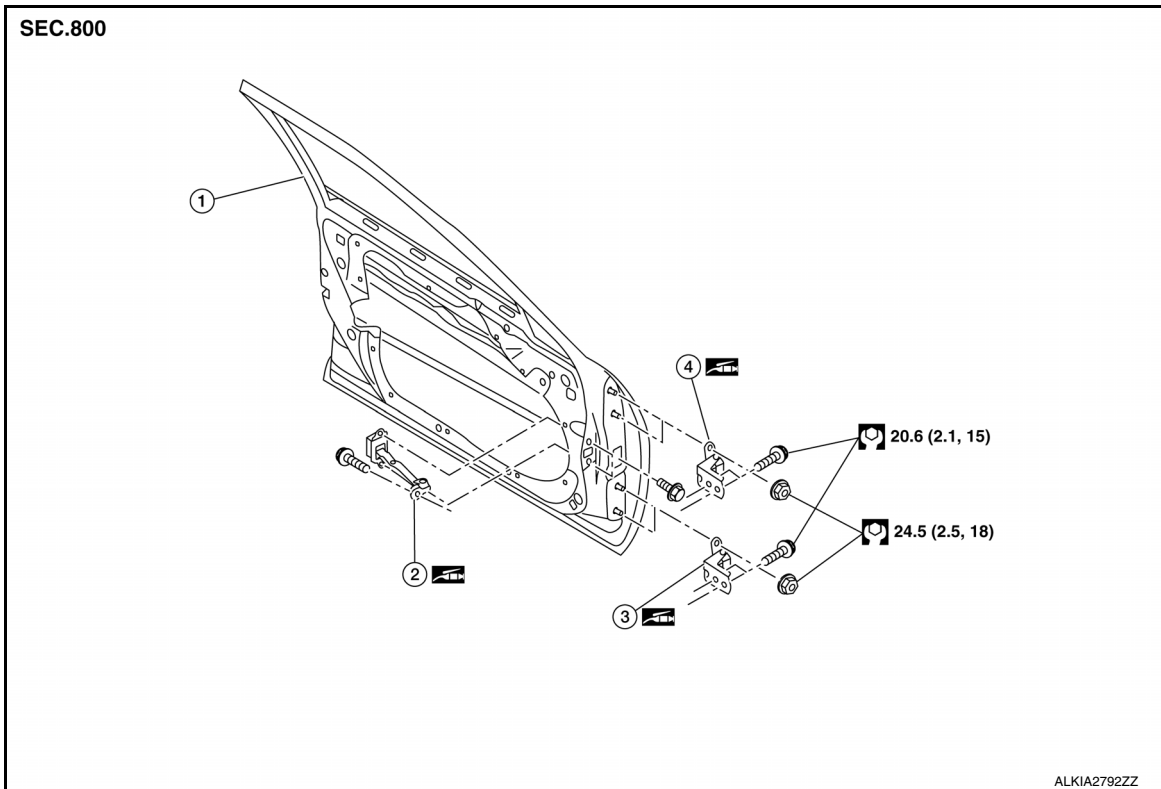
< REMOVAL AND INSTALLATION >

DOOR

FRONT DOOR

FRONT DOOR : Exploded View

INFOID:000000009471767



1. Front door panel
4. Front lower hinge

2. Front door check link
Grease

3. Front door lower hinge

FRONT DOOR : Removal and Installation

INFOID:000000009471768

CAUTION:

- Use two people when removing or installing the front door assembly due to its heavy weight.
- When removing and installing front door assembly, support front door with a suitable tool.

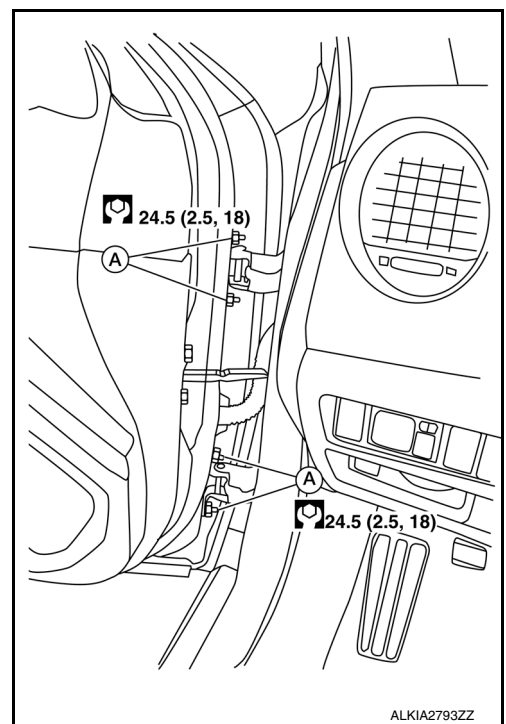
REMOVAL

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.

DOOR

< REMOVAL AND INSTALLATION >

3. Remove front door hinge nuts (A) (door side) and the door assembly.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check front door check link and hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-215, "FRONT DOOR : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.

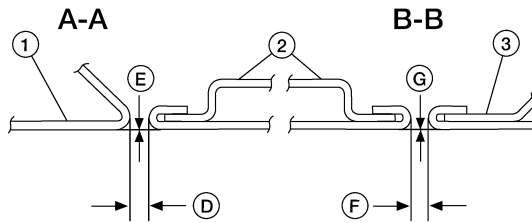
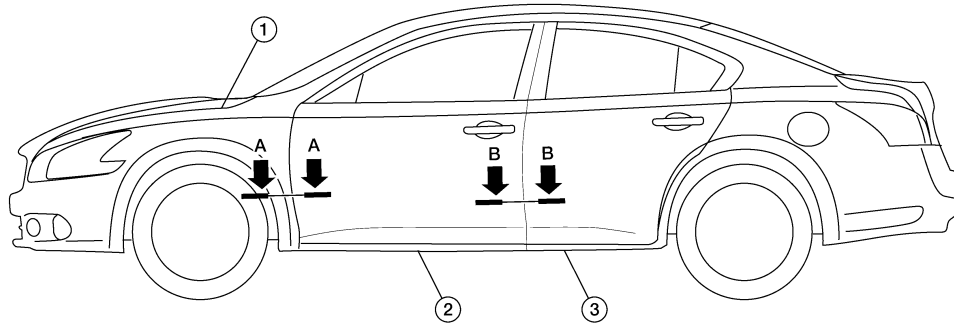
FRONT DOOR : Adjustment

INFOID:000000009471769

ADJUSTMENT

DOOR

< REMOVAL AND INSTALLATION >



AWKIA1339GB

1. Front fender

2. Front door assembly

3. Rear door assembly

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Section	Item	Measurement	Standard
A-A	D	Clearance	4.25 ± 1.0 (0.17 ± 0.04)
	E	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B-B	F	Clearance	4.25 ± 1.0 (0.17 ± 0.04)
	G	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

LONGITUDINAL CLEARANCE

1. Confirm the rear door adjustments and adjust if necessary. Refer to [DLK-218, "REAR DOOR : Adjustment"](#).
2. Remove the front fender. Refer to [DLK-211, "Removal and Installation"](#).

DOOR

< REMOVAL AND INSTALLATION >

3. Loosen the hinge bolts.
4. Raise or lower the front door assembly at rear edge to adjust until it is within specifications provided.
5. Tighten the hinge bolts.
6. Install the front fender. Refer to [DLK-211. "Removal and Installation"](#).

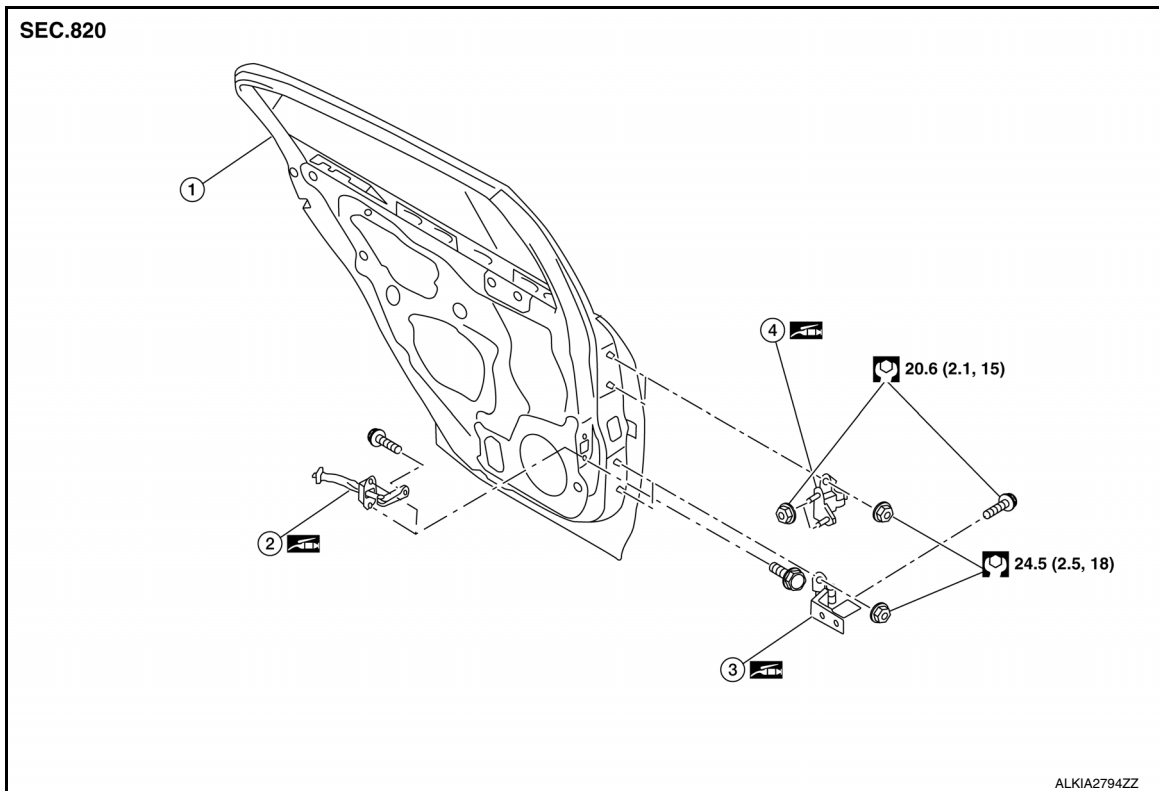
SURFACE HEIGHT ADJUSTMENT

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

REAR DOOR

REAR DOOR : Exploded View

INFOID:000000009471770



1. Rear door assembly
 2. Rear door check link
 3. Rear door lower hinge
 4. Rear door upper hinge
- Grease

REAR DOOR : Removal and Installation

INFOID:000000009471771

CAUTION:

- Use two people when removing or installing the rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support rear door with a suitable tool.

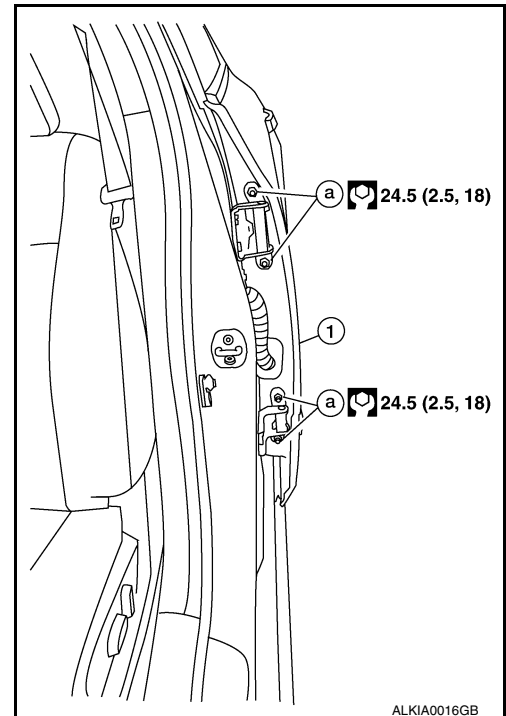
REMOVAL

1. Pull out grommet and disconnect rear door harness connector.
2. Remove the check link bolt from the center pillar.

DOOR

< REMOVAL AND INSTALLATION >

3. Remove rear door hinge nuts (a) (door side) and the door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check rear door check link and hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-218, "REAR DOOR : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.

REAR DOOR : Adjustment

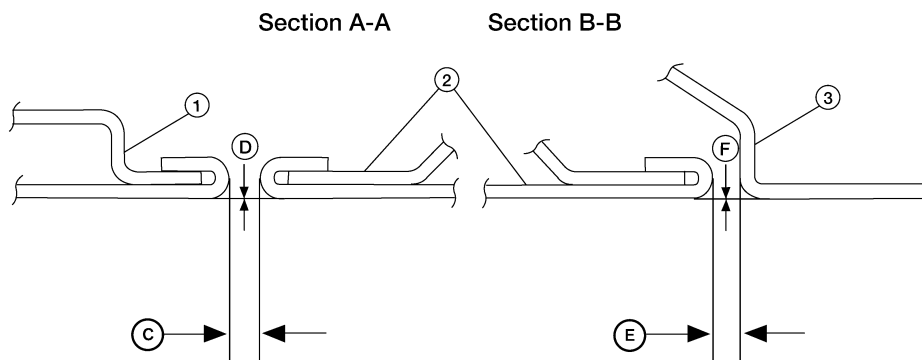
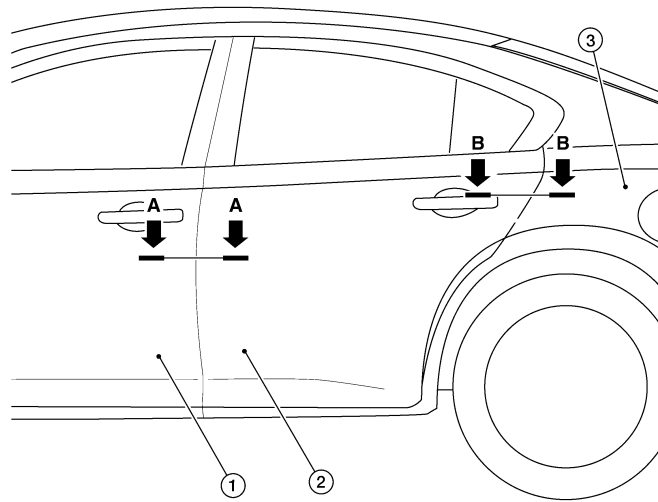
INFOID:000000009471772

ADJUSTMENT

DOOR

< REMOVAL AND INSTALLATION >

SEC. 820



AWKIA1545GB

1. Front door assembly 2. Rear door assembly 3. Body side outer

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Section	Item	Measurement	Standard
A-A	C	Clearance	4.25 ± 1.0 (0.17 ± 0.04)
	D	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B-B	E	Clearance	4.00 ± 1.0 (0.16 ± 0.04)
	F	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

LONGITUDINAL CLEARANCE

1. Remove the center pillar body side trim. Refer to [IP-14, "Removal and Installation"](#).
2. Loosen the rear door upper hinge nuts.
3. Loosen the rear door lower hinge bolts.

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DOOR

< REMOVAL AND INSTALLATION >

4. Raise or lower the door at the rear edge to adjust.
5. Tighten the rear door lower hinge bolts.
6. Tighten the rear door upper hinge nuts.
7. Install the center pillar body side trim. Refer to [IP-14. "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the rear door hinge nuts (door side).
2. Move the top and or the bottom in or out as necessary until it is within specifications provided.
3. Tighten the rear door hinge nuts (door side) to specification.

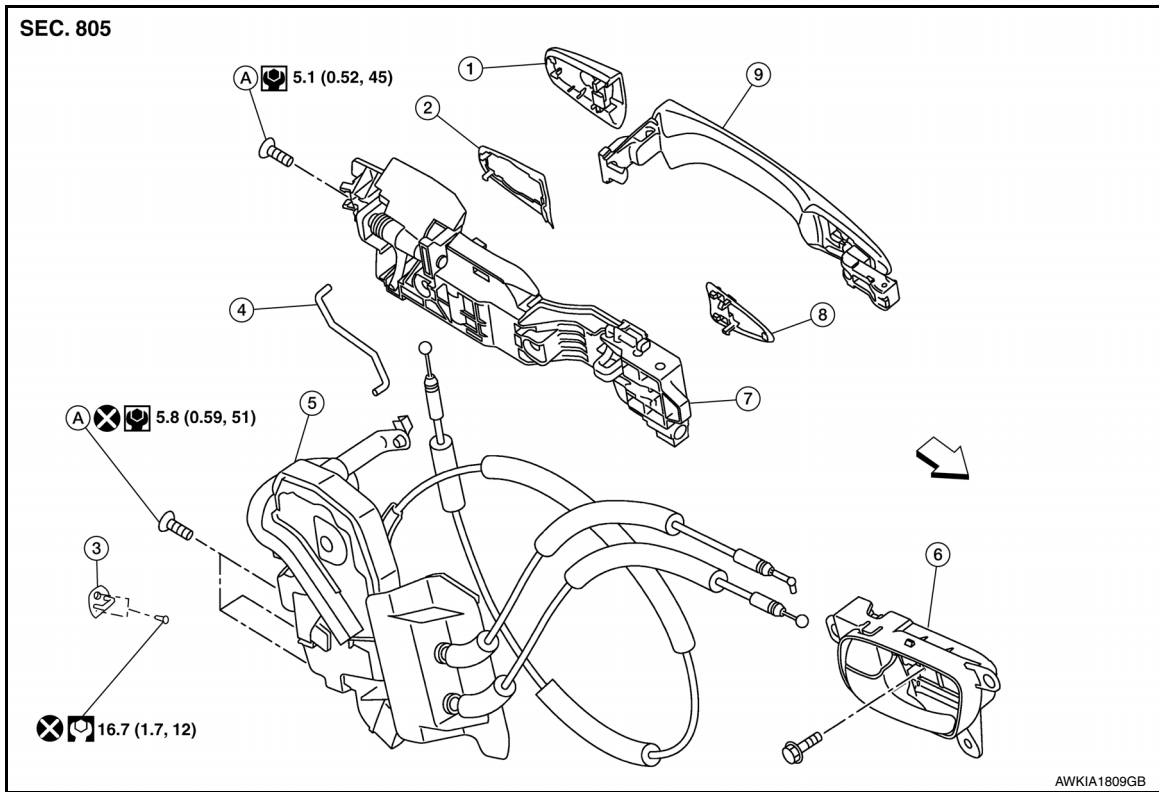
DOOR LOCK

< REMOVAL AND INSTALLATION >

DOOR LOCK FRONT DOOR LOCK

FRONT DOOR LOCK : Exploded View

INFOID:000000009471773



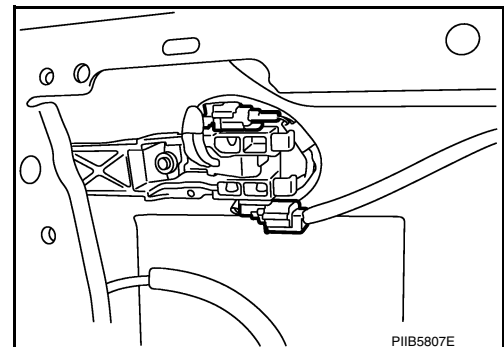
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|--|-----------------------------|-------------------|
| 1. Door key cylinder outside handle escutcheon assembly (drivers side)
Outside handle escutcheon (passenger side) | 2. Rear gasket | 3. Striker |
| 4. Door key cylinder rod (driver side) | 5. Front door lock assembly | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |
| A. Bolt | ← Front | |

FRONT DOOR LOCK : Removal and Installation

INFOID:000000009471774

REMOVAL

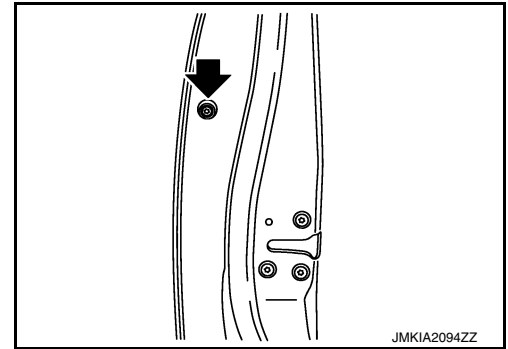
1. Remove front door finisher. Refer to [INT-18. "Removal and Installation"](#).
2. Remove front door module assembly. Refer to [INT-18. "Removal and Installation"](#).
3. Disconnect door antenna and door request switch connector and remove harness clamp on outside handle bracket.



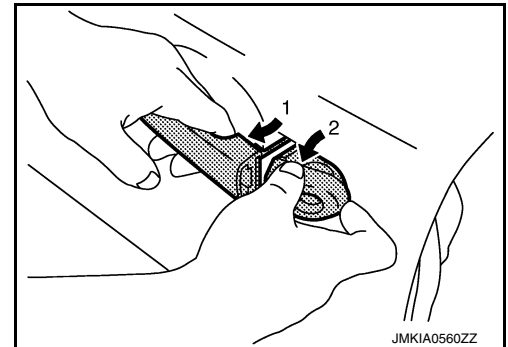
DOOR LOCK

< REMOVAL AND INSTALLATION >

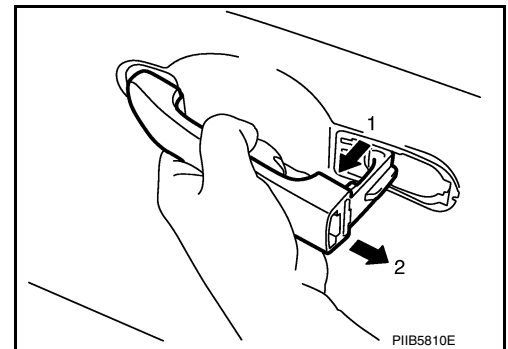
4. Remove door side grommet, and loosen bolt from grommet hole.



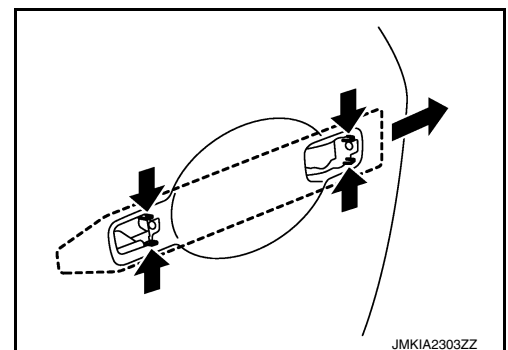
5. Disconnect the door key cylinder rod from the door key cylinder.
6. While pulling outside handle (1), remove door key cylinder assembly (2) (driver side) or outside handle escutcheon (passenger side) (2).



7. While pulling outside handle (1), slide toward rear of vehicle (2) to remove outside handle.



8. Remove front gasket and rear gasket.
9. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



10. Separate the outside handle cable connection from the outside handle bracket.
11. Remove door lock assembly bolts.
12. Disconnect door lock actuator connector, and then remove door lock assembly.
13. Remove key rod from door lock assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

DOOR LOCK

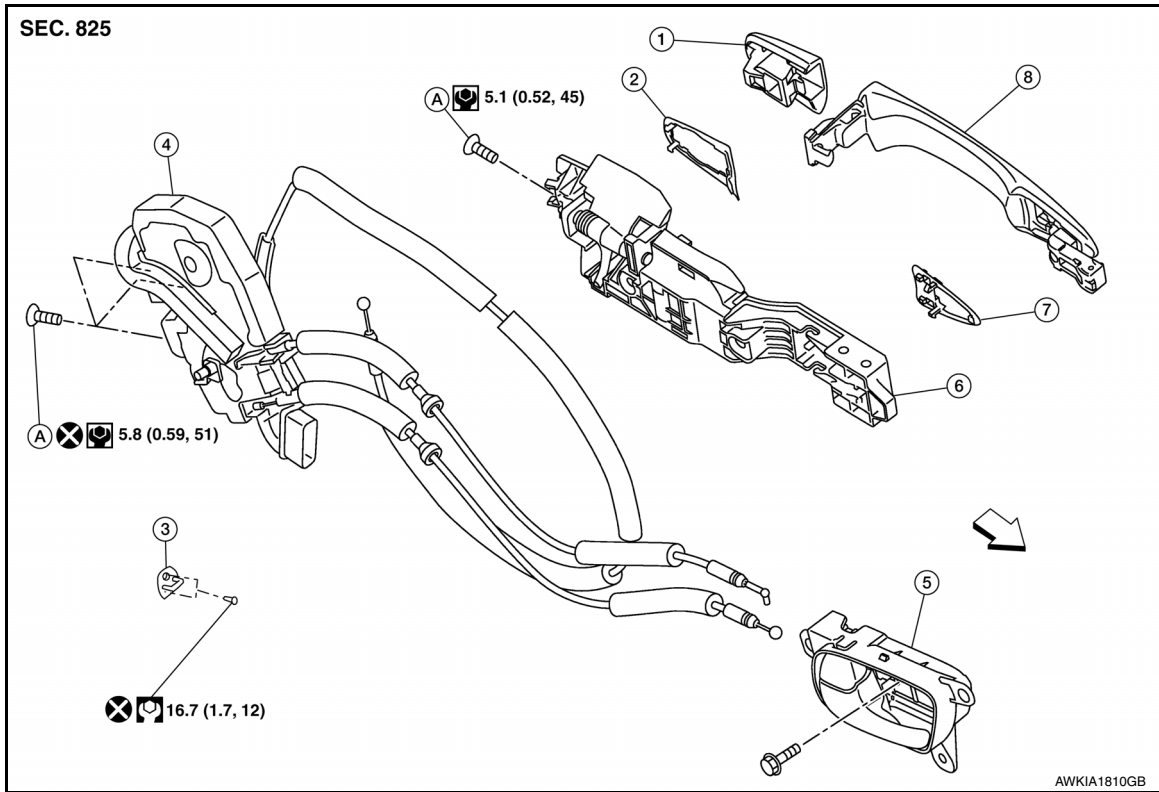
< REMOVAL AND INSTALLATION >

- When installing do not reuse front door lock assembly screw. Always replace screw with new ones when removed.
- When installing door key cylinder rod on the LH front door, be sure to rotate door key cylinder rod holder until a click is felt.
- Check front door lock cable is properly engaged to outside handle bracket.
- After installation, check front door open/close, lock/unlock operation.

REAR DOOR LOCK

REAR DOOR LOCK : Exploded View

INFOID:000000009471775



- | | | |
|------------------------------|-------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. Striker |
| 4. Rear door lock assembly | 5. Inside handle | 6. Outside handle bracket |
| 7. Front gasket | 8. Outside handle | A. Bolt |

↶ Front

REAR DOOR LOCK : Removal and Installation

INFOID:000000009471776

REMOVAL

1. Remove rear door finisher. Refer to [INT-21. "Removal and Installation"](#).
2. Remove sealing screen.
3. Fully close the rear door glass.

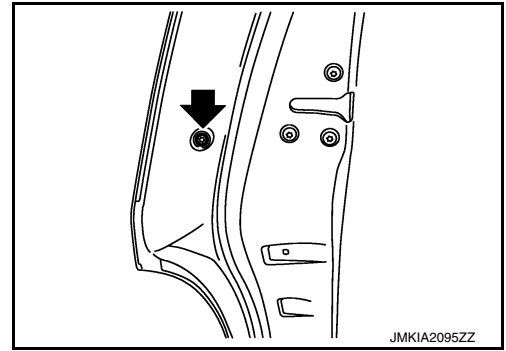
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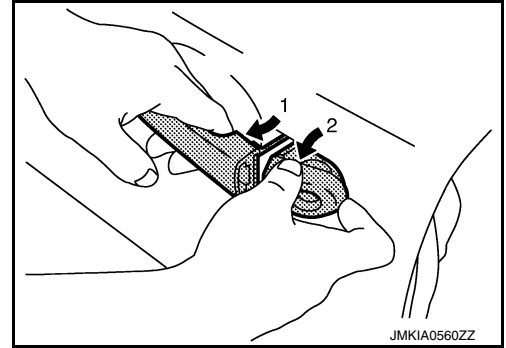
DOOR LOCK

< REMOVAL AND INSTALLATION >

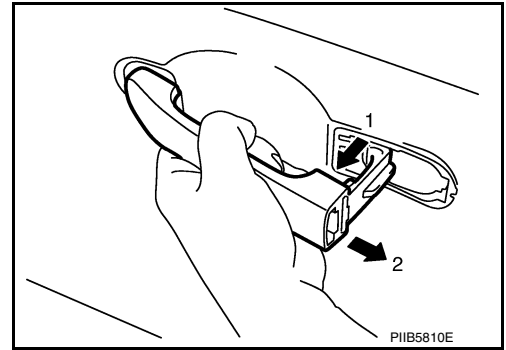
4. Remove door side grommet, and loosen bolt from grommet hole.



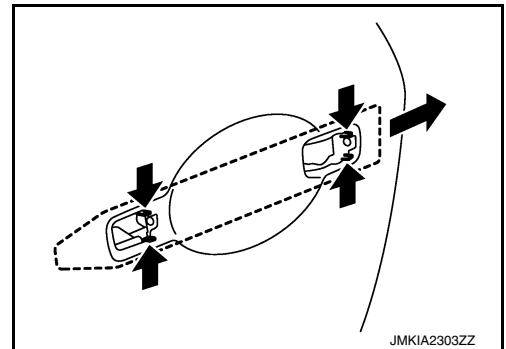
5. While pulling outside handle (1), remove outside handle escutcheon (2).



6. While pulling outside handle (1), slide toward rear of vehicle (2) to remove outside handle.



7. Remove front gasket and rear gasket.
8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Separate the outside handle cable connection from the outside handle bracket.
10. Remove door lock bolts.
11. Remove door lock assembly.

INSTALLATION

Installation in the reverse order of removal.

CAUTION:

- When installing do not reuse rear door lock assembly screw. Always replace screw with new ones when removed.
- Check rear door lock cable is properly engaged to outside handle bracket.

DOOR LOCK

< REMOVAL AND INSTALLATION >

- After installation, check rear door open/close, lock/unlock operation.

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TRUNK LID

< REMOVAL AND INSTALLATION >

TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Removal and Installation

INFOID:000000009471777

CAUTION:

- Use two people when removing or installing trunk lid assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of trunk lid assembly.

REMOVAL

1. Remove trunk lid finisher. Refer to [INT-36. "Removal and Installation"](#).
2. Disconnect the harness connectors in the trunk lid, remove the harness clips, and then pull the harness out of the trunk lid.
3. Remove the nuts and the trunk lid assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check trunk lid open/close, lock/unlock operation.
- After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-227. "TRUNK LID ASSEMBLY : Adjustment"](#).

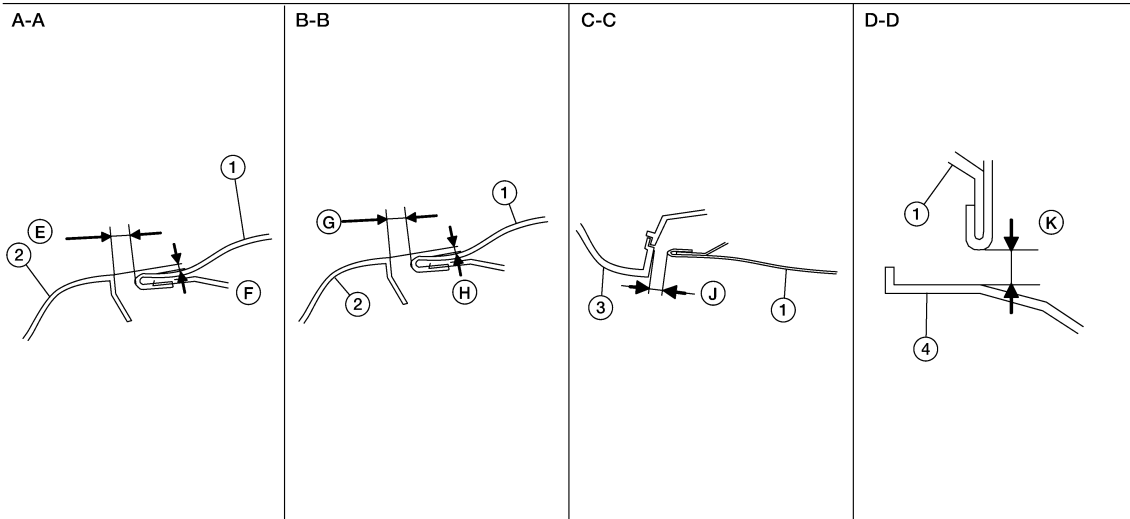
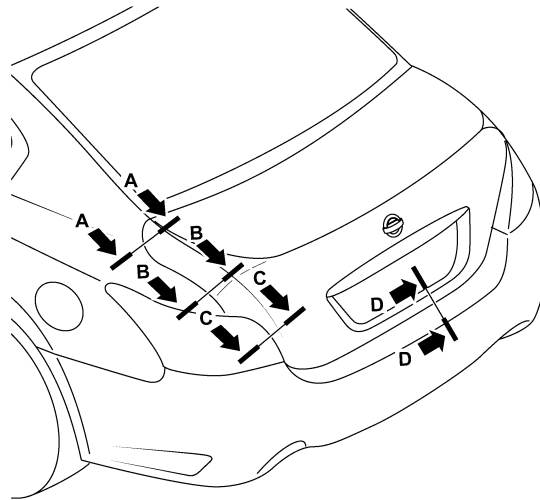
TRUNK LID

< REMOVAL AND INSTALLATION >

TRUNK LID ASSEMBLY : Adjustment

INFOID:000000009471778

SEC. 843



- 1. Trunk lid assembly
- 4. Rear bumper fascia

- 2. Body side outer
- ↔ Front

- 3. Rear combination lamp

AWKIA1553GB

Check the clearance and the surface height between trunk lid and each part by visual inspection and tactile feel.

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TRUNK LID

< REMOVAL AND INSTALLATION >

If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Standard	Right/left clearance (MAX)
A – A	E	4.5 ± 1.0 (0.18 ± 0.04)	≤2.0 (0.08)
	F	-0.5 ± 1.0 (-0.02 ± 0.04)	≤2.0 (0.08)
B – B	G	5.0 ± 1.0 (0.20 ± 0.04)	≤2.0 (0.08)
	H	-0.5 ± 1.0 (-0.02 ± 0.04)	≤2.0 (0.08)
C – C	J	4.5 ± 1.5 (0.18 ± 0.06)	≤2.0 (0.08)
D – D	K	7.0 ± 2.0 (0.28 ± 0.08)	—

LONGITUDINAL CLEARANCE

Trunk Lid Removed From Hinge

1. Loosen the trunk lid to hinge bolts.
2. Move the trunk lid so that the clearance measurements are within specifications provided.
3. Tighten the trunk lid to hinge bolts.

Trunk Lid Hinge Removed From Vehicle

1. Remove the parcel shelf trim. Refer to [INT-28, "Removal and Installation"](#).
2. Loosen the hinge to parcel shelf bolts.
3. Move the trunk lid so that the clearance measurements are within specifications provided.
4. Tighten the hinge to parcel shelf bolts.
5. Install the parcel shelf trim. Refer to [INT-28, "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the bumper rubber.
2. Loosen the striker bolts.
3. Lift up the trunk lid approx. 100 - 150 mm (3.94 - 5.91 in) then close it lightly. Make sure it engages firmly with the trunk lid closed.
4. Tighten the trunk lid striker.

TRUNK LID LOCK

TRUNK LID LOCK : Removal and Installation

INFOID:000000009471779

LOCK

Removal

1. Remove the trunk lid finisher. Refer to [INT-36, "Removal and Installation"](#).
2. Remove the trunk lid lock bolts.
3. Disconnect the harness connector and emergency release handle from the trunk lid lock and remove.

Installation

Installation is in the reverse order of removal.

STRIKER

Removal

1. Remove the trunk rear finisher. Refer to [INT-36, "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-228, "TRUNK LID LOCK : Removal and Installation"](#).

TRUNK LID STAY

TRUNK LID

< REMOVAL AND INSTALLATION >

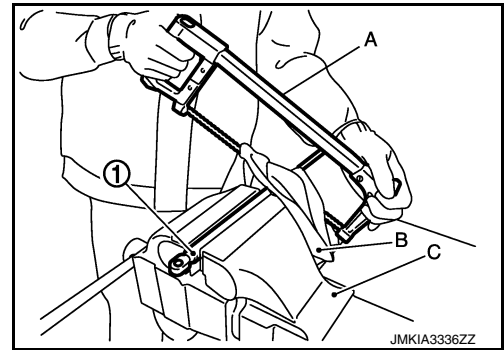
TRUNK LID STAY : Disposal

INFOID:000000009471780

1. Fix trunk lid stay (1) using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the trunk lid stay, in numerical order as shown.

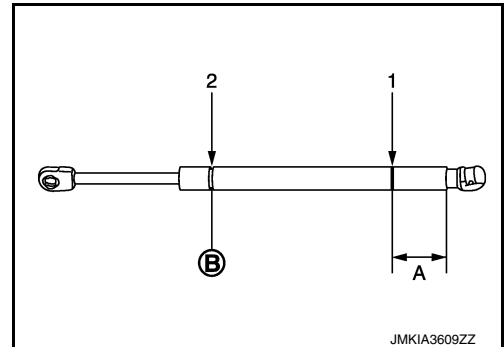
CAUTION:

- When cutting a hole on trunk lid stay, always cover hacksaw with a shop cloth (B) to avoid scattering metal fragments or oil.
- Wear eye protection (safety glasses).
- Wear gloves.



A: 20 mm (0.8 in)

B: Cut at the groove.



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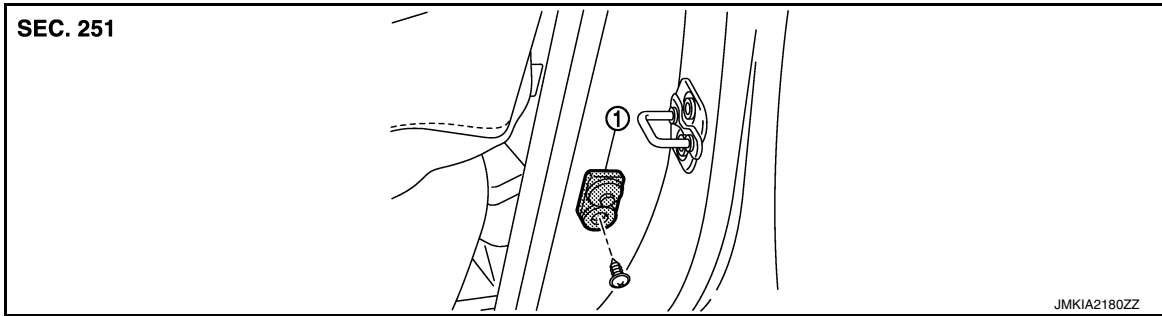
DOOR SWITCH

< REMOVAL AND INSTALLATION >

DOOR SWITCH

Exploded View

INFOID:000000009471781



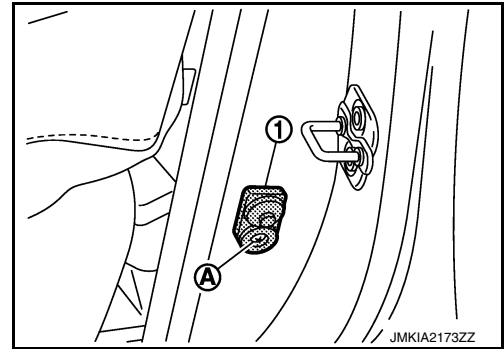
1. Door switch

Removal and Installation

INFOID:000000009471782

REMOVAL

1. Remove the door switch screw (A).
2. Disconnect the harness connector from the door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

TRUNK LID OPENER SWITCH

< REMOVAL AND INSTALLATION >

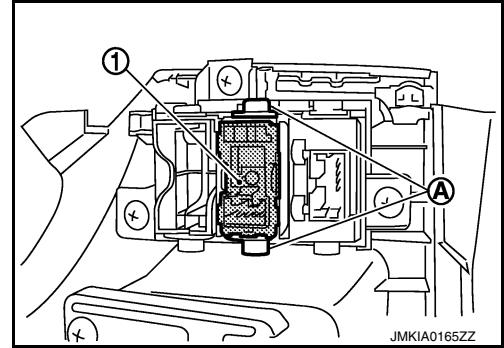
TRUNK LID OPENER SWITCH

Removal and Installation

INFOID:000000009471783

REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-19. "Removal and Installation"](#).
2. Release pawls (A), and press trunk lid opener switch (1) front side to remove from instrument lower panel LH.



INSTALLATION

Installation is in the reverse order of removal.

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DLK

TRUNK OPENER REQUEST SWITCH

< REMOVAL AND INSTALLATION >

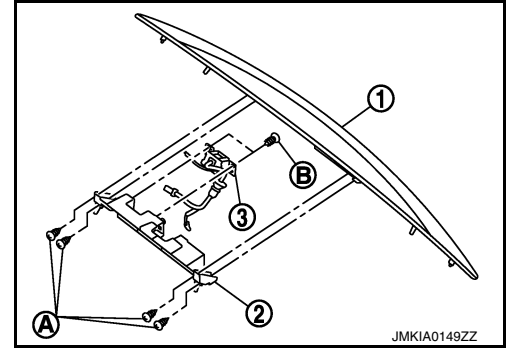
TRUNK OPENER REQUEST SWITCH

Removal and Installation

INFOID:000000009471784

REMOVAL

1. Remove the license lamp finisher (1). Refer to [EXL-166. "Removal and Installation"](#).
2. Remove the inner bracket screws (A) and inner bracket (2) from license lamp finisher (1).
3. Remove the trunk lid request switch screw (B) and trunk lid request switch (3).



INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY BATTERY

Removal and Installation

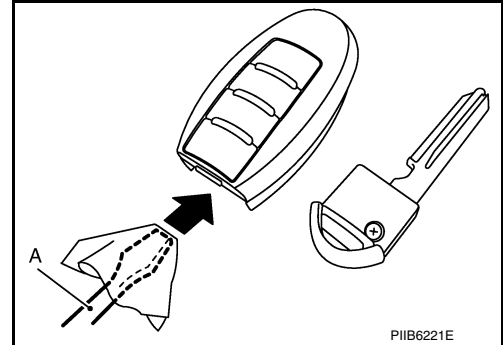
INFOID:000000009471785

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

2. Insert a suitable tool (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 key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



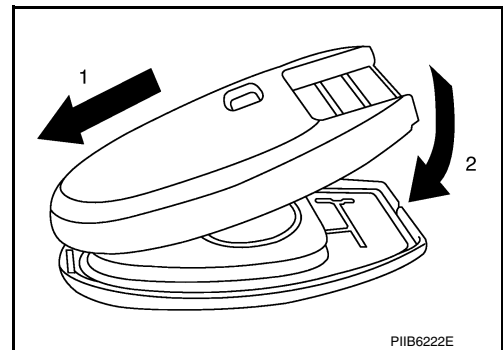
3. Replace the battery with new one.

Battery replacement :Coin-type lithium battery (CR2032)

4. 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.
- After replacing the battery, check that all Intelligent Key functions work normally.



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REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

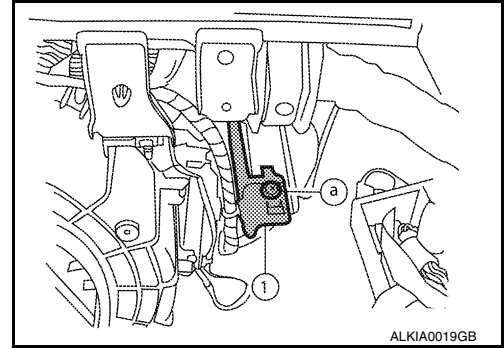
REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:000000009471786

REMOVAL

1. Remove glove box assembly. Refer to [IP-20. "Removal and Installation"](#).
2. Disconnect the harness connector from the remote keyless entry receiver (1).
3. Remove the screw (a) and remote keyless entry receiver (1).



INSTALLATION

Installation is in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA

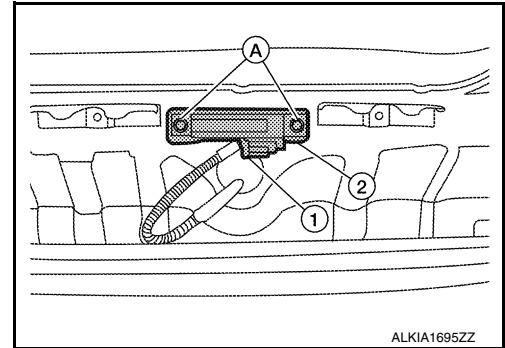
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:000000009471787

REMOVAL

1. Remove the rear bumper. Refer to [EXT-17. "Removal and Installation"](#).
2. Disconnect harness connector (1) from the outside key antenna (rear bumper) (2).
3. Remove the outside key antenna (rear bumper) screws (A) and outside key antenna (rear bumper) (2).



INSTALLATION

Installation is in the reverse order of removal.

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DLK