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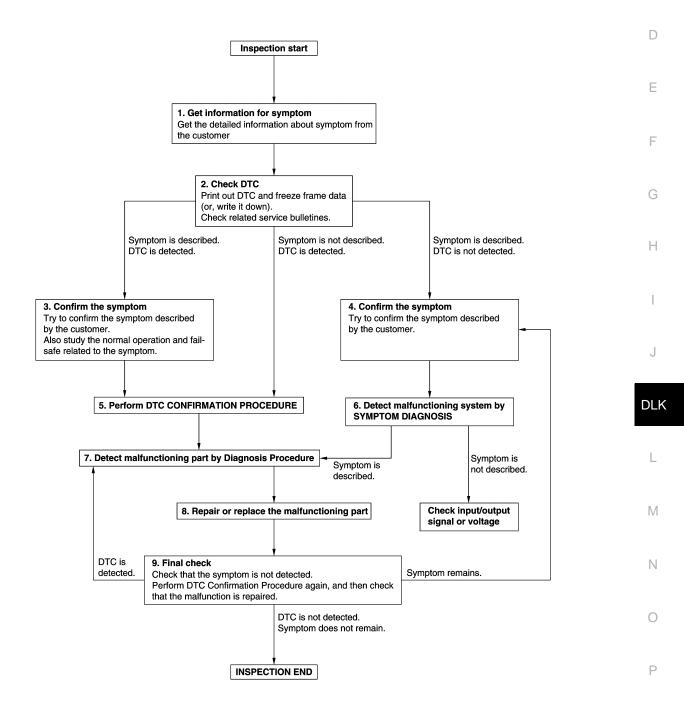
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

**OVERALL SEQUENCE** 



JMKIA8652GB

## DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

# 1.GET INFORMATION FOR SYMPTOM

- 1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
- 2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

# 2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is detected.
- Record DTC and freeze frame data (Print them out using 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.

#### Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

## 3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

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

>> GO TO 5.

## 4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

# PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to <u>DLK-144, "DTC Inspection Priority Chart"</u> (BCM), 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 on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIR-MATION PROCEDURE.

## Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-46, "Intermittent Incident".

# 6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

#### Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.

# 7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

## **DIAGNOSIS AND REPAIR WORK FLOW**

## < BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-46. "Intermittent Incident".

# 8.repair or replace the malfunctioning part

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement
- 3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

# 9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

#### Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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## **INSPECTION AND ADJUSTMENT**

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

# INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

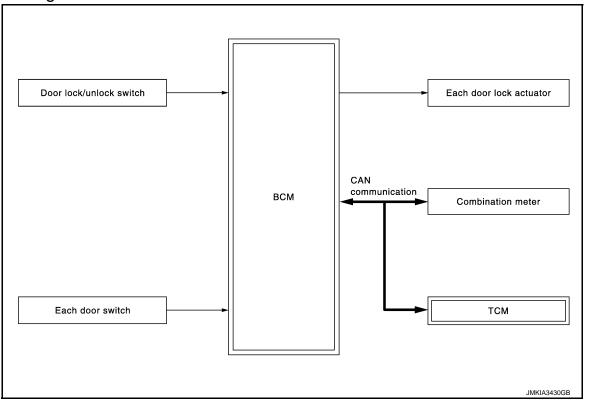
INFOID:0000000008281700

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

# SYSTEM DESCRIPTION

## POWER DOOR LOCK SYSTEM

System Diagram



# System Description

INFOID:0000000008281702

#### DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) are build into power window main switch.
- The door lock and unlock (passenger side) is on door trim.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors and are unlocked.
- When ignition switch is ON and BCM receives air bag deployment signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag deployment signal to BCM.

#### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

The interlock door lock function is the function that locks all doors linked with the vehicle speed or shift position. It has 2 types as per the following items.

#### Vehicle Speed Sensing Auto Door Lock\*1

All doors are locked when the vehicle speed reaches 10 km/h (6 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the unified meter and A/C amp. via CAN communication becomes 10 km/h (6 MPH) or more.

## P Range Interlock Door Lock

All doors 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 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 Lock/Unlock Function

The automatic door lock function ON/OFF can be switched by performing the following operation.

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#### POWER DOOR LOCK SYSTEM

#### < SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- Close all doors (door switch OFF)
- 2. Turn ignition switch ON
- 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 switch is complete when the hazard lamp blinks.

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

#### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

The automatic door lock/unlock function is the function that unlocks all doors linked with the key position or shift position. It has 2 types as per the following items.

#### IGN OFF Interlock Door Unlock\*1

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

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

#### P Range Interlock Door Unlock

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

BCM outputs the unlock signal to all door lock 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 positions.

#### Key out Interlock Door Unlock

When mechanical key is removed from ignition knob switch, all doors unlock.

When BCM detects that mechanical key is removed from ignition knob switch, BCM transmits unlock signal to all door lock actuators.

#### Setting change of Automatic Door Lock/Unlock Function

The automatic door lock/unlock function ON/OFF can be switched by performing the following operation.

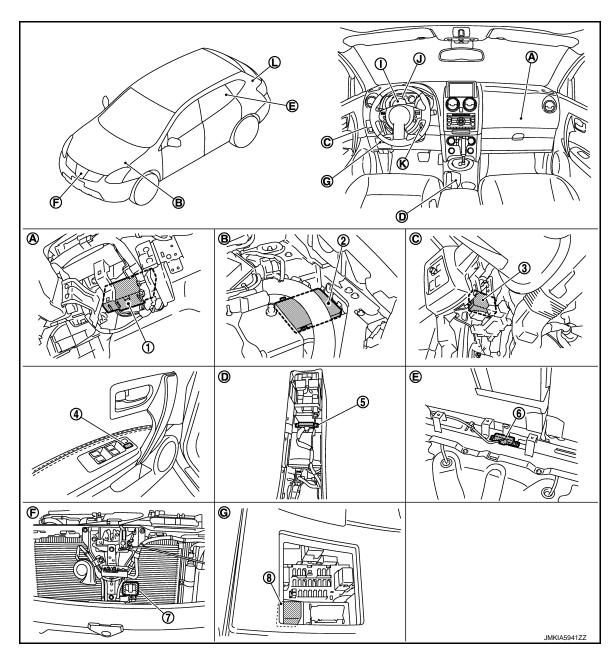
- 1. Close all doors below (door switch OFF)
- 2. Turn ignition switch ON
- Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
- 4. The switch is complete when the hazard lamp blinks.

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

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

# Component Parts Location

INFOID:0000000008281703



- **BCM** 1.
- Power window main switch (door lock 4. and unlock switch)
- Intelligent key warning buzzer 7.
- A. Over the glove box
- View with lower instrument cover remove E. D.
- G. View with front bumper removed

- IPDM E/R 2.
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- В. Engine room LH
- View with center console removed
- View with fuse box lid removed

- 3. Intelligent key unit
- Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed

**DLK-17** Revision: 2013 December **2013 ROGUE** 

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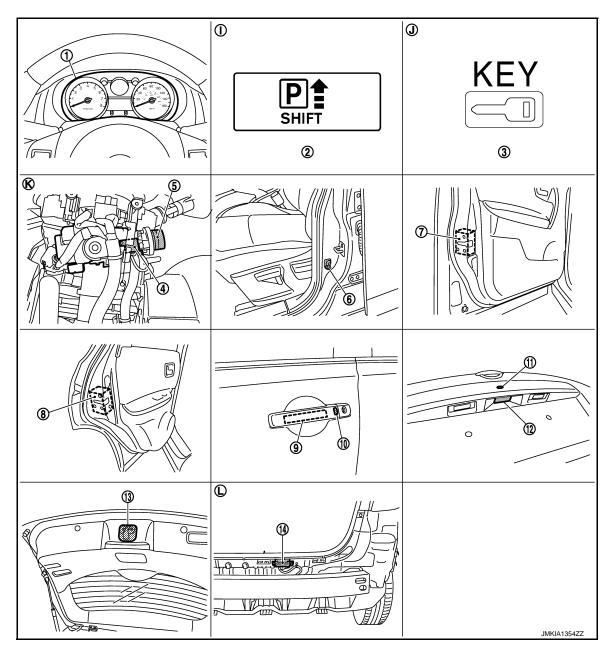
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- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- L. View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- 5. Ignition knob switch, key switch and key 6. lock solenoid (ignition knob switch)
- 8. Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

- 3. Key warning lamp
- 5. Front door switch (driver side)
- 9. Outside handle assembly (outside key antenna) (driver side)
- 12. Back door opener switch assembly (opener switch)
- view with steering column cover removed

# **POWER DOOR LOCK SYSTEM**

# < SYSTEM DESCRIPTION >

# [WITH INTELLIGENT KEY SYSTEM]

# Component Description

INFOID:0000000008281704

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Inputs lock or unlock signal to BCM.
Front door lock assembly (door lock actuator)	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Inputs door open/close condition to BCM.
TCM	Transmits shift position signal to BCM via CAN communication line.

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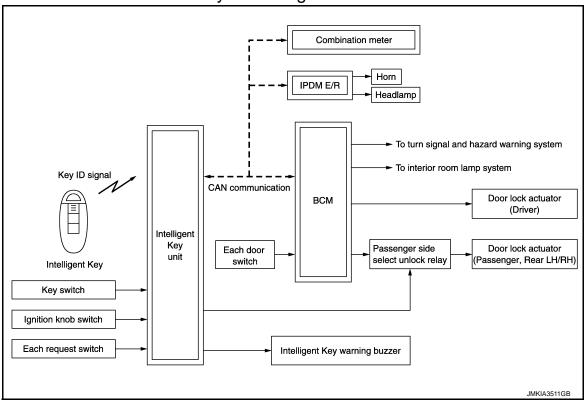
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# INTELLIGENT KEY SYSTEM INTELLIGENT KEY SYSTEM

# INTELLIGENT KEY SYSTEM: System Diagram

INFOID:0000000008281705



# INTELLIGENT KEY SYSTEM: System Description

INFOID:0000000008281706

 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:

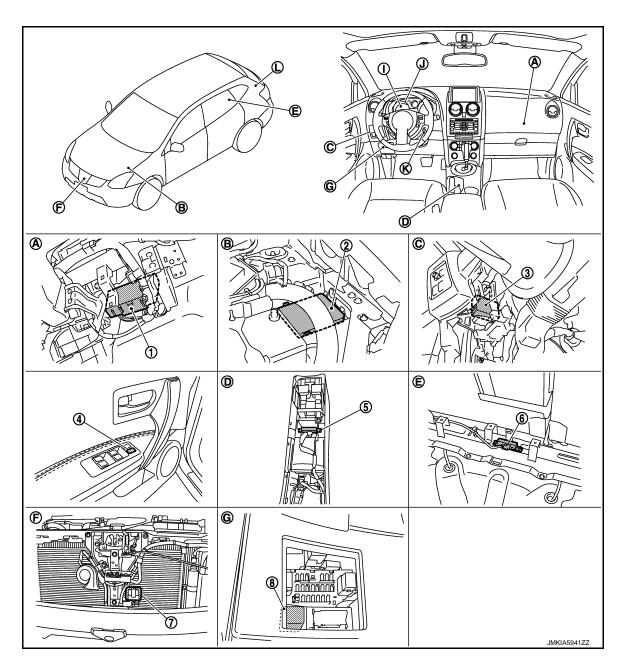
#### The driver should always carry the Intelligent Key

- 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 CONSULT.

Function	Description	Refer
Door lock function	Lock/unlock can be performed by pressing the request switch.	DLK-23
Remote keyless entry function	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-27
Key reminder function	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-32
Warning function	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-34
Engine start function	The engine be turned on while carrying the Intelligent Key.	SEC-10

# **INTELLIGENT KEY SYSTEM: Component Parts Location**

INFOID:0000000008281707



- 1. BCM
- 4. Power window main switch (door lock and unlock switch)
- 7. Intelligent key warning buzzer
- A. Over the glove box
- D. View with lower instrument cover remove E.
- G. View with front bumper removed

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- B. Engine room LH
- E. View with center console removed
- H. View with fuse box lid removed

- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed

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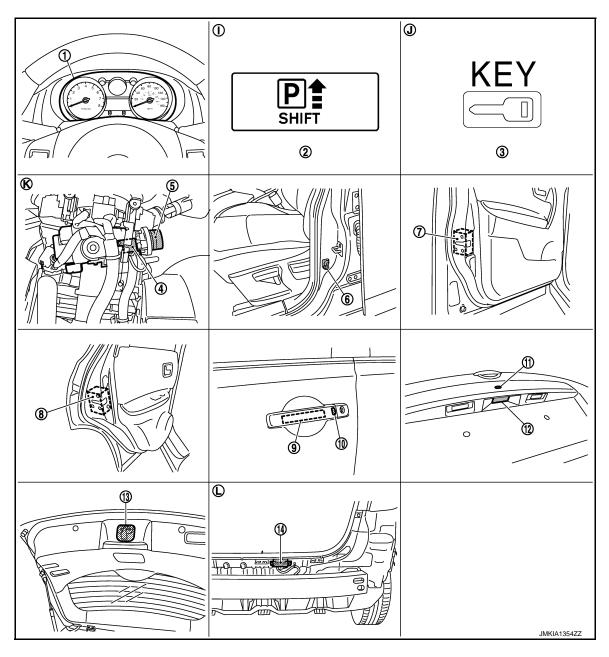
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- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- 10. Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- L. View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6.
   lock solenoid (ignition knob switch)
- Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

- 3. Key warning lamp
- 5. Front door switch (driver side)
- 9. Outside handle assembly (outside key antenna) (driver side)
- 12. Back door opener switch assembly (opener switch)
- view with steering column cover removed

## [WITH INTELLIGENT KEY SYSTEM]

# INTELLIGENT KEY SYSTEM: Component Description

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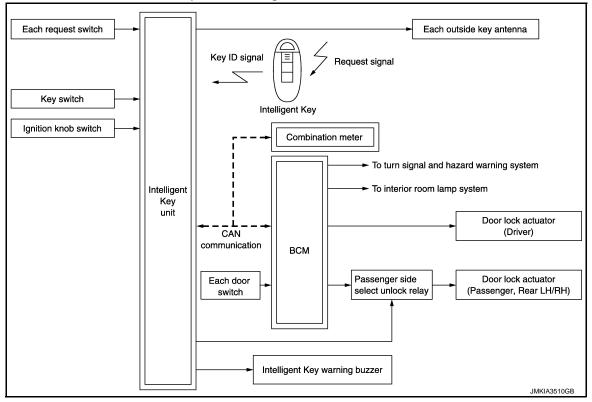
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Item	Function	
BCM	Controls the Intelligent Key system.	
Front door lock assembly (door lock actuator)	Outputs lock/unlock signal from BCM and locks/unlocks each door.	
Door switch	Inputs door open/close condition to BCM.	
Request switch	Inputs lock/unlock operation to BCM.	
Intelligent Key	Transmits button operation to Intelligent Key unit.	
Outside antenna	Detects if Intelligent Key is outside the vehicle.	
Inside key antenna	Detects if Intelligent Key is inside the vehicle.	

#### DOOR LOCK FUNCTION

# DOOR LOCK FUNCTION: System Diagram

INFOID:0000000008281709



# DOOR LOCK FUNCTION: System Description

INFOID:0000000008281710

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

#### OPERATION DESCRIPTION

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

#### **OPERATION CONDITION**

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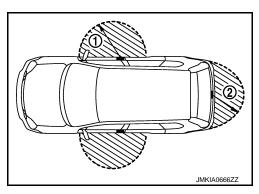
If the following conditions are not satisfied, door lock and unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition		
Lock Operation	<ul> <li>All doors are closed</li> <li>Key switch is OFF (Key is removed from ignition key cylinder.)</li> <li>Ignition knob is OFF or LOCK position</li> <li>Any Intelligent Key is not inside the vehicle</li> <li>Intelligent Key is within outside key antenna detection area</li> </ul>		
Unlock Operation	<ul> <li>Key switch is OFF (Key is removed from ignition key cylinder.)</li> <li>Ignition knob is OFF or LOCK position</li> <li>Intelligent Key is not inside the vehicle*</li> <li>Intelligent Key is within outside key antenna detection area</li> </ul>		

<sup>\*:</sup> 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). However, this operating range depends on the ambient conditions.



#### SELECTIVE UNLOCK FUNCTION

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

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

#### HAZARD AND BUZZER REMINDER FUNCTION

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

When doors are locked, unlocked by each request switch, BCM sounds Intelligent Key warning buzzer as a reminder and blinks.

Operating Function of Hazard and Buzzer Reminder

Operation	Hazard warning lamp	Intelligent Key warning buzzer
Unlock	Once	Once
Lock	Twice	Twice

#### How to Change Hazard and Buzzer Reminder Mode

Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".

#### AUTO DOOR LOCK FUNCTION

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

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

- Door switch is ON (door is opened)
- Door is locked
- Ignition switch is ON (ignition switch is pressed)

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-49</u>, "CONSULT Function (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 by receiving UNLOCK signal from door request switch. For detailed description, refer to <a href="INL-6">INL-6</a>, "System Description".

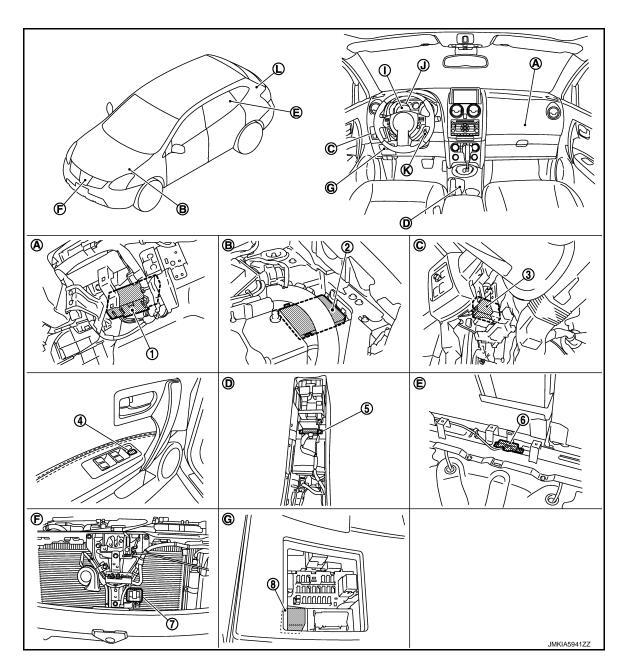
# DOOR LOCK FUNCTION: Component Parts Location

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- 1. BCM
- 4. Power window main switch (door lock and unlock switch)
- 7. Intelligent key warning buzzer
- A. Over the glove box
- D. View with lower instrument cover remove E.
- G. View with front bumper removed

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- B. Engine room LH
- E. View with center console removed
- H. View with fuse box lid removed

- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed

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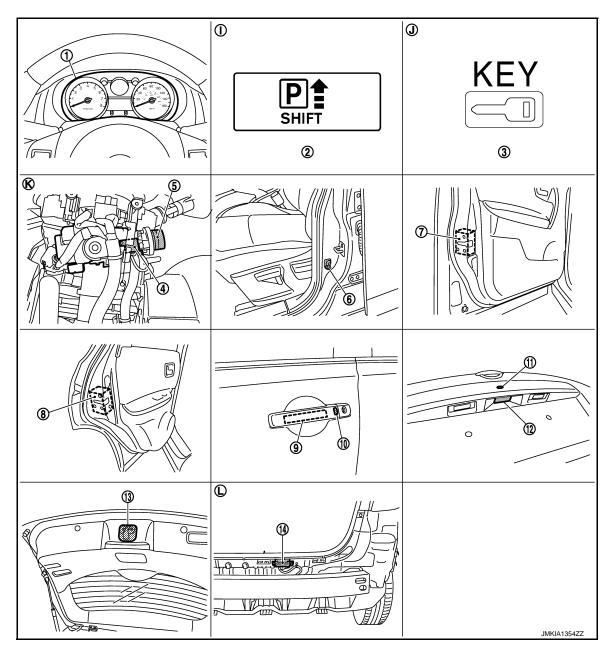
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- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- 10. Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- L. View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6.
   lock solenoid (ignition knob switch)
  - Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

- 3. Key warning lamp
  - Front door switch (driver side)
- 9. Outside handle assembly (outside key antenna) (driver side)
- 12. Back door opener switch assembly (opener switch)
- K. view with steering column cover removed

## [WITH INTELLIGENT KEY SYSTEM]

# DOOR LOCK FUNCTION: Component Description

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Item	Function
BCM	Controls the door lock function.
Front door lock assembly (door lock actuator)	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Inputs door open/close condition to BCM.
Request switch	Inputs lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside 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 door lock/unlock condition and inappropriate operations with the buzzer sound.
Hazard warning lamps	Warns the user of the door lock/unlock condition and in appropriate operations with the lamps blink.

## REMOTE KEYLESS ENTRY FUNCTION

# REMOTE KEYLESS ENTRY FUNCTION: System Diagram

INFOID:0000000008281713 Combination meter Horn IPDM E/R Headlamp To turn signal and hazard warning system ► To interior room lamp system CAN communication Key ID signal Door lock actuator BCM (Driver) Each door switch Intelligent Key Passenger side Door lock actuator Door lock and unit unlock switch select unlock relay (Passenger, Rear LH/RH) Intelligent Key Key switch Ignition knob switch Intelligent Key warning buzzer JMKIA1471GB

# REMOTE KEYLESS ENTRY FUNCTION: System Description

INFOID:0000000008281714

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**

Remote keyless entry system controls operation of the following items

- Door lock/unlock
- · Hazard and horn reminder
- Auto door lock
- Panic alarm

**DLK-27** Revision: 2013 December **2013 ROGUE** 

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#### < SYSTEM DESCRIPTION >

· Selective unlock function

#### **OPERATION AREA**

To ensure the Intelligent Key works effectively, use within 1 m (3 ft) range of each door, however the operable range may differ according to surroundings.

#### DOOR LOCK/UNLOCK FUNCTION

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

#### **OPERATION CONDITION**

Remote controller operation	Operation condition
Lock	<ul> <li>All doors are closed</li> <li>Key switch is OFF (key is removed from ignition key cylinder)</li> <li>Ignition knob switch is OFF (Ignition switch is not pressed)</li> </ul>
Unlock	<ul> <li>Key switch is OFF (key is removed from ignition key cylinder)</li> <li>Ignition knob switch is OFF (Ignition switch is not pressed)</li> </ul>

#### SELECTIVE UNLOCK FUNCTION

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

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

#### PANIC ALARM FUNCTION

When ignition switch is OFF or lock (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), BCM receives panic alarm signal from Intelligent Key.

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

The headlamp flashes and the horn sounds intermittently.

The alarm automatically turns off:

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

Panic alarm function mode can be changed by "PANIC ALARM SET" mode in "WORK SUPPORT". Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".

#### HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM blinks hazard warning lamps as a reminder. The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating Function of Hazard and Horn Reminder

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

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

#### How to Change Hazard and Horn Reminder Mode

#### (P)With CONSULT

Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".

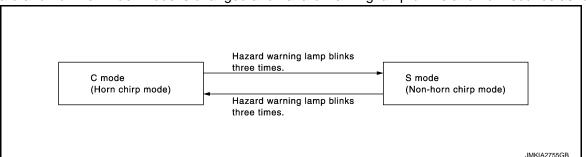
Without CONSULT

## INTELLIGENT KEY SYSTEM

## < SYSTEM DESCRIPTION >

#### [WITH INTELLIGENT KEY SYSTEM]

When LOCK and UNLOCK signals are sent from the Intelligent Key for more than 2 seconds at the same time, the hazard and horn reminder mode is changed and hazard warning lamp blinks and horn sounds as follows:



#### AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is OFF (ignition switch is not pressed), 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 "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to DLK-49, "CONSULT Function (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 by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to INL-6, "System Description".

## ID CODE ENTRY PROCEDURE

Intelligent Key ID setup WITH CONSULT.

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**DLK-29** Revision: 2013 December **2013 ROGUE** 

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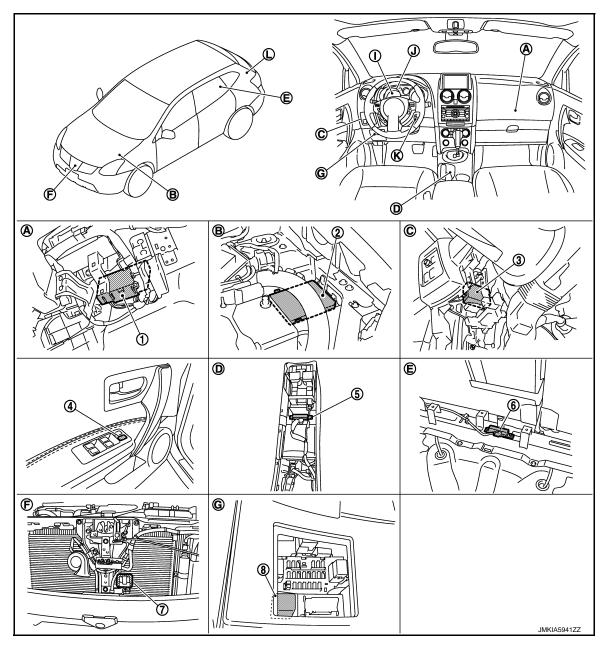
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# REMOTE KEYLESS ENTRY FUNCTION: Component Parts Location

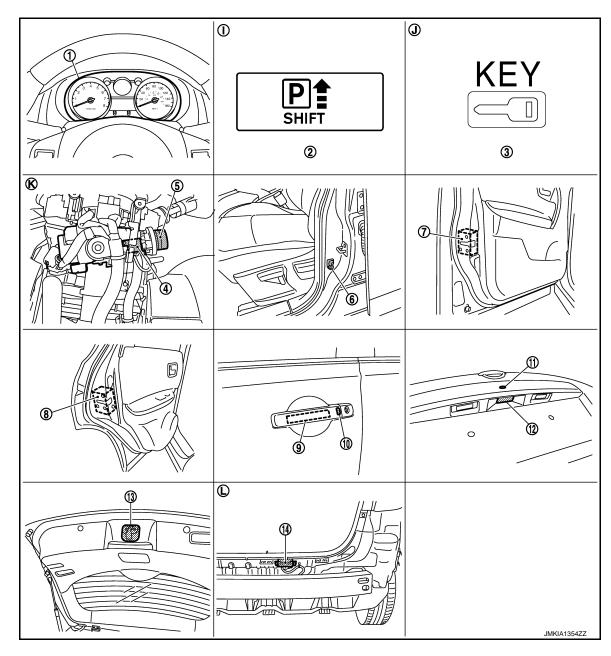
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- 1. BCM
- 4. Power window main switch (door lock and unlock switch)
- 7. Intelligent key warning buzzer
- A. Over the glove box
- D. View with lower instrument cover remove E.
- G. View with front bumper removed

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- B. Engine room LH
- E. View with center console removed
- H. View with fuse box lid removed

- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed



- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- 10. Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- L. View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6.
   lock solenoid (ignition knob switch)
  - Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

3. Key warning lamp

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- Front door switch (driver side)
- Outside handle assembly (outside key antenna) (driver side)
- Back door opener switch assembly (opener switch)
- view with steering column cover removed

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## [WITH INTELLIGENT KEY SYSTEM]

# REMOTE KEYLESS ENTRY FUNCTION: Component Description

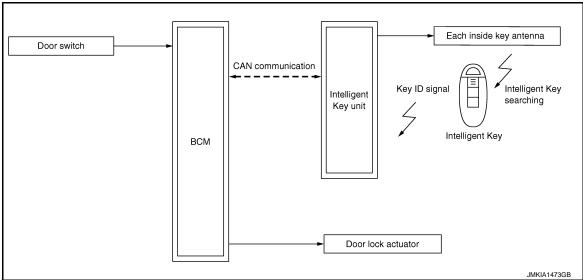
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Item	Function
Intelligent Key unit	Controls the door lock/unlock operation with BCM
BCM	Controls the door lock/unlock operation with Intelligent Key unit
Door switch	Detects door state (open or closed)
Key switch	Detects that mechanical key is inserted into ignition key cylinder
Ignition knob switch	Detects ignition knob state (press or release)
Outside key antenna	Detects that Intelligent Key is in detection area of outside key antenna
Intelligent Key	Transmits key ID to Intelligent Key unit when lock/unlock button is pressed
Passenger side select unlock relay	Controls the circuit of door lock actuator (passenger side, rear LH/RH)
Door lock actuator	Receives lock/unlock signal from BCM and locks and unlocks each door

## KEY REMINDER FUNCTION

# KEY REMINDER FUNCTION: System Description

INFOID:0000000008281717



Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 2 functions.

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

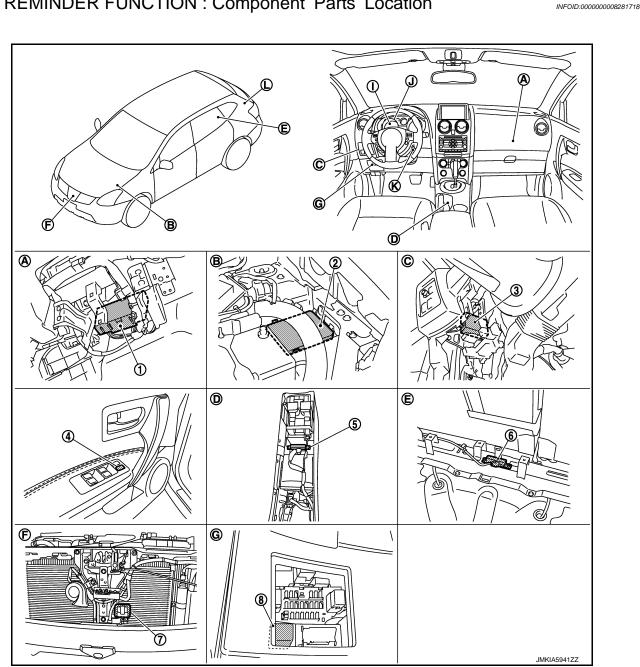
<sup>\*:</sup>If the door closing impact shocks the door lock knob or makes contact with baggage comma the door lock knob might activate the door locks accidentally comma but unlock operation will be perform in these cases.

#### 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, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket of an open door.
- Key reminder function is operated when the trunk lid 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 lid is closed, the Intelligent Key is not inside the vehicle
- When any door is open

# KEY REMINDER FUNCTION: Component Parts Location



- **BCM** 1.
- Power window main switch (door lock and unlock switch)
- Intelligent key warning buzzer 7.
- Over the glove box
- View with lower instrument cover remove E.
- View with front bumper removed G.

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- Engine room LH
- View with center console removed
- View with fuse box lid removed

- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed

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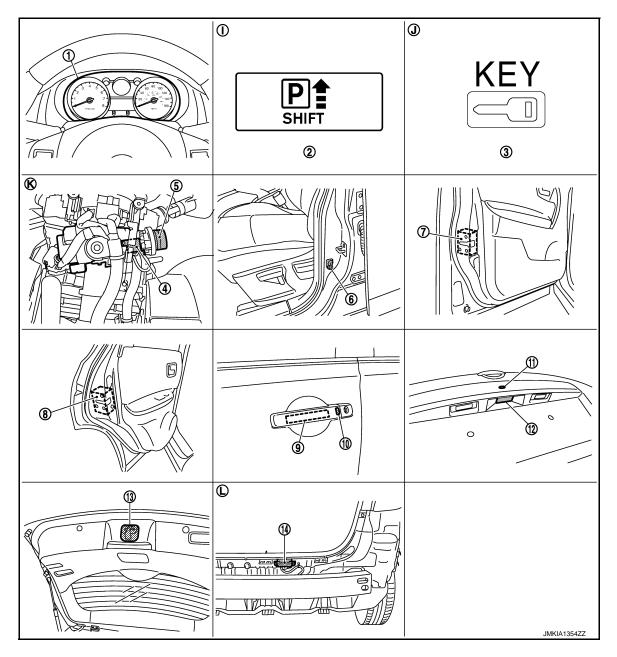
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- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- 10. Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6.
   lock solenoid (ignition knob switch)
  - . Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

- 3. Key warning lamp
- 6. Front door switch (driver side)
- 9. Outside handle assembly (outside key antenna) (driver side)
- Back door opener switch assembly (opener switch)
- view with steering column cover removed

INFOID:0000000008281719

# L. View with rear bumper fascia removed

# WARNING FUNCTION

WARNING FUNCTION: System Description

**DESCRIPTION** 

## **INTELLIGENT KEY SYSTEM**

## < SYSTEM DESCRIPTION >

## [WITH INTELLIGENT KEY SYSTEM]

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The warning function are as per the following items and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, information display and buzzer (built in combination meter.

## INTELLIGENT KEY WARNING OPERATION

Once one of the following conditions below is established, alert or warning will be executed.

				Warning chime		
	ormation func- ons	Operation conditions	Information display (combination meter)	Combination meter buzzer	Intelligent Key warn- ing buzzer	(
Intelligent Ke function	y system mal-	When a malfunction is detected on Intelligent key control unit	I-Key system fault	_	_	E F
Key ID warni	ng	When all the conditions below are met  Registered Intelligent key is not in the passenger room.  Stop lamp switch: ON  Ignition knob switch: From OFF to ON (knob is pressed)	Key is not detected	_	_	(
Ignition knob ten warning	return forgot-	When all the conditions below are met Ignition knob: OFF or LOCK (knob is pressed) Door switch (driver side): ON (Door is open)	_	Activate	_	
Ignition key v (when mecha used)		When all the conditions below are met Ignition switch: OFF position Key switch: ON (inserted) Door switch (driver side): ON (Door is open)	_	Activate	_	DI
Forgetting P return warn-	For internal	When all the conditions below are met  • Shift position: Except P position  • Engine is running to stopped (Ignition switch is ON to OFF)		Activate	_	L
ing	For external	When all the conditions below are met  • Forgetting P return warning (internal) is performed  • Door is open to close	SHIFT Shift to P range  JMKIA5868ZZ	_	Activate	N
OFF position	warning	When all the conditions below are met.  Ignition switch is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position  seconds in the above state have pressed	_	Activate	_	F

# **INTELLIGENT KEY SYSTEM**

# [WITH INTELLIGENT KEY SYSTEM]

Warning/Information func- tions		Operation conditions	Information display (combination meter)	Warning chime	
				Combination meter buzzer	Intelligent Key warn- ing buzzer
Take away warning	Any door open to all doors closed	When all the conditions below are met  Ignition switch: Except LOCK position.  Door switch: ON to OFF (Door is open to closed)  Intelligent Key cannot be detected inside the vehicle		I	Activate
	Door is open	When all the conditions below are met  Door switch: ON (Door is open)  Key ID verification every 5 seconds when registered Intelligent Key can not be detected inside the vehicle	Key is not detected  JMKIA5192ZZ	_	_
	Take away through win- dow	When all the conditions below are met  Key ID verification: OK  Every 30 seconds when registered Intelligent Key cannot be detected inside the vehicle or result of vehicle speed verification is NG. (The registered Intelligent Key cannot be detected inside the vehicle when ignition switch is ON)  Key switch: OFF (Key is removed from ignition key cylinder)		Activate	_
Door lock operation warn- ing		When request switch is pressed (lock operation) under the following conditions  • Door switch: ON (Any door is open)  • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserted into ignition key cylinder  • Intelligent Key is inside vehicle	_	_	Activate

### INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

### [WITH INTELLIGENT KEY SYSTEM]

	Operation conditions		Warning chime	
Warning/Information func- tions		Information display (combination meter)	Combination meter buzzer	Intelligent Key warn- ing buzzer
Steering lock information	When all the conditions below are met Ignition switch: LOCK position. When steering lock cannot be released 1 second.	Check steering lock		_
Intelligent Key low battery warning	When Intelligent Key is low bat- tery, BCM is detected after igni- tion switch is turned ON	JMKIA3049ZZ	_	_

#### **KEY REMINDER OPERATION**

• The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while the driver door is open and mechanical key is inserted ignition key cylinder.

• The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while any door other than the driver door is open.

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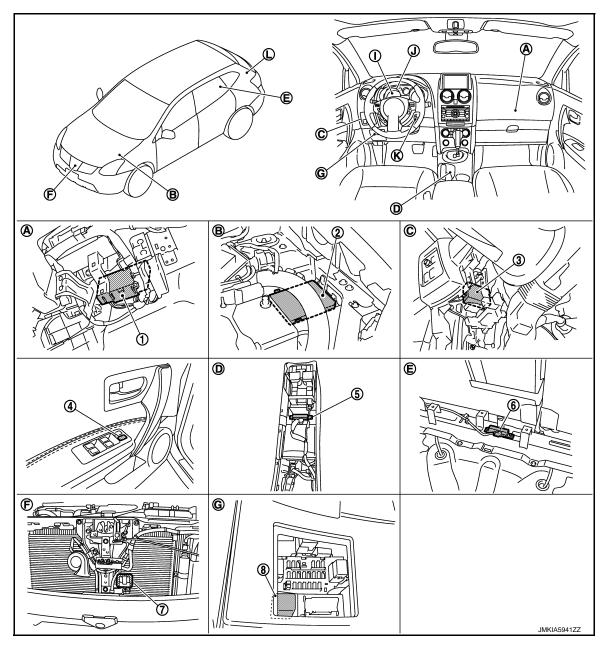
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### WARNING FUNCTION: Component Parts Location

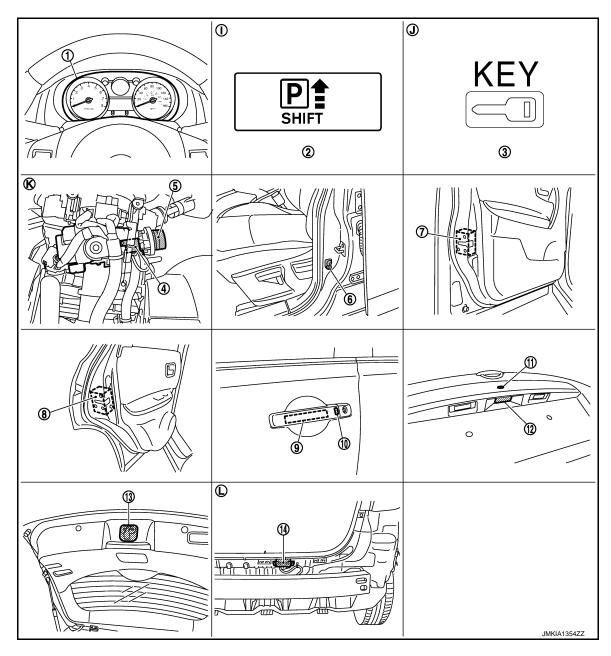
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- 1. BCM
- 4. Power window main switch (door lock and unlock switch)
- 7. Intelligent key warning buzzer
- A. Over the glove box
- D. View with lower instrument cover remove E.
- G. View with front bumper removed

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- B. Engine room LH
  - . View with center console removed
- H. View with fuse box lid removed

- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed



- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- 10. Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6. lock solenoid (ignition knob switch)
  - Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

3. Key warning lamp

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- Front door switch (driver side)
- Outside handle assembly (outside key antenna) (driver side)
- Back door opener switch assembly (opener switch)
- view with steering column cover removed

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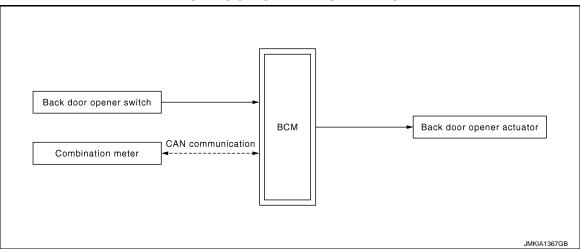
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### **BACK DOOR OPEN FUNCTION**

System Diagram

### **BACK DOOR OPENER OPERATION**



## System Description

INFOID:0000000008281722

### **BACK DOOR OPENER OPERATION**

When back door opener switch is pressed, BCM opens back door opener actuator.

#### NOTE:

Back door opener actuator is not for locking the back door. The function is only to open the back door.

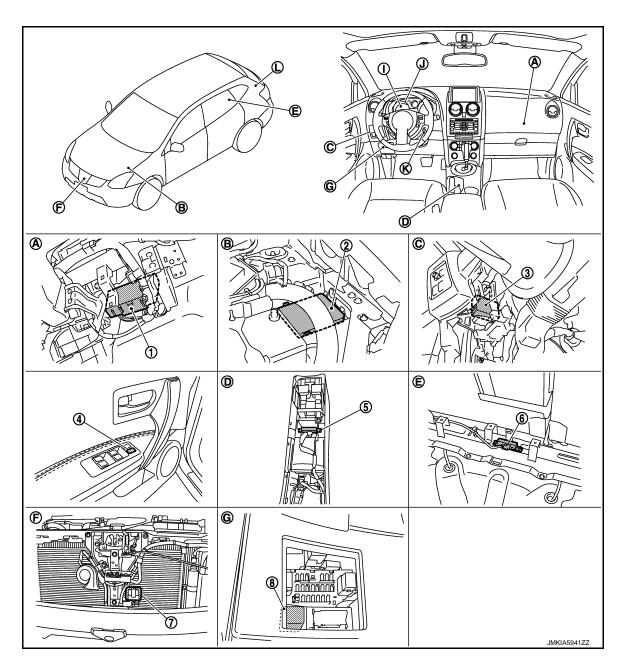
### **OPERATION CONDITION**

If the following conditions are not satisfied, back door opener operation is not performed.

Back door opener switch operation	Operation condition
Back door open	Vehicle speed is less than 5 km/h (3 MPH).

### Component Parts Location

INFOID:0000000008281723



- 1. BCM
- 4. Power window main switch (door lock and unlock switch)
- 7. Intelligent key warning buzzer
- A. Over the glove box
- D. View with lower instrument cover remove E.
- G. View with front bumper removed

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- B. Engine room LH
- E. View with center console removed
- H. View with fuse box lid removed

- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed

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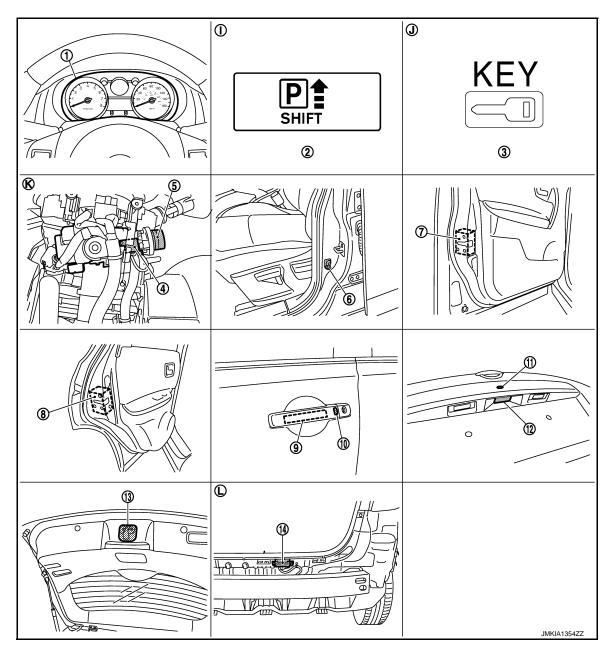
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- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- 10. Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- L. View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6.
   lock solenoid (ignition knob switch)
- 8. Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

- 3. Key warning lamp
- 5. Front door switch (driver side)
- 9. Outside handle assembly (outside key antenna) (driver side)
- 12. Back door opener switch assembly (opener switch)
- view with steering column cover removed

### **BACK DOOR OPEN FUNCTION**

### < SYSTEM DESCRIPTION >

### [WITH INTELLIGENT KEY SYSTEM]

## Component Description

INFOID:0000000008281724

Item	Function
BCM	Controls the back door opener function
Back door opener switch	Transmits back door opener switch operation signal to BCM
Back door lock assembly (Back door opener actuator)	Opens the back door with the back door open signal from BCM
Combination meter	Transmits vehicle speed signal to BCM via CAN communication

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### INTEGRATED HOMELINK TRANSMITTER

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

## INTEGRATED HOMELINK TRANSMITTER

## **Component Description**

INFOID:0000000008281725

Item	Function
Homelink universal transceiver	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

**COMMON ITEM** 

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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#### APPLICATION ITEM

CONSULT can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to DLK-331, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	<ul> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

#### NOTE:

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

×: Applicable item

Custom	CONSULT	CONSULT Diagnosis mode		
System	sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
<ul><li>Auto air conditioning system</li><li>Manual air conditioning system</li></ul>	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Body control system	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
_	FUEL LID*			
TPMS	AIR PRESSURE MONITOR	×	×	×
Panic alarm system	PANIC ALARM			×

<sup>\*:</sup> This item is displayed, but is not function.

### DOOR LOCK

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< SYSTEM DESCRIPTION >

### [WITH INTELLIGENT KEY SYSTEM]

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

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### **BCM CONSULT FUNCTION**

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function
DATA MONITOR	The BCM input/output signals are displayed
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM

#### **DATA MONITOR**

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position
PUSH SW <sup>*1</sup>	Indicates [ON/OFF] condition of ignition knob switch
KEY ON SW	Indicates [ON/OFF] condition of key switch
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side)
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side)
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from key cylinder
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from key cylinder

<sup>\*1:</sup> For the Intelligent Key equipped vehicle.

#### **ACTIVE TEST**

Test item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LCK/ALL ULK/DR UNLK/OTR ULK]

### **WORK SUPPORT**

Test item	Description
DOOR LOCK-UNLOCK SET	Select unlock mode can be changed in this mode. Selects ON-OFF of select unlock mode
ANTI-LOCK OUT SET	Key reminder door mode can be changed in this mode. Selects ON-OFF of Key reminder door mode
AUTOMATIC DOOR LOCK SELECT	The automatic door lock function mode can be selected as per the following item in this Mode.  VH SPD: All doors are locked when vehicle speed is more than 5 MPH (10km/h)  PRANGE: All doors are locked when shifting the selector lever from the P position to other than the P position

<sup>\*2:</sup> For the multi remote control system equipped vehicle.

### < SYSTEM DESCRIPTION >

### [WITH INTELLIGENT KEY SYSTEM]

Test item	Description
AUTOMATIC DOOR UNLOCK SELECT	<ul> <li>The automatic door unlock function mode can be selected as per the following item in this Mode.</li> <li>MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 2: All doors are unlocked when shifting the selector lever from any position to other than the P to P positions</li> <li>MODE 4: Driver side door is unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 5: Driver side door is unlocked when shifting the selector lever from any position to other than the P to P positions</li> </ul>
AUTOMATIC DOOR LOCK/UNLOCK SET	The automatic door lock/unlock function can be changed to operate (ON) or not operate (OFF) in this mode.

### INTELLIGENT KEY

### INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)

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### **BCM CONSULT FUNCTION**

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed

#### DATA MONITOR

Monitor Item	Condition
PUSH SW	Indicates [ON/OFF] condition of ignition knob switch
I-KEY LOCK	Indicates [ON/OFF] condition of lock signal from Intelligent Key
I-KEY UNLOCK	Indicates [ON/OFF] condition of unlock signal from Intelligent Key
I-KEY TRUNK	This item is indicated, but not monitored
I-KEY PW DWN	This item is indicated, but not monitored
I-KEY PANIC	Indicates [ON/OFF] condition of panic alarm

### **TRUNK**

## TRUNK: CONSULT Function (BCM - TRUNK) (WITH INTELLIGENT KEY)

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#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit

### DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position
I-KEY TRUNK	This item is indicated, but not monitored
TRNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h]

### **ACTIVE TEST**

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### < SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Test item	Description
TRUNK/BACK DOOR	This test is able to check back door opener operation [ON/OFF]

### PANIC ALARM

### PANIC ALARM: CONSULT Function (BCM - PANIC ALARM)

INFOID:0000000008281730

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM

### **ACTIVE TEST**

Test item	Description
HEAD LAMP (HI)	This test is able to check head lamp (hi) operation [ON/OFF]
PANIC ALARM	This test is able to check panic alarm operation [ON/OFF]

## **DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)**

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

## **DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)**

### CONSULT Function (INTELLIGENT KEY)

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### **APPLICATION ITEM**

CONSULT performs the following functions via CAN communication with Intelligent Key unit.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function
SELF-DIAG RESULTS	Displays the diagnosis results judged by Intelligent Key unit
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from Intelligent Key unit
DATA MONITOR	The Intelligent Key unit input/output signals are displayed
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit
ECU IDENTIFICATION	The Intelligent Key unit part number is displayed

### **WORK SUPPORT**

Support item	Description
CONFIRM KEY FOB ID	It can check whether Intelligent Key ID code is registered or not
TAKE OUT FROM WINDOW WARN	Take away warning chime (from window) mode can be changed
LOW BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed
ANSWER BACK FUNCTION	Buzzer reminder operation can be changed
SELECTIVE UNLOCK FUNCTION	Selective unlock mode can be changed
ANTI KEY LOCK IN FUNCTION	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode
HAZARD ANSWER BACK	Hazard reminder operation mode can be changed
ANSWER BACK WITH I-KEY LOCK	Buzzer reminder operation (lock operation) mode by each door request switch can be changed
ANSWER BACK WITH I-KEY UNLOCK	Buzzer reminder operation (unlock operation) mode by each door request switch can be changed
AUTO RELOCK TIMER	Auto door lock operation mode can be changed
PANIC ALARM DELAY	Panic alarm button pressing time on Intelligent Key remote control button can be changed
P/W DOWN DELAY	This item is indicated, but not possible to use it
ENGINE START BY I-KEY	Engine start function (by Intelligent Key) mode can be changed
LOCK/UNLOCK BY I-KEY	Door lock function by door request switch can be changed

#### **SELF-DIAG RESULT**

Refer to DLK-124, "DTC Index".

#### **DATA MONITOR**

Monitor Item	Condition
PUSH SW	Indicates [ON (pressed)/OFF (released)] condition of ignition knob switch
KEY SW	Indicates [ON (inserted)/OFF (removed)] condition of key switch
DR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (driver side)
AS REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (passenger side)
BD/TR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (back door)

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## **DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)**

### < SYSTEM DESCRIPTION >

### [WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition
IGN SW	Indicates [ON (ON or START position)/OFF (other than ON and START position)] condition of ignition switch ON position
ACC SW	Indicates [ON/OFF] condition of ignition switch ACC position
STOP LAMP SW	Indicates [ON/OFF] condition of stop lamp switch
P RANGE SW	Indicates [ON/OFF] condition shift lever park position
BD OPEN SW	This item is indicated, but not monitored
TR CANCEL SW	This item is indicated, but not monitored
DOOR LOCK SIG	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key
DOOR UNLOCK SIG	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key
KEYLESS TRUNK	This item is indicated, but not monitored
KEYLESS PANIC	Indicates [ON/OFF] condition PANIC button of Intelligent key
KEYLS PSD LH	This item is indicated, but not monitored
KEYLS PSD RH	This item is indicated, but not monitored
KEYLS PBD SIG	This item is indicated, but not monitored
DOOR SW DR	Indicates [OPEN/CLOSE] condition of front door switch (driver side) from BCM via CAN communication
DOOR SW AS	Indicates [OPEN/CLOSE] condition of front door switch (passenger side) from BCM via CAN communication
DOOR SW RR	Indicates [OPEN/CLOSE] condition of rear door switch (RH) from BCM via CAN communication
DOOR SW RL	Indicates [OPEN/CLOSE] condition of rear door switch (LH) from BCM via CAN communication
DOOR BK SW	Indicates [OPEN/CLOSE] condition of back door switch from BCM via CAN communication
TRUNK SW	This item is indicated, but not monitored
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h]

### **ACTIVE TEST**

Test item	Description
DOOR LOCK/UNLOCK	This test is able to check door lock/unlock operation  • ALL UNLK: All door lock actuators are unlocked  • DR UNLK: Door lock actuator (driver side) is unlocked  • AS UNLK: Door lock actuator (passenger side) is unlocked  • BK UNLK: This item is indicated, but inactive  • LOCK: All door lock actuator is locked
ANTENNA	This test is able to check Intelligent Key antenna operation. When the following condition are met, hazard warning lamp blinks  ROOM ANT1: Inside key antenna (console) transmissions can be detected by Intelligent Key, when "ROOM ANT1" is selected  ROOM ANT2: This item is displayed, but cannot be used  LUG ANT: Inside key antenna (rear seat) transmissions can be detected by Intelligent Key, when "LUG ANT" is selected  DR ANT: Outside key antenna (driver side) transmissions can be detected by Intelligent Key, when "DR ANT" is selected  AS ANT: Outside key antenna (passenger side) transmissions can be detected by Intelligent Key, when "AS ANT" is selected  BK ANT: Outside key antenna (rear bumper) transmissions can be detected by Intelligent Key, when "BK ANT" is selected
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation  ON  OFF

## **DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)**

### < SYSTEM DESCRIPTION >

### [WITH INTELLIGENT KEY SYSTEM]

Test item	Description
INSIDE BUZZER	This test is able to check warning chime in combination meter operation  take out: Take away warning chime sounds  knob: Ignition knob switch warning chime sounds  key: Key warning chime sounds  off
INDICATOR	This test is able to check warning lamp operation  BLUE ON: Key warning lamp (green) illuminates  RED ON: Key warning lamp (red) illuminates  KNOB ON: Lock warning lamp illuminates  BLUE IND: Key warning lamp (green) flashes  RED IND: Key warning lamp (red) flashes  KNOB IND: Lock warning lamp flashes  OFF

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## DTC/CIRCUIT DIAGNOSIS

## U1000 CAN COMM CIRCUIT

**BCM** 

BCM : Description

INFOID:0000000008281732

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

CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

BCM: DTC Logic

INFOID:0000000008281733

#### DTC DETECTION LOGIC

DTC Detection Condition		Possible cause
U1000: CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

### **BCM**: Diagnosis Procedure

INFOID:0000000008281734

### 1.PERFORM SELF DIAGNOSTIC

- 1. Turn the ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" of BCM.

### Is DTC "U1000" displayed?

YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-46, "Intermittent Incident".

### INTELLIGENT KEY UNIT

### **INTELLIGENT KEY UNIT: Description**

INFOID:0000000008281735

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 detectability. Modern vehicles are equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to LAN-26, "CAN Communication Signal Chart".

### INTELLIGENT KEY UNIT: DTC Logic

INFOID:0000000008281736

#### DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
U1000	CAN COMM CIRCUIT	When Intelligent Key unit cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

### INTELLIGENT KEY UNIT: Diagnosis Procedure

INFOID:0000000008281737

## 1.PERFORM SELF DIAGNOSTIC

<sup>1.</sup> Turn ignition switch ON and wait for 3 seconds or more.

### **U1000 CAN COMM CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

>> Refer to <u>LAN-16</u>, "<u>Trouble Diagnosis Flow Chart</u>". >> Refer to <u>GI-46</u>, "<u>Intermittent Incident</u>". YES

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### **U1010 CONTROL UNIT (CAN)**

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# U1010 CONTROL UNIT (CAN) INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT: DTC Logic

INFOID:0000000008281738

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
U1010	CONTROL UNIT (CAN)	Intelligent Key unit detected internal CAN communication circuit malfunction.	Intelligent key unit

### INTELLIGENT KEY UNIT: Diagnosis Procedure

INFOID:0000000008281739

1. REPLACE INTELLIGENT KEY UNIT

When DTC [U1010] is detected, replace Intelligent Key unit.

>> Refer to <u>DLK-249</u>, "Removal and Installation".

### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# POWER SUPPLY AND GROUND CIRCUIT INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT : Diagnosis Procedure

INFOID:0000000008281740

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### 1. CHECK FUSE AND FUSIBLE LINK

- 1. Turn ignition switch OFF.
- 2. Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	14 (10A)
6	Ignition power supply	1 (10A)

#### Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

NO >> GO TO 2.

## 2.CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between Intelligent Key unit harness connector and ground.

	(+)		V (4 0 0	
Intelliger	nt Key unit	(–)	Voltage (V) (Approx.)	
Connector	Terminal		( 44 )	
M40	11	Ground	Battery voltage	
IVI40	6	Giouna	Dattery Voltage	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK GROUND CIRCUIT

Turn ignition switch OFF.

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit			Continuity	
Connector	Terminal	Ground	Continuity	
M40	12		Exists	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

**BCM** 

## BCM : Diagnosis Procedure

### 1. CHECK FUSES AND FUSIBLE LINK

- Turn ignition switch OFF.
- 2. Check that the following fuses and fusible link are not fusing.

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	10 (10A)
70	Battery power supply	J (50A)

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### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Signal name	Fuses and fusible link No.
11	ACC power supply	20 (10A)
38	Ignition power supply	1 (10A)

#### Is the fuse fusing?

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

NO >> GO TO 2.

## 2. CHECK POWER SUPPLY CIRCUIT

- 1. Disconnect BCM connectors.
- 2. Check voltage between BCM harness connector and ground.

(	(+)		Ignition switch position		
В	ВСМ		OFF	ACC	ON
Connector	Terminal		OFF	ACC	ON
M67	57	Ground	Battery voltage	Battery voltage	Battery voltage
WO	70		Ballery Vollage	Ballery Vollage	Battery voltage
M65	11		Approx. 0 V	Battery voltage	Battery voltage
	38		Approx. 0 V	Approx. 0 V	Battery voltage

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M67	67		Exists	

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

### **DOOR SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

### DOOR SWITCH

Description INFOID:000000008281742

Detects door open/closed condition.

### Component Function Check

## 1.CHECK FUNCTION

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

Monitor item	Door condition	Display
DOOR SW-DR		
DOOR SW-AS		
DOOR SW-RL	$CLOSE \to OPEN$	$OFF \to ON$
DOOR SW-RR		
BACK DOOR		

#### Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-57</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

## 1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect malfunctioning door switch connectors.
- 3. Check signal between malfunctioning door switch harness connector and ground with oscilloscope.

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Door swite	ch		(–)	Signal (Reference value)
Connector		Terminal		(**************************************
Front door switch (passenger side)	B93			(V) 15 10 5 0 +10ms JPMIA0586GB
Front door switch (driver side)	B92			(V) <sub>15</sub> 10 5 0  +10ms  JPMIA0587GB
Rear door switch RH	B95	3	Ground	(V) <sub>15</sub> 10 5 0 +10ms JPMIA0587GB
Rear door switch LH	B94			(V) <sub>15</sub> 10 5 0
Back door lock assembly (back door switch)	D190			(V) <sub>15</sub> 10 5 0 + 10ms JPMIA0593GB

### Is the inspection result normal?

YES-1 >> Back door switch: GO TO 3.

YES-2 >> Door switch: GO TO 4.

NO >> GO TO 2.

## 2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connectors.
- 2. Check continuity between BCM harness connector and door switch harness connector.

#### [WITH INTELLIGENT KEY SYSTEM]

BCM		Door switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	12	B93		
COIVI	13	B95		
	43	D190	3	Exists
M66	47	B92		
	48	B94		

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M65	12	12	
	13	Ground	
	43	Giodila	Not existed
M66	47		
	48		

### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

### 3.CHECK BACK DOOR GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock a	assembly		Continuity
Connector	Terminal	Ground	Continuity
D190	4		Exist

### Is the inspection result normal?

>> GO TO 4. YES

NO >> Repair or replace harness.

### 4. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-59, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-241, "Removal and Installation"</u>.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

### Component Inspection

### 1. CHECK DOOR SWITCH

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

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### **DOOR SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

	Door switch		dition	Continuity
	Terminal	Condition		Continuity
3	Ground part of door switch	Door switch	Pressed	Exists
3	Ground part of door switch	Door switch	Released	Not existed
В	Back door switch		dition	Continuity
	Terminal	Condition		Community
3	4	Back door	Open	Exists
3	4	Dack 0001	Close	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door switch. Refer to <u>DLK-241, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### DOOR LOCK AND UNLOCK SWITCH

**DRIVER SIDE** 

DRIVER SIDE : Description

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Transmits door lock/unlock operation to BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000008281747

### 1. CHECK FUNCTION

Check "CDL LOCK SW" and "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 <u>DLK-61</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

### DRIVER SIDE : Diagnosis Procedure

INFOID:0000000008281748

## 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch connectors.
- 3. Check signal between power window main switch harness connector and ground with oscilloscope.

(+) Power window	Power window main switch		Signal (Reference value)
Connector	Terminal		,
D5	6		
D6	18	Ground	(V) <sub>15</sub> 15 10 + 10ms JPMIA0591GB

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and power window main switch harness connector.

В	СМ	Power window main switch				Continuity
Connector	Terminal	Connector	Terminal	Continuity		
M65	46	D5	6	Exists		
	45	D6	18	LXISIS		

3. Check continuity between BCM harness connector and ground.

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

	BCM		Continuity
Connector	Terminal	Ground	Continuity
M65	46	Ground	Not existed
IVIOS	45		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

## ${f 3.}$ CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window main switch harness connector and ground.

Power window main switch			Continuity
Connector	Terminal	Ground	Continuity
D6	17		Exists

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK DOOR LOCK AND UNLOCK SWITCH

Check power window main switch.

Refer to DLK-62, "DRIVER SIDE: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to <a href="PWC-63">PWC-63</a>, "Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

### DRIVER SIDE : Component Inspection

INFOID:0000000008281749

## 1. CHECK DOOR LOCK AND UNLOCK SWITCH

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Check power window main switch.

Power window main switch		Condition		Continuity
Terr	ninal	Condition		Continuity
6	17	Door	LOCK	Exists
18	17	D001	UNLOCK	LXISIS

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch. Refer to PWC-63, "Removal and Installation".

#### PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000008281750

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000008281751

### 1. CHECK FUNCTION

#### < DTC/CIRCUIT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

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

Monitor item	С	ondition	
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 <u>DLK-63</u>, "PASSENGER SIDE : Diagnosis Procedure".

### PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000008281752

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## 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope.

(	(+)		Oine al
Front power window switch (passenger side)		(–)	Signal (Reference value)
Connector	Terminal		,
	1		
D45	2	Ground	(V) <sub>15</sub> 10 5 0 10ms  JPMIA0591GB

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

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

В	BCM		Front power window switch (passenger side)	
Connector	Terminal	Connector Terminal		Continuity
M65	46	D45	2	Exists
IVIOS	45	D43	1	LAISIS

3. Check continuity between BCM connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M65	46	Ground	Not existed
	45		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## 3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between front power window switch (passenger side) harness connector and ground.

Front power window switch (passenger side)			Continuity
Connector	Terminal	Ground	Continuity
D45	3		Exists

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR LOCK AND UNLOCK SWITCH

Check front power window switch (passenger side).

Refer to DLK-64, "PASSENGER SIDE: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front power window switch (passenger side). Refer to <a href="PWC-63">PWC-63</a>, "Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

### PASSENGER SIDE: Component Inspection

INFOID:0000000008281753

### 1. CHECK DOOR LOCK AND UNLOCK SWITCH

- Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check front power window switch (passenger side).

Front power window switch		Condition	Continuity
Terminal			
2	2	LOCK	Exists
1	3	UNLOCK	LXISIS

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side). Refer to <a href="PWC-63">PWC-63</a>, "Removal and Installation".

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

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Transmits lock/unlock operation to Intelligent Key unit.

DRIVER SIDE : Component Function Check

INFOID:0000000008281755

INFOID:0000000008281756

### 1. CHECK FUNCTION

Check door request switch "DR REQ SW" in "Data Monitor" mode with CONSULT.

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

#### Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to <u>DLK-65</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

### DRIVER SIDE : Diagnosis Procedure

## 1. CHECK DOOR REQUEST SWITCH INPUT SIGNAL

Turn ignition switch OFF.

2. Disconnect outside handle assembly (driver side) connector.

3. Check voltage between outside handle assembly (driver side) harness connector and ground.

Outside handle assembly (driver side)			Voltage (V)
Connector	Terminal	Ground	(Approx.)
D13	3		5

#### Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

### 2. CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit connector.

Check continuity between Intelligent Key unit harness connector and outside handle assembly (driver side) harness connector.

Intelligent Key unit		Outside handle assembly (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M40	5	D13	3	Exists

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit Connector Terminal			Continuity
		Ground	
M40	5		Not existed

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-249, "Removal and Installation".

NO >> Repair or replace harness.

### 3.check door request switch ground circuit

Check continuity between outside handle assembly (driver side) harness connector and ground.

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[WITH INTELLIGENT KEY SYSTEM]

#### < DTC/CIRCUIT DIAGNOSIS >

Outside handle assembly (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D13	4		Exists

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK DOOR REQUEST SWITCH

Check outside handle assembly (driver side).

Refer to DLK-66, "DRIVER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace outside handle (driver side). Refer to <a href="DLK-232">DLK-232</a>, "OUTSIDE HANDLE: Removal and <a href="Installation"</a>.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

### DRIVER SIDE: Component Inspection

INFOID:0000000008281757

## 1. CHECK DOOR REQUEST SWITCH

- 1. Turn ignition switch OFF.
- Disconnect outside handle assembly (driver side) connector.
- 3. Check outside handle assembly (driver side).

Outside handle assembly (driver side)		Condition		Continuity
Terminal				
2	2		Pressed	Exists
	4	Door request switch	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

>> Replace front outside handle (driver side). Refer to <a href="DLK-232">DLK-232</a>, "OUTSIDE HANDLE: Removal and <a href="Installation"</a>.

### PASSENGER SIDE

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PASSENGER SIDE: Description

INFOID:0000000008281758

Transmits lock/unlock operation to Intelligent Key unit.

PASSENGER SIDE: Component Function Check

INFOID:0000000008281759

### 1. CHECK FUNCTION

Check door request switch "AS REQ SW" in "Data Monitor" mode with CONSULT.

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

#### Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to DLK-67, "PASSENGER SIDE : Diagnosis Procedure".

< DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

### PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000008281760

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### 1. CHECK DOOR REQUEST SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect outside handle assembly (passenger side) connector.
- Check voltage between outside handle assembly (passenger side) harness connector and ground.

Outside handle assembl	y (passenger side)		Voltage (V)
Connector	Terminal	Ground	(Approx.)
D33	3		5

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

### 2.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between outside handle assembly (passenger side) harness connector and ground.

Outside handle assembly (passenger side)			Continuity
Connector	Connector Terminal		Continuity
D33	4		Exists

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 3.check door request switch circuit

- Disconnect Intelligent Key unit connector.
- Check continuity between Intelligent Key unit harness connector and outside handle assembly (passenger side) harness connector.

Intelligent Key unit		Outside handle assembly (passenger signal		Continuity
Connector	Terminal	Connector Terminal		Continuity
M40	25	D33	3	Exists

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit			Continuity	
Connector	Connector Terminal		Continuity	
M40	25		Not existed	

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

### 4. CHECK DOOR REQUEST SWITCH

Check outside handle assembly (passenger side).

Refer to <u>DLK-68</u>, "<u>PASSENGER SIDE</u>: <u>Component Inspection</u>".

#### Is the inspection result normal?

YES >> GO TO 5.

NO

>> Replace outside handle (passenger side). Refer to DLK-232, "OUTSIDE HANDLE: Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

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< DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

### PASSENGER SIDE: Component Inspection

INFOID:0000000008281761

## 1. CHECK DOOR REQUEST SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect outside handle assembly (passenger side) connector.
- 3. Check outside handle assembly (passenger side).

Outside handle assembly (passenger side)		Condition		Continuity
Terminal				Continuity
2 4		Door request switch	Pressed	Exists
3	3	Door request switch	Released	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front outside handle (passenger side). Refer to <u>DLK-232, "OUTSIDE HANDLE : Removal and Installation"</u>.

### **BACK DOOR**

**BACK DOOR: Description** 

INFOID:0000000008281762

INFOID:0000000008281763

Transmits lock/unlock operation to Intelligent Key unit.

### **BACK DOOR: Component Function Check**

### 1. CHECK FUNCTION

Check door request switch "BD/TR REQ SW" in "Data Monitor" mode with CONSULT.

Monitor item	Condition		
BD/TR REQ SW	Door request switch is pressed	:ON	
BD/TR REQ 3W	Door request switch is released	:OFF	

#### Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Refer to <u>DLK-68</u>, "BACK DOOR : <u>Diagnosis Procedure</u>".

### **BACK DOOR: Diagnosis Procedure**

INFOID:0000000008281764

## 1. CHECK BACK DOOR OPENER SWITCH ASSEMBLY (REQUEST SWITCH) INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect back door opener switch assembly (request switch) connector.
- Check voltage between back door opener switch assembly (request switch) harness connector and ground.

Back door opener switch assembly (request switch)			Voltage (V)
Connector	Connector Terminal		(Approx.)
D197	4		5

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

### 2.check door request switch ground circuit

Check continuity between back door opener switch assembly (request switch) harness connector and ground.

Back door opener switch assembly (request switch)			Continuity	
Connector Terminal		Ground	Continuity	
D197	3		Exists	

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 3. CHECK DOOR REQUEST SWITCH CIRCUIT

Disconnect Intelligent Key unit connector.

Check continuity between Intelligent Key unit harness connector and back door opener switch assembly (request switch) harness connector.

Intelligen	t Key unit	Back door opener sv	witch (request switch)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	29	D197	4	Exists

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit			Continuity
Connector	Connector Terminal		Continuity
M40	29		Not existed

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

### 4. CHECK DOOR REQUEST SWITCH

Check back door opener switch assembly (request switch).

Refer to <u>DLK-69</u>, "BACK DOOR: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

>> Replace back door opener switch assembly (request switch). Refer to DLK-246, "Removal and NO Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

### >> INSPECTION END

### **BACK DOOR: Component Inspection**

### 1. CHECK DOOR REQUEST SWITCH

Turn ignition switch OFF.

- Disconnect back door opener switch assembly (request switch) connector.
- Check back door opener switch assembly (request switch).

Back door opener switch assembly (request switch)		Condition		Continuity
Terminal				
2	4	Door request switch	Pressed	Exists
3	4		Released	Not existed

#### Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Replace back door opener switch assembly (request switch). Refer to DLK-246, "Removal and Installation".

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INFOID:0000000008281765

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### **KEY SWITCH**

Description INFOID:0000000008281766

Key switch detects that mechanical key is inserted into the key cylinder, and then transmits the signal to BCM .

### Component Function Check

INFOID:0000000008281767

### 1. CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY ON SW") in "Data Monitor" mode with CONSULT. Refer to <u>DLK-46, "DOOR LOCK:</u> <u>CONSULT Function (BCM - DOOR LOCK)"</u>.

Monitor item	Condition	
KEY ON SW	Insert mechanical key into key cylinder	: ON
RET ON SW	Remove mechanical key from key cylinder	: OFF

#### Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to <u>DLK-70</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

INFOID:0000000008281768

## 1. CHECK KEY SWITCH POWER SUPPLY CIRCUIT

- 1. Remove mechanical key from key cylinder.
- 2. Disconnect key switch connector.
- Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

(+) Ignition knob switch, key switch and key lock solenoid		(–)	Voltage (V) (Approx.)
Connector	ctor Terminal		
M25	2	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

## 2. CHECK KEY SWITCH SIGNAL CIRCUIT

 Check continuity between BCM harness connector and ignition knob switch, key switch and key lock solenoid connector.

ВСМ		Ignition knob switch, key switch and key lock solenoid		Continuity
Connector	Terminal	Connector	Terminal	
M65	37	M25	1	Exists

2. Check continuity between key switch and ground.

Ignition knob switch, key s	witch and key lock solenoid		Continuity
Connector	Terminal	Ground	Continuity
M25	1		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.check key switch

### **KEY SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Check key switch function.

Refer to DLK-71, "Component Inspection".

Is the inspection result normal?

yes >> GO TO 4.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

### Component Inspection

### COMPONENT INSPECTION

## 1. CHECK KEY SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect key switch connector.
- 3. Check continuity between ignition knob switch, key switch and key lock solenoid terminals.

Ignition knob switch, key switch and key lock solenoid		Condition	Continuity	
Terminal		Condition		
1	2	Insert mechanical key into key cylinder	Exists	
	2	Remove mechanical key from key cylinder	Not existed	

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace ignition knob switch, key switch and key lock solenoid.

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### KEY CYLINDER SWITCH

Description INFOID:0000000008281770

Power window main switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signals.

### Component Function Check

INFOID:0000000008281771

### 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check ("KEY CYL LK-SW", "KEY CYL UN-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to <u>DLK-46</u>, "DOOR LOCK : <u>CONSULT Function</u> (<u>BCM - DOOR LOCK</u>)".

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

#### Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Refer to <u>DLK-72</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

INFOID:0000000008281772

## 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- Turn ignition switch ON.
- 2. Disconnect front door lock assembly (driver side) connector.
- 3. Check signal between front door lock assembly (driver side) harness connector and ground with oscilloscope.

(+) Front door lock assembly (driver side)		(-)	Key position	Voltage (V)	
Connector	Terminal		, p	(Approx.)	
			Unlock	0	
D9	5	Ground	Neutral / Unlock	(V) <sub>15</sub> 10 5 0 ++10ms  JPMIA0587GB	
D9 -			Lock	0	
	6		Neutral / Lock	(V) <sub>15</sub> 10 5 0 ++10ms JPMIA0587GB	

### Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

#### **KEY CYLINDER SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

## $\overline{2}$ .check door key cylinder signal circuit

- 1. Turn ignition switch OFF.
- Disconnect BCM connector.
- Check continuity between BCM harness connector and front door lock assembly (driver side) harness

ВСМ		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	7	D9	5	Existed
WOS	8	9	6	Existed

Check continuity between BCM connector and ground.

ВСМ			Continuity	
connector	Terminal	Ground	Continuity	
M65	7	Giouria	Not existed	
IVIOS	8		Not existed	

#### Is the inspection result normal?

>> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

## ${f 3.}$ CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) connector and ground.

Front door lock assembly (driv		Continuity	
Connector	Ground	Continuity	
D9	4		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to <u>DLK-73</u>, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to DLK-228, "DOOR LOCK: Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

### Component Inspection

### COMPONENT INSPECTION

### 1. CHECK DOOR KEY CYLINDER SWITCH

Check front door lock assembly (driver side).

Front door lock assembly (driver side) connector	Key position	Continuity
Terminal	rtoy position	Continuity

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INFOID:0000000008281773

### **KEY CYLINDER SWITCH**

< DTC/CIRCUIT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

	5	Unlock	Existed
3		Neutral / Lock	Not existed
6	Lock	Existed	
	Neutral / Unlock	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side). Refer to <u>DLK-228, "DOOR LOCK : Removal and Installation"</u>.

### **IGNITION KNOB SWITCH**

Description INFOID:0000000008281774

Ignition knob switch detects that ignition knob is pressed, and then transmits the signal to Intelligent Key unit.

Component Function Check

## 1. CHECK IGNITION KNOB SWITCH INPUT SIGNAL

Check ignition knob switch ("PUSH SW") in "Data Monitor" mode with CONSULT.

Monitor item	Condition		
PUSH SW	Ignition knob switch is pressed	: ON	
	Ignition knob switch is released	: OFF	

#### Is the inspection result normal?

YES >> Ignition knob switch is OK.

NO >> Refer to <u>DLK-75</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

## 1. CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect ignition knob switch, key switch and key lock solenoid connector.

3. Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

(	+)		Voltage (V) (Approx.)	
Ignition knob switch, key s	witch and key lock solenoid	(–)		
Connector Terminal			(11 - 7	
M25	M25 4		Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

### 2.CHECK IGNITION KNOB SWITCH SIGNAL CIRCUIT

 Check continuity between Intelligent Key unit harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

Intelligent Key unit		Ignition knob switch, key switch and key lock solenoid		Continuity
Connector	Terminal	Connector Terminal		Continuity
M40	27	M25	3	Exists

Check continuity between ignition knob switch, key switch and key lock solenoid harness connector and ground.

Ignition knob switch, key s	witch and key lock solenoid		Continuity	
Connector	Terminal	Ground	Continuity	
M25	3		Not existed	

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

**DLK-75** 

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### **IGNITION KNOB SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Refer to DLK-76, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

### Component Inspection

INFOID:0000000008281777

## 1. CHECK IGNITION KNOB SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect ignition knob switch. Key switch and key lock solenoid connector.
- Check continuity between ignition knob switch, key switch and key lock solenoid terminals under the following conditions.

Ignition knob switch, key switch and key lock so- lenoid  Terminal		Condition		Continuity	
3	3 4	Ignition knob switch Released		Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace ignition knob switch, key switch and key lock solenoid.

**DRIVER SIDE** 

**DRIVER SIDE**: Description

INFOID:0000000008281778

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Locks/unlocks the door with the signal from BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000008281779

### 1. CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition
	ALL UNLK	The all door lock actuators are unlocked
DOOR LOCK/UNLOCK	DR UNLK	The door lock actuator (driver side) is unlocked
	LOCK	The all door lock actuators are locked

#### Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.

NO >> Refer to <u>DLK-77</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

### DRIVER SIDE: Diagnosis Procedure

INFOID:0000000008281780

### 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.

2. Disconnect front door lock assembly (driver side) connector.

3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)			Voltage (V) (Approx.)		
Front door lock assembly (driver side)		(–)		Condition	
Connector	Terminal			, ,	
D9	1	Ground -	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	
D9	2		Unlock	$0 \rightarrow Battery \ voltage \rightarrow 0$	

#### Is the inspection result normal?

YES >> Replace front door lock assembly (driver side). Refer to <u>DLK-228, "DOOR LOCK : Removal and Installation"</u>.

NO >> GO TO 2.

### 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

Disconnect BCM connector.

Check continuity between BCM harness connector and front door lock assembly (driver side) harness connector.

BCM	1	Door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M67	65	D9	1	Exists
IVIO /	59	D9	2	EXISIS

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M67	65	Ground	Not existed
IVI67	59	_	Not existed

#### < DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000008281781

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE: Component Function Check

INFOID:0000000008281782

### 1.CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition
	ALL UNLK	The all door lock actuators are unlocked
DOOR LOCK/UNLOCK	AS UNLK	The door lock actuator (passenger side) is locked
	LOCK	The all door lock actuators are locked

#### Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.

NO >> Refer to <u>DLK-78</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

### PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000008281783

### 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect front door lock actuator (passenger side) connector.
- 3. Check voltage between front door lock actuator (passenger side) harness connector and ground.

(+) Front door lock actuator (passenger side)				\/altaga /\/\	
		(–)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			, , ,	
D48	2	Ground	Lock	$0 \rightarrow Battery \ voltage \rightarrow 0$	
D46	1	Giouna	Unlock	$0 \rightarrow Battery \ voltage \rightarrow 0$	

#### Is the inspection result normal?

YES >> Replace front door lock actuator (passenger side). Refer to <u>DLK-228, "DOOR LOCK : Removal and Installation"</u>.

NO >> GO TO 2.

## 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between BCM harness connector and front door lock actuator (passenger side) harness connector.

BCM	M	Front door lock actuator (passenger side) connector		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M67	65	D48	2	Exists
	66	D40	1	LXISIS

Check continuity between BCM harness connector and ground.

### [WITH INTELLIGENT KEY SYSTEM]

Е	BCM		Continuity
Connector	Terminal	Ground	Continuity
M67	65	Ground	Not existed
IVIO7	66		INOL EXISTED

Is the inspection result normal?

>> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Repair or replace harness.

**REAR LH** 

**REAR LH: Description** 

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Locks/unlocks the door with the signal from BCM.

REAR LH: Component Function Check

INFOID:0000000008281785

1. CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition
DOOR LOCK/UNLOCK	ALL UNLK	The all door lock actuators are unlocked
DOOK LOCK ONLOCK	LOCK	The all door lock actuators are locked

#### Is the inspection result normal?

YES >> Rear door lock actuator LH is OK.

>> Refer to DLK-79, "REAR LH: Diagnosis Procedure". NO

### **REAR LH: Diagnosis Procedure**

INFOID:0000000008281786

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect rear door lock actuator LH connector.
- Check voltage between rear door lock actuator LH harness connector and ground.

·	+) ck actuator LH	ator LH (–) Condition		Voltage (V) (Approx.)	
Connector	Terminal				(11 - 7
D85	1	Ground	Rear door LH		$0 \rightarrow Battery \ voltage \rightarrow 0$
	2	Ground	Real door Ell	Unlock	$0 \to \text{Battery voltage} \to 0$

### Is the inspection result normal?

YES >> Replace rear door lock actuator LH. Refer to <u>DLK-228, "DOOR LOCK: Removal and Installation"</u>.

NO >> GO TO 2.

## 2.CHECK DOOR LOCK ACTUATOR CIRCUIT 1

Disconnect BCM connector.

Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

BCI	M	Rear door lock actuator LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M67	66	D85	2	Exists

3. Check continuity between BCM harness connector and ground.

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### [WITH INTELLIGENT KEY SYSTEM]

#### < DTC/CIRCUIT DIAGNOSIS >

BCM			Continuity
Connector	Terminal	Ground	Continuity
M67	66		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK DOOR LOCK ACTUATOR CIRCUIT 2

- 1. Disconnect passenger side selective unlock relay connector.
- 2. Check continuity between passenger side selective unlock relay harness connector and rear door lock actuator LH harness connector.

Passenger side sele	ective unlock relay	Rear door lock actuator LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M90	4	D85	1	Exists

3. Check continuity between passenger side selective unlock relay harness connector and ground.

Passenger side selective unlock relay			Continuity
Connector	Terminal	Ground	Continuity
M90	4		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side selective unlock relay.

Passenger side selective unlock relay connector	Terminal		Continuity
M90	3	4	Exists

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger side selective unlock relay.

### CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between BCM harness connector and passenger side selective unlock relay harness connector.

BCI	M	Passenger side selective unlock relay		Passenger side selecti		Continuity
Connector	Terminal	Connector Terminal		Continuity		
M67	65	M90	3	Exists		

2. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Connector Terminal		Continuity
M67	65		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Repair or replace harness.

REAR RH

< DTC/CIRCUIT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

REAR RH : Description

Locks/unlocks the door with the signal from BCM.

REAR RH: Component Function Check

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INFOID:0000000008281789

INFOID:0000000008281787

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### 1. CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition
DOOR LOCK/UNLOCK	ALL UNLK	The all door lock actuators are unlocked
DOOK EOCHONEOCK	LOCK	The all door lock actuators are locked

#### Is the inspection result normal?

YES >> Rear door lock actuator RH is OK.

NO >> Refer to <u>DLK-81</u>, "<u>REAR RH</u>: <u>Diagnosis Procedure</u>".

### **REAR RH: Diagnosis Procedure**

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

Turn ignition switch OFF.

- 2. Disconnect rear door lock actuator RH connector.
- 3. Check voltage between rear door lock actuator RH harness connector and ground.

(+)					Voltogo (V)	
Rear door lock	actuator RH		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				,	
D105	2	Ground	Rear door RH	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	
	1	Giodila	Real door Kir	Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	

#### Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to <u>DLK-235</u>, "<u>DOOR LOCK</u>: Removal and Installation".

NO >> GO TO 2.

### 2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

Disconnect BCM connector.

Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

В	ВСМ		Rear door lock actuator RH	
Connector	Terminal	Connector Terminal		Continuity
M67	66	D105	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M67	66		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK DOOR LOCK ACTUATOR CIRCUIT $\scriptscriptstyle 2$

Disconnect passenger side selective unlock relay connector.

2. Check continuity between passenger side selective unlock relay harness connector and rear door lock actuator RH harness connector.

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#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Passenger side se	Passenger side selective unlock relay		Rear door lock actuator RH	
Connector	Terminal	Connector Terminal		Continuity
M90	4	D105	2	Exists

3. Check continuity between passenger side selective unlock relay harness connector and ground.

Passenger side selective unlock relay			Continuity
Connector	Terminal	Ground	Continuity
M90	4		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side selective unlock relay.

Selective unlock relay connector	Terr	Continuity	
M90	3	4	Exists

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace passenger side selective unlock relay.

## 5. CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between BCM harness connector and passenger side selective unlock relay harness connector.

В	CM	Selective unlock relay		Continuity
Connector	Terminal	Connector Terminal		Continuity
M67	65	M90	3	Exists

2. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M67	65		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

### **BACK DOOR OPENER ACTUATOR**

### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

### BACK DOOR OPENER ACTUATOR

Description INFOID:00000000008281790

Opens the back door with the signal from BCM.

### Component Function Check

## INFOID:000000008281791

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### 1. CHECK FUNCTION

Check "TRUNK/BACK DOOR" in "Active Test" mode with CONSULT.

Test item		Condition
TRUNK/BACK DOOR	:OPEN	Back door opener actuator operation

#### Is the inspection result normal?

YES >> Back door opener actuator is OK.

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

### Diagnosis Procedure

### INFOID:0000000008281792

## 1. CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect back door lock assembly connector.
- 3. Check voltage between back door lock assembly harness connector and ground.

	+) ock assembly	(–)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			( + )	
D190	1	Ground	Back door opener switch is Pressed	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between BCM harness connector and back door lock assembly harness connector.

В	СМ	Back door loc	k assembly	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M66	53	D190	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M66	53		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

### 3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

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### **BACK DOOR OPENER ACTUATOR**

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D190	2		Exists

### Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to <u>DLK-240, "DOOR LOCK: Removal and Installation"</u>.

NO >> Repair or replace harness.

### **BACK DOOR OPENER SWITCH**

Description INFOID:000000008281793

Output back door open signal to BCM.

### Component Function Check

### INFOID:0000000008281794

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### 1. CHECK FUNCTION

Check "TRNK OPNR SW" in "Data Monitor" mode with CONSULT.

Monitor item	Condition	
TRNK OPNR SW	Back door opener switch is pressed	:ON
	Back door opener switch is released	:OFF

#### Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to <u>DLK-85</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

#### INFOID:0000000008281795

## 1. CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door opener switch assembly (opener switch) connector.
- Check voltage between back door opener switch assembly (opener switch) harness connector and ground.

(+)					
Back door opener switch assembly (opener switch)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
D197	1	Ground	Back door	Not pressed	0
	I	Giodila	opener switch	Pressed	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- Check continuity between BCM harness connector and back door opener switch assembly (opener switch) harness connector.

В	СМ	Back door opener switch assembly (opener switch)		Continuity
Connector	Terminal	Connector	Terminal	
M65	30	D197	1	Exists

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M65	30		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

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### **BACK DOOR OPENER SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## 3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly (opener switch) connector and ground.

Back door opener switch (opener switch)		Continuity	
Connector	Terminal	Ground	
D197	2		Exists

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Refer to DLK-86, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly. Refer to <u>DLK-247</u>, "Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

## Component Inspection

INFOID:0000000008281796

### 1. CHECK BACK DOOR OPENER SWITCH

- 1. Turn ignition OFF.
- 2. Disconnect back door opener switch assembly (opener switch).
- 3. Check back door opener switch assembly (opener switch).

Back door opener switch assembly (opener switch)		Condition		Continuity	
Terminal				Continuity	
1 2		Back door opener switch	Pressed	Exists	
	2	back door opener switch	Released	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly. Refer to <u>DLK-247</u>. "Removal and Installation".

## OUTSIDE KEY ANTENNA

**DRIVER SIDE** 

DRIVER SIDE : Description

INFOID:0000000008281797

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Detects whether Intelligent Key is outside the vehicle.

Integrated in front outside handle (driver side).

### DRIVER SIDE : Component Function Check

INFOID:0000000008281798

### 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

- 1. Check "ANTENNA" in "Active Test" mode with CONSULT.
- 2. Touch "DRIVER ANT".
- 3. When Intelligent Key is in outside key antenna (driver side) detection area, hazard warning lamp blinks.

Т	est Item	Outside Antenna
ANTENNA	:DRIVER ANT	Outside key antenna (driver side)

#### Is the inspection result normal?

YES >> Outside key antenna (driver side) is OK.

NO >> Refer to <u>DLK-87</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

### DRIVER SIDE : Diagnosis Procedure

INFOID:0000000008281799

## 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect outside handle assembly (driver side) connector.
- Check signal between outside handle assembly (driver side) harness connector and ground with oscilloscope.

(+) Intelligent un	(+) Intelligent unit		Condition	Signal (Reference value)
Connector	Terminal			
D13	2	Ground	Request switch is pressed	(V) 15 10 5 0 1 s JMKIA0397ZZ
	2			1 s

#### Is the inspection result normal?

YES >> Replace Intellgent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> GO TO 2.

### 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector.

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### **OUTSIDE KEY ANTENNA**

### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

2. Check continuity between Intelligent Key unit harness connector and outside handle assembly (driver side) harness connector.

Intellige	nt Key unit	Outside handle assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	19	D13	1	Exists
10140	M40 20	טוט	2	LXISIS

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	t Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	19	Ground	Not existed
	20		Not existed

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000008281800

Detects whether Intelligent Key is outside the vehicle. Integrated in front outside handle (passenger side).

### PASSENGER SIDE: Component Function Check

INFOID:0000000008281801

### ${f 1}$ .CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

- Check "ANTENNA" in "Active Test" mode with CONSULT.
- 2. Touch "ASSIST ANT".
- When Intelligent Key is in outside key antenna (passenger side) detection area, hazard warning lamp blinks.

	Test Item	Outside Antenna	
ANTENNA	:ASSIST ANT	Outside key antenna (passenger side)	

#### Is the inspection result normal?

YES >> Outside key antenna (passenger side) is OK.

NO >> Refer to <u>DLK-88</u>. "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

### PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000008281802

### 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect outside handle assembly (passenger side) connector.
- 3. Check signal between outside handle assembly (passenger side) harness connector and ground with oscilloscope.

(+) Outside handle ass (passenger sid	le)	(–)	Condition	Signal (Reference value)
Connector	Terminal			
D33	1	Ground	Request switch is pressed	(V) 15 10 5 0 1
	2	Glound	Request switch is pressed	(V) 15 10 5 0 1,1 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5

#### Is the inspection result normal?

YES >> Replace outside handle assembly (passenger side). Refer to <u>DLK-244, "PASSENGER SIDE : Removal and Installation".</u>

NO >> GO TO 2.

## 2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

Disconnect Intelligent Key unit connector.

Check continuity between Intelligent Key unit harness connector and outside handle assembly (passenger side) harness connector.

Intelligent Key unit		Outside handle assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	37	D33	1	Exists
IVI4U	38	المحادث	2	EXISIS

3. Check continuity between Intelligent Key unit harness connector and ground.

Intellige	nt Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	37	Ground	Not existed
WI4U	38		Not existed

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

#### REAR BUMPER

### **REAR BUMPER: Description**

Detects whether Intelligent Key is outside the vehicle. Installed in rear bumper.

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### **OUTSIDE KEY ANTENNA**

< DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

### REAR BUMPER: Component Function Check

INFOID:0000000008281804

### 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

- 1. Check "ANTENNA" in "Active Test" mode with CONSULT.
- 2. Touch "BK DOOR ANT".
- 3. When Intelligent Key is in outside key antenna (rear bumper) detection area, hazard warning lamp blinks.

Tes	t Item	Outside Antenna
ANTENNA	:BK DOOR ANT	Outside key antenna (rear bumper)

#### Is the inspection result normal?

YES >> Outside key antenna (rear bumper) is OK.

NO >> Refer to <u>DLK-90</u>, "<u>REAR BUMPER</u>: <u>Diagnosis Procedure</u>".

### REAR BUMPER : Diagnosis Procedure

INFOID:0000000008281805

## 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect outside key antenna (rear bumper) connector.
- Check signal between outside key antenna (rear bumper) harness connector and ground with oscilloscope.

(+) Outside key antenna (rear bumper)		(–) Condition		Signal (Reference value)
Connector	Terminal			,
B83	1	Ground	Request switch is pressed	(V) 15 10 5 0 1
	2			(V) 15 10 5 0 11 s  JMKIA0395ZZ

#### Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to <u>DLK-244, "REAR BUMPER : Removal and Installation"</u>.

NO >> GO TO 2.

## 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- Check continuity between Intelligent Key unit harness connector and outside key antenna (rear bumper) harness connector.

Intelligent Key unit		Outside key antenna (rear bumper)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M40	17	B83	1	Exists	
10140	18	000	2	LAISIS	

### **OUTSIDE KEY ANTENNA**

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	nt Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	17	Giodila	Not existed
10140	18		Not existed

### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

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### INSIDE KEY ANTENNA

**CONSOLE** 

CONSOLE : Description

INFOID:0000000008281806

INFOID:0000000008281807

Detects whether Intelligent Key is inside the vehicle.

### **CONSOLE**: Component Function Check

### 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- Check "ANTENNA" in "Active Test" mode with CONSULT.
- 2. Touch "ROOM ANT 1".
- 3. When Intelligent Key is in inside key antenna (console) detection area, hazard warning lamp blinks.

	Test Item	Inside Antenna	
ANTENNA	:ROOM ANT 1	Inside key antenna (console)	

#### Is the inspection result normal?

YES >> Inside key antenna (console) is OK.

NO >> Refer to <u>DLK-92</u>, "<u>CONSOLE</u>: <u>Diagnosis Procedure</u>".

### **CONSOLE**: Diagnosis Procedure

INFOID:0000000008281808

### 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect inside key antenna (console) connector.
- 3. Check signal between inside key antenna (console) harness connector and ground with oscilloscope.

(+) Inside key antenna Connector	(console)	(–)	Condition	Signal (Reference value)
M252	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1 s JMKIA0393ZZ

### Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to <u>DLK-242, "CONSOLE : Removal and Installation"</u>.

NO >> GO TO 2.

### 2. CHECK INSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- Check continuity between Intelligent Key unit harness connector and inside key antenna (console) harness connector.

### **INSIDE KEY ANTENNA**

### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Intelligent Key unit		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	15	M252	1	Exists
10140	M40 16	IVIZOZ	2	EXISIS

Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	nt Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	15	Giodila	Not existed
IVI40	16		Not existed

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

REAR SEAT

**REAR SEAT: Description** 

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT: Component Function Check

## 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- 1. Check "ANTENNA" in "Active Test" mode with CONSULT.
- 2. Touch "ROOM ANT 2".
- 3. When Intelligent Key is in inside key antenna (rear seat) detection area, hazard warning lamp blinks.

Test Item		Inside Antenna	
ANTENNA	:ROOM ANT 2	Inside key antenna (rear seat)	

#### Is the inspection result normal?

YES >> Inside key antenna (rear seat) is OK.

NO >> Refer to <u>DLK-93</u>, "REAR SEAT : Diagnosis Procedure".

### **REAR SEAT: Diagnosis Procedure**

## 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect inside key antenna (rear seat) connector.
- Check signal between inside key antenna (rear seat) harness connector and ground with oscilloscope.

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(+) Intelligent Key	(+) Intelligent Key unit		Condition	Signal (Reference value)
Connector	Terminal			(
B45	1	Ground	Ignition knob switch is pressed	(V) 15 10 5 0 1
	2			(V) 15 10 5 0 1

#### Is the inspection result normal?

YES >> Replace inside key antenna (rear seat). Refer to <u>DLK-242, "REAR: Removal and Installation"</u>.

NO >> GO TO 2.

## 2.CHECK INSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- Check continuity between Intelligent Key unit harness connector and inside key antenna (rear seat) harness connector.

Intelligent Key unit		Inside key antenna (rear seat)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M40	13	B45	1	Exists
10140	14	540	2	LAISIS

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelliger	it Key unit		Continuity
Connector	Terminal	Ground	Continuity
M40	13	Ground	Not existed
IVI4U	14		NOT EXISTED

#### Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

### INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### INTELLIGENT KEY WARNING BUZZER

Description INFOID:0000000008281812

Answers back and warns about an inappropriate operation.

### Component Function Check

1. CHECK FUNCTION

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

### Is the inspection result normal?

>> Intelligent Key warning buzzer is OK. YES

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

### Diagnosis Procedure

## 1. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

Turn ignition switch OFF.

Disconnect Intelligent Key warning buzzer connector.

Check voltage between Intelligent Key warning buzzer harness connector and ground.

(+) Intelligent Key warning bu	(–)	Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
E25	1	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

### 2.CHECK HARNESS CONTINUITY

Disconnect Intelligent Key unit connector.

Check continuity between Intelligent Key warning buzzer harness connector and Intelligent Key unit harness connector.

Intelligent Key warning buzzer		Intelliger	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
E25	3	M40	4	Exists

Check continuity between Intelligent Key warning buzzer harness connector and ground.

Intelligent Key warning buz		Continuity	
Connector	Terminal	Ground	Continuity
E25	3		Not existed

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to DLK-96, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key warning buzzer. Refer to DLK-245, "Removal and Installation".

### 4.CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

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### INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

>> INSPECTION END

### Component Inspection

INFOID:0000000008281815

## 1. CHECK INTELLIGENT KEY WARNING BUZZER

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

Intelligent Key warning buzzer	Terminal		Operation
connector	(+)	(-)	Buzzer sounds
E25	1	3	Duzzei soullus

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace Intelligent Key warning buzzer. Refer to <u>DLK-245</u>, "Removal and Installation".

### **BUZZER (COMBINATION METER)**

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

#### **BUZZER (COMBINATION METER)** Α Description INFOID:0000000008281816 Performs operation method guide and warning with buzzer. В Component Function Check INFOID:0000000008281817 1. CHECK FUNCTION Check the operation with "INSIDE BUZZER" in "Active Test" with CONSULT. D Test item Condition TAKE OUT Take away warning chime sounds **INSIDE BUZZER KNOB** Ignition knob switch warning chime sounds Е **KEY** Key warning chime sounds Is the inspection result normal? F YES >> Warning buzzer in combination meter is OK. >> Refer to <u>DLK-97</u>, "<u>Diagnosis Procedure</u>". NO Diagnosis Procedure INFOID:0000000008281818 1. CHECK BUZZER (COMBINATION METER) CIRCUIT Refer to WCS-22, "Component Function Check". Н Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace buzzer (combination meter) circuit. 2. CHECK INTERMITTENT INCIDENT Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

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#### **KEY WARNING LAMP**

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### **KEY WARNING LAMP**

Description INFOID:0000000008281819

Performs operation method guide and warning together with buzzer.

### Component Function Check

INFOID:0000000008281820

### 1. CHECK FUNCTION

Check the operation with "INDICATOR" in "Active Test" mode with CONSULT.

Test item	Condition		
	BLUE ON	Key warning lamp (green) illuminates	
INDICATOR	RED ON	Key warning lamp (red) illuminates	
INDICATOR	BLUE IND	Key warning lamp (green) flashes	
	RED IND	Key warning lamp (red) flashes	

#### Is the inspection result normal?

YES >> Key warning lamp in combination meter is OK.

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

### Diagnosis Procedure

INFOID:0000000008281821

### 1. CHECK KEY WARNING LAMP CIRCUIT

Refer to MWI-46, "Work flow".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace key warning lamp circuit.

### 2. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

### **UNLOCK SENSOR**

Description INFOID:0000000008281822

Detects door lock condition of driver door.

### Diagnosis Procedure

#### INFOID:0000000008281823

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## 1. CHECK UNLOCK SENSOR POWER SUPPLY

- 1. Turn ignition switch OFF.
- Disconnect front door lock assembly (driver side) connector. 2.
- Check voltage between front door lock assembly (driver side) harness connector and ground.

(+) Front door lock assembly (driver side)		(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 - )
D9	3	Ground	5

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

## 2.check unlock sensor ground circuit

Check continuity between front door lock assembly (driver side) connector and ground.

Front door lock assembly (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D9	4		Exist

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to <u>DLK-100</u>, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO

>> Replace front door lock assembly (driver side). Refer to <u>DLK-228</u>, "<u>DOOR LOCK</u>: Removal and Installation".

### 4. CHECK UNLOCK SENSOR CIRCUIT

- Disconnect Intelligent Key unit connector.
- 2. Check continuity between front door lock assembly (driver side) harness connector and Intelligent Key unit harness connector.

Front door lock as:	sembly (driver side)	Intelliger	nt Key unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D9	3	M40	28	Exists

Check continuity between Intelligent Key warning buzzer harness connector and ground.

Front door lock assembly (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D9	3		Not existed

#### Is the inspection result normal?

>> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

**DLK-99** Revision: 2013 December **2013 ROGUE** 

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### **UNLOCK SENSOR**

### < DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Repair or replace harness.

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

### Component Inspection

INFOID:0000000008281824

## 1. CHECK UNLOCK SENSOR

- 1. Turm ignition switch OFF.
- 2. Disconnect front door lock assembly (driver side) connector.
- 3. Check unlock sensor terminal.

Term	ninal	Condition	1	Continuity
Front door lock ass	embly (driver side)	Condition		Continuity
2	4	Front door lock assembly	Unlock	Existed
	(driver side)	(driver side)	Lock	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side). Refer to <u>DLK-210, "DOOR ASSEMBLY : Removal and Installation"</u>.

### TRANSMISSION RANGE SWITCH

### < DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TRANCI	MOISSIV	BANGE	<b>SWITCH</b>
INAINOI	MISSICIA	LAIM	$\circ$

Description INFOID:0000000008281825

Detects park position condition.

### Diagnosis Procedure

### INFOID:0000000008281826

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## 1. CHECK PARK POSITION SWITCH POWER SUPPLY

- 1. Turn ignition switch OFF.
- Disconnect CVT shift selector connector.
- 3. Check voltage between CVT shift selector harness connector and ground.

(+) CVT shift selector		(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 - )
M57	16	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

## 2.check park position switch ground circuit

Check continuity between contol device connector and ground.

CVT shift selector			Continuity
Connector	Terminal	Ground	Continuity
M57	4		Exist

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK PARK POSITION SWITCH

Check park position switch.

Refer to <u>DLK-102</u>, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace park position switch.

## 4. CHECK PARK POSITION SWITCH CIRCUIT

- 1. Disconnect Intelligent Key unit connector.
- Check continuity between CVT shift selector harness connector and Intelligent Key unit harness connector

CVT shi	ft selector	Intelliger	nt Key unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M57	16	M40	10	Exists

3. Check continuity between Intelligent Key warning buzzer harness connector and ground.

CVT shift selector			Continuity
Connector	Terminal	Ground	Continuity
M57	16		Not existed

### Is the inspection result normal?

Revision: 2013 December

YES >> Replace Intelligent Key unit. Refer to <u>DLK-249</u>, "Removal and Installation".

NO >> Repair or replace harness.

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### TRANSMISSION RANGE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## 5.CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

### Component Inspection

INFOID:0000000008281827

## 1. CHECK PARK POSITION SWITCH

- 1. Turm ignition switch OFF.
- 2. Disconnect CVT shift selector connector.
- 3. Check park position switch.

Terminal CVT shift selector		Condition	Continuity
		Condition	Continuity
4	16	Selector lever is in "P" position	Existed
4	10	Other than above	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace park position switch.

#### SELECTIVE UNLOCK RELAY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### SELECTIVE UNLOCK RELAY

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000008281828

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Receives selective unlock signal from Intelligent Key unit.

PASSENGER SIDE: Component Function Check

INFOID:0000000008281829

### 1. CHECK FUNCTION

- All doors are locked using Intelligent Key or door request switch.
- Press door request switch (passenger side), only passenger side door is UNLOCK.

#### Is the inspection result normal?

YES >> Selective unlock relay is OK.

>> Refer to DLK-103, "PASSENGER SIDE: Diagnosis Procedure". NO

INFOID:0000000008281830

### PASSENGER SIDE : Diagnosis Procedure

### 1.CHECK FUSE

Check that the following fuse are not fusing.

Signal name	Fuse No.
Battery power supply	8 (10A)

#### Is the inspection result normal?

>> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse is blown.

NO >> GO TO 2.

### 2.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

Check voltage between Intelligent Key unit harness connector and ground.

(+) Intelligent Key	unit	(–)		Condition	Voltage (V) (Approx.)
Connector	Terminal				(/ ,pp. 5/11)
M40	40	Ground	Press front door request switch	Selective unlock operation	Battery voltage → 0 → Battery voltage
			(passenger side)	Other than above	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

## 3.check passenger side selective unlock relay

Check passenger side selective unlock relay.

Refer to DLK-104, "PASSENGER SIDE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace passenger side selective unlock relay.

## f 4.CHECK PASSENGER SIDE SELECTIVE RELAY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect passenger side selective unlock relay connector and Intelligent Key unit connector.
- Check continuity between passenger side selective unlock relay harness connector and Intelligent Key unit connector.

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### **SELECTIVE UNLOCK RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITH INTELLIGENT KEY SYSTEM]

Passenger side selective u	nlock relay	Intelligent k	Key unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M90	1	M40	40	Exists

4. Check continuity between passenger side selective unlock relay harness connector and ground.

Passenger side selective unlock rela	ay		Continuity
Connector	Terminal	Ground	Continuity
M90	1		Not existed

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### ${f 5.}$ CHECK PASSENGER SIDE SELECTIVE RELAY INPUT SIGNAL

Check voltage between passenger side selective unlock relay harness connector and ground.

(+) Passenger side selective u	ınlock relay	(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			(, , , , , , , , , , , , , , , , , , ,
M90	2	Ground	Ignition switch OFF	Battery voltage

#### Is the inspection result normal?

YES >> Replace passenger side selective unlock relay.

NO >> Repair or replace harness.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

## PASSENGER SIDE : Component Inspection

INFOID:0000000008281831

### 1. CHECK SELECTIVE UNLOCK RELAY

- 1. Turm ignition switch OFF.
- 2. Disconnect passenger side selective unlock relay.
- 3. Check continuity passenger side selective unlock relay terminals.

Passenger side se	elective unlock relay	Condition	Continuity
Terr	minal	Condition	Continuity
4	3	Battery voltage direct current supply between terminals 1 and 2	Not existed
		Other than above	Exists

#### Is the inspection result normal?

YES >> Passenger side selective unlock relay is OK.

NO >> Replace passenger side selective unlock relay.

## **HAZARD FUNCTION**

< DTC/CIRCUIT DIAGNOSIS >
HAZARD FUNCTION

## [WITH INTELLIGENT KEY SYSTEM]

LIAZADD FUNCTION	<u> </u>
HAZARD FUNCTION	
Description	NFOID:00000000008281832
Perform answer-back for each operation with number of blinks.	
Component Function Check	NFOID:0000000008281833
1. CHECK FUNCTION	
Check hazard warning lamp "FLASHER" in Active Test with CONSULT.  Is the inspection result normal?  YES >> Hazard warning lamp circuit is OK.  NO >> Refer to DLK-105, "Diagnosis Procedure".	
Diagnosis Procedure	NFOID:0000000008281834
1. CHECK HAZARD SWITCH CIRCUIT	
Refer to EXL-45, "Component Function Check".	
Is the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace hazard warning switch circuit.  2.CHECK INTERMITTENT INCIDENT	
Refer to GI-46, "Intermittent Incident".	
>> INSPECTION END	

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#### HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# HORN FUNCTION EXCEPT FOR MEXICO

**EXCEPT FOR MEXICO: Description** 

INFOID:0000000008281835

Horn (high/low) is located inside of front bumper and operates when vehicle security system is in alarm phase.

### **EXCEPT FOR MEXICO: Component Function Check**

INFOID:0000000008281836

### 1. CHECK FUNCTION

- 1. Select "HORN" in "Active Test" mode with CONSULT.
- 2. Check the horn (high/low) operation.

Test	item	Desc	ription
HORN	ON	Horn (high/low)	ON (for 20 ms)

#### Is the operation normal?

YES >> INSPECTION END

NO >> Refer to <u>DLK-106</u>, "EXCEPT FOR MEXICO : Diagnosis Procedure".

### **EXCEPT FOR MEXICO: Diagnosis Procedure**

INFOID:0000000008281837

### 1. CHECK HORN FUNCTION

Check horn function with horn switch

#### Do the horns sound?

YES >> GO TO 2.

NO >> Refer to HRN-2, "EXCEPT FOR MEXICO: Wiring Diagram - HORN -".

### 2.CHECK HORN RELAY CIRCUIT

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

IPD	M E/R	Horn	relay	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E15	57	E5	1	Existed

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

IPDI	M E/R		Continuity
Connector	Terminal	Ground	Continuity
E15	57		Not existed

#### Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-28, "Removal and Installation".

NO >> Repair or replace harness.

FOR MEXICO

### FOR MEXICO: Description

INFOID:0000000008281838

Horn (high/low) is located inside of front bumper and operates when vehicle security system is in alarm phase.

### FOR MEXICO: Component Function Check

#### INFOID:0000000008281839

### 1. CHECK FUNCTION

- 1. Select "HORN" in "Active Test" mode with CONSULT.
- 2. Check the horn (high/low) operation.

### HORN FUNCTION

### < DTC/CIRCUIT DIAGNOSIS >

### [WITH INTELLIGENT KEY SYSTEM]

	Test iter	m		Description	
-	HORN	ON	Horn (high/low)	C	ON (for 20 ms)
	the operation normal? ES >> INSPECTION	N END			
			) : Diagnosis Procedur	<u>e"</u> .	
=(	OR MEXICO : Dia	gnosis Procedu	re		INFOID:000000008281840
1.	CHECK HORN FUNC	TION			
Ch	eck horn function with	horn switch			
	the horns sound?				
	ES >> GO TO 2. O >> Refer to HRN	AL2 "EYCEDT EOD N	MEXICO : Wiring Diagr	am - HOPN -"	
_			WEATOO . WITHING DIAGI	aiii - HUKIN	
/	CHECK HUDNI DEI VI	∨			
	CHECK HORN RELAY				
1.	Turn ignition switch (	OFF.	ay connector and theft	warning horn rela	v connector
1.	Turn ignition switch ( Disconnect IPDM E/I	OFF. R connector, horn rela	ay connector and theft		
1. 2. 3.	Turn ignition switch C Disconnect IPDM E/I Check continuity bety	DFF. R connector, horn rela ween IPDM E/R harn	ess connector and hor	n relay harness co	
1. 2.	Turn ignition switch C Disconnect IPDM E/I Check continuity between	DFF. R connector, horn rela ween IPDM E/R harn	ess connector and hor	n relay harness co	
1.	Turn ignition switch C Disconnect IPDM E/I Check continuity beto IPDM Connector	OFF. R connector, horn rela ween IPDM E/R harn I E/R Terminal	Horn r Connector	n relay harness co	Continuity
1.	Turn ignition switch C Disconnect IPDM E/I Check continuity betw IPDM Connector E15	OFF. R connector, horn rela ween IPDM E/R harn I E/R Terminal 57	Horn r Connector E5	rn relay harness co elay Terminal 1	Continuity  Existed
1. 2. 3.	Turn ignition switch C Disconnect IPDM E/I Check continuity betw IPDM Connector E15	OFF. R connector, horn rela ween IPDM E/R harn I E/R Terminal 57	Horn r Connector	rn relay harness co elay Terminal 1	Continuity  Existed
1. 2. 3.	Turn ignition switch C Disconnect IPDM E/I Check continuity betw IPDM Connector E15	OFF. R connector, horn relaween IPDM E/R harn  Terminal  57  ween IPDM E/R harn	Horn r Connector E5	elay Terminal 1 ft warning horn rel	Continuity  Existed lay harness connector.
1. 2.	Turn ignition switch C Disconnect IPDM E/I Check continuity bety  IPDM  Connector  E15  Check continuity bety	OFF. R connector, horn relaween IPDM E/R harn  Terminal  57  ween IPDM E/R harn	Horn r Connector E5 ess connector and the	elay Terminal 1 ft warning horn rel	Continuity  Existed
1. 2. 3.	Turn ignition switch C Disconnect IPDM E/I Check continuity beto  IPDM  Connector E15  Check continuity beto  IPDM	OFF. R connector, horn relaween IPDM E/R harn Terminal 57 ween IPDM E/R harn	Horn r Connector E5 ess connector and the	rn relay harness con elay Terminal 1 ft warning horn relay	Continuity  Existed lay harness connector.
1. 2. 3.	Turn ignition switch C Disconnect IPDM E/I Check continuity betw  IPDM Connector E15 Check continuity betw  IPDM Connector E15  Check continuity betw  E15	OFF. R connector, horn relaween IPDM E/R harn  I E/R  Terminal  57  ween IPDM E/R harn  I E/R  Terminal  57	Horn r Connector E5 ess connector and the Theft warning Connector	Terminal  ft warning horn rel  horn relay  Terminal  1  Terminal  Terminal	Continuity  Existed  lay harness connector.  Continuity
1. 2. 3.	Turn ignition switch C Disconnect IPDM E/I Check continuity between IPDM Connector E15 Check continuity between IPDM Connector E15 Check continuity between Connector E15 Check continuity between	OFF. R connector, horn relaween IPDM E/R harn  I E/R  Terminal  57  ween IPDM E/R harn  I E/R  Terminal  57	Horn r Connector E5 ness connector and the Theft warning Connector E70	Terminal  ft warning horn rel  horn relay  Terminal  1  Terminal  Terminal	Continuity  Existed  lay harness connector.  Continuity  Existed
1. 2. 3.	Turn ignition switch C Disconnect IPDM E/I Check continuity between IPDM Connector E15 Check continuity between IPDM Connector E15 Check continuity between Connector E15 Check continuity between	OFF. R connector, horn relaween IPDM E/R harn  I E/R  Terminal  57  ween IPDM E/R harn  I E/R  Terminal  57  ween IPDM E/R harn  57	Horn r Connector E5 ness connector and the Theft warning Connector E70	Terminal  ft warning horn rel g horn relay  Terminal 1  ft warning horn rel g horn relay  Terminal 1  und.	Continuity  Existed  lay harness connector.  Continuity

YES >> Replace IPDM E/R. Refer to PCS-28, "Removal and Installation".

NO >> Repair or replace harness.

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### INTELLIGENT KEY BATTERY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### INTELLIGENT KEY BATTERY

Description INFOID:0000000008281841

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

- Door lock and unlock
- Engine start

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

### Component Function Check

INFOID:0000000008281842

### 1. CHECK INTELLIGENT KEY FUNCTION

Check door lock and unlock operation with Intelligent Key switch.

#### Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to <u>DLK-108</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

INFOID:0000000008281843

### 1. CHECK INTELLIGENT KEY BATTERY

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

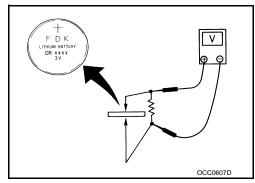
#### Standard: Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to <u>DLK-108</u>,

"Component Function Check".



#### INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### INTEGRATED HOMELINK TRANSMITTER

Description INFOID:0000000008281844

Integrated Homelink Transmitter 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. Integrated Homelink Transmitter power supply uses vehicle battery, which enables it to maintain every program in case battery is discharged or removed.

# Component Function Check

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

Turn ignition switch OFF.

Does red light of transmitter illuminate when any transmitter button is pressed?

#### Is the inspection result normal?

YES >> GO TO 3.

>> Refer to DLK-109, "Diagnosis Procedure". NO

#### ${f 3.}$ 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-16, "Removal and Installation".

# Diagnosis Procedure

# 1. CHECK POWER SUPPLY

Turn ignition switch OFF.

Disconnect auto anti-dazzling inside mirror (homelink universal transceiver) connector.

Check voltage between auto anti-dazzling inside mirror (home link universal transceiver) harness connector and ground.

(+) Auto anti-dazzling inside mirror (Homelink universal transceiver)		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
R9	10	Ground	Ignition switch	LOCK	Battery voltage
K9	6	Giodila	ignition switch	ON	Dattery Voltage

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

- 10A fuse [No. 1 located in the fuse block (J/B)]
- 10A fuse [No. 8 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.

**DLK-109** Revision: 2013 December **2013 ROGUE** 

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## INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Auto anti-dazzling inside mirror (Homelink universal transceiver) connector	Terminal	Ground	Continuity
R9	8		Existed

## Is the inspection result normal?

YES >> Replace auto anti-dazzling inside mirror.

NO >> Repair or replace harness.

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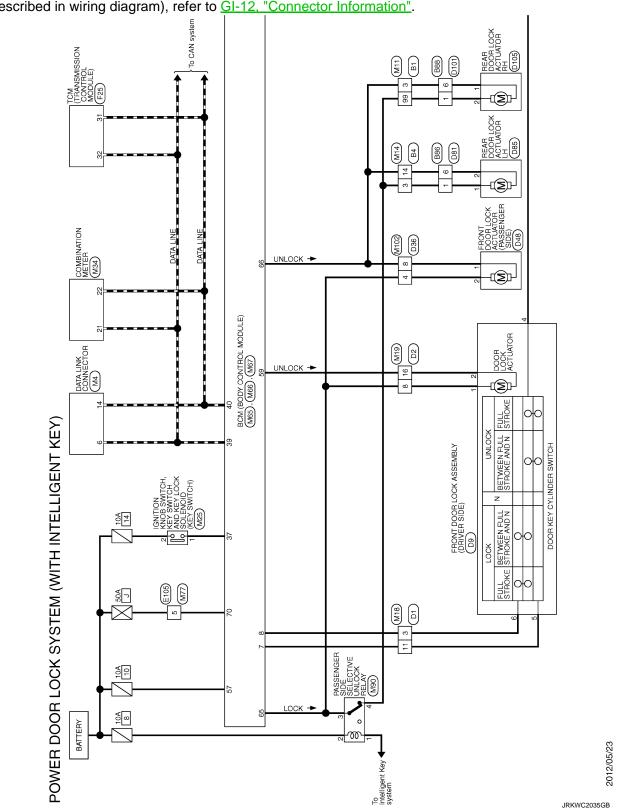
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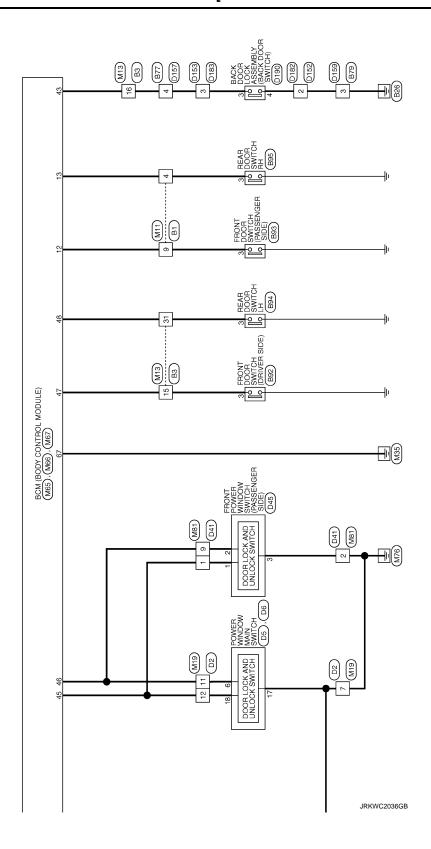
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## POWER DOOR LOCK SYSTEM

# Wiring Diagram - POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY) -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".





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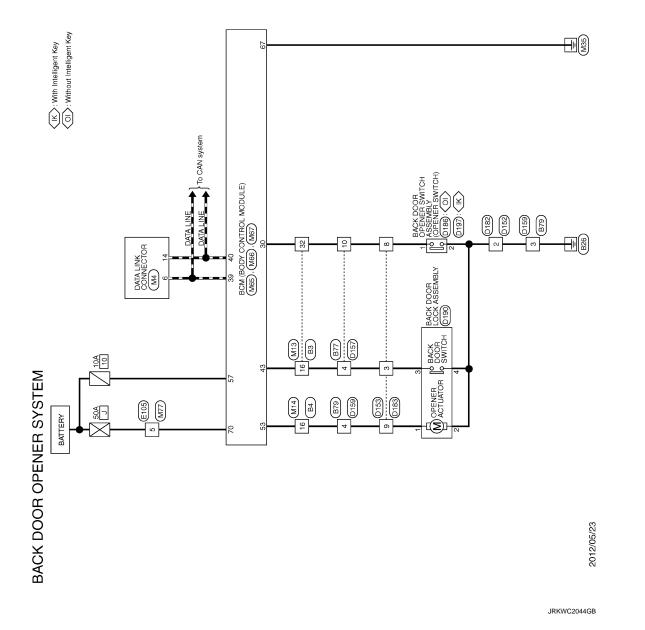
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## **BACK DOOR OPENER SYSTEM**

## Wiring Diagram - BACK DOOR OPENER SYSTEM -

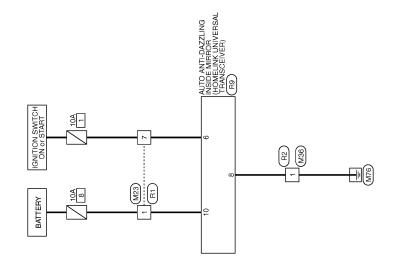
For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



## INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM - INFOID-000000008281849

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



NTEGRATED HOMELINK TRANSMITTER

2012/05/23

JRKWC2045GB

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

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# **ECU DIAGNOSIS INFORMATION**

# INTELLIGENT KEY UNIT

Reference Value INFOID:0000000008281850

#### VALUES ON THE DIAGNOSIS TOOL

(	CONSULT MONITOR ITEM	

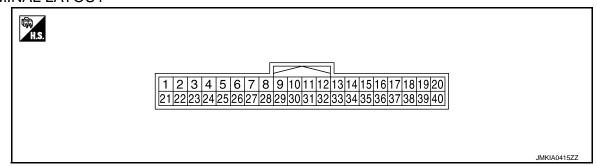
Monitor Item		Condition	Value/Status				
PUSH SW	Ignition knob	Release	OFF				
-03H 3W	Ignition knob	Press	ON				
KEY SW	Mechanical key	Removed	OFF				
AET SW	iviechanical key	Inserted	ON				
OR REQ SW	Door request switch	Release	OFF				
DICINEQ OW	(driver)	Press	ON				
AS REQ SW	Door request switch	Release	OFF				
AS NEW SW	(passenger)	Press	ON				
BD/TR REQ SW	Door request switch	Release	OFF				
DD/ TR REQ SW	(back door)	Press	ON				
GN SW	Ignition quitab	Other than ON position	OFF				
IGN SW	Ignition switch	ON position	ON				
ACC SW	Ignition switch	Other than ACC or ON position	OFF				
	ignition switch	ACC or ON position	ON				
STOP LAMP SW	Droke medal	Press	OFF				
	Brake pedal	Release	ON				
	Obits a saisia a	P position	ON				
P RANGE SW	Shift position	Other than P position	OFF				
BD OPEN SW		The item is indicated, but not monitored.					
TR CANCEL SW		The item is indicated, but not monitored.					
	Lock button of	Release	OFF				
DOOR LOCK SIG	Intelligent Key	Press	ON				
DOOD LINI OOK GIG	Unlock button of	Release	OFF				
DOOR UNLOCK SIG	Intelligent Key	Press	ON				
KEYLESS TRUNK		The item is indicated, but not m	nonitored.				
VEVI EGG DANIG	PANIC button of key	Release	OFF				
KEYLESS PANIC	fob	Press	ON				
KEYLESS PSD LH		The item is indicated, but not m	nonitored.				
KEYLESS PSD RH		The item is indicated, but not m	nonitored.				
KEYLESS PBD SIG		The item is indicated, but not m	nonitored.				
DOOD CW DD	Door (driver eide)	Close	OFF				
DOOR SW DR	Door (driver side)	Open	ON				
DOOD SW AS	Door (necessary side)	Close	OFF				
DOOR SW AS	Door (passenger side)	Open	ON				
DOOD SW DD	Door (roor DU)	Close	OFF				
DOOR SW RR	Door (rear RH)	Open	ON				
DOOR SW BI	Door (rear LU)	Close	OFF				
DOOR SW RL	Door (rear LH)	Open	ON				

#### < ECU DIAGNOSIS INFORMATION >

#### [WITH INTELLIGENT KEY SYSTEM]

Monitor Item		Condition	Value/Status	
DOOD BK SW	Back door	Close	OFF	
DOOR BK SW	Back door	Open	ON	
TRUNK SW	The item is indicated, but not monitored.			
VEHICLE SPEED	While driving	Equivalent to speedometer reading		

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	ninal No.	Description				Value IVI
(wir	e color)	Signal name	Input/ Output	(	Condition	Value [V] (Approx.)
1 (GR)	Ground	Steering lock unit power supply	Output		_	5
2 (L)	Ground	CAN - H	Input/ Output		_	_
3 (P)	Ground	CAN - L	Input/ Output		_	_
4		Intelligent Key warn-		Intelligent Key	Sounding	0
(V)	Ground	ing buzzer	Output	warning buzz- er	Not sounding	Battery voltage
5		Front door request		Front door re-	ON (Pressed)	0
(Y)	Ground	switch (driver side)	Input	quest switch (driver side)	OFF (Released)	5
6	Ground	Ignition switch power	Input	Ignition switch	OFF	0
(W)	Giodila	supply	прис	ignition switch	ON	Battery voltage
7	Ground	Key switch	Input	When ignition I tion key cylinde	key is inserted into ignier	Battery voltage
(LG)	Giodila	Ney Switch	iliput	When ignition key is not inserted into ignition key cylinder		0
10	Ground	Park position switch	Input	Shift lever in pa	ark position	0
(SB)	Giound	rain position switch	iriput	Other than abo	ove	Battery voltage
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
12 (B)	Ground	Ground	_	_		0

	ninal No.	Description				Value [V]	٨
+ (Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
13	Ground	Inside key antenna	0.4.4	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 1 s JMKIA0393ZZ	В
(Y)	Glound	(+) (rear seat)	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0  MINIMATERIAL MATERIAL MA	E F
14	Cround	Inside key antenna	Outout	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0392ZZ	G H
(BR)	Ground (-) (rear seat) Outpu	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0390ZZ	J <b>DLK</b>	
15	Count	Inside key antenna	0.4.4	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1   1   1   1   1   1   1   1   1   1	M
(R)	Ground	Ground (+) (console)	Output	is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 15 10 15 15 15 17 18 18 18 18 18 18 18 18 18 18 18 18 18	O P

	ninal No.	Description				Value [V]
+ (WIF	e color)	Signal name	Input/ Output		Condition	(Approx.)
16	Ground	Inside key antenna	Output	Ignition knob	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 1 s JMKIA0392ZZ
(G)	Sidana	(-) (console)	Output is pressed.	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0390ZZ	
17	Ground	Outside key antenna	Output	Output back door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 1 1 S JMKIA0397ZZ
(W)		(+) (rear bumper)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0514ZZ
18	Ground	Outside key antenna	Output	When the back door request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0395ZZ
18 (R)	Ground	(-) (rear bumper)	Culput	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0515ZZ

### < ECU DIAGNOSIS INFORMATION >

# [WITH INTELLIGENT KEY SYSTEM]

	ninal No.	Description				Value [V]
+ (wir	e color)	Signal name	Input/ Output	(	Condition	(Approx.)
19	Constant	Outside key antenna	When the front door request switch		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1
(BR)	Ground	(+) (driver side)	Output	(driver side) is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0
20	Ground	Outside key antenna	Mhen the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	
(B)	Sistana	(-) (driver side)		operated with ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0515ZZ
		Front door request		Front door re-	ON (Pressed)	0
25 (BR)	Ground	switch (passenger side)	Input	quest switch (passenger side)	OFF (Released)	5
26 (B)	Ground	Stop lamp switch	Input	Depress the br	•	Battery voltage 0
27	Ground	Ignition knob switch	Inn: 4	Ignition switch	When ignition knob switch is pressed	Battery voltage
(G)		Ignition knob switch	Input	OFF	When ignition knob switch is released	0
28	Ground	Unlock sensor	Input	Lock (ON)		5
(W)	Giodila	OHIOCK SEHSOL	iriput	Unlock (OFF)		0
29 (SB)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed) OFF (Released)	0 5
31 (L)	Ground	Steering lock unit ground	_	_	<del>-</del>	0

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	ninal No.	Description				Value [V]
+ (wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
32 (P)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status  LOCK or UNLOCK	5 (V) 6 4 2 0 100 ms JMKIA0433ZZ
37	Ground	Outside key antenna	Output	When the front door request switch (passenger	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0397ZZ
(V)	(+) (passenger side)		side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	
38	Ground	Outside key antenna	Output	When the front door request switch (passenger	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0395ZZ
(P)		(-) (passenger side)		side) is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0515ZZ
40 (V)	Ground	Passenger side se- lective unlock relay	Input	Press front door request switch (pas-	Anti-hijack operation	Battery voltage → 0 → Battery voltage
(-,				senger side)	Other than above	Battery voltage

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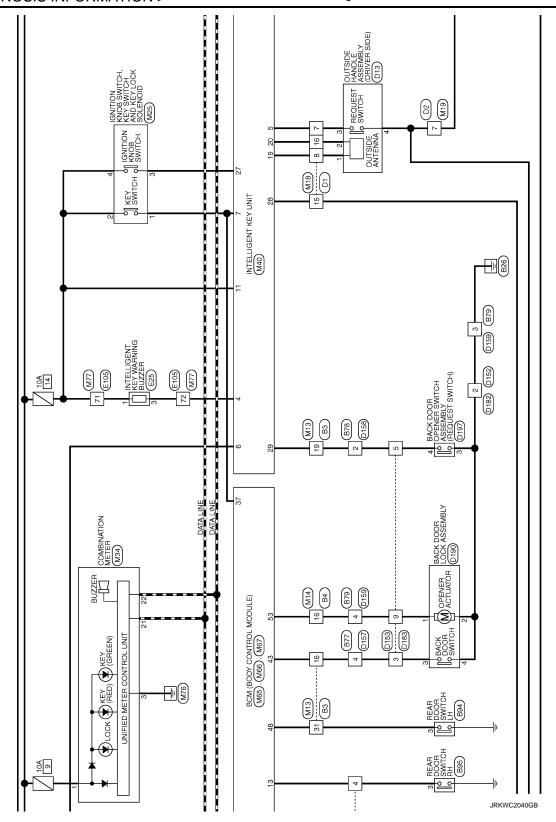
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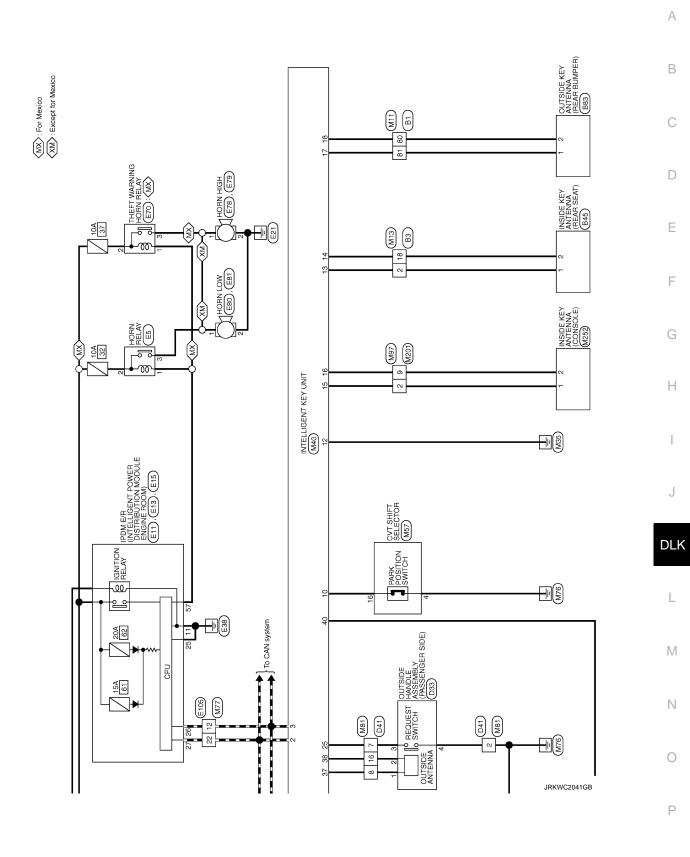
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# Wiring Diagram - INTELLIGENT KEY SYSTEM -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information"

described in wiring diagram), refer to GI-12, "Connector Information". XM>: Except for Mexico € To turn signal and hazard warning lamps MODULE) 29 60 61 63 49 56 BCM (BODY CONTROL N (M65) (M66) (M67) €€ [28] REMOTE KEYLESS ENTRY RECEIVER (M91): (XM) M102 GNITION SWITCH ON or START UNLOCK → IGNITION SWITCH ACC or ON 10A 10A M19 D2 UNLOCK → INTELLIGENT KEY SYSTEM (∑) <del>1</del>-2 2012/05/23 JRKWC2039GB





Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2013: STRG COMM 1	Inhibits steering look unlocking	Erase DTC
B2552: INTELLIGENT KEY	Inhibits steering look unlocking Inhibits engine cranking (BCM) Fuel cut (ECM)	Erase DTC
B2590: NATS MALFUNCTION	Inhibits steering look unlocking     Inhibits engine cranking     (BCM)     Fuel cut     (ECM)	Erase DTC

# DTC Inspection Priority Chart

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2552: INTELIGENT KEY
2	B2013: STRG COMM 1     B2590: NATS MALFUNCTION

DTC Index

#### NOTE:

Details of time display

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

CONSULT display	Detection condition	Fail-safe	Diagnosis
No DTC is detected. further testing may be required.	_	_	_
U1000: CAN COMM CIRCUIT	Intelligent Key unit cannot receive CAN communication signal continuously for 2 seconds or more	_	Check CAN communication system. Refer to DLK-52
U1010: CONTROL UNIT (CAN)	Intelligent Key unit detects internal CAN communication circuit malfunction	_	Replace Intelligent Key unit. Refer to <u>DLK-54</u> .
B2013: STRG COMM 1	The ID verification result between Intelligent key unit and steering lock unit are NG. Or Intelligent Key unit cannot communicate with steering lock unit	×	Perform steering lock unit ID registration with CONSULT. Refer to SEC-41.
B2552: INTELLIGENT KEY	Intelligent Key unit internal malfunction	×	Replace Intelligent Key unit. Refer to <u>SEC-43</u> .
B2590: ID DISCORD BCM-I-KEY	The ID verification result between Intelligent key unit and BCM are NG. Or Intelligent Key unit cannot communicate with BCM	×	Check NATS. Refer to SEC-44.

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

# BCM (BODY CONTROL MODULE)

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGN ON 3W	Ignition switch ON	On
KEN ON SW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
CDL LOCK 3VV	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOD CW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD OW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
IZEV OVI 1 IZ OM	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
RET CTL UN-SW	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
RETLESS LOCK	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
RETELSS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
LKEVIINI OOK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON SIM	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE SW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On

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## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
LIGHT SW 1ST	Lighting switch OFF	Off
LIGHT SW 131	Lighting switch 1ST	On
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
DOOKLE OW	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
NETEESS FAINIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
TARE EGR-UNLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
RKE KEEP UNLK	UNLOCK button of key fob is not pressed	Off
AND INDEP UNLIN	UNLOCK button of key fob is pressed and held	On
HI BEAM SW	Lighting switch OFF	Off
TI BEAIN 3W	Lighting switch HI	On
HEAD LAMP SW 1	Lighting switch OFF	Off
TEAD LAIVIP SVV I	Lighting switch 2ND	On
JEAD LAMB CW 0	Lighting switch OFF	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
ALITO LIGHT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
DA COLNIC CIAL	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
-D -F-0-0 0144	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
FURNI GLONIAL R	Turn signal switch OFF	Off
TURN SIGNAL R	Turn signal switch RH	On
	Turn signal switch OFF	Off
TURN SIGNAL L	Turn signal switch LH	On
	Engine stopped	Off
ENGINE RUN	Engine running	On
	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
ODTIONI OFFICE	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On

## < ECU DIAGNOSIS INFORMATION >

# [WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status	
FR WIPER HI	Front wiper switch OFF	Off	
FR WIPER HI	Front wiper switch HI	On	
ED WIDED LOW	Front wiper switch OFF	Off	
FR WIPER LOW	Front wiper switch LO	On	,
ED WIDED INT	Front wiper switch OFF	Off	,
FR WIPER INT	Front wiper switch INT	On	,
ED W// OUED OW/	Front washer switch OFF	Off	
FR WASHER SW	Front washer switch ON	On	•
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	
ED WIDED OTOD	Any position other than front wiper stop position	Off	,
FR WIPER STOP	Front wiper stop position	On	
VEHICLE SPEED	While driving	Equivalent to speedometer reading	
	Rear wiper switch OFF	Off	
RR WIPER ON	Rear wiper switch ON	On	
	Rear wiper switch OFF	Off	
RR WIPER INT	Rear wiper switch INT	On	3
	Rear washer switch OFF	Off	
RR WASHER SW	Rear washer switch ON	On	
	Rear wiper stop position	Off	
RR WIPER STOP	Other than rear wiper stop position	On	
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off	
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off	
	Hazard switch OFF	Off	
HAZARD SW	Hazard switch ON	On	
	Brake pedal is not depressed	Off	•
BRAKE SW	Brake pedal is depressed	On	
	Blower fan motor switch OFF	Off	
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On	3)
	<ul> <li>A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner)</li> <li>A/C switch OFF (Manual air conditioner)</li> </ul>	Off	
AIR COND SW	<ul> <li>A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner)</li> <li>A/C switch ON (Manual air conditioner)</li> </ul>	On	
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off	
LICEN DIA DIACE	UNLOCK button of Intelligent Key is not pressed	Off	
-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On	
	PANIC button of Intelligent Key is not pressed	Off	
-KEY PANIC	PANIC button of Intelligent Key is pressed	On	
	Return to ignition switch to "LOCK" position	Off	3)
PUSH SW	Press ignition switch	On On	
	When back door opener switch is not pressed	Off	
TRNK OPNR SW	When back door opener switch is pressed	On	

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# < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On
OIL PRESS SW	Ignition switch OFF or ACC     Engine running	Off
	Ignition switch ON	On
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
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	ID of front LH tire transmitter is registered	Done
ID REGOT PLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGGI I KI	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGGI KKI	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID NEGOT KLI	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WAINING LAWE	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLER	Tire pressure warning alarm is sounding	On

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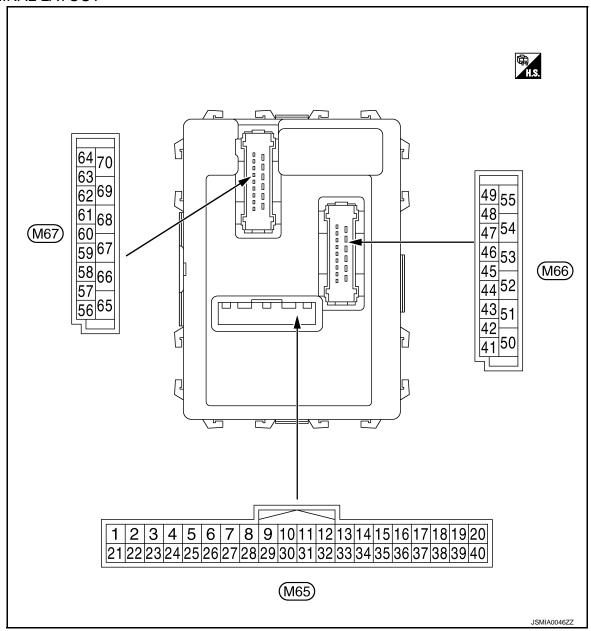
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#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

#### **CAUTION:**

 Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.

Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT. Refer to <a href="https://doi.org/10.1007/journal.org/">BCS-26, "COMB SW : CONSULT Function (BCM - COMB SW)"</a>.

• BCM reads the status of the combination switch at 10 ms internal normally. Refer to <a href="BCS-9">BCS-9</a>, "System Diagram".

	nal No.	Description		Condition		Value (Approx.)	
(Wire color)		Signal name	Input/				
+	_	Signal flame	Output				
1	Ground	Ignition key hole illu-	Output	Ignition key hole	OFF	Battery voltage	
(V)		mination control	illumination	ON	0 V		

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
2	Ground	Combination switch	Input	Combination switch	All switch OFF Turn signal switch RH Lighting switch HI Lighting switch 1ST	0 V  (V) 15 10 5 0 PKIB4959J 1.0 V
(G)	Clound	INPUT 5	три	(Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 PKIB4953J 2.0 V
					All switch OFF	0 V
		Ground Combination switch INPUT 4		Combination switch (Wiper intermit- tent dial 4)	Turn signal switch LH	
			Input		Lighting switch PASS	(V) 15
3	Ground				Lighting switch 2ND	10 5 0 → +10ms PKIB4959J 1.0 V
(')	(Y) Ground				Front fog lamp switch ON	(V) 15 10 5 0 +10ms PKIB4955J 0.8 V
					All switch OFF	0 V
					Lighting switch AUTO	
					Front wiper switch LO	(V) 15
4 (W)	Ground	Ground Combination switch INPUT 3	Input	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch MIST	15 10 5 0
					Front wiper switch INT	PKIB4959J

# < ECU DIAGNOSIS INFORMATION >

Terminal No. Description (Wire color)		1		Value		
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)  Rear washer ON	(V) 15 10
					(Wiper intermittent dial 4)  Any of the condition below with all switch OFF  • Wiper intermittent dial 1	5 0 +10ms
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	<ul><li>Wiper intermittent dial 5</li><li>Wiper intermittent dial 6</li></ul>	PKIB4959J 1.0 V
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0
						PKIB4955J 0.8 V
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	(V) 15
					Rear wiper switch INT (Wiper intermittent dial 4)	10 5 0
					Wiper intermittent dial 3 (All switch OFF)	→ +10ms PKIB4959J
						1.0 V
6 (BG)	Ground	Combination switch INPUT 1	Input	Combination switch	Any of the condition below with all switch OFF  • Wiper intermittent dial 1	(V) 15 10 5
					Wiper intermittent dial 2	PKIB4952J
						(V) 15
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	10 5 0
						0.8 V

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
7 (V)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					UNLOCK position	0 V
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) 15 10 5 0
					LOCK position	0 V
9	Ground	Stop lamp switch	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(R)	Ground	Stop lamp switch	Input	switch	ON (Brake pedal is depressed)	Battery voltage
10 (SB)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Not pressed	Battery voltage
		ger switch			Pressed	0 V 0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch O		Battery voltage
12 (BG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) <sub>15</sub> 10 5 0  → 10ms  JPMIA0586GB 7.5 - 8.0 V
					ON (When passenger door opened)	0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) <sub>15</sub> 10 5 0 ++10ms JPMIA0587GB 8.0 - 8.5 V
					ON (When rear door RH opened)	0 V

# < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	Λ		
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А		
14 (G)	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle  When dark outside of the	Close to 5 V	В		
					vehicle	Close to 0 V	С		
17 (W)	Ground	Optical sensor pow- er supply	Output	Ignition switch	OFF, ACC	0 V 5 V			
18 <sup>*</sup> (R)	Ground	Receiver and sensor ground	Input	Ignition switch O		0 V	D		
				Without Intelligent Key system	At any condition	5 V	Е		
19 <sup>*</sup> (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent Key system	Ignition switch OFF     For 3 seconds after ignition switch OFF to ON	0 V	F		
				Key system	3 seconds or later after ig- nition switch OFF to ON	5 V			
				Without Intelligent Key system	At any condition	(V) <sub>15</sub> 10 5 0  JPMIA0589GB  NOTE: The wave form changes accord-	G H		
20 <sup>*</sup> (GR)	Ground	Remote keyless entry receiver signal	Input	Input	Input		Ignition switch OFF     For 3 seconds after ignition switch OFF to ON	ing to signal-receiving condition.	DL
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) <sub>15</sub> 10 5 0  + 2ms	L		
						NOTE: The wave form changes according to signal-receiving condition.	١		
21 (G)	Ground	NATS antenna amp.	Input/ Output	Just after insertin	g ignition key in key cylinder	Pointer of tester should move			
					ON	0 V			
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) <sub>15</sub> 10 5 0	F		
						JPMIA0590GB 12.0 V			
					OFF	Battery voltage			

## < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
25 (BR)	Ground	NATS antenna amp.	Input/ Output	Just after insertir	ng ignition key in key cylinder	Pointer of tester should move
				Ignition switch O	FF	
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 15 10 5 0 → 10ms JPMIA0591GB 1.6 V
					A/C switch ON	0 V
				Ignition switch O	FF	00
28 (LG)	Ground	Blower fan switch	Input	Ignition switch ON	Blower fan switch OFF	(V) 15 10 5 0 JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
(W)	Ground	riazara switch	mpat	riazara switch	ON	0 V
30	Ground	Back door opener	Input	Back door	Not pressed	Battery voltage
(G)	0.00	switch		opener switch	Pressed	0 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 *** 10ms PKIB4960J 7.2 V
32 (BR)	32 (BR) Ground	Combination switch OUTPUT 5	Output	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) + + + + + + + + + + + + + + + + + + +
					Rear wiper switch ON (Wiper intermittent dial 4)	15
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 6  • Wiper intermittent dial 7	0 +10ms PKIB4956J

# < ECU DIAGNOSIS INFORMATION >

# [WITH INTELLIGENT KEY SYSTEM]

	nal No. color)	Description	1		Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10
					Rear wiper switch INT (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	PKIB4958J 1.2 V
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 PKIB4960J 7.2 V
34 (SB)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10
					Rear washer switch ON (Wiper intermittent dial 4)	5
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	PKIB4958J 1.2 V

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
35		Combination switch		Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 10ms PKIB4960J 7.2 V
(B)	Ground	OUTPUT 2	Output		Lighting switch 2ND	40
					Lighting switch PASS	(V) 15
					Front wiper switch INT	10 5 0
					Front wiper switch HI	PKIB4958J
36	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V
(V)					Turn signal switch RH	40
					Turn signal switch LH	(V) 15
					Front wiper switch LO (Front wiper switch MIST)	10 5 0
					Front washer switch ON	→ +10ms PKIB4958J
37	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder		Battery voltage
(LG)				Remove mechanical key from ignition key cylinder		0 V
38	Ground	Ignition switch ON	Input	Ignition switch O	FF or ACC	0 V
(G)	Ground	igrillion switch ON	-	Ignition switch ON or START		Battery voltage
39 (L)	Ground	CAN-H	Input/ Output	_		_
40 (P)	Ground	CAN-L	Input/ Output	_		_

# < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color) Description				Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) <sub>15</sub> 10 5 0 **10ms JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44		Rear wiper auto stop		Ignition switch	Rear wiper stop position	0 V
(B)	Ground	position	Input	ON SWITCH	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 ***10ms JPMIA0591GB 1.6 V
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 FINAL STATE OF THE STATE OF TH
					UNLOCK position	0 V
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V

# < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		O list		Value
+	-	Signal name	Input/ Output	Condition		(Approx.)
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) <sub>15</sub> 10 5 0 +-10ms JPMIA0594GB 8.5 - 9.0 V
					ON (When rear door LH opened)	0 V
49	Ground	Luggage room lamp	Output	Luggage room lamp switch DOOR position	Back door is closed (Luggage room lamp turns OFF)	Battery voltage
(L)	Ground	control	Output		Back door is opened (Luggage room lamp turns ON)	0 V
53	0	Back door open	Output	Back door opener switch	Not pressed (Back door actuator is activated)	0 V
(V)	Ground				Pressed (Back door actuator is activated)	Battery voltage
55	Ground	Door winer meter	Output	Ignition switch	Rear wiper switch OFF	0 V
(SB)	Ground	Rear wiper motor	Output	ON	Rear wiper switch ON	Battery voltage
56	Ground	Interior room lamp	Output	After passing the saver operation t	interior room lamp battery time	0 V
(Y)	Ground	power supply	Output		ter passing the interior room er operation time	Battery voltage
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
(L)			Dilver door	Other then UNLOCK (Actuator is not activated)	0 V	
					Turn signal switch OFF	0 V
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1s 1s PKIC6370E

### < ECU DIAGNOSIS INFORMATION >

# [WITH INTELLIGENT KEY SYSTEM]

Terminal No.		Description				Value	
(Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	
					Turn signal switch OFF	0 V	Е
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 18 PKIC6370E	(
63		Interior room lamp		Interior room	OFF	6.0 V  Battery voltage	
(R)	Ground	timer control	Output	lamp	ON	0 V	Е
65	Crownd	All de ore LOCK	Outrout	All doors	LOCK (Actuator is activated)	Battery voltage	F
(V)	Ground	ound All doors LOCK	Output	Output Air doors	Other then LOCK (Actuator is not activated)	0 V	
66		Passenger door and	Output	. Passenger door	UNLOCK (Actuator is activated)	Battery voltage	
(G)	Ground	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V	ŀ
67 (B)	Ground	Ground	Output	Ignition switch O	N	0 V	
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch O	N	Battery voltage	
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage	
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage	

<sup>\*:</sup> Except for Mexico with Intelligent Key

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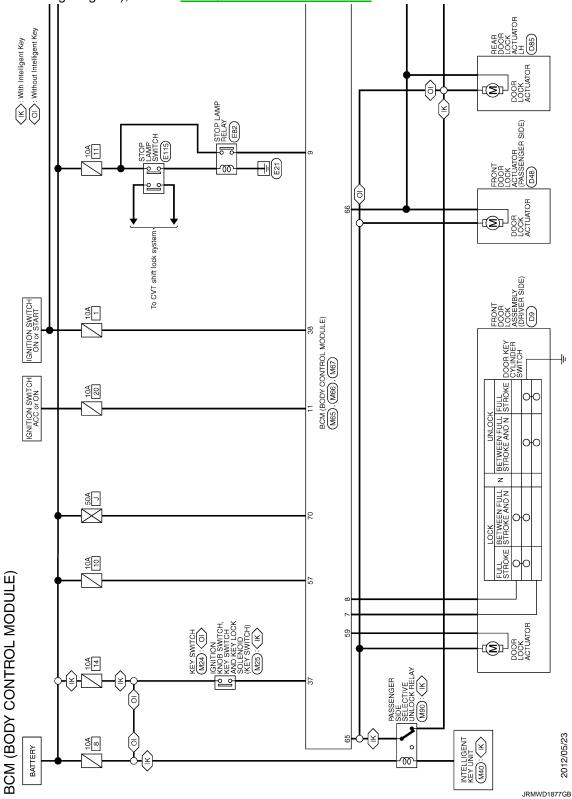
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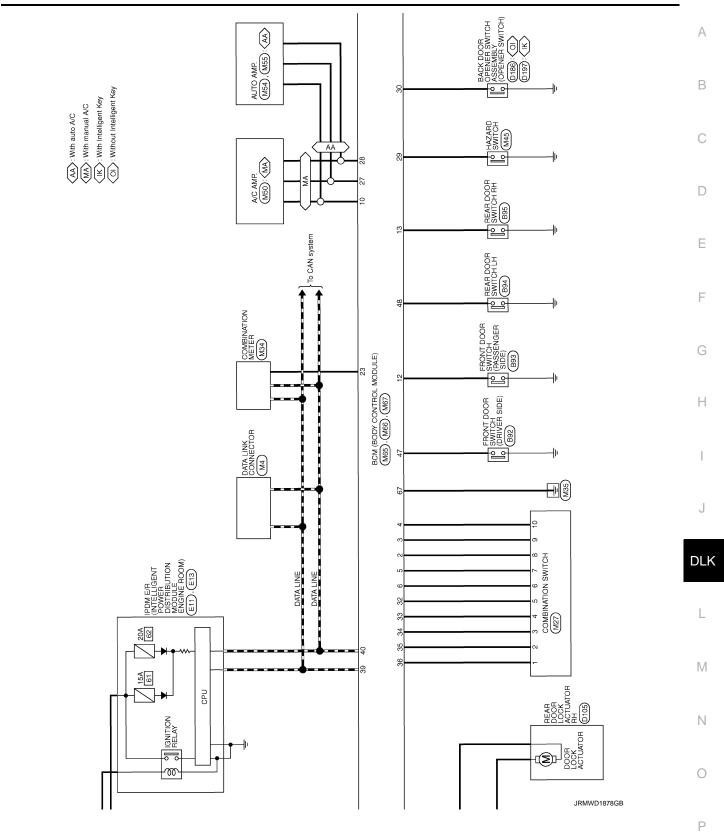
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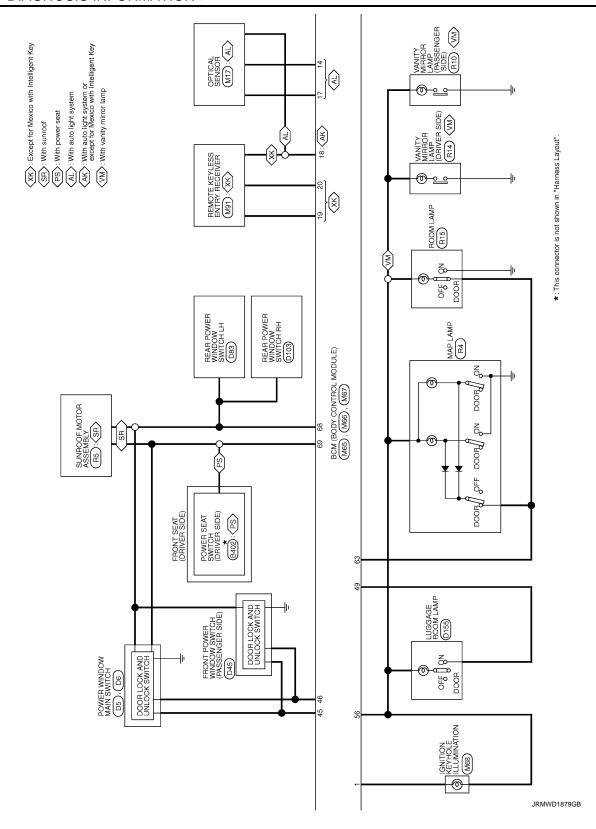
# Wiring Diagram - BCM -

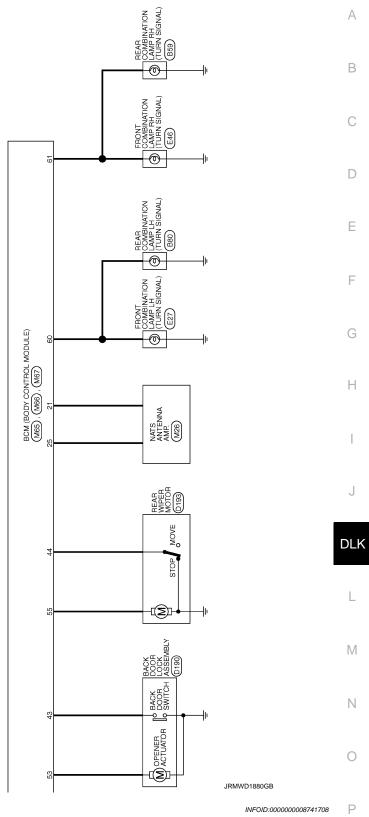
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For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









Fail-safe

#### REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

#### < ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

- Pass more than 1 minute after the rear wiper stop.
- Turn the rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

#### DTC Inspection Priority Chart

INFOID:0000000008741709

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RL</li> <li>C1711: [PRESS DATA ERR] FL</li> <li>C1716: [PRESS DATA ERR] FR</li> <li>C1718: [PRESS DATA ERR] RR</li> <li>C1719: [PRESS DATA ERR] RR</li> <li>C1719: [PRESS DATA ERR] RL</li> <li>C1729: VHCL SPEED SIG ERR</li> </ul>

DTC Index

#### NOTE:

Details of time display

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

CONSULT display	Tire pressure monitor warning lamp ON	Reference		
U1000: CAN COMM CIRCUIT	_	BCS-34		
C1704: LOW PRESSURE FL	×			
C1705: LOW PRESSURE FR	×	WT 44		
C1706: LOW PRESSURE RR	×	<u>WT-14</u>		
C1707: LOW PRESSURE RL	×			
C1708: [NO DATA] FL	×			
C1709: [NO DATA] FR	×	WT-16		
C1710: [NO DATA] RR	×	<u>vv 1-10</u>		
C1711: [NO DATA] RL	×			
C1716: [PRESS DATA ERR] FL	×			
C1717: [PRESS DATA ERR] FR	×	WT 10		
C1718: [PRESS DATA ERR] RR	×	<u>WT-19</u>		
C1719: [PRESS DATA ERR] RL	×			
C1729: VHCL SPEED SIG ERR	×	<u>WT-21</u>		
C1735: IGN CIRCUIT OPEN	_	BCS-35		

## IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Reference Value INFOID:0000000008741711

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1 - 4
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL OOLD DEO	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST or 2N	ID	On
111.10.050	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND		On
	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI (Light i	s illuminated)	On
FR FOG REQ		Front fog lamp switch OFF	Off
<b>NOTE:</b> This item is monitored only on the vehicle with front fog lamp.	Lighting switch 2ND	Front fog lamp switch ON	On
FR WIP REQ		Front wiper switch OFF	Stop
	Ignition switch ON	Front wiper switch INT	1LOW
		Front wiper switch LO	Low
		Front wiper switch HI	Hi
	Ignition switch ON	Front wiper stop position	STOP P
WIP AUTO STOP		Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
ST RLY REQ NOTE:	When Intelligent Key is or is pushed	utside the vehicle, and the push switch	Off
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is in pushed	side the vehicle, and the push switch is	On
IGN RLY	Ignition switch OFF or AC	CC C	Off
ION ILI	Ignition switch ON		On
		Rear window defogger switch OFF	Off
RR DEF REQ	Ignition switch ON	Rear window defogger switch ON (Rear window defogger is operating)	On
OII D SW	Ignition switch OFF, ACC	Open	
OIL P SW	Ignition switch ON		Close
DTRL REQ	Daytime running light sys	Off	
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light sys	tem is operated.	On

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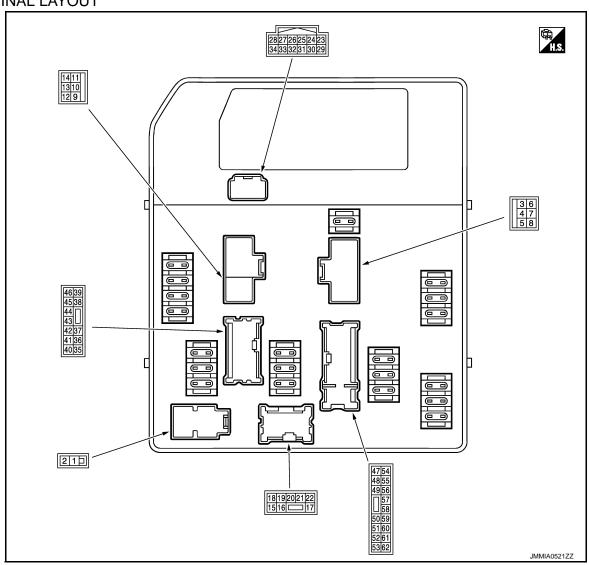
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# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) ECU DIAGNOSIS INFORMATION > [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
HOOD SW	Close the hood	Off
<b>NOTE:</b> This item is monitored only the vehicle for Mexico.	Open the hood	On
	Not operation	Off
THFT HRN REQ	Horn is activated with vehicle security system or panic alarm system.	On
LIODNI CLIIDD	Not operation	Off
HORN CHIRP	Horn is activated with key fob LOCK operation.	On

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	nal No.	· ·			Value (Approx.)
	color)	Signal name Input/		Condition	
+	_	_	Output		
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

## IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Dan distan	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
3	Crownsi	Ctartar ralay names and	Outout	When engine is clan	king	Battery voltage
(L)	Ground	Starter relay power supply	Output	When engine is not	clanking	0 V
4	0	Cooling fan relay-1 power	0	Cooling fan opera-	OFF	0 V
W)	Ground	supply	Output	tion	MID or HI	Battery voltage
5	Cravad	Ignition quitab CTART	فيسما	Ignition switch OFF,	ACC or ON	0 V
(R)	Ground	Ignition switch START	Input	Ignition switch STAF	RT	Battery voltage
6 BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7	Cravad	Cooling fan motor-2 (HI)		Cooling fan opera-	OFF	Battery voltage
(P)	Ground	ground	<del></del>	tion	HI	0 V
8	Craynad	Cooling fan relay-2 power	Outnut	Cooling fan opera-	OFF	0 V
(G)	Ground	supply	Output	tion	HI	Battery voltage
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12		Rear window defogger re-	•		Rear window defogger switch OFF	0 V
(G)	Ground	lay power supply	Output	Ignition switch ON	Rear window defogger switch ON	Battery voltage
15 <sup>*1</sup>		Daytime running light relay	_	Daytime running light system Not operated Operated		Battery voltage
SB)	Ground	control	Output			0 V
16 <sup>*2</sup>		<b>5</b> (6) (1)		Lighting switch	Front fog lamp switch OFF	0 V
(Y)	Ground	Front fog lamp (LH)	Output	2ND	Front fog lamp switch ON	Battery voltage
17 <sup>*2</sup>	0	F ( ( ) ( ( ) )	0 1 1	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Ground	Front fog lamp (RH)	Output	2ND	Front fog lamp switch ON	Battery voltage
18	Cravad	Headlamp LO (LH)	Outnut	Lighting switch OFF		0 V
(L)	Ground	neadamp LO (Ln)	Output	Lighting switch 2ND		Battery voltage
20	Cround	Hoodlamp I O (DH)	Output	Lighting switch OFF		0 V
SB)	Ground	Headlamp LO (RH)	Output	Lighting switch 2ND		Battery voltage
				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	<ul><li>Lighting switch 2N</li><li>Lighting switch PA</li></ul>		Battery voltage
				Daytime running ligh	nt system Operated*1	7.0 V
				Lighting switch OFF		0 V
22 LG)	Ground	Headlamp HI (RH)	Output	<ul><li>Lighting switch 2N</li><li>Lighting switch PA</li></ul>		Battery voltage
				Daytime running ligh	nt system Operated*1	7.0 V
23	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V
(W)	Giodila	On pressure switch	прис	Iginuon switch ON	Engine running	Battery voltage
24					Front wiper stop position	0 V
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON Any position other than front wiper stop position		Battery voltage
25 (B)	Ground	Ground	_	Ignition switch ON		0 V
26 (P)	_	CAN-L	Input/ Output		_	_

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## IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output	(	Condition	(Approx.)
27 (L)	_	CAN-H	Input/ Output	_		_
31 (LG)	Ground	Cooling fan relay-4 control	Output	Cooling fan operation	OFF LO	Battery voltage 0 - 1.0 V
		The selection of the sel			ximately 2 seconds or more tion switch from ON to OFF	Battery voltage
32 (V)	Ground	Throttle control motor re- lay control	Input	Ignition switch ON     For approximately tion switch from C	2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input	1	Engine stopped	Battery voltage
(011)				Ignition switch ON	Engine running	0.8 V
34 <sup>*3</sup>	0	11126.1	1	Close the hood		Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		0 V
37	0	Tail, license plate lamps	0 1 1	Lighting switch OFF		0 V
(R)	Ground	and illuminations	Output	Lighting switch 1ST		Battery voltage
38	Cravad	Dorleing laws (LLI)	Outnut	Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39	Cround	Darking James (DH)	Output	Lighting switch OFF	Lighting switch OFF	
(GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40	Ground	Ignition rolay power supply	Output	Ignition switch OFF or ACC		0 V
(BR)	Giodila	Ignition relay power supply	Output	Ignition switch ON	Ignition switch ON	
41	Ground	Ignition relay power supply	Output	Ignition switch OFF	Ignition switch OFF or ACC	
(W)	Ground	ignition relay power supply	Output	Ignition switch ON		Battery voltage
42	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch OFF	0 V
(L)	Orodria	1 Tone wiper th	Output	Iginiion switch Oiv	Front wiper switch HI	Battery voltage
43	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch OFF	0 V
(G)	Ground	1 Tont wiper Lo	Output	Igilition switch Oil	Front wiper switch LO	Battery voltage
45					Selector lever "P" or "N"	Battery voltage
(Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever in any position other than "P" or "N"	0 V
46	Ground	Fuel pump relay power	Output	<ul> <li>Ignition switch OF</li> <li>After passing appraise after turning the ignition</li> </ul>	roximately 1 second or more	0 V
(W)	Ground	supply	Output	<ul> <li>For approximately 1 second after turning the ignition switch ON</li> <li>Engine running</li> </ul>		Battery voltage
47				After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
(BR)	Ground	ECM relay power supply	Output		Ignition switch ON For approximately 4 seconds after turning ignition switch from ON to OFF	
40					ximately 4 seconds or more tion switch from ON to OFF	0 V
48 (R)	Ground	ECM relay power supply	Output	Ignition switch ON     For approximately tion switch from C	4 seconds after turning igni-	Battery voltage

# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value		
+ (vvire	color)	Signal name	Input/ Output	Condition		(Approx.)		
50	Cround	Cooling for roley E central	Output	Cooling fan opera-	OFF	Battery voltage		
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V		
51					ximately 4 seconds or more tion switch from ON to OFF	Battery voltage		
(L)	Ground	ECM relay control	Output	Ignition switch ON     For approximately tion switch from C	4 seconds after turning igni-	0 - 1.0 V		
52		Throttle control motor re-			ximately 2 seconds or more tion switch from ON to OFF	0 V		
(P)	Ground	lay power supply	Output	Ignition switch ON     For approximately tion switch from C	2 seconds after turning igni-	Battery voltage		
				Engine stopped		0 V		
55		A/C relay power supply			A/C switch OFF	0 V		
(BG)	Ground		A/C relay power supply	A/C relay power supply	Are relay power supply	A/C relay power supply	elay power supply Output Engine running	A/C switch ON (A/C compressor is operating)
56	Ground	Ignition switch ON	Input	Ignition switch OFF	or ACC	0 V		
(SB)	Giodila	Igrillori switch ON	mput	Ignition switch ON		Battery voltage		
57	Ground	Horn relay control	Output	The horn is not active	/ated	Battery voltage		
(V)	Orouna	Tioni relay control	Output	The horn is activate	d	0 V		
58	Ground	Ignition relay power supply	Output	Ignition switch OFF	or ACC	0 V		
(LG)	Cround	ignition rolay power supply	Output	Ignition switch ON		Battery voltage		
59	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V		
(BR)	Cround	ignition rolay power supply	Output	Ignition switch ON		Battery voltage		
60	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V		
(SB)	2.34.14	.go rota, portor ouppry	- capar	Ignition switch ON		Battery voltage		
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage		

<sup>\*1:</sup> With daytime running light system

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<sup>\*2:</sup> With front fog lamp system

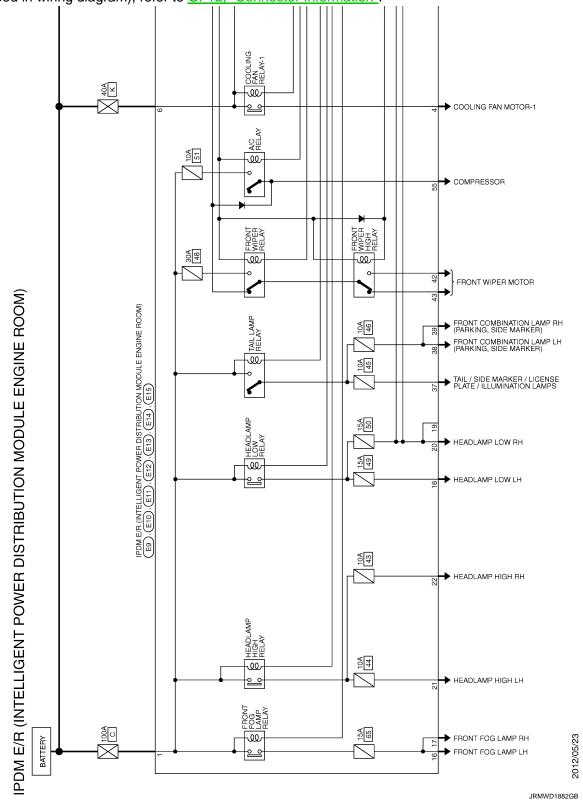
<sup>\*3:</sup> For Mexico

# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) < ECU DIAGNOSIS INFORMATION > [WITH INTELLIGENT KEY SYSTEM]

Wiring Diagram - IPDM E/R -

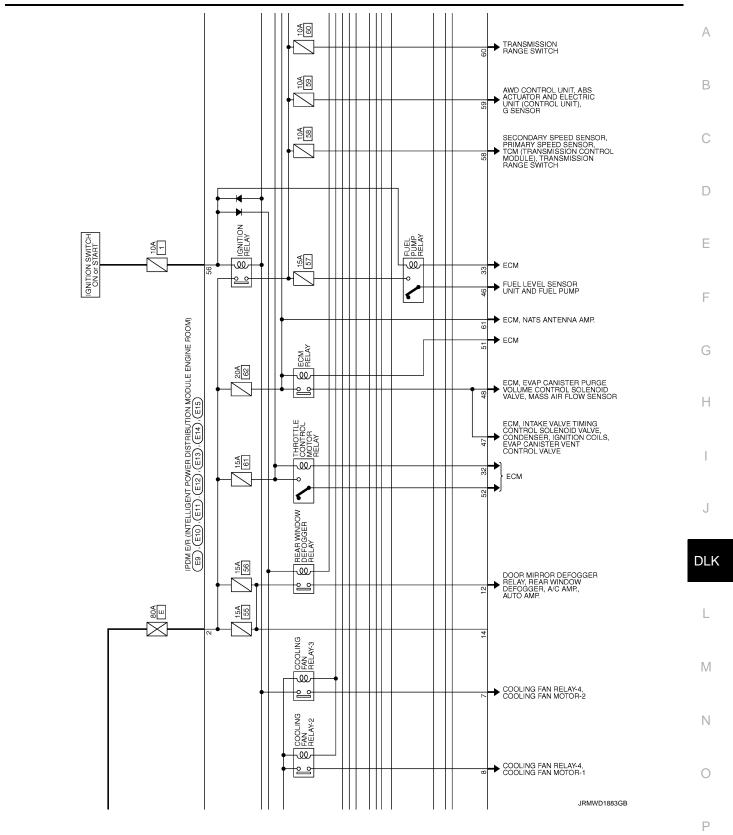
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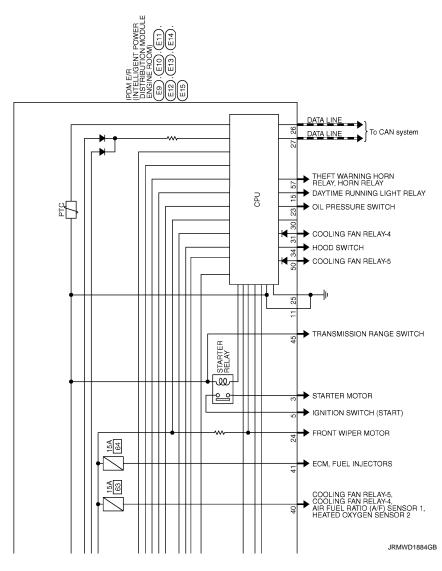
For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >





Fail-safe INFOID:0000000008741713

#### CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with ECM

#### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation
Cooling fan	<ul> <li>The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn ON when the ignition switch is turned ON</li> <li>The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn OFF when the ignition switch is turned OFF</li> <li>Cooling fan relay-4 OFF</li> </ul>
A/C compressor	A/C relay OFF

#### If no CAN communication is available with BCM

Control part	Fail-safe in operation
Headlamp	<ul> <li>The headlamp low relay turns ON when the ignition switch is turned ON</li> <li>The headlamp low relay turns OFF when the ignition switch is turned OFF</li> <li>Headlamp high relay OFF</li> </ul>
<ul><li>Parking lamps</li><li>License plate lamps</li><li>Tail lamps</li><li>Illuminations</li></ul>	<ul> <li>The tail lamp relay and the daytime running light relay* turn ON when the ignition switch is turned ON</li> <li>The tail lamp relay and the daytime running light relay* turn OFF when the ignition switch is turned OFF</li> </ul>
Front wiper	<ul> <li>The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed.</li> <li>The front wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.</li> </ul>
Front fog lamps	Front fog lamp relay OFF
Starter motor	Starter relay OFF
Rear window defogger	Rear window defogger relay OFF
Horn	Horn relay OFF

#### NOTE:

#### IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors status of ignition relay by the voltage at ignition relay contact circuit inside it.
- IPDM E/R judges that the ignition relay is error, if status of the ignition relay and ignition switch ON signal
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and daytime running light relay\* for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Detection		IPDM E/R judgment	Operation	
Ignition switch ON signal	Ignition relay	- IPDIVI E/K juugitietit	Operation	
ON	ON	Ignition relay normal	_	
OFF	OFF	Ignition relay normal	_	
OFF	ON	Ignition relay ON stuck	Turn on the tail lamp relay and daytime running light relay* for 10 minutes	
ON	OFF	Ignition relay OFF stuck	Detect DTC "B2099: IGN RELAY OFF"	

#### NOTE:

#### FRONT WIPER CONTROL

IPDM E/R detects the front wiper stop position with the front wiper stop position signal.

When the front wiper stop position signal is in the conditions listed below, IPDM E/R repeats a front wiper 10 seconds operation and 20 seconds stop five times.

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<sup>\*:</sup> With daytime running light system

<sup>\*:</sup> With daytime running light system

### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Ignition switch	Front wiper switch	Front wiper stop position signal
ON	OFF	The front wiper stop position signal (stop position) cannot be input for 10 seconds.
	ON	The front wiper stop position signal does not change for 10 seconds.

#### NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

DTC Index INFOID:0000000008741714

CONSULT display	Fail-safe	Timing <sup>NOTE</sup>		Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	PAST	PCS-13
B2099: IGN RELAY OFF	_	CRNT	PAST	PCS-14

#### NOTE:

The details of time display are as follows.

- CRNT: The malfunctions that are detected now.
- PAST: The number is indicated when it is normal at present and a malfunction was detected in the past.

#### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS >

#### SYMPTOM DIAGNOSIS Α DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK **SWITCH** В **ALL DOOR** ALL DOOR: Description INFOID:0000000008281864 All doors do not lock/unlock using door lock and unlock switch. ALL DOOR: Diagnosis Procedure INFOID:0000000008281865 1. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT Check BCM power supply and ground circuit. Е Refer to <u>DLK-55</u>, "<u>BCM</u>: <u>Diagnosis Procedure</u>" (BCM). Is the inspection result normal? YES >> GO TO 2. F NO >> Repair or replace the malfunctioning parts. 2.CHECK DRIVER SIDE DOOR LOCK AND UNLOCK SWITCH Check driver side door lock and unlock switch. Refer to DLK-61, "DRIVER SIDE: Component Function Check". Is the inspection result normal? Н YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK PASSENGER SIDE DOOR LOCK AND UNLOCK SWITCH Check passenger side door lock and unlock switch. Refer to DLK-62, "PASSENGER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning. 4. CHECK DOOR LOCK ACTUATOR DLK Check door lock actuator. Refer to DLK-77, "DRIVER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. M $5.\mathsf{confirm}$ the operation Confirm the operation again. Is the result normal? N YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1. DRIVER SIDE **DRIVER SIDE: Description** INFOID:0000000008281866 P Driver side door does not lock/unlock using door lock and unlock switch. DRIVER SIDE: Diagnosis Procedure INFOID:0000000008281867 1. CHECK DRIVER SIDE DOOR LOCK ACTUATOR Check driver side door lock actuator.

Refer to DLK-77, "DRIVER SIDE: Component Function Check". **DLK-155** 

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#### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS >

Is the inspection result normal?

>> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000008281868

Passenger side door does not lock/unlock using door lock and unlock switch.

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000008281869

# 1. CHECK PASSENGER SIDE DOOR LOCK ACTUATOR

Check passenger side door lock actuator.

Refer to DLK-78, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.confirm the operation

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

REAR LH

**REAR LH: Diagnosis Procedure** 

INFOID:0000000008281870

# 1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator LH.

Refer to DLK-79, "REAR LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

REAR RH

REAR RH: Diagnosis Procedure

INFOID:0000000008281871

# 1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator RH.

Refer to DLK-81, "REAR RH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

**DLK-156** Revision: 2013 December **2013 ROGUE** 

# DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

#### < SYMPTOM DIAGNOSIS >

Confirm the operation again.

2.CONFIRM THE OPERATION

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

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# DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description INFOID:000000008281872

All doors do not lock/unlock using Intelligent Key.

#### NOTE:

Check Intelligent Key remote operation in the door lock condition. Refer to <u>DLK-23</u>, "<u>DOOR LOCK FUNCTION</u>: <u>System Description</u>".

#### **Diagnosis Procedure**

INFOID:0000000008281873

## 1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Go to <u>DLK-155</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

### 2.CHECK INTELLIGENT KEY UNIT

Check Intelligent Key unit.

Refer to DLK-55, "INTELLIGENT KEY UNIT: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3. CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to DLK-108, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

#### 4. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-57, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

#### 5. CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

Refer to DLK-75, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

#### **6.**CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH [WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH Α ALL DOOR ALL DOOR: Description INFOID:0000000008281874 В All doors do not lock/unlock using all door request switch. NOTE: Check door request switch operation in the door lock condition. Refer to DLK-23, "DOOR LOCK FUNCTION: System Description". ALL DOOR : Diagnosis Procedure INFOID:0000000008281875 D  ${f 1}$  .CHECK REMOTE KEYLESS ENTRY FUNCTION Check remote keyless entry function. Е Does door lock/unlock with Intelligent Key button? YES >> GO TO 2. NO >> Refer to <u>DLK-158</u>, "<u>Description</u>". F 2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT" Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT". Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 3. NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT". Н 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1. DRIVER SIDE DRIVER SIDE : Description INFOID:0000000008281876 DLK All doors do not lock/unlock using driver side door request switch. NOTE: Check door request switch operation in the door lock condition. Refer to DLK-23, "DOOR LOCK FUNCTION: System Description". DRIVER SIDE: Diagnosis Procedure INFOID:0000000008281877 M 1. CHECK DRIVER SIDE DOOR REQUEST SWITCH Check driver side door request switch. Refer to DLK-65, "DRIVER SIDE: Component Function Check". N Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK OUTSIDE KEY ANTENNA

Check outside handle LH (outside key antenna).

Refer to DLK-87, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### ${f 3.}$ CONFIRM THE OPERATION

Confirm the operation again.

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# DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH TOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

#### < SYMPTOM DIAGNOSIS >

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000008281878

All doors do not lock/unlock using passenger side door request switch.

NOTE:

Check door request switch operation in the door lock condition. Refer to <u>DLK-23, "DOOR LOCK FUNCTION:</u> System Description".

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000008281879

# 1. CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check passenger side door request switch.

Refer to DLK-66, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside handle RH (outside key antenna).

Refer to DLK-88, "PASSENGER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-43, "How to Check Terminal".

NO >> GO TO 1.

**BACK DOOR** 

BACK DOOR : Diagnosis Procedure

INFOID:0000000008281880

# 1. CHECK DOOR REQUEST SWITCH

Check back door request switch.

Refer to DLK-68, "BACK DOOR: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

Refer to DLK-90, "REAR BUMPER: Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-46, "Intermittent Incident".

# DOOR DOES NOT LOCK/UNLOCK WITH MECHANICAL KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH MECHANICAL KEY	KET STSTEM]
Diagnosis Procedure	INFOID:0000000008281881
1. CHECK KEY CYLINDER SWITCH	
Check key cylinder switch. Refer to DLK-72, "Component Function Check".	
Is the inspection result normal?  YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CONFIRM THE OPERATION	
Confirm the operation again. <u>Is the result normal?</u>	
YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".  NO >> GO TO 1.	

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# SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLI-GENT KEY

Diagnosis Procedure

INFOID:0000000008281882

1. CHECK "SELECTIVE UNLOCK FUNCTION" SETTING IN "WORK SUPPORT"

Check "SELECTIVE UNLOCK FUNCTION" setting in "Work Support". Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Set "SELECTIVE UNLOCK FUNCTION" of "Work Support". Refer to <u>DLK-49</u>, "CONSULT Function (INTELLIGENT KEY)".

# SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

SWITCH	
< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
SELECTIVE UNLOCK FUNCTION DOES NO	T OPERATE WITH DOOR RE-
QUEST SWITCH	A
DRIVER SIDE	
DRIVER SIDE : Diagnosis Procedure	INFOID:000000008281883
1. CHECK "SELECTIVE UNLOCK FUNCTION" SETTING IN "WO	ORK SUPPORT"
Check "SELECTIVE UNLOCK FUNCTION" setting in "Work Supp Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".	port".
Is the inspection result normal?	D
YES >> Replace BCM. Refer to <u>BCS-65</u> , "Removal and Instal NO >> Set "SELECTIVE UNLOCK FUNCTION" of "Work Su	lation".
tion (INTELLIGENT KEY)".	E
PASSENGER SIDE	_
PASSENGER SIDE : Diagnosis Procedure	INFOID:000000008281884
1. CHECK PASSENGER SIDE SELECTIVE UNLOCK RELAY	
Check passenger side selective unlock relay.  Refer to DLK-103, "PASSENGER SIDE: Component Function C	check".
Is the inspection result normal?	
YES >> GO TO 2.	Н
NO >> Repair or replace the malfunctioning parts.  2.CONFIRM THE OPERATION	
Confirm the operation again.  Is the result normal?	'
YES >> Check intermittent incident. Refer to GI-46, "Intermitted	ent Incident".
NO TO 4	.1

>> GO TO 1.

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# SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY CYLINDER SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY CYL-INDER SWITCH

Diagnosis Procedure

INFOID:0000000008281885

1. check "Door Lock-unlock set" setting in "work support"

Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".

Refer to DLK-46, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT". Refer to <u>DLK-46, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>.

# VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

NO >> GO TO 1.

[WITH INTELLIGENT KEY SYSTEM]

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE	А
Diagnosis Procedure	В
1. CHECK POWER DOOR LOCK OPERATION	D
Check power door lock operation.  Does door lock/unlock with door lock and unlock switch?  YES >> GO TO 2.	С
NO >> Go to <u>DLK-155</u> , "ALL DOOR : <u>Diagnosis Procedure"</u> .  2. CHECK AUTOMATIC DOOR LOCK FUNCTION SETTING	D
Check vehicle speed sensing auto lock function setting. Refer to <a dtc="" href="https://doi.org/lem.new.new.new.new.new.new.new.new.new.new&lt;/td&gt;&lt;td&gt;Е&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;YES &gt;&gt; GO TO 3.  NO &gt;&gt; Change the setting.  3. CHECK VEHICLE SPEED SIGNAL&lt;/td&gt;&lt;td&gt;F&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Check unified meter and A/C amp. Refer to MWI-40, " index".<="" td=""><td>G</td></a>	G
Is the inspection result normal?  YES >> GO TO 4.  NO >> Repair or replace the malfunctioning parts.  4. CONFIRM THE OPERATION	Н
Confirm the operation again.  Is the result normal?	I

YES >> Check intermittent incident. Refer to GI-46. "Intermittent Incident".

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# IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

#### Diagnosis Procedure

INFOID:0000000008281887

# 1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Go to <u>DLK-155</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

# 2. CHECK AUTOMATIC DOOR UNLOCK FUNCTION SETTING

Check IGN OFF interlock door unlock function setting.

Refer to DLK-15, "System Description".

#### Is the function active?

YES >> GO TO 3.

NO >> Change the setting.

# 3.CHECK BCM

#### Check BCM for DTC?

Refer to DLK-144, "DTC Index".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

#### 4. CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

# P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OP	-
ERATE	/
Diagnosis Procedure	88 [
1. CHECK POWER DOOR LOCK OPERATION	_
Check power door lock operation.	_ (
Does door lock/unlock with door lock and unlock switch?	
YES >> GO TO 2.	
NO >> Go to DLK-155, "ALL DOOR : Diagnosis Procedure".	[
2.CHECK P RANGE INTERLOCK FUNCTION SETTING	_
Check P range interlock function setting.	
Is the function active?	
YES >> GO TO 3.	
NO >> Change the setting.	
3.CHECK TCM	_
Check TCM for DTC?	
Refer to TM-136, "DTC Index".	(
Is the inspection result normal?  YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	
4.CONFIRM THE OPERATION	
Confirm the operation again.	_
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".	
NO >> GO TO 1.	,

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#### PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

### PANIC ALARM FUNCTION DOES NOT OPERATE

# **Diagnosis Procedure**

INFOID:0000000008281889

1. CHECK "PANIC ALARM SET" SETTING IN "WORK SUPPORT"

Check "PANIC ALARM SET" setting in "WORK SUPPORT".

Refer to DLK-47, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "PANIC ALARM SET" setting in "WORK SUPPORT".

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

### **KEY REMINDER FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS > [WITH INTELLIG	CIVI KLI SISILMI
KEY REMINDER FUNCTION DOES NOT OPERATE	
Diagnosis Procedure	INFOID:000000008281890
1.CHECK INSIDE KEY ANTENNA	
Check inside key antenna.	
Refer to DLK-92, "CONSOLE: Component Function Check". (Console) Refer to DLK-93, "REAR SEAT: Component Function Check". (Rear seat)	
s the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
2.check unlock sensor	
Check unlock sensor.	
Refer to <u>DLK-99</u> . " <u>Diagnosis Procedure</u> ". <u>Is the inspection result normal?</u>	
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts. ${f 3.}$ CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".  NO >> GO TO 1.	

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#### **AUTO DOOR LOCK OPERATION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

## AUTO DOOR LOCK OPERATION DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000008281891

# 1. CHECK "AUTO RELOCK TIMER" SETTING IN "WORK SUPPORT"

Check "AUTO RELOCK TIMER" setting in "Work Support".

Refer to <u>DLK-49</u>, "CONSULT Function (INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

### **BACK DOOR DOES NOT OPENED**

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#### [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
BACK DOOR DOES NOT OPENED	A
Diagnosis Procedure	INFOID:000000008281892
1. CHECK BACK DOOR OPENER SWITCH	В
Check back door opener switch.  Refer to DLK-85, "Component Function Check".	
Is the inspection result normal?	C
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
NO >> Repair or replace the malfunctioning parts.  2. CHECK BACK DOOR OPENER ACTUATOR	D
Check back door opener actuator.	
Refer to <u>DLK-83, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	E
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	F
3.CONFIRM THE OPERATION  Confirm the operation again.	
Is the result normal?	G
YES >> Check intermittent incident. Refer to GI-46, "Intermitted NO >> GO TO 1.	ent Incident".
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# IGNITION KNOB RETURN FORGOTTEN WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

# [WITH INTELLIGENT KEY SYSTEM]

# IGNITION KNOB RETURN FORGOTTEN WARNING DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000008281893

# 1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to DLK-97, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2. CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

### **IGNITION KEY WARNING DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS > [WITH INTELLIGI	ENTRETSTSTEM
IGNITION KEY WARNING DOES NOT OPERATE	Α
Diagnosis Procedure	INFOID:000000008281894
1. CHECK BUZZER (COMBINATION METER)	В
Check buzzer (combination meter).  Refer to DLK-97, "Component Function Check".	
Is the inspection result normal?	C
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	-
2.CONFIRM THE OPERATION	
Confirm the operation again. <u>Is the result normal?</u>	E
YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".  NO >> GO TO 1.	
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#### **OFF POSITION WARNING DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# OFF POSITION WARNING DOES NOT OPERATE BUZZER (COMBINATION METER)

### BUZZER (COMBINATION METER): Diagnosis Procedure

INFOID:0000000008281895

# 1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to DLK-97, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

#### INTELLIGENT KEY WARNING BUZZER

# INTELLIGENT KEY WARNING BUZZER: Diagnosis Procedure

INFOID:0000000008281896

# 1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to <u>DLK-95</u>, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

# P POSITION WARNING DOES NOT OPERATE

**IWITH INTELLIGENT KEY SYSTEM** 

SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
POSITION WARNING DOES NOT OPERATE	
Diagnosis Procedure	INFOID:000000008281897
.CHECK TRANSMISSION RANGE SWITCH	
Check transmission range switch. Refer to DLK-101, "Diagnosis Procedure" .	
s the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	
CONFIRM THE OPERATION	
onfirm the operation again.	
the result normal?  YES >> Check intermittent incident. Refer to GI-46, "Intermittent	Incident".
NO >> GO TO 1.	

Revision: 2013 December DLK-175 2013 ROGUE

## TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED)

# Diagnosis Procedure

INFOID:0000000008281898

# 1. CHECK INFORMATION DISPLAY

Check information display.

Refer to MWI-25, "On Board Diagnosis Function".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

# TAKE AWAY WARNING DOES NOT OPERATE (ANY DOOR OPEN TO ALL DOORS CLOSE)

DOORS CLOSE)	-
<pre>&lt; SYMPTOM DIAGNOSIS &gt;</pre>	EM]
TAKE AWAY WARNING DOES NOT OPERATE (ANY DOOR OPEN TO A DOORS CLOSE) INFORMATION DISPLAY	ALL
INFORMATION DISPLAY : Diagnosis Procedure	008281899
1. CHECK INFORMATION DISPLAY	
Check information display.  Refer to MWI-25, "On Board Diagnosis Function".  Is the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.  2.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?  YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".  NO >> GO TO 1.	
INTELLIGENT KEY WARNING BUZZER	
INTELLIGENT KEY WARNING BUZZER : Diagnosis Procedure	008281900
1. CHECK INTELLIGENT KEY WARNING BUZZER	
Check Intelligent Key warning buzzer.  Refer to DLK-95, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.  2.CONFIRM THE OPERATION	
Confirm the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-46, "Intermittent Incident"</u> .  NO >> GO TO 1.	
110 >> 00 10 1.	

Revision: 2013 December DLK-177 2013 ROGUE

#### TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WIN-DOW)

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WINDOW)

INFORMATION DISPLAY

INFORMATION DISPLAY: Diagnosis Procedure

INFOID:0000000008281901

#### 1. CHECK INFORMATION DISPLAY

Check information display.

Refer to MWI-25, "On Board Diagnosis Function".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

BUZZER (COMBINATION METER)

#### BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000008281902

# 1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to DLK-97, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

# INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES

>> GO TO 1.

NO

[WITH INTELLIGENT KEY SYSTEM]

#### INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000008281903 ${f 1}$ .CHECK "LOW BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT" В Check "LOW BATT OF KEY FOB WARN" setting in "Work Support". Refer to <u>DLK-49</u>, "CONSULT Function (INTELLIGENT KEY)". Is the inspection result normal? YES >> GO TO 2. NO >> Set "LOW BATT OF KEY FOB WARN" setting in "Work Support". Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)". D 2.CHECK INTELLIGENT KEY Check Intelligent Key. Е Refer to DLK-108, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. F NO >> Repair or replace the malfunctioning parts. 3.CHECK INFORMATION DISPLAY Check information display. Refer to MWI-25, "On Board Diagnosis Function". Is the inspection result normal? Н YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CONFIRM THE OPERATION Confirm the operation again. Is the result normal?

>> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

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Revision: 2013 December DLK-179 2013 ROGUE

# DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH DOOR REQUEST SWITCH

#### < SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Diagnosis Procedure

INFOID:0000000008281904

# 1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to DLK-95, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

# DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH IN-**TELLIGENT KEY**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH INTELLIGENT KEY

Diagnosis Procedure INFOID:0000000008281905

# 1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to DLK-95, "Component Function Check".

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.CONFIRM THE OPERATION

Confirm the operation again.

# Is the result normal?

>> Check intermittent incident. Refer to GI-46, "Intermittent Incident". YES

NO >> GO TO 1.

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**DLK-181** Revision: 2013 December **2013 ROGUE** 

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# **BUZZER REMINDER OPERATION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# BUZZER REMINDER OPERATION DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000008281906

# 1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT

Check "ANSWER BACK WITH I-KEY LOCK" and "ANSWER BACK WITH I-KEY UNLOCK" setting in "Work Support".

Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "ANSWER BACK WITH I-KEY LOCK" and "ANSWER BACK WITH I-KEY UNLOCK" setting in "WORK SUPPORT". Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".

# 2. CONFIRM THE OPERATION

Confirm the operation again.

### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

# HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# HAZARD REMINDER OPERATION DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000008281907 1. CHECK SETTING OF HAZARD REMINDER WITH CONSULT В Check "HAZARD ANSWER BACK" setting in "Work Support". Refer to <u>DLK-49</u>, "CONSULT Function (INTELLIGENT KEY)". C Is the inspection result normal? YES >> GO TO 2. NO >> Set "HAZARD ANSWER BACK" setting in "Work Support". Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)". D 2. CHECK HAZARD FUNCTION Check "Hazard function. Е Refer to DLK-105, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. F NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". Н NO >> GO TO 1. DLK M

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**DLK-183** Revision: 2013 December **2013 ROGUE** 

# HORN REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# HORN REMINDER OPERATION DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000008281908

# 1. CHECK "HORN WITH KEYLESS LOCK" SETTING IN "WORK SUPPORT"

Check "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT".

Refer to DLK-49, "CONSULT Function (INTELLIGENT KEY)".

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT". Refer to <u>DLK-49</u>, "CONSULT Function (INTELLIGENT KEY)".

# 2. CHECK HORN FUNCTION

Check horn function.

Refer to DLK-301, "Component Function Check".

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

# INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

# [WITH INTELLIGENT KEY SYSTEM]

NTEGRATED HOMELINK TRANSMITTER DOES NOT OPE	
iagnosis Procedure	INFOID:000000008281909
.CHECK INTEGRATED HOMELINK TRANSMITTER	
heck integrated homelink transmitter. efer to DLK-108, "Component Function Check".	
the inspection result normal? YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
CONFIRM THE OPERATION	
onfirm the operation again. the result normal?	
YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1.	

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# STEERING LOCK INFORMATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

# STEERING LOCK INFORMATION DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000008281910

# 1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2. CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 3.CHECK INFORMATION DISPLAY

# Check information display

Refer to MWI-25, "On Board Diagnosis Function".

# Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

# 4. CONFIRM THE OPERATION

Confirm the operation again.

# Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

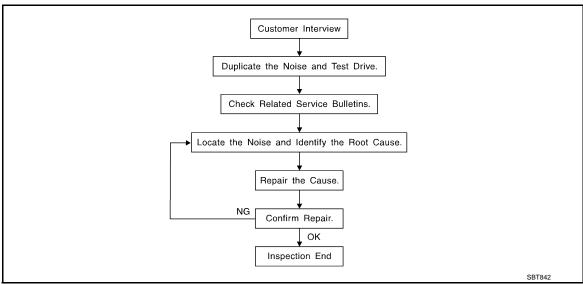
# **KEY ID WARNING DOES NOT OPERATE**

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[WITH INTELLIGENT KEY SYSTEM]

KEY ID WARNING DOES NOT OPERATE	Δ.
Diagnosis Procedure	A 0000000008281911
1. CHECK DTC WITH BCM	В
Check that DTC is not detected with BCM.	
Is the inspection result normal?	
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	С
2. CHECK DTC WITH COMBINATION METER	D
Check that DTC is not detected with combination meter.	
Is the inspection result normal?	
YES >> GO TO 3.	Е
NO >> Perform trouble diagnosis relevant to DTC indicated.	
3. CHECK INTELLIGENT KEY	Г
Check Intelligent Key. Refer to DLK-108, "Component Function Check".	
Is the inspection result normal?	G
YES >> GO TO 4.	O
NO >> Repair or replace the malfunctioning parts.	
4.CHECK INFORMATION DISPLAY	H
Check information display Refer to MWI-25, "On Board Diagnosis Function".	
Is the inspection result normal?	1
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	1
5.CHECK INSIDE KEY ANTENNA	
<ul> <li>Check inside key antenna.</li> <li>Console: Refer to <u>DLK-92</u>, "<u>CONSOLE</u>: <u>Component Function Check"</u>.</li> </ul>	
Rear seat: Refer to <u>DLK-93</u> , " <u>REAR SEAT</u> : Component Function Check".	DLK
Is the inspection result normal?	
YES >> GO TO 6.	ı
NO >> Repair or replace the malfunctioning parts.	L
6.REPLACE BCM	
Replace BCM. Refer to BCS-65, "Removal and Installation".	M
Confirm the operation after replacement.	
Is the result normal?	<b>N</b> 1
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".	N
110 22 Shook intermittent incident. Note: to of 40, intermittent incident.	
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Work Flow



### **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <a href="DLK-192">DLK-192</a>, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on 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 bumblebee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician
  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 the repair is reconfirmed.

# < SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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 models, drive position on 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 and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
   Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of 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 by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks. Refer to DLK-190, "Inspection Procedure".

#### REPAIR THE CAUSE

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

# **CAUTION:**

# Never use excessive force as many components are constructed of plastic and may be damaged.

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

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

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

**UHMW (TEFLON) TAPE** 

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# < SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

SILICONE GREASE

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

SILICONE SPRAY

Used when grease cannot be applied.

**DUCT TAPE** 

Used to eliminate movement.

### CONFIRM THE REPAIR

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

# Inspection Procedure

INFOID:0000000008281913

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

#### **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

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

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

#### **CAUTION:**

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

### **CENTER CONSOLE**

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 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 following:

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

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

#### **TRUNK**

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

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

#### < SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

#### SUNROOF/HEADLINING

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

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

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

#### SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

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

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

#### UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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Revision: 2013 December DLK-191 2013 ROGUE

Diagnostic Worksheet

INFOID:0000000008281914



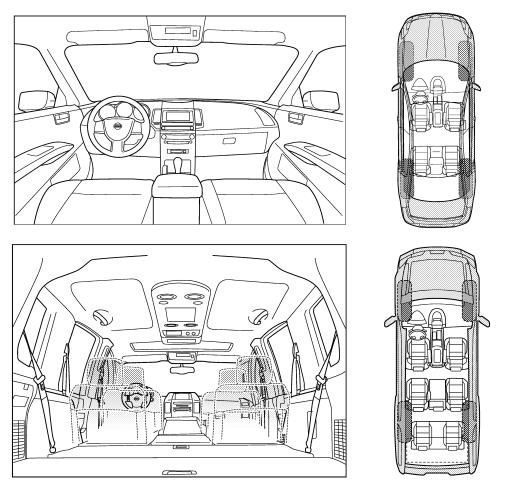
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

#### Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan 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.

# 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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< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Briefly describe the location where the n	oise occurs:			
II. WHEN DOES IT OCCUR? (please ch	neck the box	es that ap	ply)	
☐ anytime ☐ 1st time in the morning ☐ only when it is cold outside	☐ after sitting out in the rain ☐ when it is raining or wet ☐ dry or dusty conditions ☐ other:			
only when it is hot outside			OF NOIS	Ē
☐ through driveways ☐ over rough roads ☐ over speed bumps	☐ sque	eak (like te k (like wa	ennis shoo Iking on a	es on a clean floor) n old wooden floor)
only about mph on acceleration	☐ rattle (like shaking a baby rattle) ☐ knock (like a knock at the door) ☐ tick (like a clock second hand)			
<ul><li>☐ coming to a stop</li><li>☐ on turns: left, right or either (circle)</li><li>☐ with passengers or cargo</li></ul>	☐ thump (heavy, muffled knock noise)☐ buzz (like a bumble bee)			
☐ other: miles or m				
	mates			
TO BE COMPLETED BY DEALERSHIF Test Drive Notes:				
TO BE COMPLETED BY DEALERSHIP		YES	NO	Initials of person performing
TO BE COMPLETED BY DEALERSHIP	PERSON		NO	Initials of person performing
TO BE COMPLETED BY DEALERSHIP Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	P PERSONN rm repair Cust	YES		performing
TO BE COMPLETED BY DEALERSHIP Test Drive Notes:  Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confi	rm repair Cust	YES	  me:	performing

# **PRECAUTION**

# PRECAUTIONS FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
  ignition ON or engine running, never 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.

FOR MEXICO: Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

# **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI
  VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the LOCK position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

#### **OPERATION PROCEDURE**

1. Connect both battery cables.

#### NOTE:

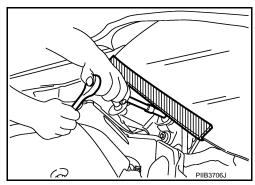
Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ACC position. At this time, the steering lock will be released.

- Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the LOCK position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- Perform a self-diagnosis check of all control units using CONSULT.

# FOR MEXICO: Precaution for Procedure without Cowl Top Cover

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



FOR MEXICO: Precautions For Xenon Headlamp Service

#### WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

#### **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

### FOR MEXICO: Work

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

## FOR USA AND CANADA

# FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

#### **WARNING:**

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Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
  ignition ON or engine running, never 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.

FOR USA AND CANADA: Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

#### CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the LOCK position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

### **OPERATION PROCEDURE**

Connect both battery cables.

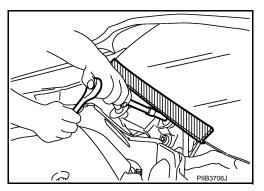
#### NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ACC position. At this time, the steering lock will be released.
- Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the LOCK position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- Perform a self-diagnosis check of all control units using CONSULT.

# FOR USA AND CANADA: Precaution for Procedure without Cowl Top Cover

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



FOR USA AND CANADA: Precautions For Xenon Headlamp Service

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#### **WARNING:**

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

### **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- · Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

# FOR USA AND CANADA: Work

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

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# **PREPARATION**

# **PREPARATION**

# **Special Service Tools**

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

(Ken	ol number t-Moore No.) ool name	Description
(J-39570) Chassis ear	SHAO993E	Locates the noise
(J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise

# **Commercial Service Tools**

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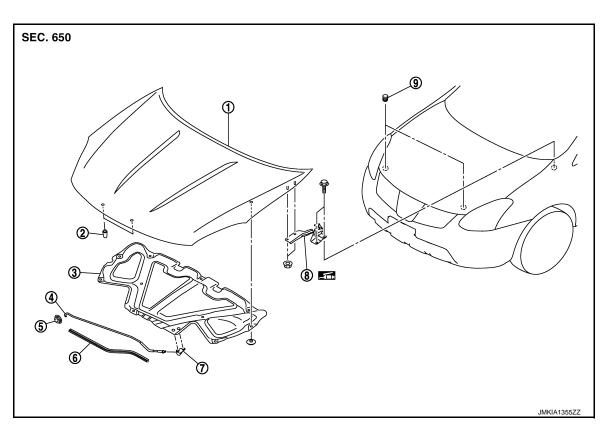
	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips
Power tool		
	PIIB1407E	

# REMOVAL AND INSTALLATION

HOOD

**HOOD ASSEMBLY** 

**HOOD ASSEMBLY: Exploded View** 



- Hood assembly
- Hood support rod 4.
- Clamp

- Hood bumper rubber center
- Grommet
- 8.
- Hood hinge

- Hood insulator 3.
- Hood seal rubber 6
- 9. Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

# **HOOD ASSEMBLY: Removal and Installation**

# **REMOVAL**

Support hood lock assembly with the proper material to prevent it from falling.

Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

Remove hood hinge mounting nuts on the hood to remove the hood assembly.

#### **CAUTION:**

Perform work with 2 workers, because of its heavy weight.

### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle
- After installing, perform hood fitting adjustment. Refer to <u>DLK-200, "HOOD ASSEMBLY: Adjust-</u> ment".

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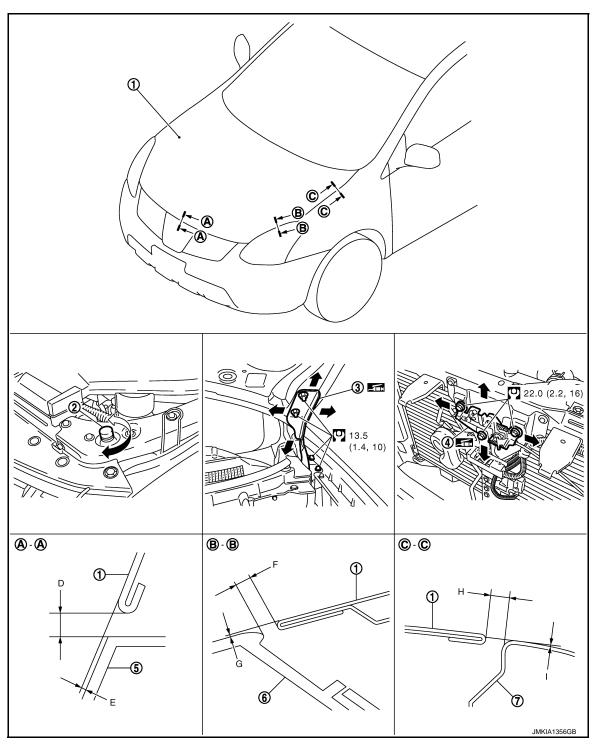
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**HOOD ASSEMBLY: Adjustment** 

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- 1. Hood assembly
- 4. Hood lock assembly
- 2. Hood bumper rubber side
- 5. Front bumper fascia
- Hood hinge
- 6. Front combination lamp

7. Front fender

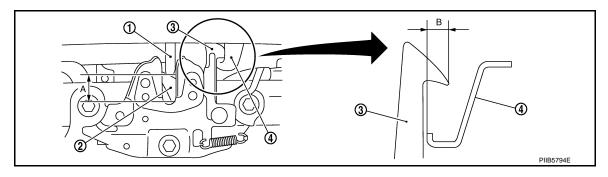
Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and the surface height between hood and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

# [WITH INTELLIGENT KEY SYSTEM]

unit : mm(in)					unit : mm(in)
Portion				Standard	Difference (LH/RH)
Hood – Front bumper	<b>A</b> – <b>A</b>	D	Clearance	4.0 - 8.0 (0.157 - 0.315)	_
1100d – 1101it builipei		Е	Surface height	-0.4 - 4.0 (-0.016 - 0.157)	_
Hood – Front combination lamp	d – Front combination lamp B – B		Clearance	2.0 - 6.0 (0.079 - 0.236)	< 3.0 (0.118)
1100d – 1101tt combination famp	D-D	G	Surface height	-2.0 - 2.0 (-0.079 - 0.079)	< 2.0 (0.079)
Hood – Front fender	C-C	Н	Clearance	2.6 - 4.6 (0.102 - 0.181)	< 1.4 (0.055)
1100u – Front Tender	0-0		Surface height	-1.0 - 1.0 (-0.039 - 0.039)	< 1.4 (0.055)

- 1. Remove hood lock and adjust the height by rotating hood bumper rubber side until hood becomes 1 to 1.5 mm (0.039 to 0.059 in) lower than fender.
- Temporarily tighten hood lock, and position by engaging it with hood striker. Check hood lock and striker for looseness and adjust the clearance and evenness with striker to satisfy the specification.
- 3. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately 200 mm (7.874 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5lb)].



Hood striker

2. Primary latch

3. Secondary striker

4. Secondary latch

A : 20.0 mm (0.787 in) B : 6.8 mm (0.268 in)

4. After adjustment tighten lock bolts to the specified torque.

# **HOOD HINGE**

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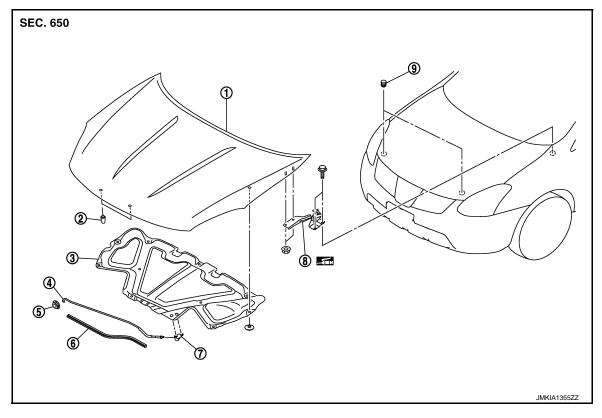
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**HOOD HINGE: Exploded View** 

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- 1. Hood assembly
- 4. Hood support rod
- 7. Clamp

- 2. Hood bumper rubber center
- 5. Grommet
- 8. Hood hinge
- Refer to GI-4, "Components" for symbols in the figure.

- 3. Hood insulator
- 6. Hood seal rubber
- 9. Hood bumper rubber side

**HOOD HINGE**: Removal and Installation

# REMOVAL

- 1. Remove hood assembly. Refer to <u>DLK-199</u>, "HOOD ASSEMBLY: Removal and Installation".
- 2. Remove front fender. Refer to <a href="DLK-209">DLK-209</a>, "Removal and Installation".
- 3. Remove hood hinge mounting bolts, and then remove hood hinge.

# **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to <u>DLK-200, "HOOD ASSEMBLY: Adjustment"</u>

# HOOD SUPPORT ROD

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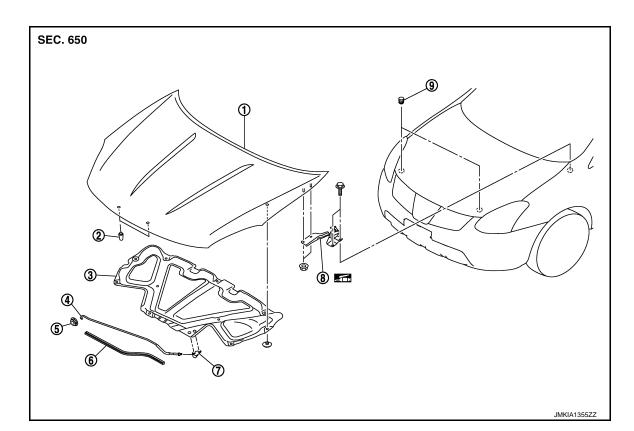
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# **HOOD SUPPORT ROD:** Exploded View



- Hood assembly
- 4. Hood support rod
- 7. Clamp

- 2. Hood bumper rubber center
- 5. Grommet
- 8. Hood hinge
- Refer to GI-4, "Components" for symbols in the figure.

- Hood insulator
- 6. Hood seal rubber
- 9. Hood bumper rubber side

# HOOD SUPPORT ROD: Removal and Installation

**REMOVAL** 

Support hood lock assembly with the proper material to prevent it from falling.

**WARNING:** 

Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

2. Remove hood support rod from grommet.

**INSTALLATION** 

Install in the reverse order of removal.

HOOD LOCK CONTROL

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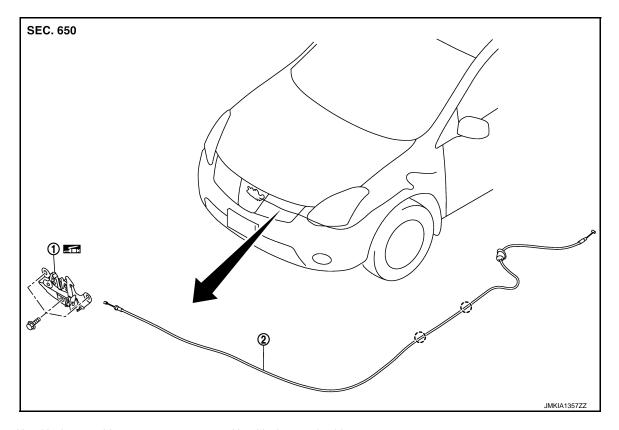
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# **HOOD LOCK CONTROL: Exploded View**

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- 1. Hood lock assembly
- 2. Hood lock control cable

( ) : Clip

Refer to GI-4, "Components" for symbols in the figure.

# HOOD LOCK CONTROL: Removal and Installation

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## **REMOVAL**

### **CAUTION:**

Check how hood lock control cable has been wiring situation, before it is removed.

- 1. Remove clips at the upper side of front bumper. Refer to <a href="EXT-13">EXT-13</a>, "Exploded View".
- 2. Remove mounting bolts, and then remove hood lock assembly.
- 3. Disconnect hood lock cable from hood lock assembly.
- 4. Remove instrument driver lower cover. Refer to <a href="IP-13">IP-13</a>, "Exploded View".
- 5. Disconnect hood lock cable from instrument driver lower cover.
- 6. Remove fender protector (LH). Refer to EXT-22, "Removal and Installation".
- 7. Remove hood lock cable clamp.
- Remove grommet on the dashbord, and pull the hood lock control cable toward the passenger compartment.

### **CAUTION:**

While pulling, never to damage (peeling) the outside of hood lock control cable.

#### INSTALLATION

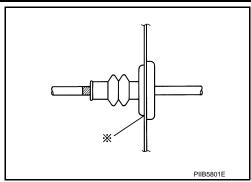
Install in the reverse order of removal.

#### **CAUTION:**

• Never to bend cable too much, keeping the radius 100 mm (3.937 in) or more.

#### [WITH INTELLIGENT KEY SYSTEM]

 Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at \* mark) properly.



Check that hood lock control cable is properly engaged with hood lock.

• After installation, perform hood fitting adjustment. Refer to <u>DLK-200, "HOOD ASSEMBLY: Adjustment"</u>.

After installation, perform hood lock control inspection. Refer to <u>DLK-205, "HOOD LOCK CONTROL</u>: <u>Inspection"</u>.

# **HOOD LOCK CONTROL**: Inspection

#### NOTE:

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

- 1. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] by hood weight.
- 2. While operating hood opener, carefully check that the front end of hood is raised by approximately 20.0 mm (0.787 in). Also check that hood opener returns to the original position.
- 3. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
- Install so that static closing face of hood is 94 − 490 N·m (9.6 − 50.0 kg-m, 69 − 361 ft − lb).
   NOTE:
  - Exert vertical force on right side and left side of hood lock.
  - Do not press simultaneously both sides.
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

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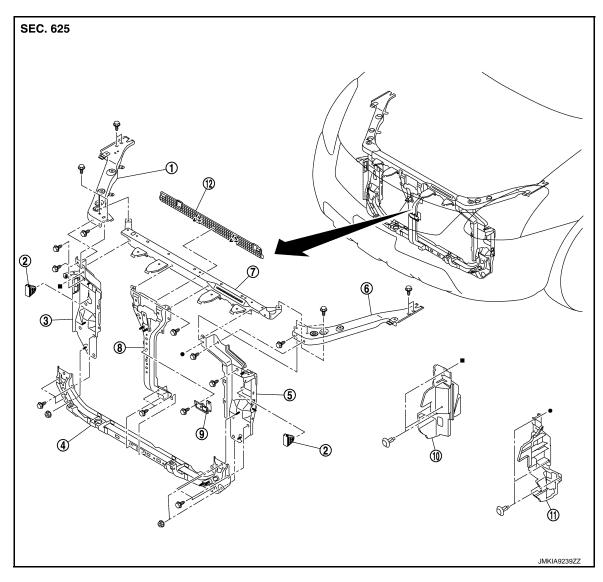
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# RADIATOR CORE SUPPORT

Exploded View



- 1. Radiator core support upper RH
- 4. Radiator core support lower
- 7. Radiator core support upper center
- 10. Air guide RH

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- 2. Locator (LH/RH)
- 5. Radiator core support side LH
- 8. Hood lock support stay assembly
- 11. Air guide LH

●, ■: Indicates that the part is connected at points with same symbol in actual vehicle.

- 3. Radiator core support side RH
- 6. Radiator core support upper LH

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- 9. Sensor bracket
- 12. Radiator seal upper

# Removal and Installation

# REMOVAL

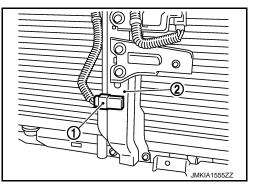
- 1. Remove front bumper fascia, front bumper reinforcement. Refer to EXT-13, "Removal and Installation".
- 2. Remove air intake duct. Refer to EM-29, "Exploded View".
- 3. Remove front combination lamp (LH/RH). Refer to <u>EXL-109</u>, "Removal and Installation" (XENON TYPE), <u>EXL-228</u>, "Removal and Installation" (HALOGEN TYPE).
- 4. Remove air guide mounting clips, and remove air guide (LH/RH).
- Remove CVT fluid cooler. Refer to TM-209, "FLUID COOLER: Removal and Installation".

# RADIATOR CORE SUPPORT

### < REMOVAL AND INSTALLATION >

#### [WITH INTELLIGENT KEY SYSTEM]

- Remove CVT fluid cooler stay lower. Refer to TM-209, "FLUID COOLER: Exploded view".
- Remove seal radiator lower.
- Remove horn (HI/LO). Refer to HRN-6, "Removal and Installation".
- Remove ambient sensor.
  - (1): Ambient sensor
  - (2): Hood lock support stay assembly



- 10. Remove Intelligent Key warning buzzer (with Intelligent Key systems). Refer to <u>DLK-245</u>, "Removal and Installation".
- 11. Remove crash zone sensor. Refer to <u>SR-20, "Removal and Installation"</u> (FOR USA and CANADA) or <u>SR-45, "Removal and Installation"</u> (FOR MEXICO).
- 12. Disconnect refrigerant pressure sensor connector. Refer to <a href="HAC-118">HAC-118</a>, "Removal and Installation" (AUTO-MATIC AIR CONDTIONING) or <a href="HAC-209">HAC-209</a>, "Removal and Installation" (MANUAL AIR CONDTIONING).
- 13. Remove hood lock assembly. Refer to DLK-204, "HOOD LOCK CONTROL: Removal and Installation".
- 14. Disconnect harness clips from radiator core support assembly.
- 15. Remove mounting bolts, and then remove hood lock support stay assembly.
- 16. Remove washer tank. Refer to WW-42, "Removal and Installation".
- 17. Place securely the hood support rod inside the engine mounting bracket hole.

#### **CAUTION:**

Check that the hood is securely fix.

- 18. Remove mounting bolts, and then remove radiator core support upper assembly (radiator core support upper center and radiator core support upper side).
- 19. Remove radiator core support lower assembly (radiator core support side and radiator core support lower) mounting bolts.
- Remove radiator core support lower assembly (radiator core support side and radiator core support lower)
  while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser
  from falling.

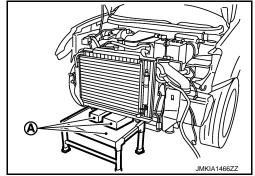
#### **CAUTION:**

# Operate with two workers, because of its heavy weight.

21. Put some wooden blocks etc.(A) under radiator and condenser, and use a rope to suspend it to prevent it from falling.

#### **CAUTION:**

Operate with two workers, because of its heavy weight.



- 22. Disassembly radiator core support upper side from radiator core support upper center.
- 23. Disassembly radiator core support side from radiator core support lower.

#### INSTALLATION

Revision: 2013 December

Install in the reverse order of removal.

#### **CAUTION:**

After installation, replenish the following parts.

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# **RADIATOR CORE SUPPORT**

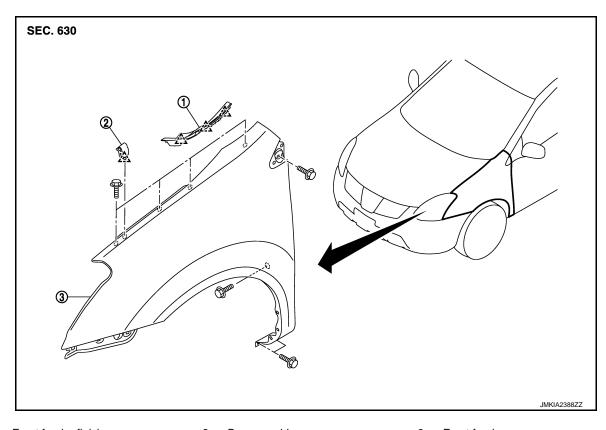
# < REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- CVT fluid: Refer to TM-161, "Changing".
- After installation, adjust the following parts.
- Front combination lamp: Refer to <u>EXL-104, "Aiming Adjustment Procedure"</u> (XENON TYPE) or <u>EXL-224, "Aiming Adjustment Procedure"</u> (HALOGEN TYPE).

# FRONT FENDER

Exploded View



Front fender finisher

Bumper rubber

3. Front fender

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### Removal and Installation

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#### **CAUTION:**

Use a shop cloth to protect the body from being damaged during removal and installation.

# REMOVAL

- 1. Remove front bumper facia. Refer to EXT-13, "Removal and Installation".
- 2. Remove front combination lamp. Refer to <u>EXL-109</u>, "Removal and Installation" (XENON TYPE), <u>EXL-228</u>, "Removal and Installation" (HALOGEN TYPE).
- 3. Remove fender protector. Refer to EXT-22, "Removal and Installation".
- 4. Remove front fender finisher.
- 5. Remove mounting bolts and remove front fender.

#### **CAUTION:**

An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, peel of the urethane foam bit at a time, and carefully to remove it.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- After installation, check front fender adjustment. Refer to <u>DLK-200, "HOOD ASSEMBLY: Adjustment"</u> and <u>DLK-211, "DOOR ASSEMBLY: Adjustment"</u>.
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

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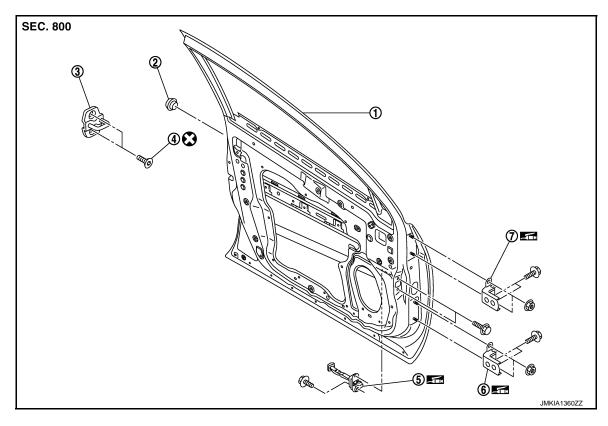
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# FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY: Exploded View

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1. Front door panel

7. Door hinge (upper)

4. TORX bolt

- Grommet
- 5. Door check link

- 3. Door striker
- 6. Door hinge (lower)

Refer to GI-4, "Components" for symbols in the figure.

# DOOR ASSEMBLY: Removal and Installation

#### **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and cloth to protect door and body.

#### REMOVAL

- 1. Remove mounting bolts of door check link on the vehicle.
- 2. Remove front door harness grommet, and then pull out the harness from the vehicle.
- Disconnect front door harness connector.
- 4. Remove door hinge mounting nuts (door side), and then remove door assembly.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-211, "DOOR ASSEMBLY: Adjust-ment".</u>
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

**DOOR ASSEMBLY: Adjustment** 

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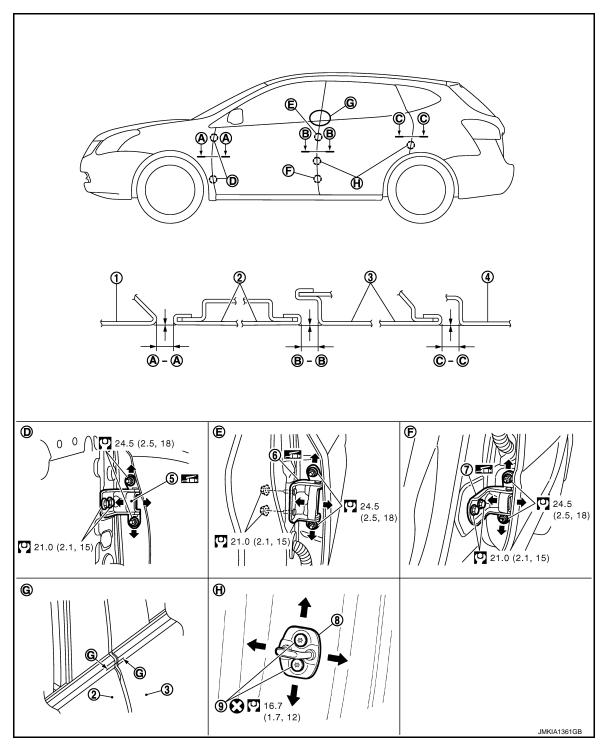
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- 1. Front fender
- Body side outer
- 7. Rear door hinge (lower)
- 2. Front door
- 5. Front door hinge
- 8. Door striker

- . Rear door
- 6. Rear door hinge (upper)
- 9. TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and surface height between front door and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

### [WITH INTELLIGENT KEY SYSTEM]

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			Unit: mm (in)
Portion		Clearance	Surface height
Front fender – Front door	<b>A</b> – <b>A</b>	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	G – G	3.0 - 6.0 (0.118 - 0.236)	- 1.5 – 1.5 (- 0.059 – 0.059)

- 1. Remove front fender. Refer to <u>DLK-209</u>, "Removal and Installation".
- 2. Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of front door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting bolts on body side.
- 6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque.
- 8. Install front fender. Refer to refer to DLK-209, "Removal and Installation".

#### **CAUTION:**

After door adjustment, perform the camera image calibration.

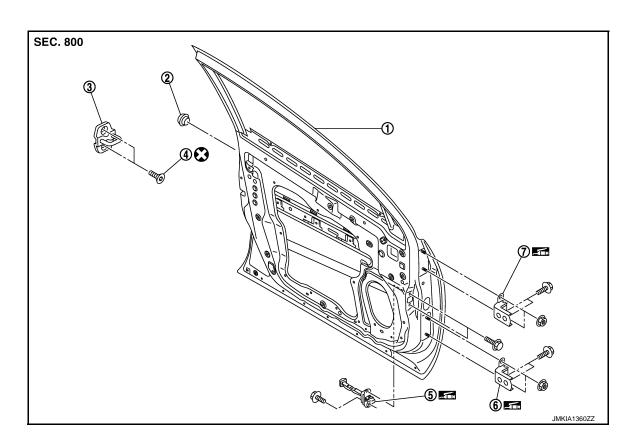
- DISPLAY AUDIO: Refer to <u>AV-108</u>, "Work <u>Procedure"</u>.
- BOSE AUDIO WITH NAVIGATION: <u>AV-270, "Work Procedure"</u>.

# DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

## DOOR STRIKER

# DOOR STRIKER: Exploded View



- 1. Front door panel
- 4. TORX bolt

- 2. Grommet
- Door check link

- Door striker
- Door hinge (lower)

Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

# DOOR STRIKER: Removal and Installation

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#### **REMOVAL**

Remove TORX bolts, and then remove door striker.

### **INSTALLATION**

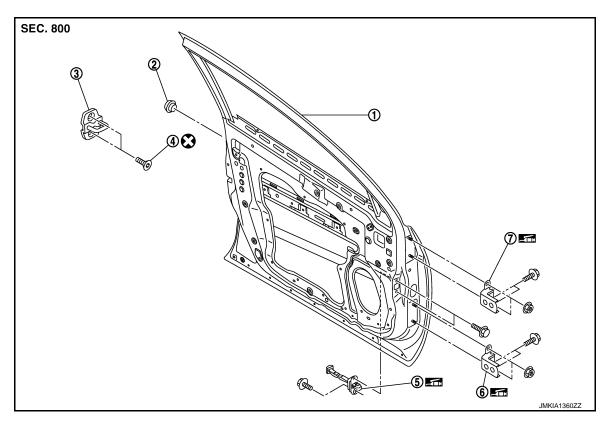
Install in the reverse order of removal.

#### **CAUTION:**

- Check front door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-211, "DOOR ASSEMBLY:</u> Adjustment".

# DOOR HINGE

# DOOR HINGE: Exploded View



- 1. Front door panel
- 2. Grommet

Door striker 3.

TORX bolt 4.

Door check link

6. Door hinge (lower)

Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

# DOOR HINGE: Removal and Installation

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## **REMOVAL**

- Remove front door assembly. Refer to DLK-210, "DOOR ASSEMBLY: Removal and Installation".
- Remove front door hinge mounting bolts, and then remove front door hinge.

#### INSTALLATION

Install in the reverse order of removal.

# **CAUTION:**

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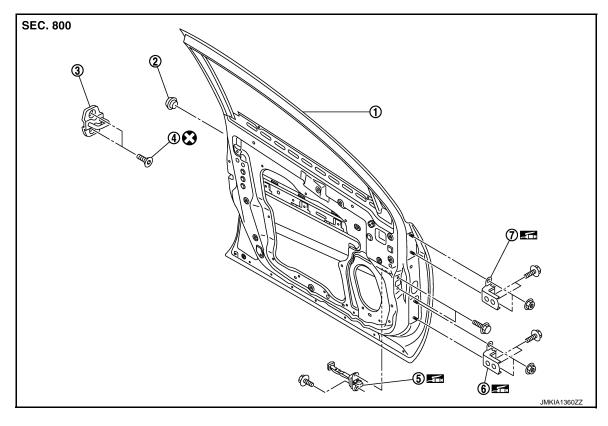
### < REMOVAL AND INSTALLATION >

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-211, "DOOR ASSEMBLY : Adjustment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts. DOOR CHECK LINK

DOOR CHECK LINK: Exploded View



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Front door panel

Door hinge (upper)

4. TORX bolt

- 2. Grommet
- 5. Door check link

- Door striker
- 6. Door hinge (lower)

Refer to GI-4, "Components" for symbols in the figure.

### DOOR CHECK LINK: Removal and Installation

#### REMOVAL

- 1. Fully close the front door window.
- 2. Remove front door finisher. Refer to <a href="INT-12">INT-12</a>, "FRONT DOOR FINISHER: Removal and Installation".</a>
- 3. Remove front door speaker.
- 4. Remove mounting bolts of door check link on the vehicle.
- 5. Remove mounting bolts of door check link on door panel.
- 6. Take door check link out from the hole of door panel.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

Check front door open/close operation after installation.

# REAR DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

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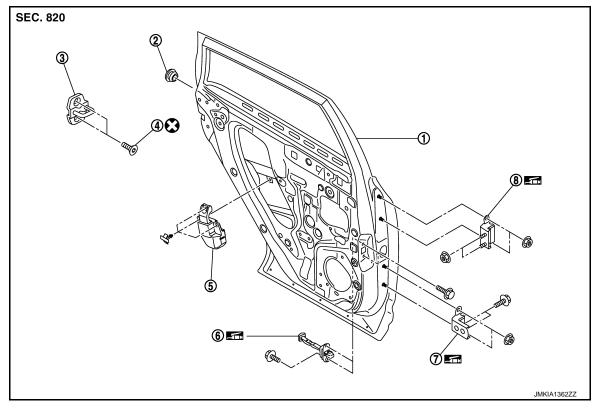
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- 1. Rear door panel
- 4. TORX bolt
- 7. Door hinge (lower)
- Grommet
- 5. Pad
- 8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

# Door striker

Door check link

# DOOR ASSEMBLY: Removal and Installation

#### **CAUTION:**

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and cloth to protect door and body.

#### REMOVAL

- 1. Remove mounting bolts of door check link on the vehicle.
- 2. Remove rear door harness grommet, and then pull out door harness from the vehicle.
- 3. Disconnect rear door harness connector.
- 4. Remove door hinge mounting nuts (door side), and then remove rear door assembly.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Check rear door open/close, lock/unlock operation after installation.
- · Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-216</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjustment</u>".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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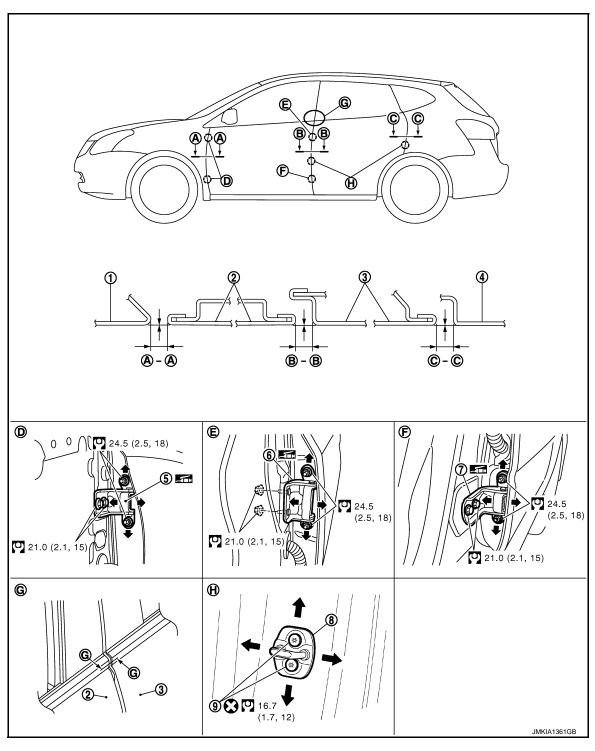
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**DOOR ASSEMBLY: Adjustment** 

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- 1. Front fender
- 4. Body side outer
- 7. Rear door hinge (lower)
- 2. Front door
- 5. Front door hinge
- 8. Door striker

- Rear door
- 6. Rear door hinge (upper)
- 9. TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and surface height between rear door and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

#### [WITH INTELLIGENT KEY SYSTEM]

			Unit : mm (in)
Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 - 5.5 (0.138 - 0.217)	-1.0 - 1.0 (-0.039 - 0.039)
Rear door – Body side outer	C – C	3.5 - 5.5 (0.138 - 0.217)	-1.0 - 1.0 (-0.039 - 0.039)
Front door – Rear door	G – G	3.0 - 6.0 (0.118 - 0.236)	-1.5 – 1.5 (-0.059 – 0.059)

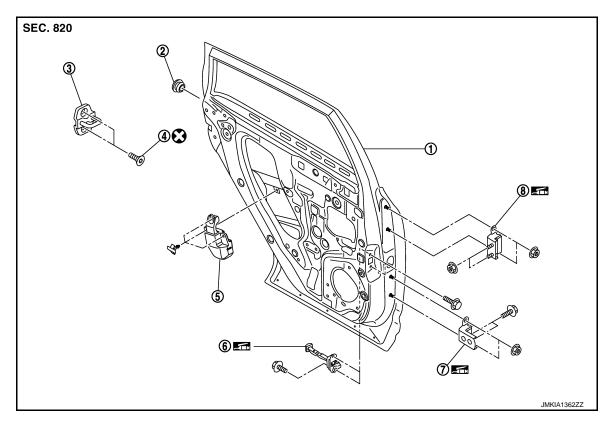
- Remove center pillar lower garnish. Refer to <a href="INT-18">INT-18</a>. "Removal and Installation". 1.
- Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of rear door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting nuts and bolts on body side.
- 6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque.
- Install center pillar lower garnish. Refer to INT-18. "Removal and Installation".

#### DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

## DOOR STRIKER

DOOR STRIKER: Exploded View



- Rear door panel
- TORX bolt
- Door hinge (lower)

Revision: 2013 December

- Grommet
- 5. Pad
- Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

DOOR STRIKER: Removal and Installation

**REMOVAL** 

**DLK-217 2013 ROGUE** 

Door striker

Door check link

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Remove TORX bolts, and then remove door striker.

#### INSTALLATION

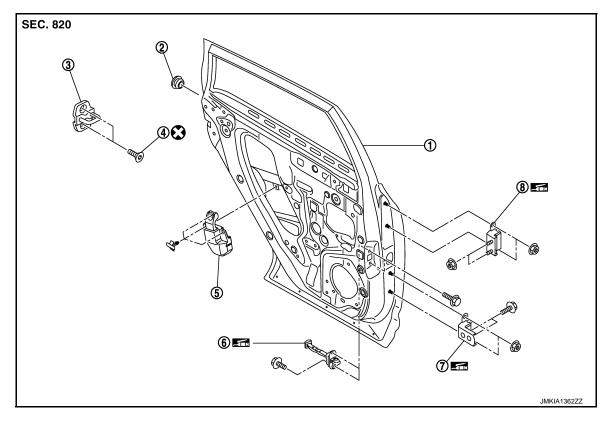
Install in the reverse order of removal.

#### CAUTION:

- Check rear door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-216, "DOOR ASSEMBLY:</u> <u>Adjustment"</u>.

#### DOOR HINGE

**DOOR HINGE: Exploded View** 



1. Rear door panel

2. Grommet

Door striker

4. TORX bolt

5. Pad

Door check link

- . Door hinge (lower) 8
- 8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

## DOOR HINGE: Removal and Installation

#### REMOVAL

- 1. Remove center pillar lower garnish. Refer to <a href="INT-18">INT-18</a>, "Removal and Installation".
- Remove rear door assembly. Refer to <u>DLK-215</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>".
- Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.

#### INSTALLATION

Install in the reverse order of removal.

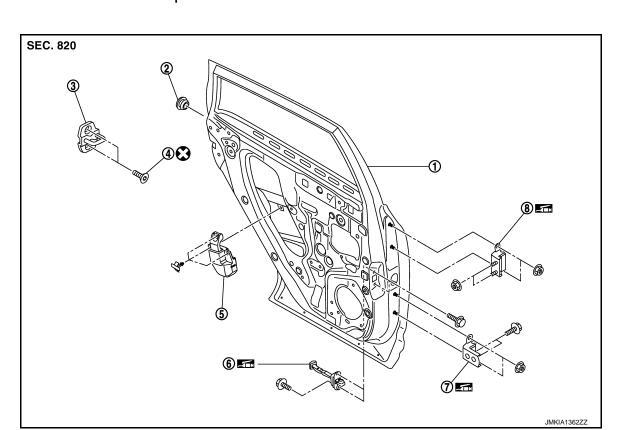
#### **CAUTION:**

- Check rear door open/close operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing rear door assembly, perform the fitting adjustment. Refer to <u>DLK-216</u>, <u>"DOOR ASSEMBLY: Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

#### [WITH INTELLIGENT KEY SYSTEM]

## DOOR CHECK LINK

DOOR CHECK LINK: Exploded View



- 1. Rear door panel
- TORX bolt
- 7. Door hinge (lower)
- Grommet
- 5. Pad
- 8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

Door striker

Door check link

## DOOR CHECK LINK: Removal and Installation

DOON OF LON LINN. Normoval and installation

**REMOVAL** 

- 1. Remove rear door finisher. Refer to INT-15, "REAR DOOR FINISHER: Removal and Installation".
- 2. Remove rear door speaker.
- 3. Remove mounting bolts of the check link on the vehicle.
- 4. Remove mounting bolts of the check link on door panel.
- 5. Take door check link out from the hole of door panel.

#### INSTALLATION

Install in the reverse order of removal.

**CAUTION:** 

Check rear door open/close operation after installation.

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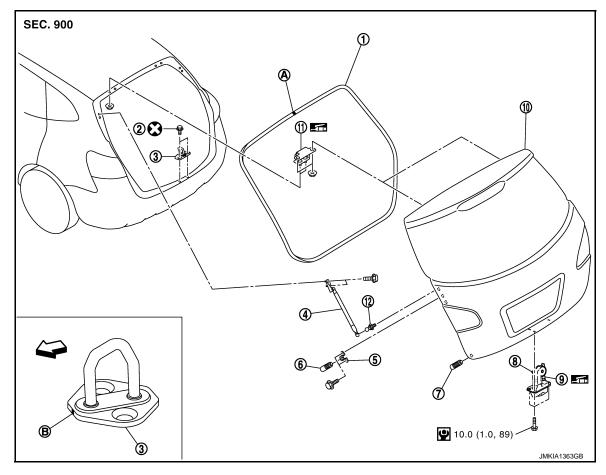
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# BACK DOOR BACK DOOR ASSEMBLY

## BACK DOOR ASSEMBLY: Exploded View

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- 1. Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark
- ⟨□ : Vehicle front

- 2. TORX bolt
- 5. Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B : Front mark

- 3. Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

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Refer to  $\underline{\text{GI-4. "Components"}}$  for symbols in the figure.

## BACK DOOR ASSEMBLY: Removal and Installation

#### **REMOVAL**

- 1. Remove back door lower finisher inner, back door upper finisher inner, back door side finisher inner. Refer to <a href="INT-34">INT-34</a>, "Removal and Installation".
- 2. Disconnect connectors in back door, and then remove grommet, and pull out harness.
- 3. Remove grommet, and then disconnect connectors, and washer tube.
- 4. Pull harness and washer tube out of back door.
- 5. Support back door lock with the proper material to prevent it from falling.
- Remove back door stay. Refer to <u>DLK-225</u>, "BACK <u>DOOR STAY</u>: Removal and <u>Installation</u>".

Perform work with 2 workers, because of its heavy weight.

7. Remove back door hinge mounting nuts on back door and remove back door assembly.

## **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- Check back door open/close, lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to DLK-221, "BACK DOOR ASSEMBLY: Adjust-

BACK DOOR ASSEMBLY: Adjustment

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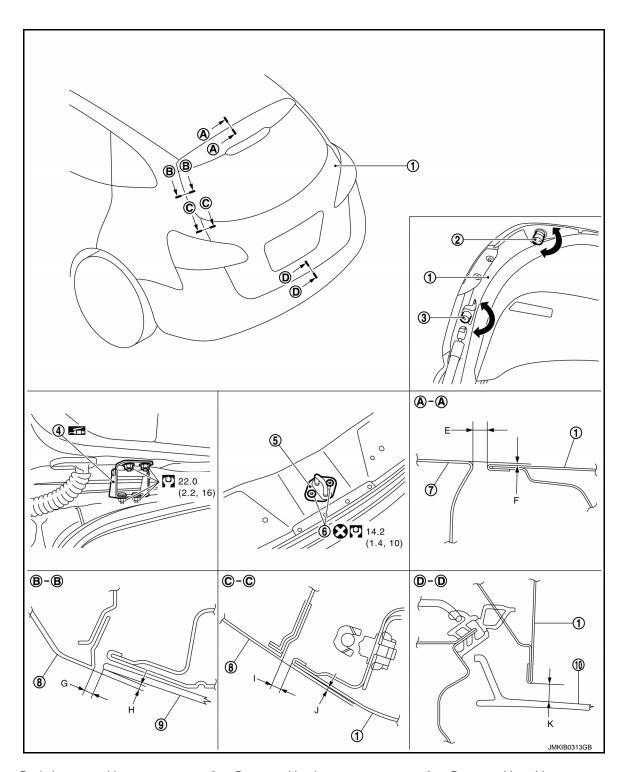
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- Back door assembly 1.
- Back door hinge

- 2. Bumper rubber lower
- Back door striker
- 3. Bumper rubber side
- 6. TORX bolt

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**DLK-221** Revision: 2013 December **2013 ROGUE** 

#### **BACK DOOR**

#### < REMOVAL AND INSTALLATION >

## [WITH INTELLIGENT KEY SYSTEM]

7. Roof

8. Body side outer

9. Back door glass

10. Rear bumper

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and the surface height between back door and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

				Unit: mm (in)
Portion	Standard			
Back door – Roof	A – A	E	Clearance	4.3 - 6.8 (0.169 - 0.268)
Back door – Roor		F	Surface height	-2.0 - 0.5 (-0.079 - 0.020)
Back door glass – Body side outer	B-B	G	Clearance	2.7 – 7.3 (0.106 – 0.287)
Back door glass – body side outer		Н	Surface height	0.4 - 4.1 (0.016 - 0.161)
Back door – Body side outer	C – C	I	Clearance	4.1 – 6.1 (0.161 – 0.240)
Back door – Body side outer		J	Surface height	-0.2 – 1.8 (-0.008 – 0.071)
Back door – Rear bumper	D – D	K	Clearance	5.9 - 9.9 (0.232 - 0.390)

- Loosen bumper rubber.
- 2. Loosen back door striker mounting bolts.
- Lift up back door approximately 100 150 mm (3.937 5.906 in) height then close it lightly and check that
  it is engaged firmly with back door closed.
- 4. Check the clearance and surface height.
- 5. Finally tighten back door striker.

#### **CAUTION:**

After door adjustment, perform the camera image calibration.

- DISPLAY AUDIO: Refer to AV-160, "Adjustment".
- BOSE AUDIO WITH NAVIGATION: Refer to <u>AV-270, "Work Procedure"</u>.

#### BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that i becomes parallel with back door lock insertion direction.

**BACK DOOR STRIKER** 

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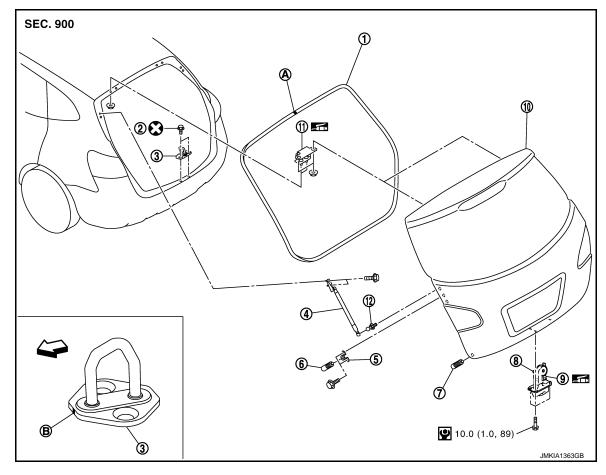
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## BACK DOOR STRIKER: Exploded View



- 1. Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark
- : Vehicle front

- 2. TORX bolt
- 5. Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B: Front mark

- 3. Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

Refer to GI-4, "Components" for symbols in the figure.

## BACK DOOR STRIKER: Removal and Installation

#### **REMOVAL**

Remove TORX bolts, and then remove back door striker.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Check back door open/close operation after installation.
- When removing and installing back door striker, be sure to perform the fitting adjustment. Refer to <a href="DLK-221">DLK-221</a>, "BACK DOOR ASSEMBLY: Adjustment".

## **BACK DOOR HINGE**

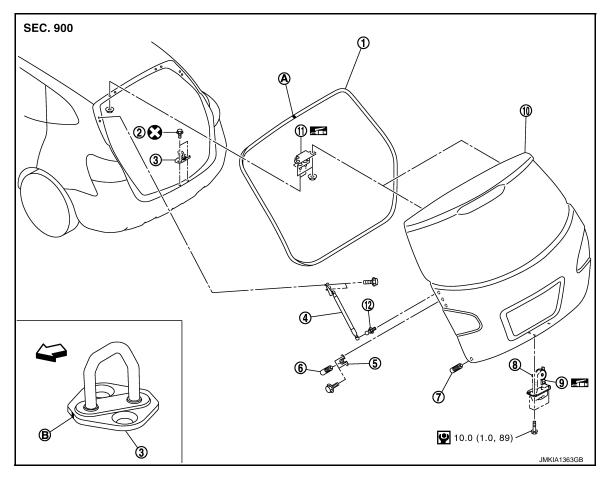
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**BACK DOOR HINGE: Exploded View** 

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- Back door weather-strip
- 4. Back door stay
- Bumper rubber lower
- 10. Back door assembly : Center mark

- 2. TORX bolt
- Bumper rubber bracket
- Emergency lever
- 11. Back door hinge
- : Front mark

- 3. Back door striker
- Bumper rubber side
- Back door lock assembly
- 12. Back door stay stud ball

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Refer to GI-4, "Components" for symbols in the figure.

## BACK DOOR HINGE: Removal and Installation

## **REMOVAL**

- Remove back door assembly. Refer to DLK-220, "BACK DOOR ASSEMBLY: Removal and Installation".
- Remove back door weather-strip. Refer to <u>DLK-227</u>, "BACK DOOR WEATHER-STRIP: Removal and Installation".
- Remove luggage side lower finisher and luggage side upper finisher. Refer to INT-32, "Removal and 3. Installation".
- Using remover tool, remove headlining clip at the rear side of headlining and then remove rear side of headlining.. Refer to INT-24, "NORMAL ROOF: Removal and Installation" (NORMAL ROOF), INT-27, "SUNROOF: Removal and Installation" (SUNROOF).
- Remove back door hinge mounting nuts (body side), and then remove back door hinge.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

Check back door open/close operation after installation.

## [WITH INTELLIGENT KEY SYSTEM]

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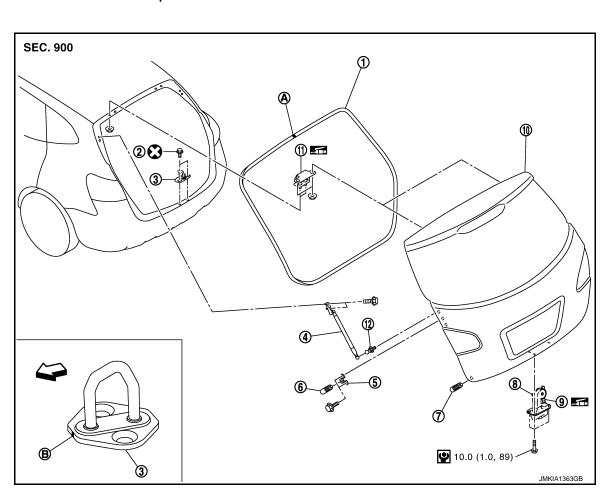
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- · Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing back door assembly, perform the fitting adjustment. Refer to <u>DLK-221</u>, <u>"BACK DOOR ASSEMBLY : Adjustment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

**BACK DOOR STAY** 

**BACK DOOR STAY: Exploded View** 



- Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark
- : Vehicle front

- 2. TORX bolt
- Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B: Front mark

- Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

Refer to GI-4, "Components" for symbols in the figure.

## BACK DOOR STAY: Removal and Installation

#### REMOVAL

- 1. Remove mounting bolts (body side), and then remove back door stay bracket.
- Remove stud ball (back door side), and then remove back door stay.

#### INSTALLATION

Install in the reverse order of removal.

#### CAUTION:

Check back door open/close operation after installation.

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Revision: 2013 December DLK-225 2013 ROGUE

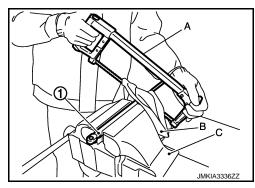
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## **BACK DOOR STAY: Disposal**

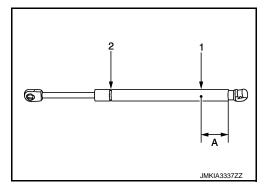
- 1. Fix gas stay (1) using a vise (C).
- 2. Slowly make 2 holes, in numerical order as shown in the figure, on gas stay using a hacksaw (A).

#### **CAUTION:**

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

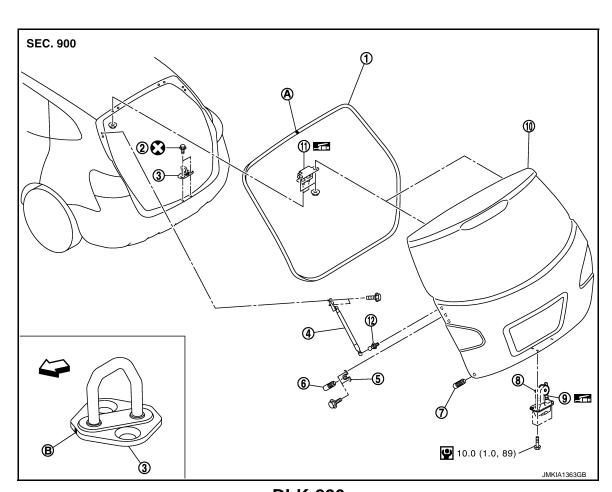


A: 20 mm (0.787 in)



# BACK DOOR WEATHER-STRIP : Exploded View

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## **BACK DOOR**

## < REMOVAL AND INSTALLATION >

#### [WITH INTELLIGENT KEY SYSTEM]

1. Back door weather-strip 2. TORX bolt 3. Back door striker 4.

Back door stay 5. Bumper rubber bracket 6. Bumper rubber side

Bumper rubber lower **Emergency lever** Back door lock assembly 10. Back door assembly Back door hinge 12. Back door stay stud ball

: Center mark : Front mark

: Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

## BACK DOOR WEATHER-STRIP: Removal and Installation

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#### REMOVAL

Pull up and remove engagement with body from weather-strip joint.

#### **CAUTION:**

After removal, never pull strongly on weather-strip.

#### INSTALLATION

- 1. Working from the upper section, align weather-strip mark with vehicle center position mark and install weather-strip onto the vehicle.
- For the lower section, align weather-strip seam with center of back door striker.
- After installation, pull weather-strip gently to ensure that there is no loose section. NOTE:

Make sure that weather-strip is fit tightly at each corner and luggage rear plate.

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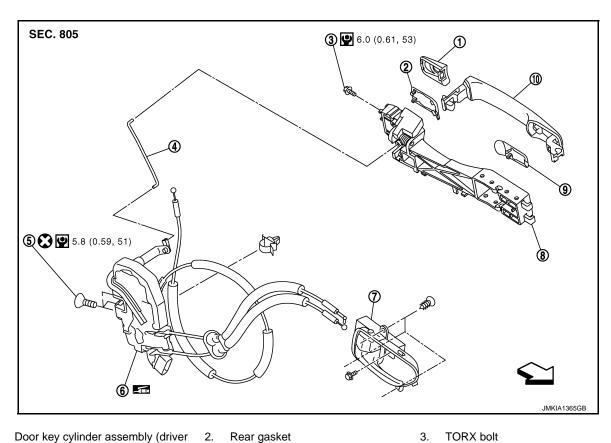
**DLK-227** Revision: 2013 December **2013 ROGUE** 

# FRONT DOOR LOCK DOOR LOCK

DOOR LOCK: Exploded View

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- Door key cylinder assembly (driver side)
  - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side only)
- 7. Inside handle
- 10. Outside handle assembly

TORX bolt

- 8. Outside handle bracket
- 6. Door lock assembly
- Front gasket

Refer to  $\underline{\mbox{GI-4.}\mbox{"}\mbox{Components"}}$  for symbols in the figure.

## DOOR LOCK: Removal and Installation

## REMOVAL

- 1. Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Disconnect inside handle cable.
- 3. Remove front door glass. Refer to GW-20, "Removal and Installation".
- 4. Remove front door module assembly. Refer to GW-23, "Removal and Installation".
- 5. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

## FRONT DOOR LOCK

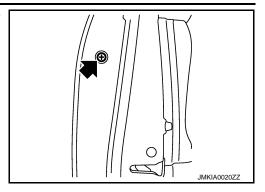
## < REMOVAL AND INSTALLATION >

## [WITH INTELLIGENT KEY SYSTEM]

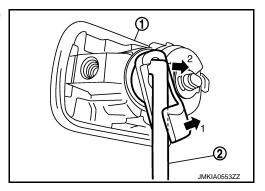
6. Remove door side grommet, and loosen TORX bolt from grommet hole.

## **CAUTION:**

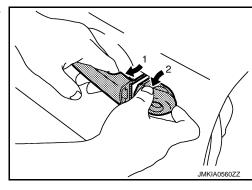
Never forcibly remove TORX bolt.



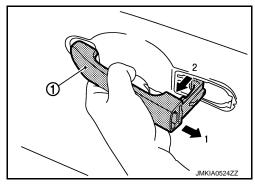
- 7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).
  - 1. Door key cylinder assembly
  - 2. Key rod



8. While pulling outside handle, remove door key cylinder assembly.



- 9. Disconnect front door request switch harness connector (models with Intelligent Key system).
- 10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



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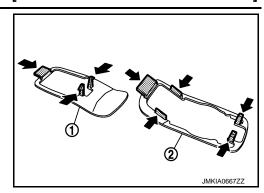
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## FRONT DOOR LOCK

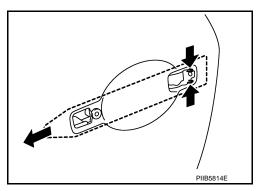
#### < REMOVAL AND INSTALLATION >

#### [WITH INTELLIGENT KEY SYSTEM]

11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



- 13. Reach in to separate outside handle cable connection on outside handle bracket.
- 14. Remove door lock assembly TORX bolts.
- 15. Disconnect door lock actuator connector, and then remove door lock assembly.
- 16. Remove key rod from door lock assembly.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation.

## **INSIDE HANDLE**

## INSIDE HANDLE: Exploded View

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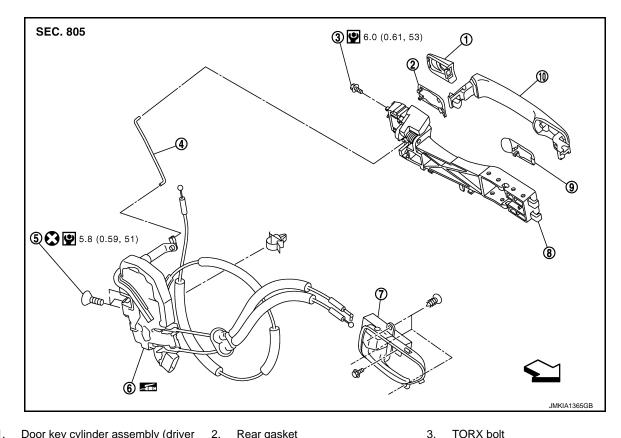
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- Door key cylinder assembly (driver
  - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side only)
- 7. Inside handle
- 10. Outside handle assembly
- : Vehicle front
- Refer to GI-4, "Components" for symbols in the figure.
- Rear gasket
- TORX bolt
- Outside handle bracket
- Door lock assembly
- 9. Front gasket

## INSIDE HANDLE: Removal and Installation

Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".

- 2. Remove inside handle mounting screws.
- Disconnect inside handle cable, and then remove the inside handle.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

**REMOVAL** 

Check door open/close, lock/unlock operation after installation.

## OUTSIDE HANDLE

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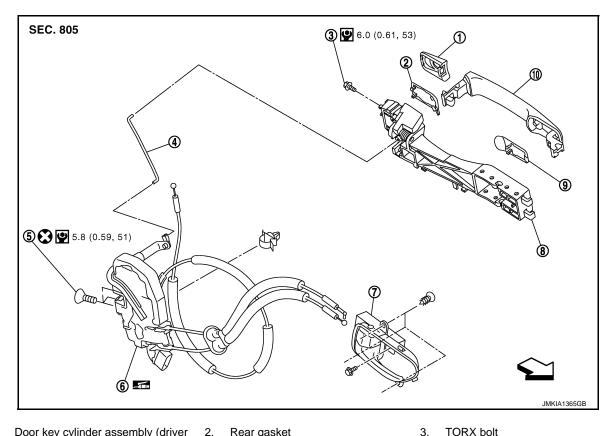
INFOID:0000000008281974

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## **OUTSIDE HANDLE: Exploded View**

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INFOID:0000000008281976



- Door key cylinder assembly (driver
  - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side only)
- 7. Inside handle
- 10. Outside handle assembly
- ⟨□ : Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

TORX bolt

Rear gasket

- Outside handle bracket
- Door lock assembly
- 9. Front gasket

## OUTSIDE HANDLE: Removal and Installation

## **REMOVAL**

- Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Disconnect inside handle cable.
- 3. Remove front door glass. Refer to GW-20, "Removal and Installation".
- 4. Remove front door module assembly. Refer to GW-23, "Removal and Installation".
- Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

## FRONT DOOR LOCK

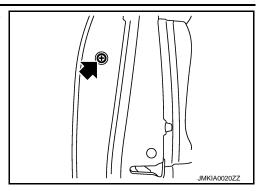
## < REMOVAL AND INSTALLATION >

## [WITH INTELLIGENT KEY SYSTEM]

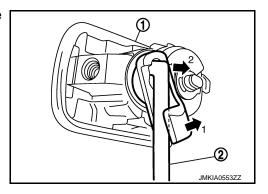
6. Remove door side grommet, and loosen TORX bolt from grommet hole.

## **CAUTION:**

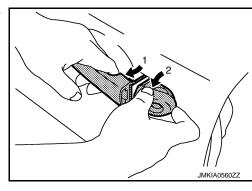
Never forcibly remove TORX bolt.



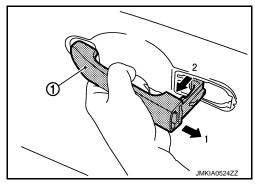
- 7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).
  - 1. Door key cylinder assembly
  - 2. Key rod



8. While pulling outside handle, remove door key cylinder assembly.



- 9. Disconnect front door request switch harness connector (models with Intelligent Key system).
- 10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



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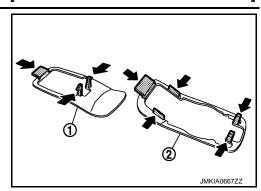
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## FRONT DOOR LOCK

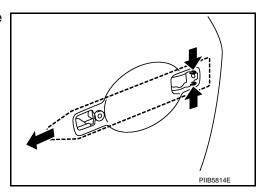
## < REMOVAL AND INSTALLATION >

## [WITH INTELLIGENT KEY SYSTEM]

11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



13. Reach in to separate outside handle cable connection on outside handle bracket.

## **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation.

# REAR DOOR LOCK

DOOR LOCK

DOOR LOCK: Exploded View

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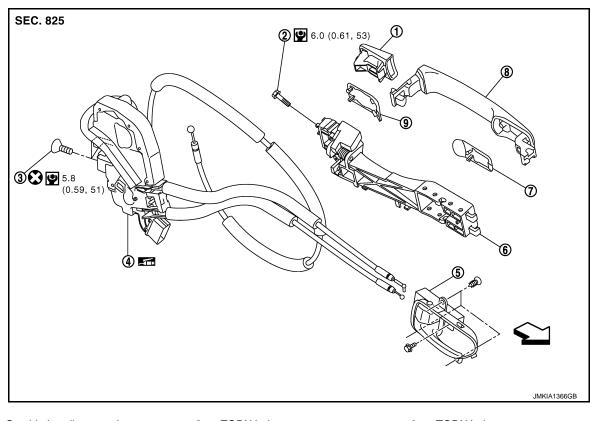
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- 1. Outside handle escutcheon
- 4. Door lock assembly
- Front gasket
- $\ \ \ \ \ \ \ \ \ \ \$  : Vehicle front

**REMOVAL** 

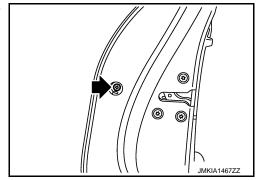
- 2. TORX bolt
- 5. Inside handle
- 8. Outside handle assembly
- 3. TORX bolt
- 6. Outside handle bracket
- 9. Rear gasket

Refer to GI-4, "Components" for symbols in the figure.

## DOOR LOCK: Removal and Installation

1. Remove rear door finisher. Refer to INT-15, "REAR DOOR FINISHER: Removal and Installation".

- 2. Disconnect inside handle cable.
- 3. Remove rear door glass. Refer to GW-26, "Removal and Installation".
- 4. Remove door side grommet, and loosen TORX bolt from grommet hole.



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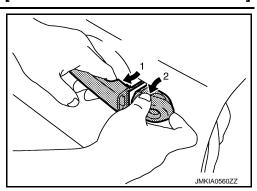
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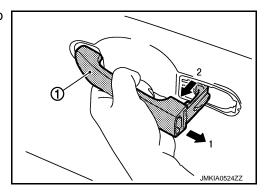
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#### [WITH INTELLIGENT KEY SYSTEM]

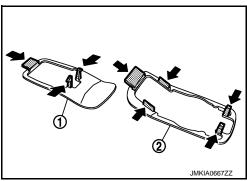
While pulling outside handle, remove outside handle escutcheon.



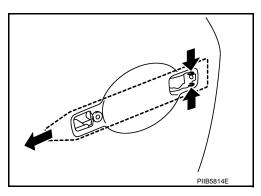
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



- 9. Reach in to separate outside handle cable connection on outside handle bracket.
- 10. Disconnect harness connector on door lock actuator.
- 11. Remove door lock mounting bolts.
- 12. Remove door lock assembly.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

Check door open/close, lock/unlock operation after installation.

**INSIDE HANDLE** 

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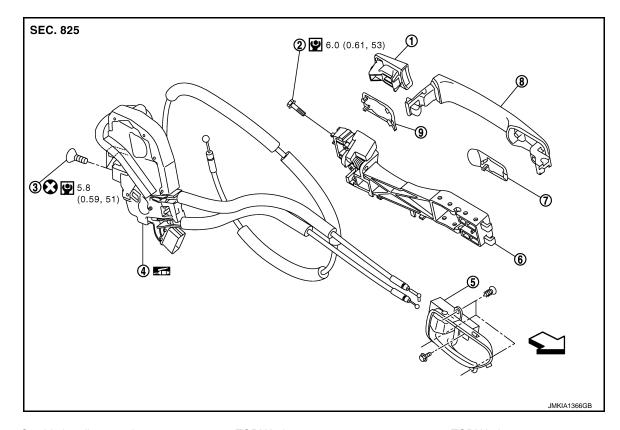
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## INSIDE HANDLE: Exploded View



- Outside handle escutcheon
- 4. Door lock assembly
- Front gasket
- ⟨
  → : Vehicle front

- 2. TORX bolt
- 5. Inside handle
- 8. Outside handle assembly
- 3. TORX bolt
- 6. Outside handle bracket
- 9. Rear gasket

Refer to GI-4, "Components" for symbols in the figure.

## INSIDE HANDLE: Removal and Installation

1. Remove rear door finisher. Refer to INT-15, "REAR DOOR FINISHER: Removal and Installation".

- Remove inside handle mounting screws.
- Disconnect inside handle cable, and then remove inside handle.

**INSTALLATION** 

Install in the reverse order of removal.

**REMOVAL** 

Check door open/close, lock/unlock operation after installation.

**OUTSIDE HANDLE** 

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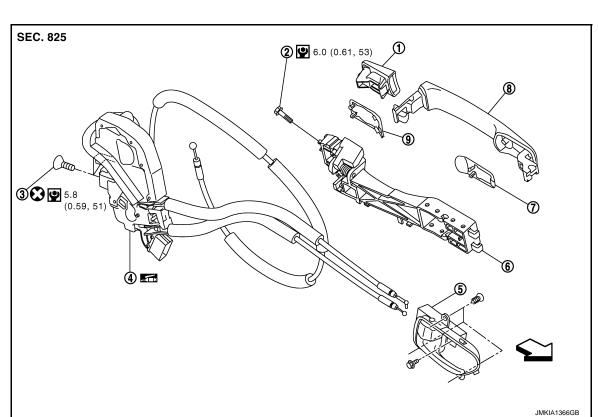
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**DLK-237** Revision: 2013 December **2013 ROGUE** 

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## **OUTSIDE HANDLE: Exploded View**



- Outside handle escutcheon
- Door lock assembly
- Front gasket

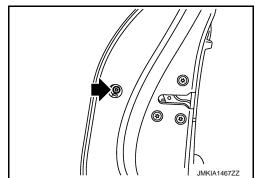
- TORX bolt
- Inside handle 5.
- 8. Outside handle assembly
- 3. TORX bolt
- Outside handle bracket 6.
- 9. Rear gasket

Refer to GI-4, "Components" for symbols in the figure.

## **OUTSIDE HANDLE: Removal and Installation**

#### **REMOVAL**

- 1. Remove rear door finisher. Refer to INT-15, "REAR DOOR FINISHER: Removal and Installation".
- 2. Disconnect inside handle cable.
- 3. Remove rear door glass. Refer to GW-26, "Removal and Installation".
- 4. Remove door side grommet, and loosen TORX bolt from grommet hole.



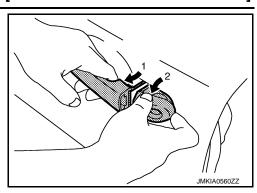
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## **REAR DOOR LOCK**

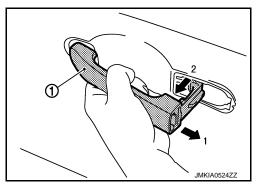
## < REMOVAL AND INSTALLATION >

#### [WITH INTELLIGENT KEY SYSTEM]

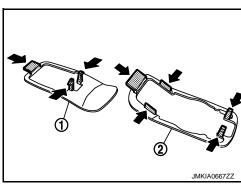
While pulling outside handle, remove outside handle escutcheon



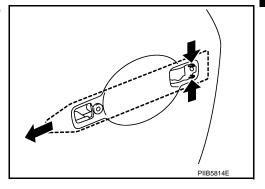
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.

## **INSTALLATION**

Install in the reverse order of removal.

**CAUTION:** 

Check door open/close, lock/unlock operation after installation.

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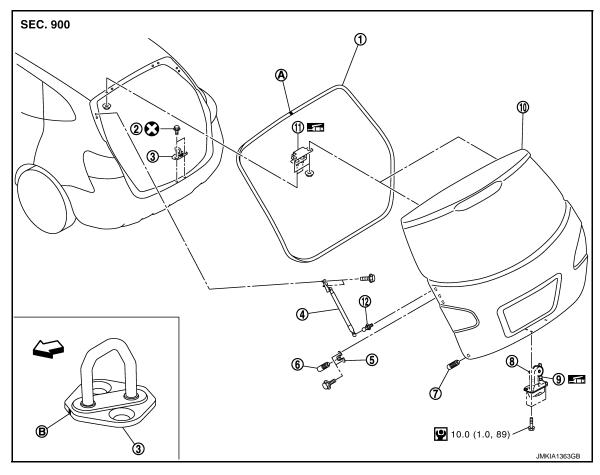
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# BACK DOOR LOCK DOOR LOCK

DOOR LOCK: Exploded View

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- 1. Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark

- 2. TORX bolt
- 5. Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B : Front mark

- 3. Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

INFOID:0000000008281984

Refer to  $\underline{\text{GI-4. "Components"}}$  for symbols in the figure.

DOOR LOCK: Removal and Installation

- 1. Remove back door lower finisher inner. Refer to INT-34, "Removal and Installation".
- 2. Disconnect back door lock assembly and back door opener switch connectors.
- 3. Remove back door lock mounting bolts, and then remove back door lock assembly.

#### **INSTALLTION**

Install in the reverse order of removal.

#### **CAUTION:**

**REMOVAL** 

Check back door open/close, lock/unlock operation after installation.

## [WITH INTELLIGENT KEY SYSTEM]

## **DOOR SWITCH**

**Exploded View** 

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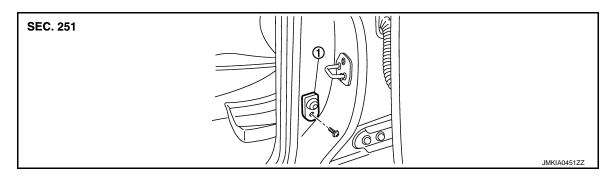
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1. Door switch (driver side)

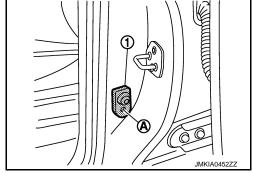
## Removal and Installation

## REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).

#### NOTE:

The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



## **INSTALLATION**

Install in the reverse order of removal.

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## **INSIDE KEY ANTENNA**

**CONSOLE** 

CONSOLE : Exploded View

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Refer to IP-22, "Exploded View"

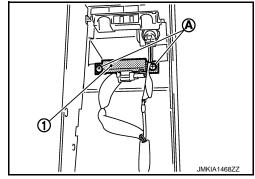
**CONSOLE**: Removal and Installation

INFOID:0000000008281988

#### **REMOVAL**

1. Remove the center console. Refer to IP-23, "Removal and Installation".

2. Remove the inside key antenna mounting screws (A), and then remove inside key antenna (console) (1).

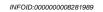


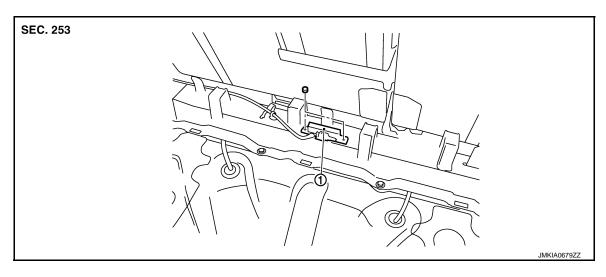
#### **INSTALLATION**

Install in the reverse order of removal.

**REAR** 

**REAR**: Exploded View





1. Inside key antenna (rear seat)

## **REAR**: Removal and Installation

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#### **REMOVAL**

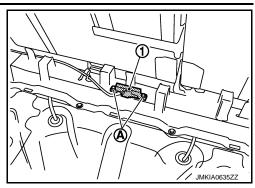
1. Remove the luggage floor spacer. Refer to INT-32, "Removal and Installation".

## **INSIDE KEY ANTENNA**

## < REMOVAL AND INSTALLATION >

## [WITH INTELLIGENT KEY SYSTEM]

2. Remove the inside key antenna (rear seat) mounting clips (A), and then remove inside key antenna (rear seat) (1).



**INSTALLATION** 

Install in the reverse order of removal.

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## **OUTSIDE KEY ANTENNA**

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

## **OUTSIDE KEY ANTENNA**

**DRIVER SIDE** 

DRIVER SIDE: Exploded View

INFOID:0000000008281991

Refer to DLK-232, "OUTSIDE HANDLE: Exploded View".

DRIVER SIDE: Removal and Installation

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REMOVAL

Remove the front outside handle LH. Refer to <u>DLK-232</u>, "<u>OUTSIDE HANDLE</u>: Removal and Installation".

**INSTALLATION** 

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE: Exploded View

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Refer to DLK-232, "OUTSIDE HANDLE: Exploded View".

PASSENGER SIDE: Removal and Installation

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**REMOVAL** 

Remove the front outside handle RH. Refer to <u>DLK-232, "OUTSIDE HANDLE: Removal and Installation"</u>.

INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

REAR BUMPER: Exploded View

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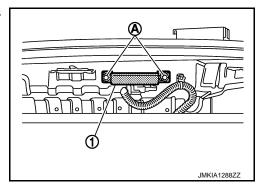
Refer to EXT-16, "Exploded View".

REAR BUMPER: Removal and Installation

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#### **REMOVAL**

- 1. Remove the rear bumper. Refer to EXT-16, "Removal and Installation".
- 2. Remove the outside key antenna (rear bumper) mounting bolts (A) ,and then remove outside key antenna (rear bumper)(1).

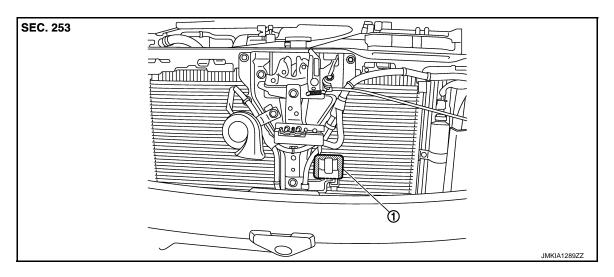


#### INSTALLATION

Install in the reverse order of removal.

## INTELLIGENT KEY WARNING BUZZER

Exploded View



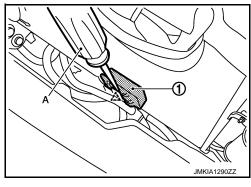
Intelligent Key warning buzzer

## Removal and Installation

**REMOVAL** 

Remove the front grille. Refer to <u>EXT-19</u>, "Removal and Installation".

Remove the Intelligent Key warning buzzer(1) using remover tool (A).



**INSTALLATION** 

Install in the reverse order of removal.

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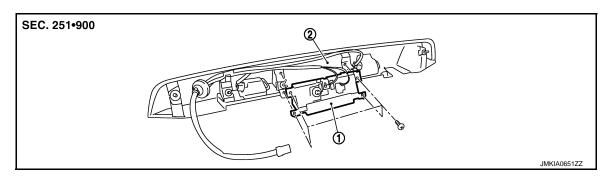
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## **BACK DOOR REQUEST SWITCH**

Exploded View



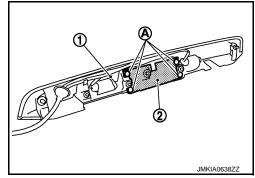
1. Back door opener switch assembly 2. Back door finisher

## Removal and Installation

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## **REMOVAL**

- 1. Remove the back door finisher. Refer to EXT-34, "Removal and Installation".
- 2. Remove the back door opener switch assembly mounting screws (A).
- 3. Remove the back door opener switch assembly (2) from back door finisher (1).



#### **INSTALLATION**

Install in the reverse order of removal.

## **BACK DOOR OPENER SWITCH**

[WITH INTELLIGENT KEY SYSTEM]

## **BACK DOOR OPENER SWITCH**

## **Exploded View**

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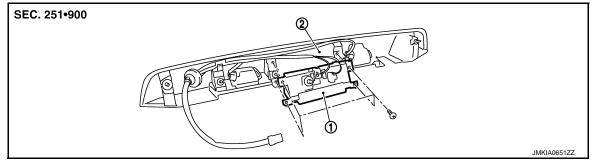
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1. Back door opener switch assembly

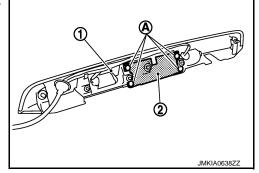
2. Back door finisher

## Removal and Installation

INFOID:0000000008282002

## **REMOVAL**

- 1. Remove the back door finisher. Refer to EXT-34, "Removal and Installation".
- 2. Remove the back door opener switch assembly mounting screws (A).
- 3. Remove the back door opener switch assembly (2) from back door finisher (1).



**INSTALLATION** 

Install in the reverse order of removal.

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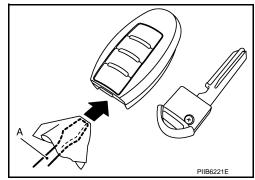
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## INTELLIGENT KEY BATTERY

## Removal and Installation

- Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
- Insert a remover 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.

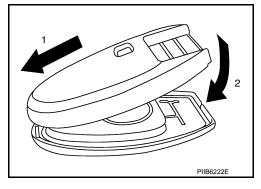
**Battery replacement** 

:Coin-type lithium battery (CR2025)

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

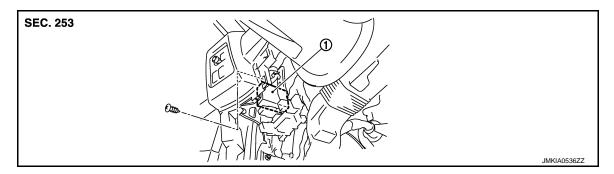
#### **CAUTION:**

- 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.



## **INTELLIGENT KEY UNIT**

Exploded View



1. Intelligent Key unit M40

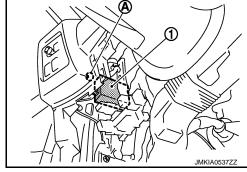
## Removal and Installation

## REMOVAL

- 1. Remove lower instrument panel (driver side) and mirror switch finisher. Refer to <u>IP-13, "Exploded View"</u> and <u>IP-14, "Removal And Installation"</u>.
- 2. Remove the Intelligent Key unit mounting screw (A), and then remove Intelligent Key unit (1).

#### NOTE:

Perform the system initialization when replacing Intelligent Key unit. Refer to <u>SEC-9</u>, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".



#### **INSTALLATION**

Install in the reverse order of removal.

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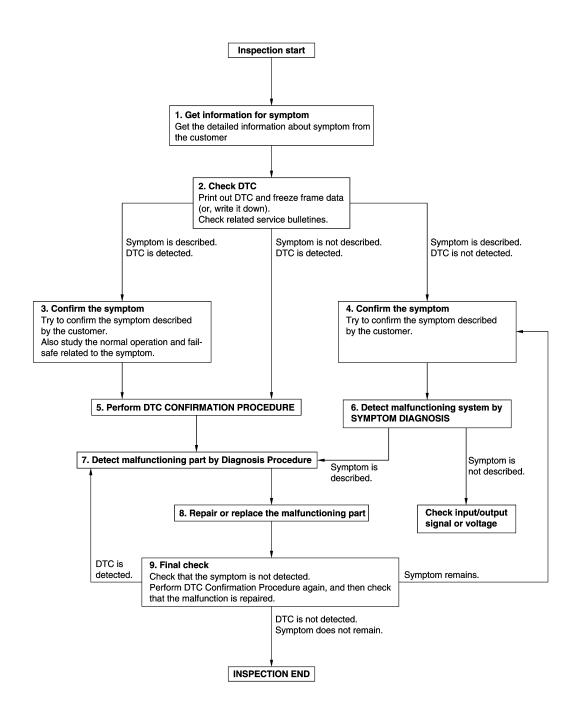
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# **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

**OVERALL SEQUENCE** 



JMKIA8652GB

## **DIAGNOSIS AND REPAIR WORK FLOW**

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

# 1.GET INFORMATION FOR SYMPTOM

- 1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
- 2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

## 2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is detected.
- Record DTC and freeze frame data (Print them out using 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.

#### Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

## 3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

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

>> GO TO 5.

## 4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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 detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to <a href="DLK-331">DLK-331</a>. "DTC Inspection Priority Chart" (BCM), 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 on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIR-MATION PROCEDURE.

#### Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-46, "Intermittent Incident".

## 6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

#### Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CON-SULT.

## 7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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## **DIAGNOSIS AND REPAIR WORK FLOW**

#### < BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

#### Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-46, "Intermittent Incident".

## 8.repair or replace the malfunctioning part

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnossis Procedure again after repair and replacement.
- 3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

## 9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

#### Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

### INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

# INSPECTION AND ADJUSTMENT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

INFOID:0000000008282007

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

Perform the system initialization when replacing or registering keyfob and ignition key.

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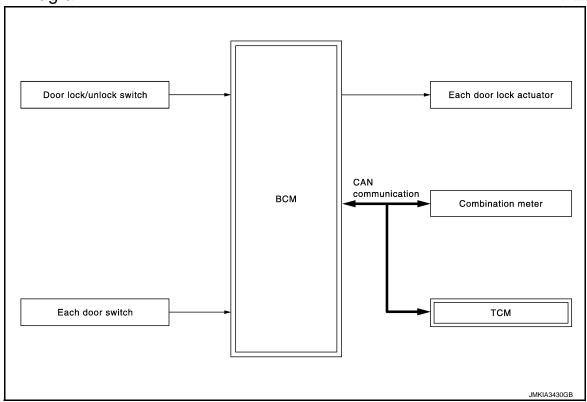
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### SYSTEM DESCRIPTION

### POWER DOOR LOCK SYSTEM

System Diagram

INFOID:0000000008282008



### System Description

INFOID:0000000008282009

#### DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) are build into power window main switch.
- The door lock and unlock (passenger side) is on door trim.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors and are unlocked.
- When ignition switch is ON and BCM receives air bag deployment signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag deployment signal to BCM.

#### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

The interlock door lock function is the function that locks all doors linked with the vehicle speed or shift position. It has 2 types as per the following items.

#### Vehicle Speed Sensing Auto Door Lock\*1

All doors are locked when the vehicle speed reaches 10 km/h (6 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the unified meter and A/C amp. via CAN communication becomes 10 km/h (6 MPH) or more.

#### P Range Interlock Door Lock

All doors 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 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 Lock/Unlock Function

The automatic door lock function ON/OFF can be switched by performing the following operation.

### POWER DOOR LOCK SYSTEM

#### < SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 2. Turn ignition switch ON
- 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 switch is complete when the hazard lamp blinks.

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

### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

The automatic door lock/unlock function is the function that unlocks all doors linked with the key position or shift position. It has 2 types as per the following items.

#### IGN OFF Interlock Door Unlock\*1

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

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

#### P Range Interlock Door Unlock

All doors are unlocked when shifting the selector lever from any position other than the P to P positions. BCM outputs the unlock signal to all door lock 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 positions.

#### Key out Interlock Door Unlock

When mechanical key is removed from ignition knob switch, all doors unlock.

When BCM detects that mechanical key is removed from ignition knob switch, BCM transmits unlock signal to all door lock actuators.

#### Setting change of Automatic Door Lock/Unlock Function

The automatic door lock/unlock function ON/OFF can be switched by performing the following operation.

- 1. Close all doors below (door switch OFF)
- Turn ignition switch ON
- 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.
- 4. The switch is complete when the hazard lamp blinks.

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

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

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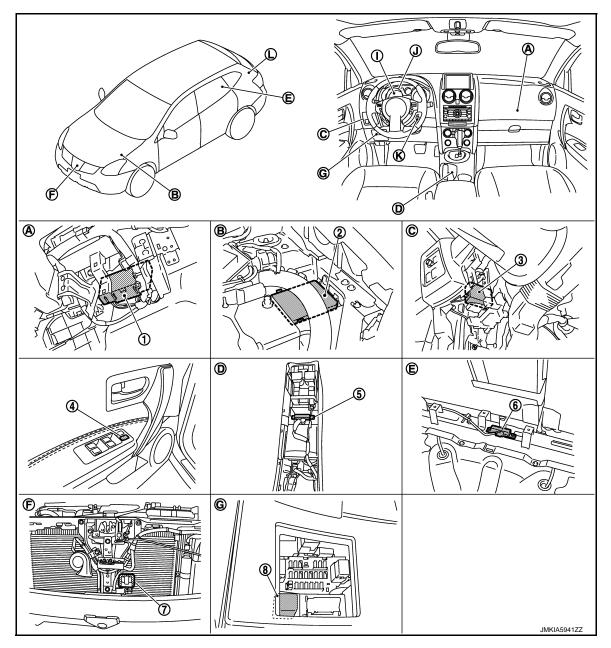
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Revision: 2013 December DLK-255 2013 ROGUE

### Component Parts Location

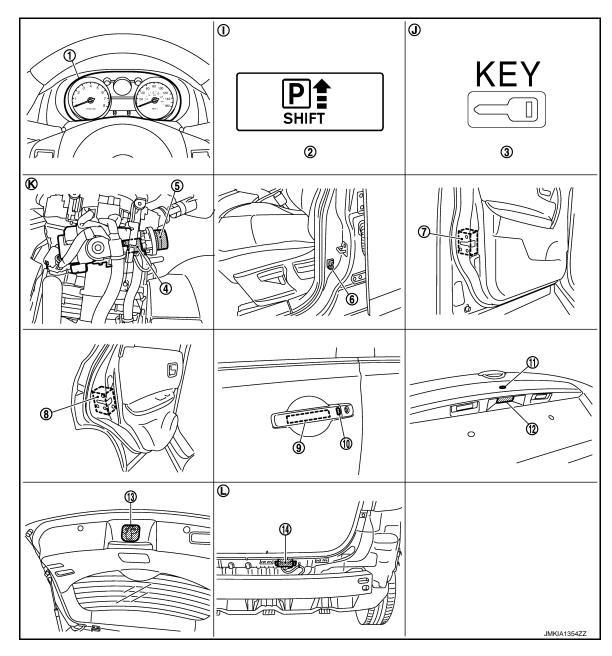
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- 1. BCM
- 4. Power window main switch (door lock and unlock switch)
- 7. Intelligent key warning buzzer
- A. Over the glove box
- D. View with lower instrument cover remove E.
- G. View with front bumper removed

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- B. Engine room LH
- E. View with center console removed
- H. View with fuse box lid removed

- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed



- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- 10. Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- L. View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6. lock solenoid (ignition knob switch)
  - Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

- 3. Key warning lamp
  - Front door switch (driver side)
- Outside handle assembly (outside key antenna) (driver side)
  - Back door opener switch assembly (opener switch)
  - view with steering column cover removed

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### **POWER DOOR LOCK SYSTEM**

< SYSTEM DESCRIPTION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

## Component Description

INFOID:0000000008282011

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Inputs lock or unlock signal to BCM.
Front door lock assembly (door lock actuator)	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Inputs door open/close condition to BCM.
TCM	Transmits shift position signal to BCM via CAN communication line.

System Diagram

INFOID:0000000008282012 CAN communication Combination meter Remote keyless entry receiver IPDM E/R Key ID signal Headlamp **BCM** Door lock actuator Key switch To interior room lamp Keyfob Each door switch To turn signal and hazard warning system JMKIA1368GB

### System Description

The remote keyless entry system can be locked and unlocked by pressing door lock and unlock button of key-

### DOOR LOCK AND UNLOCK OPERATION

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

### **OPERATION CONDITION**

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF (keyfob is removed from key slot).

#### OPERATION AREA

To ensure that the keyfob works effectively, use within 1 m (3ft) range of each door, however the operable range may differ according to surroundings.

#### SELECTIVE UNLOCK OPERATION

When door lock is unlocked, pressing LOCK button on key fob once will lock all doors. When door lock is locked, pressing UNLOCK button on key fob will unlock driver side door. Pressing UNLOCK button on key fob second time within 5 seconds from the first time will unlock all doors and back door can be opened with back door opener switch.

#### Hazard and Horn Reminder

When the doors are locked or unlocked by key fob, power is supplied to sound horn and flash hazard warning lamps as follows

- LOCK operation: 3 or 4 mode (lamps flash twice)
- UNLOCK operation: 2 or 4 mode (lamps flash once)
- Horns sound once with LOCK function when this feature is set ON

The hazard reminder has modes 1, 2, 3 or 4. The horn reminder can be turned ON/OFF with any LOCK mode.

Operating function of hazard reminder

	Mo	de 1	Мо	de 2	Мо	de 3	Мо	de 4
Key fob operation	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Hazard warning lamp flash	_	_	_	Once	Twice	_	Twice	Once
Horns sound (ON/OFF)	ON: once	_						

**DLK-259** Revision: 2013 December **2013 ROGUE** 

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#### < SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Hazard and horn reminders do not operate if any door switch is ON (any door is OPEN).

How to change hazard and horn reminder modes

#### With CONSULT

Hazard reminder can be changed using "HAZARD LAMP SET" mode in "WORK SUPPORT". Horn reminder can be changed using "HORN CHIRP SET" mode in "WORK SUPPORT". Refer to DLK-271, "MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT)".

### **Without CONSULT**

Refer to Owner's Manual for instructions.

#### AUTO DOOR LOCK OPERATION

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

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

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>DLK-271</u>, "MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT)".

#### **KEY REMINDER OPERATION**

- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while the driver door is open and mechanical key is inserted ignition key cylinder.
- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is
  pressed while any door other than the driver door is open.

#### PANIC ALARM OPERATION

When key switch is OFF (when keyfob is not inserted in key slot), BCM turns on and off horn intermittently with input of panic alarm signal from keyfob.

BCM outputs to IPDM E/R for panic alarm signal (horn signal) via CAN communication line.

The alarm automatically turns off after 25 seconds or when BCM receives any signal from keyfob.

Panic alarm operation mode can be changed using "PANIC ALARM SET" mode in "WORK SUPPORT".

Refer to <u>DLK-271</u>, "MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT)".

#### Interior Lamp Operation

When the following conditions occur, remote keyless entry system turns on interior lamp with input of UNLOCK signal from key fob. For detailed description, refer to INL-6, "System Description".

- Interior room lamp switch is in the DOOR position
- Door switch OFF (when all the doors are closed)

#### ID CODE ENTRY PROCEDURE

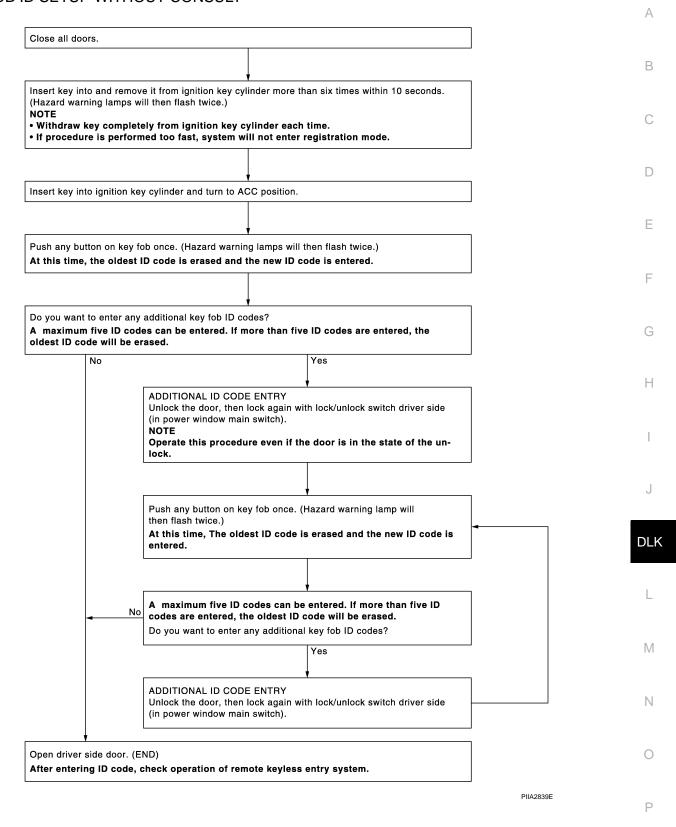
Key fob ID setup WITH CONSULT

Refer to DLK-271, "MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT)".

#### NOTE:

If a key fob is lost, the ID code of the lost key fob must be erased to prevent unauthorized use. When the ID code of a lost key fob is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new key fobs must be re-registered.

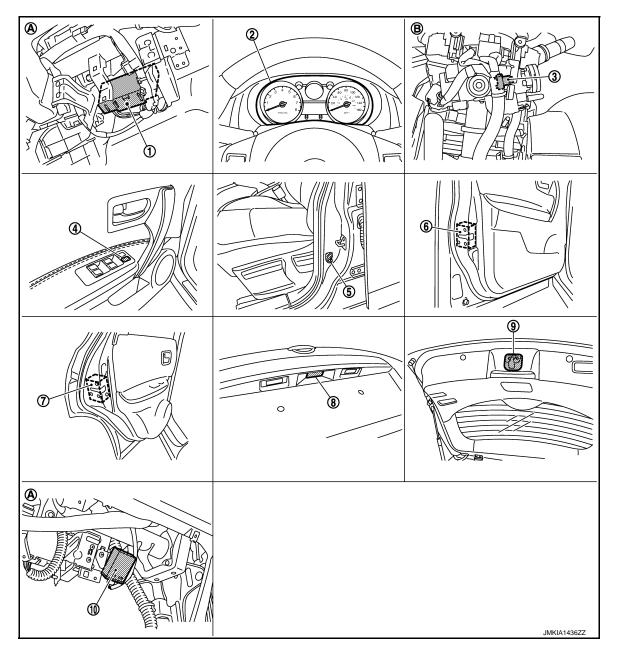
#### KEY FOB ID SETUP WITHOUT CONSULT



Revision: 2013 December DLK-261 2013 ROGUE

### Component Parts Location

INFOID:0000000008282014



- **BCM** M65, M66, M67
- Power window main switch (Door lock and unlock switch) D5, D6
- Rear door lock actuator LH 7.
- 10. Remote keyless entry receiver M91
- Over the glove box

- Combination meter M34
- 5. Front door switch (driver side)
- 8. Back door opener switch assembly (open- 9. Back door lock assembly D190 er switch) D186
- B. View with steering column cover removed
- 3. Key switch M24
- 6. Front door lock assembly (driver side) D9

### Component Description

INFOID:0000000008282015

Item Function	
BCM	Controls the door lock and unlock function.
Key switch	Detects that ignition key is inserted into ignition key cylinder.

### < SYSTEM DESCRIPTION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

Item	Function
Door lock actuator	Receives lock / unlock signal from BCM and locks and unlocks each door.
Remote keyless entry receiver	Receives lock/unlock signal from the key fob, and then transmits to BCM.
Key fob	Transmits button operation to remote keyless entry receiver.

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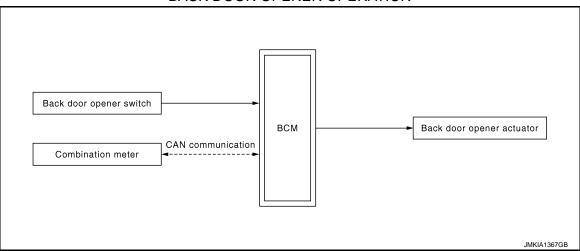
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### **BACK DOOR OPEN FUNCTION**

System Diagram

### **BACK DOOR OPENER OPERATION**



### System Description

INFOID:0000000008282017

### **BACK DOOR OPENER OPERATION**

When back door opener switch is pressed, BCM opens back door opener actuator.

#### NOTE:

Back door opener actuator is not for locking the back door. The function is only to open the back door.

### **OPERATION CONDITION**

If the following conditions are not satisfied, back door opener operation is not performed.

Back door opener switch operation	Operation condition
Back door open	Vehicle speed is less than 5 km/h (3 MPH).

### Component Parts Location

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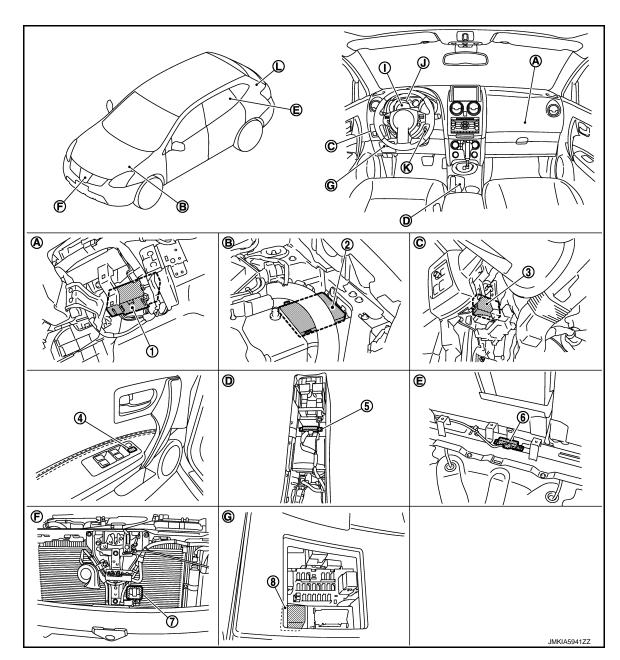
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- 1. BCM
- 4. Power window main switch (door lock and unlock switch)
- 7. Intelligent key warning buzzer
- A. Over the glove box
- D. View with lower instrument cover remove E.
- G. View with front bumper removed

- 2. IPDM E/R
- 5. Inside key antenna (console)
- 8. Selective unlock relay
- B. Engine room LH
- E. View with center console removed
- H. View with fuse box lid removed

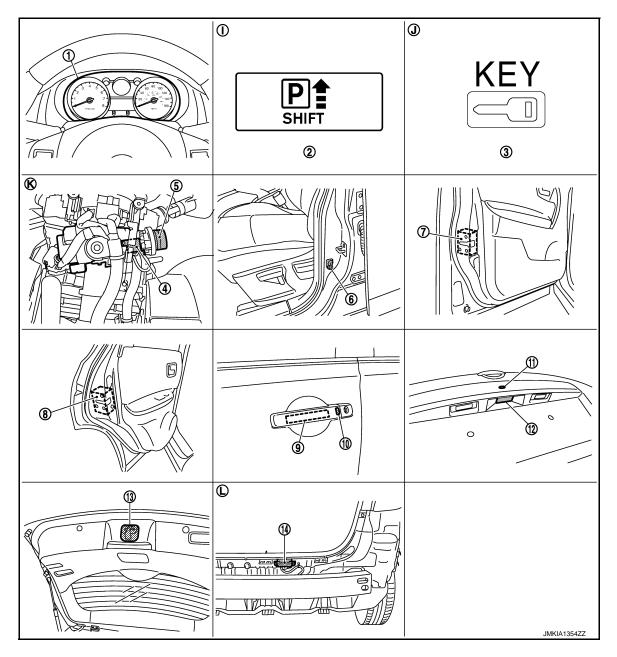
- 3. Intelligent key unit
- 6. Inside key antenna (rear seat)
- C. Over the instrument lower panel (driver side)
- F. View with luggage floor spacer (LH) removed

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- 1. Combination meter
- 4. Ignition knob switch, key switch and key lock solenoid (key switch)
- 7. Front door lock assembly (driver side) 8.
- Outside handle assembly (front door request switch) (driver side)
- 13. Back door lock assembly
- I. Inside the combination meter
- L. View with rear bumper fascia removed

- 2. P-SHIFT warning lamp
- Ignition knob switch, key switch and key 6.
   lock solenoid (ignition knob switch)
  - Rear door lock actuator LH
- Back door opener switch assembly (request switch)
- 14. Out side key antenna (back door)
- J. Inside the combination meter

- 3. Key warning lamp
- . Front door switch (driver side)
- 9. Outside handle assembly (outside key antenna) (driver side)
- 12. Back door opener switch assembly (opener switch)
- view with steering column cover removed

### **BACK DOOR OPEN FUNCTION**

< SYSTEM DESCRIPTION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

## Component Description

INFOID:0000000008282019

Item	Function
BCM	Controls the back door opener function
Back door opener switch	Transmits back door opener switch operation signal to BCM
Back door lock assembly (Back door opener actuator)	Opens the back door with the back door open signal from BCM
Combination meter	Transmits vehicle speed signal to BCM via CAN communication

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### INTEGRATED HOMELINK TRANSMITTER

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## **INTEGRATED HOMELINK TRANSMITTER**

## **Component Description**

INFOID:0000000008282020

Item	Function
Homelink universal transceiver	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

## **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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#### APPLICATION ITEM

CONSULT can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to DLK-331, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	<ul> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

#### SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

Cuatara	CONSULT	Diagnosis mode			
System	sub system selection item	Work Support	Data Monitor	Active Test	
Door lock	DOOR LOCK	×	×	×	
Rear window defogger	REAR DEFOGGER		×	×	
Warning chime	BUZZER		×	×	
Interior room lamp control	INT LAMP	×	×	×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	×	
Exterior lamp	HEAD LAMP	×	×	×	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER		×	×	
<ul><li>Auto air conditioning system</li><li>Manual air conditioning system</li></ul>	AIR CONDITONER		×		
Intelligent Key system	INTELLIGENT KEY		×		
Combination switch	COMB SW		×		
Body control system	BCM	×			
Immobilizer	IMMU		×	×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Back door open	TRUNK		×	×	
Vehicle security system	THEFT ALM	×	×	×	
RAP system	RETAINED PWR	×	×	×	
Signal buffer system	SIGNAL BUFFER		×	×	
_	FUEL LID*				
TPMS	AIR PRESSURE MONITOR	×	×	×	
Panic alarm system	PANIC ALARM			×	

<sup>\*:</sup> This item is displayed, but is not function.

DOOR LOCK

[WITHOUT INTELLIGENT KEY SYSTEM]

### < SYSTEM DESCRIPTION >

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000008282022

### **BCM CONSULT FUNCTION**

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function
DATA MONITOR	The BCM input/output signals are displayed
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM

### **DATA MONITOR**

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position
PUSH SW <sup>*1</sup>	Indicates [ON/OFF] condition of ignition knob switch
KEY ON SW	Indicates [ON/OFF] condition of key switch
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side)
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side)
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key
KEY CYL LK-SW	Indicates [ON/OFF] condition of lock signal from key cylinder
KEY CYL UN-SW	Indicates [ON/OFF] condition of unlock signal from key cylinder

<sup>\*1:</sup> For the Intelligent Key equipped vehicle.

#### **ACTIVE TEST**

Test item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LCK/ALL ULK/DR UNLK/OTR ULK]

### **WORK SUPPORT**

Test item	Description
DOOR LOCK-UNLOCK SET	Select unlock mode can be changed in this mode. Selects ON-OFF of select unlock mode
ANTI-LOCK OUT SET	Key reminder door mode can be changed in this mode. Selects ON-OFF of Key reminder door mode
AUTOMATIC DOOR LOCK SELECT	The automatic door lock function mode can be selected as per the following item in this Mode.  VH SPD: All doors are locked when vehicle speed is more than 5 MPH (10km/h)  PRANGE: All doors are locked when shifting the selector lever from the P position to other than the P position

<sup>\*2:</sup> For the multi remote control system equipped vehicle.

< SYSTEM DESCRIPTION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

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Test item	Description
AUTOMATIC DOOR UNLOCK SELECT	<ul> <li>The automatic door unlock function mode can be selected as per the following item in this Mode.</li> <li>MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 2: All doors are unlocked when shifting the selector lever from any position to other than the P to P positions</li> <li>MODE 4: Driver side door is unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 5: Driver side door is unlocked when shifting the selector lever from any position to other than the P to P positions</li> </ul>
AUTOMATIC DOOR LOCK/UNLOCK SET	The automatic door lock/unlock function can be changed to operate (ON) or not operate (OFF) in this mode.

## **MULTIREMOTE ENT**

## MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT) INFOID:0000000008282023

### **BCM CONSULT FUNCTION**

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

### **DATA MONITOR**

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEYKESS LOCK	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK	Indicates [ON/OFF] condition of unlock signal from key fob.
KEYLESS PANIC	Indicates [ON/OFF] condition of panic alarm signal from key fob.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
RKE LOCK AND UNLOCK	Indicates [ON/OFF] condition of lock and unlock signal from keyfob.
MEMORY 1	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 2	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 3	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 4	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 5	Indicates [ON/OFF] condition of remote controller ID code registration.

### **ACTIVE TEST**

< SYSTEM DESCRIPTION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

Test item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK OTHER UNLOCK].
FLASHER	This test is able to check flasher operation [LH/RH/OFF].
HORN	This test is able to check horn operation [ON/OFF].

#### **WORK SUPPORT**

Test item	Description
HAZARD LAMP SET	Answer back function (hazard) mode can be changed in this mode. For the detail of the setting.
HORN CHIRP SET	Answer back function (horn) mode can be changed in this mode. For the detail of the setting.
AUTO LOCK SET	Auto door lock time can be changed in this mode.  • MODE 1: 1 minute  • MODE 2: 2 minutes  • MODE 3: 3 minutes  • MODE 4: 4 minutes  • MODE 5: 5 minutes
PANIC ALRM SET	Panic alarm operation mode can be changed in this mode.

### **TRUNK**

### TRUNK: CONSULT Function (BCM - TRUNK) (WITHOUT INTELLIGENT KEY)

VFOID:0000000008282024

### **APPLICATION ITEM**

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit

#### **DATA MONITOR**

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position
KEYLESS TRUNK	This item is indicated, but not monitored
TRNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h]

### **ACTIVE TEST**

Test item	Description
TRUNK/BACK DOOR	This test is able to check back door opener operation [ON/OFF]

### PANIC ALARM

PANIC ALARM: CONSULT Function (BCM - PANIC ALARM)

INFOID:0000000008282025

#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

### < SYSTEM DESCRIPTION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

Diagnosis mode	Function Description
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM

### **ACTIVE TEST**

Test item	Description
HEAD LAMP (HI)	This test is able to check head lamp (hi) operation [ON/OFF]
PANIC ALARM	This test is able to check panic alarm operation [ON/OFF]

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### **U1000 CAN COMM CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

Description INFOID:0000000008282026

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

DTC Logic

#### DTC DETECTION LOGIC

DTC	DTC Detection Condition	Possible cause
U1000: CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

### Diagnosis Procedure

INFOID:0000000008282028

### 1.PERFORM SELF DIAGNOSTIC

- 1. Turn the ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" of BCM.

#### Is DTC "U1000" displayed?

YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-46, "Intermittent Incident".

### POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

BCM: Diagnosis Procedure

INFOID:0000000008282029

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### 1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

Terminal No.	Signal name	Fuses and fusible link No.
57	Pottony nowar cumply	10 (10A)
70	Battery power supply	J (50A)
11	ACC power supply	20 (10A)
38	Ignition power supply	1 (10A)

### Is the fuse fusing?

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

NO >> GO TO 2.

## 2.CHECK POWER SUPPLY CIRCUIT

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

(+) BCM			Ignition switch position			
		(–)	OFF	ACC	ON	
Connector	Terminal		OIT	ACC	ON	
M67	70		Pattony voltago	Battery voltage	Battery voltage	
IVIO7	57	Ground	Battery voltage	battery voltage	battery voltage	
M65	11	Giodila	Approx. 0 V	Battery voltage	Battery voltage	
IVIOS	38		Approx. 0 V	Approx. 0 V	Battery voltage	

#### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

## 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M67	67		Exists	

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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### **DOOR SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

### DOOR SWITCH

Description INFOID:0000000008282030

Detects door open/closed condition.

Component Function Check

### 1. CHECK FUNCTION

### (I) With CONSULT

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

Monitor item	Door condition	Display
DOOR SW-DR		
DOOR SW-AS		
DOOR SW-RL	$CLOSE \to OPEN$	$OFF \to ON$
DOOR SW-RR		
BACK DOOR		

#### Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-276</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

INFOID:0000000008282032

## 1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect door switch connectors.
- 3. Check signal between door switch harness connector and ground with oscilloscope.

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(+)				V-14 (V)
Door swite	ch		(-)	Voltage (V) (Approx.)
Connector		Terminal		· · · · /
Front door switch (passenger side)	В93			(V) <sub>15</sub> 10 5 0 ++10ms JPMIA0586GB
Front door switch (driver side)	B92			(V) <sub>15</sub> 10 5 0 +10ms JPMIA0587GB
Rear door switch RH	B95	3	Ground	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1
Rear door switch LH	B94			(V) <sub>15</sub> 10 5 0 ++10ms JPMIA0594GB
Back door lock assembly (back door switch)	D190			(V) <sub>15</sub> 10 5 0 + 10ms JPMIA0593GB

#### Is the inspection result normal?

YES >> • Back door switch : GO TO 3.

• Door switch : GO TO 4.

NO >> GO TO 2.

## 2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connectors.

2. Check continuity between BCM harness connector and door switch harness connector.

#### [WITHOUT INTELLIGENT KEY SYSTEM]

BCM		Door switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	12	B93		
COIVI	13	B95	3	Exists
	43	D190		
M66	47	B92		
	48	B94		

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Connector Terminal		Continuity	
M65	12			
	13	Ground		
	43		Does not exist	
M66	47			
	48			

### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

### 3.CHECK BACK DOOR GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D190	4		Exist

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR SWITCH

Check door switch.

Refer to DLK-278, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door switch. Refer to <u>DLK-409</u>, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

### >> INSPECTION END

### Component Inspection

INFOID:0000000008282033

## 1. CHECK DOOR SWITCH

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

### **DOOR SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

### [WITHOUT INTELLIGENT KEY SYSTEM]

Door switch Terminal		Condition		Continuity	
3	Cround part of door quitab	Door switch	Pressed	Exists	
3	Ground part of door switch	Door switch	Released	Does not exist	
Back door switch		Condition			
Ва		Cor	ndition	Continuity	
Ва	Terminal	Cor	ndition	Continuity	

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door switch . Refer to <u>DLK-409</u>, "Removal and Installation".

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< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

### DOOR LOCK AND UNLOCK SWITCH

**DRIVER SIDE** 

**DRIVER SIDE: Description** 

INFOID:0000000008282034

Transmits door lock/unlock operation to BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000008282035

### 1. CHECK FUNCTION

Check "CDL LOCK SW" and "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 <u>DLK-280</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

### **DRIVER SIDE**: Diagnosis Procedure

INFOID:0000000008282036

## 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect power window main switch connectors.
- 3. Check signal between power window main switch harness connector and ground with oscilloscope.

(+) Power window main switch		(-)	Signal (Reference value)	
Connector	Terminal		(13333133)	
D5	6			
D6	18	Ground	(V) 15 10 5 0 → 10ms JPMIA0591GB	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and power window main switch harness connector.

В	CM	Power window main switch  Connector Terminal		Continuity	
Connector	Terminal			Continuity	
M65	46	D5	6	Exists	
1003	45	D6	18		

3. Check continuity between BCM harness connector and ground.

### < DTC/CIRCUIT DIAGNOSIS >

1. CHECK FUNCTION

### [WITHOUT INTELLIGENT KEY SYSTEM]

BCM			Continuity
Connector	Terminal	Ground	Continuity
M65	46	- Ground	Door not eviet
IVIOS	45		Does not exist
sthe inspection result normal? YES >> Replace BCM. Refer to NO >> Repair or replace harr CHECK DOOR LOCK AND UN	ness. ILOCK SWITCH GR	OUND	
Check continuity between power v	WINDOW MAIN SWITCH I	namess connector ar	ia ground.
Power window main	switch		Continuity
Connector	Terminal	Ground	
D6	17		Exists
CHECK DOOR LOCK AND UNCHECK power window main switch. Refer to DLK-281, "DRIVER SIDE the inspection result normal?  YES >> GO TO 5.  NO >> Replace power window D.CHECK INTERMITTENT INCIDE	: Component Inspect		val and Installation".
>> INSPECTION END ORIVER SIDE: Componer CHECK DOOR LOCK AND UN Turn ignition switch OFF.	nt Inspection		INFOID:0000000082
>> INSPECTION END DRIVER SIDE : Componer  1. CHECK DOOR LOCK AND UN 1. Turn ignition switch OFF. 2. Disconnect power window main sw	nt Inspection ILOCK SWITCH in switch connector.		INFOID:0000000082
>> INSPECTION END ORIVER SIDE : Componer  CHECK DOOR LOCK AND UN Turn ignition switch OFF. Disconnect power window ma	nt Inspection ILOCK SWITCH in switch connector. vitch terminal.	ndition	INFOID:0000000082
>> INSPECTION END ORIVER SIDE : Componer CHECK DOOR LOCK AND UN Turn ignition switch OFF. Disconnect power window main sw Check power window main sw	nt Inspection ILOCK SWITCH in switch connector. vitch terminal.	ndition  LOCK  UNLOCK	
DRIVER SIDE : Componer  1. CHECK DOOR LOCK AND UN  1. Turn ignition switch OFF.  2. Disconnect power window main sw  Check power window main switch  Power window main switch  Terminal  6  17	in switch connector.	LOCK	Continuity Exists
>> INSPECTION END DRIVER SIDE : Componer  1. CHECK DOOR LOCK AND UN 1. Turn ignition switch OFF. 2. Disconnect power window main switch OFF. 3. Check power window main switch  Power window main switch  Terminal  6 17  Is the inspection result normal? YES >> INSPECTION END NO >> Replace power window	nt Inspection ILOCK SWITCH in switch connector. vitch terminal.  Con Door lock w main switch. Refer	LOCK	Continuity Exists

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#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

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

Monitor item	(	Condition	
CDL LOCK SW	LOCK	: ON	
	UNLOCK	: OFF	
CDI TINI OCK SW	LOCK	: OFF	
CDL UNLOCK SW	UNLOCK	: ON	

#### Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-282</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

### PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000008282040

### 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check signal between front power window switch (passenger side) harness connector and ground with oscilloscope.

	(+) Front power window switch (passenger side)		Signal (Reference value)
Connector	Terminal		(**************************************
	1		
D45	2	Ground	(V) <sub>15</sub> 10 5 0  → 10ms  JPMIA0591GB

#### Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

## 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

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

В	CM	Front power window switch (passenger side)  Connector Terminal		- Continuity	
Connector	Terminal			Continuity	
M65	46	D45	2	Exists	
WOS	45	D43	1	LAISIS	

Check continuity between BCM connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M65	46	Ground	Does not exist	
IVIOS	45	-	Does not exist	

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## ${f 3.}$ CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between front power window switch (passenger side) harness connector and ground.

Front power window s	witch (passenger side)		Continuity	
Connector Terminal		Ground	Continuity	
D45	D45 3		Exists	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR LOCK AND UNLOCK SWITCH

Check front power window switch (passenger side).

Refer to DLK-283, "PASSENGER SIDE: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front power window switch (passenger side). Refer to <a href="PWC-63">PWC-63</a>, "Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

### PASSENGER SIDE: Component Inspection

1. CHECK DOOR LOCK AND UNLOCK SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check front power window switch (passenger side) terminal.

	v switch (passenger de)	Condition		Continuity
Terr	minal			
2	3	Door lock LOCK		Exists
1	3	DOOI TOCK	UNLOCK	EXISIS

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side). Refer to <a href="PWC-63">PWC-63</a>, "Removal and Installation".

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### **KEY SWITCH**

Description INFOID:000000008282042

Key switch detects that mechanical key is inserted into the key cylinder, and then transmits the signal to BCM .

### Component Function Check

#### INFOID:0000000008282043

### 1. CHECK KEY SWITCH INPUT SIGNAL

Check key switch "KEY ON SW" in "Data Monitor" mode with CONSULT. Refer to <u>DLK-270, "DOOR LOCK:</u> <u>CONSULT Function (BCM - DOOR LOCK)"</u>.

Monitor item	Condition		
KEY ON SW	Insert mechanical key into key cylinder	: ON	
RET ON SW	Remove mechanical key from key cylinder	: OFF	

#### Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to <u>DLK-284, "Diagnosis Procedure"</u>.

### Diagnosis Procedure

INFOID:0000000008282044

## 1. CHECK KEY SWITCH POWER SUPPLY CIRCUIT

- 1. Remove mechanical key from key cylinder.
- 2. Disconnect key switch connector.
- Check voltage between key switch harness connector and ground.

(+) Key switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - )	
M24	2	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

### 2.CHECK KEY SWITCH SIGNAL CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and key switch connector.

BCM		Key switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	37	M24	1	Exists

3. Check continuity between key switch and ground.

Key s	switch		Continuity	
Connector Terminal		Ground	Continuity	
M24	1		Does not exist	

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK KEY SWITCH

Check key switch function.

Refer to DLK-285, "Component Inspection".

### **KEY SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

### Is the inspection result normal?

yes >> GO TO 4.

NO >> Replace key cylinder assembly.

## 4. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

### >> INSPECTION END

### Component Inspection

#### INFOID:0000000008282045

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### COMPONENT INSPECTION

## 1. CHECK KEY SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect key switch connector.
- 3. Check continuity between key switch terminals.

Key switch Terminal		Condition	Continuity
1	2	Insert mechanical key into key cylinder	Exists
	2	Remove mechanical key from key cylinder	Does not exist

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key cylinder assembly.

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### **KEY CYLINDER SWITCH**

Description INFOID:000000008282046

Power window main switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signals.

### Component Function Check

INFOID:0000000008282047

### 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check ("KEY CYL LK-SW", "KEY CYL UN-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to <u>DLK-270</u>, "DOOR LOCK: <u>CONSULT Function</u> (<u>BCM - DOOR LOCK</u>)".

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

#### Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Refer to <u>DLK-286</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

INFOID:0000000008282048

## 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect front door lock assembly (driver side) connector.
- 3. Check signal between front door lock assembly (driver side) harness connector and ground with oscilloscope.

(+) Front door lock ass side)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
				Unlock	0
<b>D</b> 9	5	Ground	Key position	Neutral / Unlock	(V) 15 10 5 0 + 10ms JPMIA0587GB
D9		Ground	Ney position	Lock	0
	6			Neutral / Lock	(V) <sub>15</sub> 10 5 0  **10ms  JPMIA0587GB

Is the inspection result normal?

YES >> GO TO 3.

### **KEY CYLINDER SWITCH**

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

NO >> GO TO 2.

## 2.check door key cylinder signal circuit

Disconnect BCM connector.

Check continuity between BCM harness connector and front door lock assembly (driver side) harness connector.

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M65	7	D9	5	Existed
WOO	8	D9	6	LAISIEU

Check continuity between BCM connector and ground.

BCM		Ground	Continuity	
connector	Terminal			
M65	7	Giouna	Not existed	
	8		Not existed	

Is the inspection result normal?

>> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

## ${f 3.}$ CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) connector and ground.

Front door lock assembly (driv		Continuity	
Connector	Terminal	Ground	Continuity
D9	4		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to <u>DLK-287</u>, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to DLK-378, "DOOR ASSEMBLY : Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

## Component Inspection

COMPONENT INSPECTION

## 1. CHECK DOOR KEY CYLINDER SWITCH

- 1. Turn ignition switch OFF.
- Desconnect front door lock assembly (driver side) connector
- Check front door lock assembly (driver side) termianl.

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### **KEY CYLINDER SWITCH**

< DTC/CIRCUIT DIAGNOSIS >

### [WITHOUT INTELLIGENT KEY SYSTEM]

Front door lock assembly (driver side)		Condition		Continuity
Terminal				
5			Unlock	Existed
	Voy position	Neutral / Lock	Not existed	
6	4	Key position	Lock	Existed
			Neutral / Unlock	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side). Refer to <u>DLK-378</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>".

#### REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

# REMOTE KEYLESS ENTRY RECEIVER

Description INFOID:0000000008282050

Receives key fob switch operation and transmits to BCM.

## Component Function Check

# 1.CHECK FUNCTION

Check door lock and unlock operation with keyfob switch.

#### Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

NO >> Refer to <u>DLK-289</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

# 1. CHECK BCM SIGNAL 1

1. Turn ignition switch OFF.

Disconnect remote keyless entry receiver connector.

3. Check voltage between remote keyless entry receiver harness connector and ground.

	+) ss entry receiver	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(/ .pp. 0/)	
M91	4	Ground	5	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLYCIRCUIT

1. Disconnect BCM connector.

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

В	CM	Remote keyles	s entry receiver	Continuity
Connector	Terminal	Connector Terminal		Continuity
M65	19	M91	4	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M65	19		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Repair or replace harness.

# 3. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

Reconnect remote keyless entry receiver.

2. Check signal between remote keyless entry receiver harness connector and ground using oscilloscope.

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### REMOTE KEYLESS ENTRY RECEIVER

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

(+) Remote keyless entry receiver			Oi maral		
		(–)	Signal (Reference value)		
Connector	Terminal		( )	,	
			Insert mechanical key into ignition key cylinder	0 V	
		Remove mechanical key from ignition key cylinder (Any door opened)	5 V		
M91	4	Ground	Remove mechanical key from ignition key cylinder (Any door closed)	(V) 6 4 2 0 ★ ★0.2 s	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace remote keyless entry receiver.

## 4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

В	ВСМ		Remote keyless entry receiver	
Connector	Terminal	Connector Terminal		Continuity
M65	18	M91	1	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M65	18		Not existed

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

## 5. CHECK BCM SIGNAL 2

- 1. Reconnect BCM connector.
- 2. Check voltage between remote keyless entry receiver harness connector and ground.

( Remote keyles	+) s entry receiver	(–)	Voltage (V) (Approx.)	
Connector	Connector Terminal		(/ .pp. 3/)	
M91	2	Ground	5	

#### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

## **6.**CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

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

### REMOTE KEYLESS ENTRY RECEIVER

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

В	CM	Remote keyless entry receiver		Continuity
Connector	Terminal	Connector Terminal		Continuity
M65	20	M91	2	Existed

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M65	20		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Repair or replace harness.

# 7.CHECK REMOTE KEYLESS ENTRY RECEIVER SIGNAL

- 1. Reconnect remote keyless entry receiver connector.
- 2. Check signal between remote keyless entry receiver harness connector and ground using oscilloscope.

(+) Remote keyless entry receiver		(–)	Condition	Signal (Reference value)
Connector	Terminal			
M91	2	Ground	Waiting	(V) 15 10 5 0 
			Press the keyfob lock or unlock button	(V) 15 10 5 0  MMMMMMMMMMMMMMMMMMMMMMMMMMMM

#### Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace remote keyless entry receiver.

# 8. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

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[WITHOUT INTELLIGENT KEY SYSTEM]

## DOOR LOCK ACTUATOR

**DRIVER SIDE** 

**DRIVER SIDE**: Description

INFOID:0000000008282053

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000008282054

## 1. CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition
	ALL UNLK	The all door lock actuators are unlocked
DOOR LOCK/UNLOCK	DR UNLK	The door lock actuator (driver side) is unlocked
	LOCK	The all door lock actuators are locked

#### Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.

NO >> Refer to <u>DLK-292</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

### DRIVER SIDE: Diagnosis Procedure

INFOID:0000000008282055

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect front door lock assembly (driver side) connector.
- 3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)			Condition	Voltage (V) (Approx.)
Front door lock assembly (driver side)		(–)		
Connector	Terminal			, , ,
	1	Ground	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$
D9	2		Unlock	$0 \rightarrow Battery \ voltage \rightarrow 0$

#### Is the inspection result normal?

YES >> Replace front door lock assembly (driver side). Refer to <u>DLK-396, "DOOR LOCK: Removal and Installation".</u>

NO >> GO TO 2.

## 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and front door lock assembly (driver side) harness connector.

BCM	1	Door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M67	65	D9	1	Exists
IVIO7	59	D9	2	EXISIS

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M67	65	Ground	Does not exist
IVIO7	59		Does not exist

< DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

#### PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000008282056

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Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE: Component Function Check

INFOID:00000000008282057

#### 1.CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition	
	ALL UNLK	The all door lock actuators are unlocked	
DOOR LOCK/UNLOCK	AS UNLK	The door lock actuator (passenger side) is locked	
	LOCK	The all door lock actuators are locked	

#### Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.

NO >> Refer to <u>DLK-293</u>, "PASSENGER SIDE : <u>Diagnosis Procedure"</u>.

## PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000008282058

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

Turn ignition switch OFF.

2. Disconnect front door lock actuator (passenger side) connector.

3. Check voltage between front door lock actuator (passenger side) harness connector and ground.

(+) Front door lock actuator (passenger side)		(–)	Condition	Voltage (V) (Approx.)
Connector	Terminal			, , ,
D48	2	Ground -	Lock	$0 \rightarrow Battery \ voltage \rightarrow 0$
D40	1		Unlock	$0 \rightarrow Battery voltage \rightarrow 0$

#### Is the inspection result normal?

YES >> Replace front door lock actuator (passenger side). Refer to <u>DLK-396, "DOOR LOCK : Removal and Installation"</u>.

NO >> GO TO 2.

## 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.

Check continuity between BCM harness connector and front door lock actuator (passenger side) harness connector.

BCN	M	Front door lock actuator (passenger side)		Front door lock actuator (passenger side)  Continuit		Continuity
Connector	Terminal	Connector	Terminal	Continuity		
M67	65	D48	2	Exists		
IVIO7	66	D40	1	LAISIS		

Check continuity between BCM harness connector and ground.

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#### [WITHOUT INTELLIGENT KEY SYSTEM]

#### < DTC/CIRCUIT DIAGNOSIS >

	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
M67	65	Ground	Does not exist	
IVIO 7	66		Does not exist	

#### Is the inspection result normal?

YES >> Replace BCM. Refer to <a href="BCS-65">BCS-65</a>, "Exploded View".

NO >> Repair or replace harness.

REAR LH

**REAR LH: Description** 

INFOID:0000000008282059

Locks/unlocks the door with the signal from BCM.

REAR LH: Component Function Check

INFOID:0000000008282060

## 1. CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition	
DOOR LOCK/UNLOCK	ALL UNLK	The all door lock actuators are unlocked	
DOOK EOCH ONLOCK	LOCK	The all door lock actuators are locked	

#### Is the inspection result normal?

YES >> Rear door lock actuator LH is OK.

NO >> Refer to <u>DLK-294</u>, "REAR LH: <u>Diagnosis Procedure</u>".

## REAR LH: Diagnosis Procedure

INFOID:0000000008282061

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect rear door lock actuator LH connector.
- 3. Check voltage between rear door lock actuator LH connector and ground.

(+) Rear door lock	(+) Rear door lock actuator LH		Condition	Voltage (V) (Approx.)
Connector	Terminal			(11 - )
D85	1	Ground -	Lock	0  o Battery voltage  o 0
D65	2		Unlock	$0 \rightarrow Battery voltage \rightarrow 0$

#### Is the inspection result normal?

YES >> Replace rear door lock actuator LH. Refer to <u>DLK-403, "DOOR LOCK : Removal and Installation"</u>.

NO >> GO TO 2.

# 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

BCN	M	Rear door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M67	65	D85	1	Exists
IVIO7	66	D00	2	LXISIS

Check continuity between BCM harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

E	ВСМ		Continuity	
Connector	Terminal Ground		Continuity	
M67	65	Ground	Does not exist	
IVIO7	66	1	Does not exist	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

REAR RH

**REAR RH: Description** 

INFOID:0000000008282062

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Locks/unlocks the door with the signal from BCM.

REAR RH: Component Function Check

INFOID:0000000008282063

### 1. CHECK FUNCTION

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT.

Test item		Condition	
DOOR LOCK/UNLOCK	ALL UNLK	The all door lock actuators are unlocked	
BOOK EGONONEGOK	LOCK	The all door lock actuators are locked	

#### Is the inspection result normal?

YES >> Rear door lock actuator RH is OK.

NO >> Refer to <u>DLK-295</u>, "REAR RH: <u>Diagnosis Procedure</u>".

## **REAR RH**: Diagnosis Procedure

INFOID:0000000008282064

# 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect rear door lock actuator RH connector.
- Check voltage between rear door lock actuator RH harness connector and ground.

(+) Rrear door lock actuator RH		(–)	Condition	Voltage (V) (Approx.)	
Connector	Terminal			(11.5.4)	
D105	2	Ground -	Lock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	
D105	1		Unlock	$0 \rightarrow \text{Battery voltage} \rightarrow 0$	

#### Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to <u>DLK-403, "DOOR LOCK: Removal and Installation"</u>.

NO >> GO TO 2.

# 2.check door lock actuator circuit

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

BCI	M	Rear door lock actuator RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
M67	65	D105	2	Exists
WIOT	66	D103	1	LAISIS

3. Check continuity between BCM harness connector and ground.

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#### [WITHOUT INTELLIGENT KEY SYSTEM]

	BCM		Continuity
Connector	Connector Terminal		Continuity
M67	65	Ground	Does not exist
IVIO7	66		Does not exist

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

#### **BACK DOOR OPENER ACTUATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

### **BACK DOOR OPENER ACTUATOR**

Description

Opens the back door with the signal from BCM.

## Component Function Check

# INFOID:0000000008282066

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## 1. CHECK FUNCTION

Check "TRUNK/BACK DOOR" in "Active Test" mode with CONSULT.

Test item		Condition
TRUNK/BACK DOOR	:OPEN	Back door opener actuator operation

#### Is the inspection result normal?

YES >> Back door opener actuator is OK.

NO >> Refer to <u>DLK-297</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

#### INFOID:0000000008282067

# 1. CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect back door lock assembly connector.
- 3. Check voltage between back door lock assembly harness connector and ground.

<del></del>	+) ock assembly	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(* <b>.pp</b> . 674)
D190	1	Ground	Back door opener switch	Pressed	$0 \rightarrow \text{Battery voltage} \rightarrow 0$

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

1. Disconnect BCM connector.

2. Check continuity between BCM harness connector and back door lock assembly harness connector.

В	CM	Back door lock assembly		Continuity
Connector	Terminal	Connector Terminal		Continuity
M66	53	D190	1	Exists

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Connector Terminal		Continuity
M66 53			Does not exist

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

NO >> Repair or replace harness.

# 3.check back door lock assembly ground circuit

Check continuity between back door lock assembly harness connector and ground.

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### **BACK DOOR OPENER ACTUATOR**

< DTC/CIRCUIT DIAGNOSIS >

## [WITHOUT INTELLIGENT KEY SYSTEM]

Back door lo	ock assembly		Continuity
Connector	Connector Terminal		Continuity
D190	2		Exists

### Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to <u>DLK-408</u>, "DOOR LOCK: Removal and Installation".

NO >> Repair or replace harness.

# **BACK DOOR OPENER SWITCH**

Continuity

Does not exist

DTC/CIRCUIT DIAGNOS		UOHTIWJ		
BACK DOOR OPEN	IER SWITCH			
Description				INFOID:00000000082820
Sends the back door opening	g signal to BCM.			
Component Function	Check			INFOID:00000000082820
1.CHECK FUNCTION				
®With CONSULT				
Check "TRNK OPNR SW" in	"Data Monitor" mod	le with CONSULT.		
Monitor item		Conc	dition	
TRNK OPNR SW	Back do	oor opener switch is pressed	:ON	
	Back do	oor opener switch is released	:OFF	
YES >> Back door opened NO >> Refer to DLK-29	er switch is OK.	dure"		
Diagnosis Procedure	5, Diagnosis i 1006	<u> </u>		INFOID:00000000082820
<del>-</del>				
	Dener switch assemb	oly (opener switch) connec		ess connector an
Turn ignition switch OFF     Disconnect back door op	Dener switch assemb			ess connector an
<ol> <li>Turn ignition switch OFF</li> <li>Disconnect back door op</li> <li>Check voltage between ground.</li> </ol>	pener switch assemb back door opener	oly (opener switch) connec		/)
<ul> <li>Turn ignition switch OFF</li> <li>Disconnect back door op</li> <li>Check voltage between ground.</li> </ul>	pener switch assemb back door opener	oly (opener switch) connect switch assembly (opener	er switch) harne  Voltage (\	/)
Turn ignition switch OFF     Disconnect back door op     Check voltage between ground.      (+)      Back door opener sw. (opener sw.)	pener switch assemble back door opener	oly (opener switch) connect switch assembly (opener	voltage (\ (Approx.	/)
1. Turn ignition switch OFF 2. Disconnect back door op 3. Check voltage between ground.  (+)  Back door opener sw (opener sw (opener sw)  Connector  D186	pener switch assemble back door opener witch assembly ritch) Terminal	oly (opener switch) connect switch assembly (opener switch)	er switch) harne Voltage (\ (Approx.	/)
1. Turn ignition switch OFF 2. Disconnect back door op 3. Check voltage between ground.  (+)  Back door opener sw (opener sw	pener switch assemble back door opener witch assembly ritch) Terminal	oly (opener switch) connect switch assembly (opener switch)	voltage (\ (Approx.	/)
1. Turn ignition switch OFF 2. Disconnect back door op 3. Check voltage between ground.  (+)  Back door opener sw (opener sw (opener sw Tonnector)  D186  Is the inspection result normal YES >> GO TO 3.	pener switch assemble back door opener switch assembly ritch)  Terminal  1  1	coly (opener switch) connects switch assembly (opener switch)  (-)  Ground	voltage (\ (Approx.	/)
1. Turn ignition switch OFF 2. Disconnect back door op 3. Check voltage between ground.  (+)  Back door opener sw (opener sw (opener sw)  Connector  D186  Is the inspection result normal YES >> GO TO 3.  NO >> GO TO 2.  2. CHECK BACK DOOR OF 1. Turn ignition switch OFF 2. Disconnect BCM connects	pener switch assemble back door opener switch assembly ritch)  Terminal  1  PENER SWITCH CIFE.  Stor. en BCM harness of	coly (opener switch) connects switch assembly (opener switch)  (-)  Ground	Voltage (\(\lambda\) (Approx.	/) ) age
1. Turn ignition switch OFF 2. Disconnect back door op 3. Check voltage between ground.  (+)  Back door opener sw (opener sw (opener sw)  Connector  D186  Is the inspection result normal YES >> GO TO 3.  NO >> GO TO 2.  2. CHECK BACK DOOR OF  1. Turn ignition switch OFF 2. Disconnect BCM connects 3. Check continuity between	pener switch assemble back door opener switch assembly ritch)  Terminal  1  PENER SWITCH CIFE.  Stor. en BCM harness of	coly (opener switch) connect switch assembly (opener switch) (opener switch) (-)  Ground	Voltage (\(\lambda\) (Approx.  0  Battery voltage of the content o	/) ) age
1. Turn ignition switch OFF 2. Disconnect back door op 3. Check voltage between ground.  (+)  Back door opener sw (opener sw (opener sw)  Connector  D186  Is the inspection result normal YES >> GO TO 3.  NO >> GO TO 2.  2. CHECK BACK DOOR OF  1. Turn ignition switch OFF 2. Disconnect BCM connects Check continuity between ground.	pener switch assemble back door opener switch assembly ritch)  Terminal  1  PENER SWITCH CIFE.  Stor. en BCM harness of	connector and back door  Back door opener switch)  Connector switch connector and connector switch	Voltage (\(\lambda\) (Approx.  0  Battery voltage of the content o	age assembly (opene

## M65 Is the inspection result normal?

Connector

YES >> Replace BCM. Refer to BCS-65, "Exploded View".

Terminal

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**DLK-299** Revision: 2013 December **2013 ROGUE** 

Ground

#### **BACK DOOR OPENER SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

NO >> Repair or replace harness.

# ${f 3.}$ CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly (opener switch) connector and ground.

Back door opener switch (opener switch)		Continuity	
Connector	Ground		
D186	2		Exists

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Refer to <u>DLK-300</u>, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly. Refer to <u>DLK-410</u>, "Removal and Installation".

#### **5.**CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000008282071

# 1. CHECK BACK DOOR OPENER SWITCH

- 1. Turn ignition OFF.
- 2. Disconnect back door opener switch assembly (opener switch).
- 3. Check back door opener switch assembly (opener switch) terminal.

Back door opener switch assembly (opener switch)		Condition		Continuity
Terr	minal			
	2	Pressed Pressed		Exists
ı	2	Back door opener switch	Released	Does not exist

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly. Refer to <u>DLK-410</u>, "Removal and Installation".

#### HORN FUNCTION

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

## **HORN FUNCTION**

Description

Perform answer-back for each operation with horn.

## Component Function Check

# 1. CHECK FUNCTION

- 1. Select "HORN" in "Active Test" mode with CONSULT.
- 2. Check the horn (high/low) operation.

Test	item	Desc	ription
HORN	ON	Horn (high/low)	ON (for 20 ms)

#### Is the operation normal?

YES >> INSPECTION END

NO >> Refer to <u>DLK-301</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

## 1. CHECK HORN FUNCTION

Check horn function with horn switch

#### Do the horns sound?

YES >> GO TO 2.

NO >> Refer to HRN-2, "EXCEPT FOR MEXICO: Wiring Diagram - HORN -".

# 2. CHECK HORN RELAY CIRCUIT

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

IPD	IPDM E/R		Horn relay		
Connector	Terminal	Connector Terminal		Continuity	
E15	57	E5	1	Existed	

4. Check continuity between driver seat control unit harness connector and ground.

IPD	DM E/R		Continuity	
Connector	Terminal	Ground	Continuity	
E15	57		Not existed	

#### Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to <u>PCS-28</u>, "Removal and Installation".

NO >> Repair or replace harness.

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**2013 ROGUE** 

#### HAZARD FUNCTION

#### < DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

## HAZARD FUNCTION

Description INFOID:000000008282075

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

## Component Function Check

INFOID:0000000008282076

# 1. CHECK FUNCTION

Check hazard warning lamp "FLASHER" in Active Test with CONSULT.

#### Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to <u>DLK-302</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

INFOID:0000000008282077

# 1. CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-45, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace hazard warning switch circuit.

# 2. CHECK INTERMITTENT INCIDENT

Refer to GI-46, "Intermittent Incident".

>> INSPECTION END

#### **KEYFOB BATTERY**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

### **KEYFOB BATTERY**

Description INFOID:0000000008282078

Remote door lock and unlock control entry function available when operating on button.

Door lock and unlock

## Component Function Check

# 1. CHECK KEYFOB FUNCTION

Check door lock and unlock operation with keyfob switch.

#### Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to <u>DLK-303</u>, "Diagnosis Procedure".

### Diagnosis Procedure

## 1. CHECK KEYFOB BATTERY

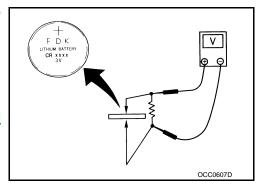
Check by connecting a resistance (approximately 300  $\Omega$ ) so that the current value becomes about 10 mA.

#### : Approx. 2.5 - 3.0 V **Standard**

Is the measurement value within the specification?

YES >> Replace keyfob.

NO >> Replace keyfob battery. Refer to DLK-411, "Exploded View".



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#### INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

### INTEGRATED HOMELINK TRANSMITTER

Description INFOID:000000008282081

Integrated Homelink Transmitter 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. Integrated Homelink Transmitter power supply uses vehicle battery, which enables it to maintain every program in case battery is discharged or removed.

### Component Function Check

INFOID:0000000008282082

### 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. Does red light of transmitter illuminate when any transmitter button is pressed?

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to <u>DLK-304, "Diagnosis Procedure"</u>.

## 3. CHECK TRANSMITTER

Check transmitter with Tool\*.

\*: For details, refer to Technical Service Bulletin.

#### Is the inspection result normal?

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

>> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to MIR-16, "Removal and Installation".

## Diagnosis Procedure

NO

INFOID:0000000008282083

## 1. CHECK POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect auto anti-dazzling inside mirror (homelink universal transceiver) connector.
- Check voltage between auto anti-dazzling inside mirror (home link universal transceiver) harness connector and ground.

(+) Auto anti-dazzling insid (Homelink universal trai	(-)	Condition	Voltage (V) (Approx.)		
Connector	or Terminal				
R9	10	Ground	Ignition switch position: LOCK	Battery voltage	
VA	6	Ground	Ignition switch position: ON	Dattery voltage	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >

- >> Check the following.
  - 10A fuse [No. 1 located in the fuse block (J/B)]
  - 10A fuse [No. 8 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

## INTEGRATED HOMELINK TRANSMITTER

#### < DTC/CIRCUIT DIAGNOSIS >

### [WITHOUT INTELLIGENT KEY SYSTEM]

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
R9	8		Existed

### Is the inspection result normal?

YES >> Replace auto anti-dazzling inside mirror.

NO >> Repair or replace harness.

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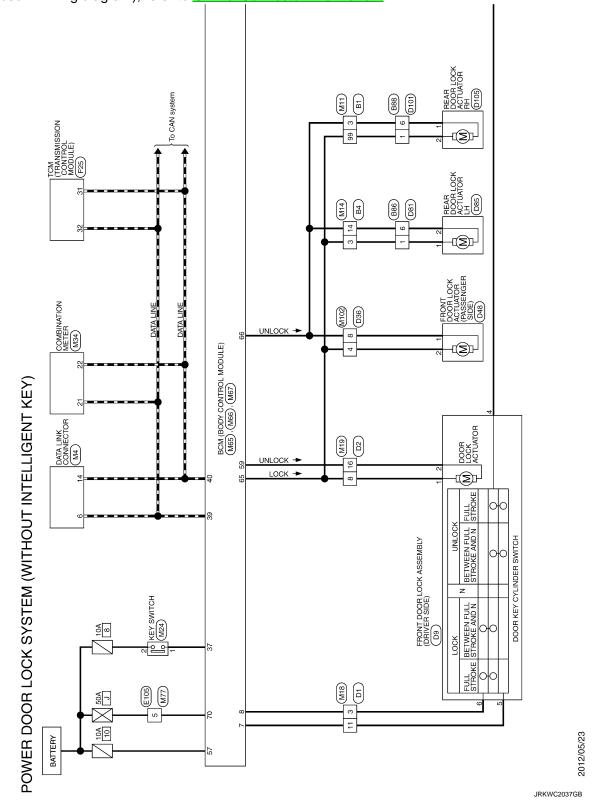
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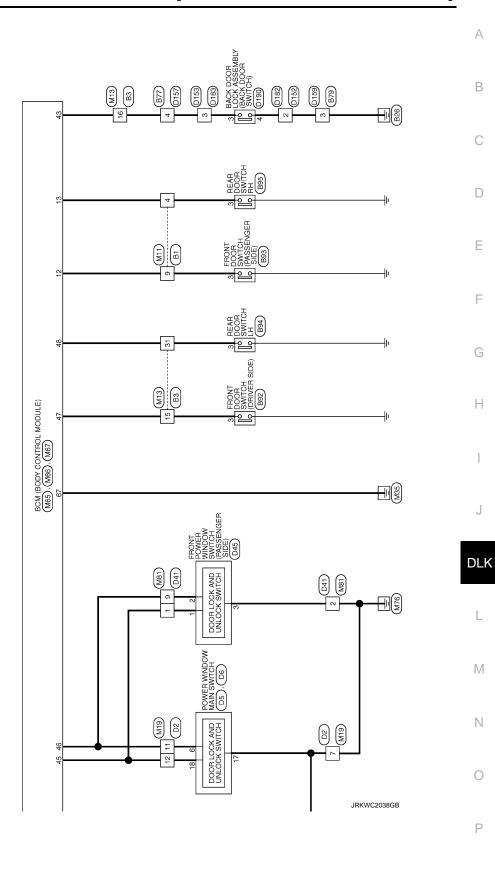
## POWER DOOR LOCK SYSTEM

# Wiring Diagram - POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY) -

NFOID:0000000008282084

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".





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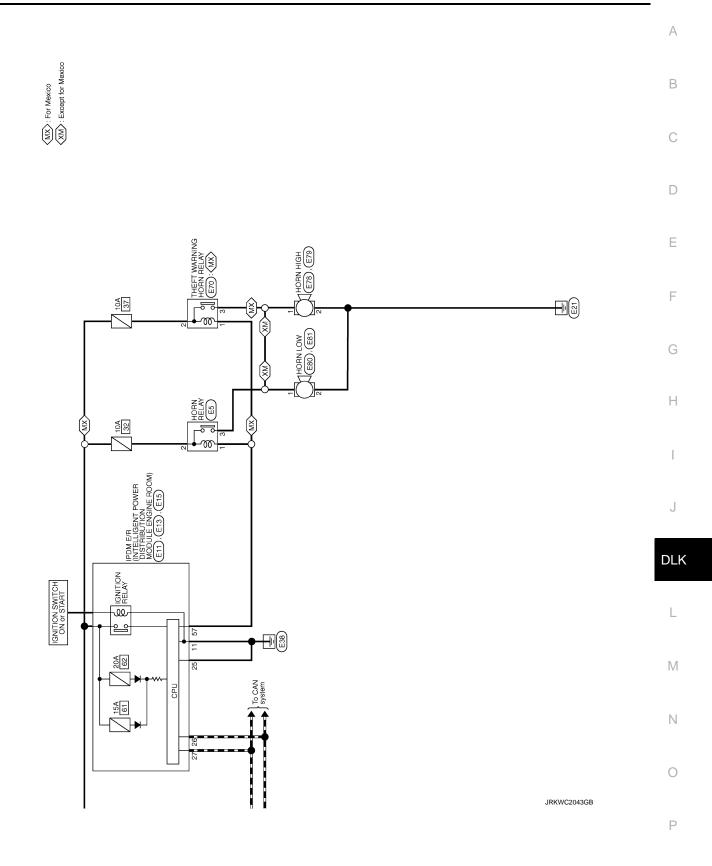
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## REMOTE KEYLESS ENTRY SYSTEM

# Wiring Diagram - REMOTE KEYLESS ENTRY SYSTEM -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not

described in wiring diagram), refer to GI-12, "Connector Information". To power door lock system (with intelligent key)
To power door lock system (without intelligent key) ◆ To back door opener system DATA LINK CONNECTOR (M4) W360 19 20 18 BCM (BODY CONTROL MODULE) (M65), (M66), (M67) REMOTE KEYLESS ENTRY RECEIVER (M91) FRONT DOOR SWITCH (PASSENGER SIDE) (B93) REMOTE KEYLESS ENTRY SYSTEM δ 8 10A SWITCH LH (B94) E105 (M77) 50A BATTERY 31 FRONT DOOR SWITCH (DRIVER SIDE) (B92) IGNITION SWITCH ACC or ON M13 B3 10**A** 2012/05/23 15

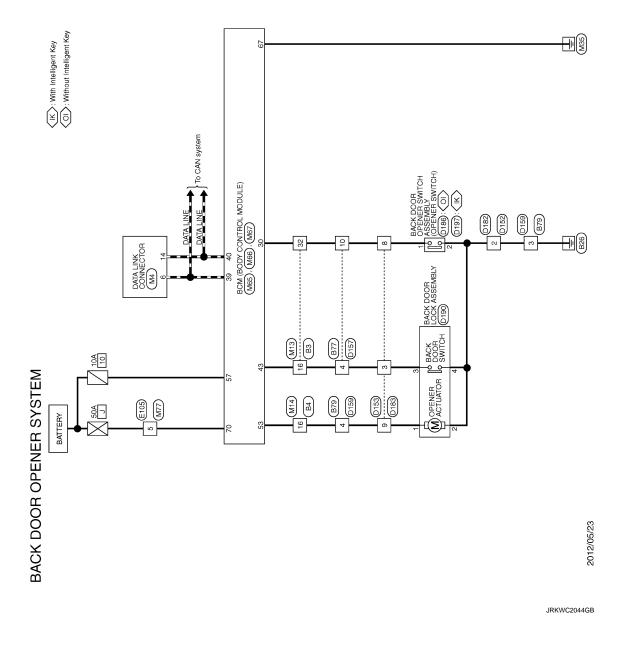


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## **BACK DOOR OPENER SYSTEM**

## Wiring Diagram - BACK DOOR OPENER SYSTEM -

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



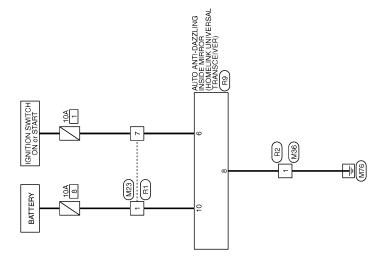
# INTEGRATED HOMELINK TRANSMITTER SYSTEM [WITHOUT INTELLIGENT KEY SYSTEM]

#### < DTC/CIRCUIT DIAGNOSIS >

## INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM - INFOID:000000008750382

For connector terminal arrangements, harness layouts, and alphabets in a  $\bigcirc$  (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



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< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

# **ECU DIAGNOSIS INFORMATION**

# BCM (BODY CONTROL MODULE)

Reference Value

### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
IGIN ON SW	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
KEY ON SW	Mechanical key is inserted to key cylinder	On
CDL LOCK CW	Door lock/unlock switch does not operate	Off
CDL LOCK SW	Press door lock/unlock switch to the lock side	On
	Door lock/unlock switch does not operate	Off
CDL UNLOCK SW	Press door lock/unlock switch to the unlock side	On
DOOD OW DD	Driver's door closed	Off
DOOR SW-DR	Driver's door opened	On
DOOD OW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOD OW DD	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
DOOD OW DI	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
DAOK DOOD OW	Back door closed	Off
BACK DOOR SW	Back door opened	On
VEV 0V 11 0W	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
KEN ON THE OW	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEVI 500 L 00K	"LOCK" button of key fob is not pressed	Off
KEYLESS LOCK	"LOCK" button of key fob is pressed	On
WEW 500 LINE 00K	"UNLOCK" button of key fob is not pressed	Off
KEYLESS UNLOCK	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON CIAI	Ignition switch OFF	Off
ACC ON SW	Ignition switch ACC or ON	On
DEAD DEE OW	Rear window defogger switch OFF	Off
REAR DEF SW	Rear window defogger switch ON	On

## < ECU DIAGNOSIS INFORMATION >

## [WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
LIGHT SW 1ST	Lighting switch OFF	Off
LIGHT OW 101	Lighting switch 1ST	On
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
BOOKLE OVV	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
AL ILLOS FAMIC	PANIC button of key fob is pressed	On
KEYLESS TRUNK	NOTE: The item is indicated, but not monitored.	Off
TRNK OPN MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
THE LOR-UNLOR	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
RKE KEEP UNLK	UNLOCK button of key fob is not pressed	Off
NNE NEEP UNLK	UNLOCK button of key fob is pressed and held	On
JI DEAM CW	Lighting switch OFF	Off
HI BEAM SW	Lighting switch HI	On
JEAD LAND OWA	Lighting switch OFF	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Turn signal switch OFF	Off
ΓURN SIGNAL R	Turn signal switch RH	On
	Turn signal switch OFF	Off
ΓURN SIGNAL L	Turn signal switch LH	On
	Engine stopped	Off
ENGINE RUN	Engine running	On
	Parking brake switch is OFF	Off
PKB SW	Parking brake switch is ON	On
CARGO LAMP SW	NOTE: The item is indicated, but not monitored.	Off
	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
	Ignition switch OFF or ACC	Off
GN SW CAN	Ignition switch ON	On

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## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
FR WIPER HI	Front wiper switch OFF	Off
TIX WIII EIXTII	Front wiper switch HI	On
FR WIPER LOW	Front wiper switch OFF	Off
TIC WII LICLOW	Front wiper switch LO	On
FR WIPER INT	Front wiper switch OFF	Off
TIC WII LICINI	Front wiper switch INT	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
I K WIF LK STOF	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer readin
RR WIPER ON	Rear wiper switch OFF	Off
KK WIFEK ON	Rear wiper switch ON	On
DD WIDED INT	Rear wiper switch OFF	Off
RR WIPER INT	Rear wiper switch INT	On
DD WACHED CW	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
	Rear wiper stop position	Off
RR WIPER STOP	Other than rear wiper stop position	On
RR WIPER STP2	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch OFF	Off
HAZARD SW	Hazard switch ON	On
DDAKE OW	Brake pedal is not depressed	Off
BRAKE SW	Brake pedal is depressed	On
EAN ON OLO	Blower fan motor switch OFF	Off
FAN ON SIG	Blower fan motor switch ON (other than OFF)	On
	<ul> <li>A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner)</li> <li>A/C switch OFF (Manual air conditioner)</li> </ul>	Off
AIR COND SW	<ul> <li>A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner)</li> <li>A/C switch ON (Manual air conditioner)</li> </ul>	On
I-KEY TRUNK	NOTE: The item is indicated, but not monitored.	Off
LIZEV DVAZ DVAZE	UNLOCK button of Intelligent Key is not pressed	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is pressed and held	On
LICEN DANIO	PANIC button of Intelligent Key is not pressed	Off
I-KEY PANIC	PANIC button of Intelligent Key is pressed	On
	Return to ignition switch to "LOCK" position	Off
PUSH SW	Press ignition switch	On
	When back door opener switch is not pressed	Off
TRNK OPNR SW	When back door opener switch is pressed	On

# < ECU DIAGNOSIS INFORMATION >

## [WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status	
TRUNK CYL SW	NOTE: The item is indicated, but not monitored.	Off	/
HOOD SW	Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed	Off	ı
	Open the hood	On	
OIL PRESS SW	Ignition switch OFF or ACC     Engine running	Off	(
	Ignition switch ON	On	
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire	
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire	-
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 DECOT EL 4	ID of front LH tire transmitter is registered	Done	
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet	
ID REGST FR1	ID of front RH tire transmitter is registered	Done	
ID KEGOT FKT	ID of front RH tire transmitter is not registered	Yet	
ID REGST RR1	ID of rear RH tire transmitter is registered	Done	
ID NEGOT KKT	ID of rear RH tire transmitter is not registered	Yet	
ID REGST RL1	ID of rear LH tire transmitter is registered	Done	
ID VEGO! KT!	ID of rear LH tire transmitter is not registered	Yet	
WARNING LAMP	Tire pressure indicator OFF	Off	
WAINING LAWE	Tire pressure indicator ON	On	
BUZZER	Tire pressure warning alarm is not sounding	Off	
DULLER	Tire pressure warning alarm is sounding	On	D

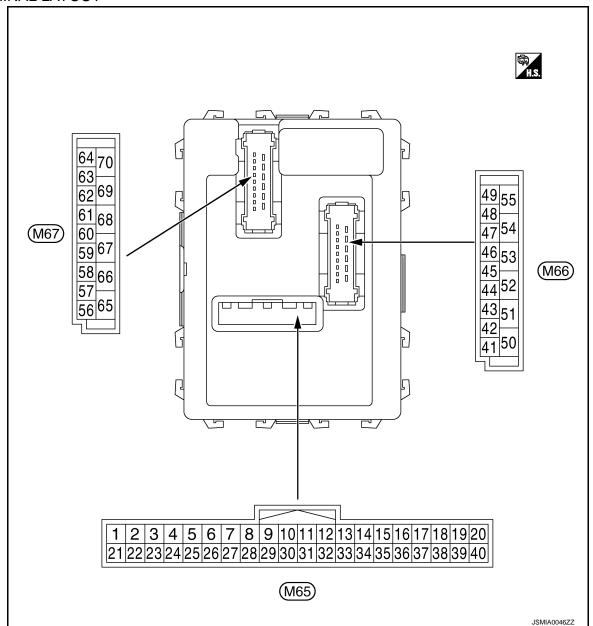
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#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

#### **CAUTION:**

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT. Refer to <a href="https://example.com/BCS-26">BCS-26</a>, "COMB SW: CONSULT Function (BCM COMB SW)".
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to <u>BCS-9</u>, "System <u>Diagram"</u>.

	Terminal No.		Description		Condition		Value (Approx.)				
(Wire color)		color)	Signal name Input/								
	+	_	Signal Hame	Output			(11 - 7				
	1	Ground	Ignition key hole illu-	Output	Output	- Output	Output	Output	Ignition key hole	OFF	Battery voltage
	(V)	Ground	mination control	Output	illumination	ON	0 V				

## < ECU DIAGNOSIS INFORMATION >

Terminal No. Descri (Wire color)		Description				Value	
+	- COIOI)	Signal name	Input/ Output		Condition	(Approx.)	
					All switch OFF	0 V	
					Turn signal switch RH	40	
					Lighting switch HI	(V) 15	
2 G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermit-	Lighting switch 1ST	10 5 0 ++10ms PKIB4959J 1.0 V	
				tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 +-10ms	
					All switch OFF	2.0 V 0 V	
					Turn signal switch LH	• • • • • • • • • • • • • • • • • • • •	
				switch	Lighting switch PASS	(V) 15 10	
3 Ground	Ground	Combination switch INPUT 4  Input  Combination switch (Wiper intermittent dial 4)			Lighting switch 2ND	10 5 0 +-10ms PKIB4959J 1.0 V	
Y)				Front fog lamp switch ON	(V) 15 10 5 0 +-10ms PKIB4955J		
					All switch OFF	0.8 V 0 V	
					Lighting switch AUTO		
					Combineties	Front wiper switch LO	(V) 15
4	Granad	Combination switch	Innut	switch	Front wiper switch MIST	10	
(W) Ground	INPUT 3	Input	(Wiper intermittent dial 4)	Front wiper switch INT	0 +10ms PKIB4959J		

## < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)	
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) Front washer switch (Wiper intermittent dial 4) Rear washer ON (Wiper intermittent dial 4) Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	0 V  15 10 5 0 PKIB4959J 1.0 V	
					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4955J 0.8 V	
		ound Combination switch INPUT 1	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V	
	Ground				Front wiper switch HI (Wiper intermittent dial 4)	(V)	
					Rear wiper switch INT (Wiper intermittent dial 4)  Wiper intermittent dial 3 (All switch OFF)	10 5 0 +-10ms PKIB4959J 1.0 V	
6 (BG)					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2	(V) 15 10 5 0 ++10ms PKIB4952J 1.7 V	
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 +-10ms PKIB4955J 0.8 V	

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		0 89		Value	Λ
+ (Wire	e color)	Signal name	Input/ Output	Condition		(Approx.)	А
7 (V)	Ground	Door key cylinder switch UNLOCK sig- nal	Input	Door key cylinder switch	NEUTRAL position	(V) 15 10 → 10ms JPMIA0587GB 8.0 - 8.5 V	С
					UNLOCK position	0 V	
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylin- der switch	NEUTRAL position	(V) <sub>15</sub> 10 5 0	E F
						<sub>ЈРМІА0587GB</sub> 8.0 - 8.5 V	G
					LOCK position	0 V	
9	Ground	Stop lamp switch	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V	Н
(R)	Ground	otop ramp ownon	mpat	switch	ON (Brake pedal is depressed)	Battery voltage	
10	Ground	Rear window defog-	Input	Rear window	Not pressed	Battery voltage	1
(SB)	Oloulia	ger switch	Прис	defogger switch	Pressed	0 V	
11	Ground	Ignition switch ACC	Input	Ignition switch O		0 V	J
(SB)		.9		Ignition switch A	CC or ON	Battery voltage	
12 (BG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	(V) <sub>15</sub> 10 5 0 → 10ms  JPMIA0586GB	DLK L
						7.5 - 8.0 V	M
					ON (When passenger door opened)	0 V	Ν
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	(V) 15 10 5 0 JPMIA0587GB 8.0 - 8.5 V	O P
					ON (When rear door RH opened)	0 V	

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
14 (G)	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle  When dark outside of the	Close to 5 V	
					vehicle	Close to 0 V	
17 (W)	Ground	Optical sensor pow- er supply	Output	Ignition switch	OFF, ACC	0 V 5 V	
18 <sup>*</sup> (R)	Ground	Receiver and sensor ground	Input	Ignition switch O		0 V	
				Without Intelligent Key system	At any condition	5 V	
19 <sup>*</sup> (V)	Ground	Remote keyless en- try receiver power supply	Input	With Intelligent Key system	Ignition switch OFF     For 3 seconds after ignition switch OFF to ON	0 V	
				ricy cyclem	3 seconds or later after ignition switch OFF to ON	5 V	
		Remote keyless entry receiver signal		Without Intelligent Key system	At any condition	(V) 15 10 5 0  PMIA0589GB  NOTE: The wave form changes according to signal-receiving condition.	
20 <sup>*</sup> (GR)	Ground		Input		Ignition switch OFF     For 3 seconds after ignition switch OFF to ON	0 V	
				With Intelligent Key system	3 seconds or later after ig- nition switch OFF to ON	(V) 15 10 5 0 JPMIA0589GB  NOTE: The wave form changes according to signal-receiving condition.	
21 (G)	Ground	NATS antenna amp.	Input/ Output	Just after insertin	g ignition key in key cylinder	Pointer of tester should move	
					ON	0 V	
23 (B)	Ground	Security indicator signal	Input	Security indicator	Blinking (Ignition switch OFF)	(V) 15 10 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
					OFF	12.0 V  Battery voltage	
-					J	Dattory voltage	

## < ECU DIAGNOSIS INFORMATION >

## [WITHOUT INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description				Value	А
+	-	Signal name	Input/ Output	Condition		(Approx.)	
25 (BR)	Ground	NATS antenna amp.	Input/ Output	Just after inserting ignition key in key cylinder		Pointer of tester should move	В
				Ignition switch OFF			
27 (Y)	Ground	A/C switch	Input	Ignition switch ON	A/C switch OFF	(V) 15 10 5 0 → 10ms JPMIA0591GB 1.6 V	C D
					A/C switch ON	0 V	Е
			Input	Ignition switch OFF			
28 (LG)	Ground	Blower fan switch		Ignition switch ON	Blower fan switch OFF	(V) <sub>15</sub> 10 5 010ms	F G
					Diamer for quital ON	7.0 - 7.5 V	Н
					Blower fan switch ON	0 V	
29 (W)	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage	
					ON	0 V	
30 (G)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed Pressed	Battery voltage  0 V	
		- CHILOTT		eponor ownor	riesseu	U V	J
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	DLK
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15	M
					Rear wiper switch ON (Wiper intermittent dial 4)  Any of the condition below with all switch OFF  • Wiper intermittent dial 1	15 10 5 0 → +10ms	N
					Wiper intermittent dial 2     Wiper intermittent dial 6     Wiper intermittent dial 7	PKIB4956J 1.0 V	0

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## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
+ (Wire	color)	Signal name	Input/ Output	Condition		(Approx.)	
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	
					Lighting switch 1ST (Wiper intermittent dial 4)		
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10	
					Rear wiper switch INT (Wiper intermittent dial 4)	0	
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	PKIB4958J 1.2 V	
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 + 10ms PKIB4960J 7.2 V	
34 (SB)	Ground	Combination switch OUTPUT 3	Output	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)		
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10	
					Rear washer switch ON (Wiper intermittent dial 4)	0	
					Any of the condition below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	РКIВ4958J 1.2 V	

# < ECU DIAGNOSIS INFORMATION >

## [WITHOUT INTELLIGENT KEY SYSTEM]

Terminal No.		Description				Value	
+	e color)	Signal name	Input/ Output	Condition		(Approx.)	
				Combination	All switch OFF	(V) 15 10 5 0 ++10ms PKIB4960J	
35 (B)	Ground	Combination switch OUTPUT 2	Output	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Lighting switch PASS Front wiper switch INT	7.2 V	
					Front wiper switch HI	0 +10ms PKIB4958J	
36 (V)	Cround	Combination switch OUTPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	(V) 15 10 5 0 ++10ms PKIB4960J 7.2 V	
	Ground				Turn signal switch RH Turn signal switch LH Front wiper switch LO (Front wiper switch MIST) Front washer switch ON	(V) 15 10 5 0  PKIB4958J 1.2 V	
37 (LG)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder  Remove mechanical key from ignition key cylinder		Battery voltage	
38 (G)	Ground	Ignition switch ON	Input	Ignition switch OFF or ACC Ignition switch ON or START		0 V Battery voltage	
39 (L)	Ground	CAN-H	Input/ Output	——————————————————————————————————————		—	
40 (P)	Ground	CAN-L	Input/ Output	_		_	

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Terminal No. (Wire color)		Description		0-11		Value
+	-	Signal name	Input/ Output	Condition		(Approx.)
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	(V) <sub>15</sub> 10 5 0 
					ON (When back door opened)	0 V
44		Rear wiper auto stop		Ignition switch	Rear wiper stop position	0 V
(B)	Ground	position	Input	ON SWITCH	Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 10 MIN 10 M
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK sig- nal	Input	Door lock and unlock switch	NEUTRAL position	(V) 15 10 5 0 JPMIA0591GB 1.6 V
					UNLOCK position	0 V
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	(V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
					(When driver door opened)	0 V

### **BCM (BODY CONTROL MODULE)**

### < ECU DIAGNOSIS INFORMATION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

Terminal No. Description (Wire color)					Value		
+	e color)	Signal name	Input/ Output	Condition		(Approx.)	
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	(V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V	
					ON (When rear door LH opened)	0 V	
49	Ground	Luggage room lamp	Output	Luggage room lamp switch	Back door is closed (Luggage room lamp turns OFF)	Battery voltage	
(L)	Giodila	control	Output	DOOR position	Back door is opened (Luggage room lamp turns ON)	0 V	
53	Ground	Back door open	Output	Back door	Not pressed (Back door actuator is activated)	0 V	
(V)	Giouna	Back door open	opener switch	opener switch	opener switch	Pressed (Back door actuator is activated)	Battery voltage
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF Rear wiper switch ON	0 V Battery voltage	
56	Ground	Interior room lamp	Output	After passing the saver operation	interior room lamp battery	0 V	
(Y)	Ground	power supply	Output		fter passing the interior room ver operation time	Battery voltage	
57 (G)	Ground	Battery power sup- ply	Input	Ignition switch O	FF	Battery voltage	
59	Ground	Driver door UN-	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage	
(L)	Ground	LOCK	Odiput	Dilver door	Other then UNLOCK (Actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 PKIC6370E	

### **BCM (BODY CONTROL MODULE)**

### < ECU DIAGNOSIS INFORMATION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output	Condition		(Approx.)
					Turn signal switch OFF	0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1s 1s PKIC6370E
63	Ground	Interior room lamp	Outnut	Interior room	OFF	Battery voltage
(R)	Ground	timer control	Output	lamp	ON	0 V
65	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Ground	All doors LOCK	Output	All doors	Other then LOCK (Actuator is not activated)	0 V
66	Cround	Passenger door and	Outenut	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	rear door UNLOCK	Output	and rear door	Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch Ol	N	0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (P)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
70 (Y)	Ground	Battery power sup- ply	Input	Ignition switch Ol	FF.	Battery voltage

<sup>\*:</sup> Except for Mexico with Intelligent Key

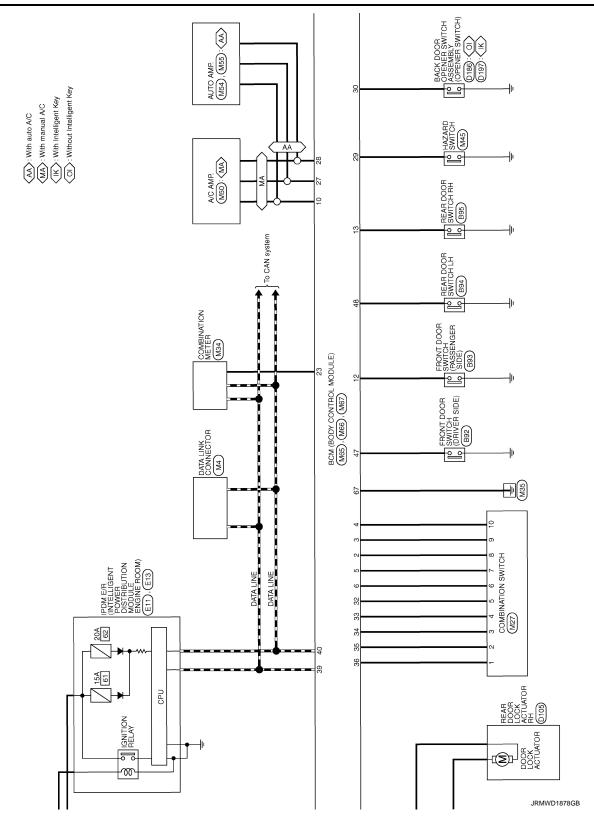
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### Wiring Diagram - BCM -

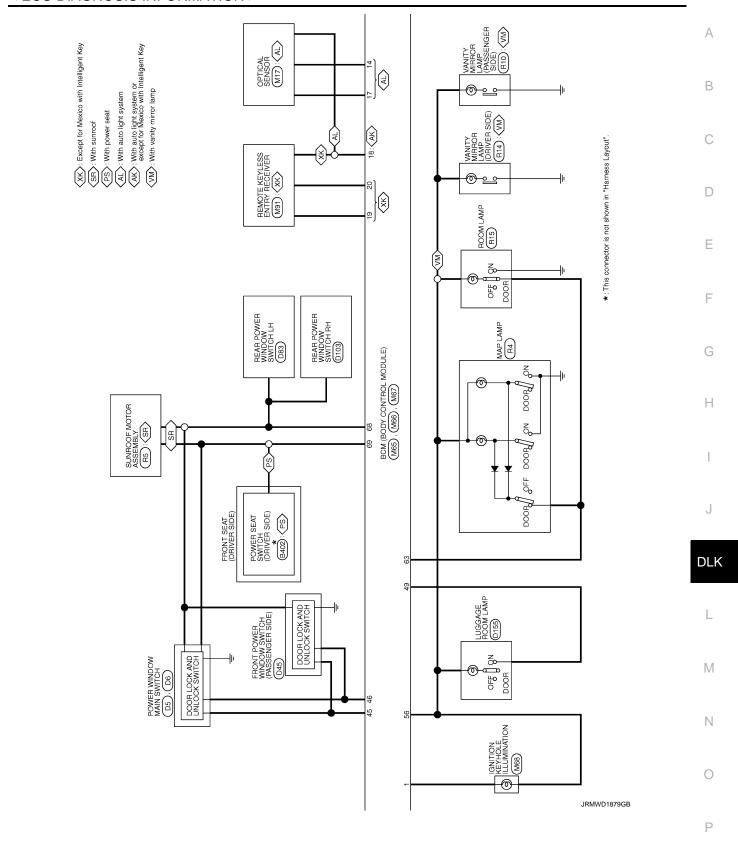
For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not

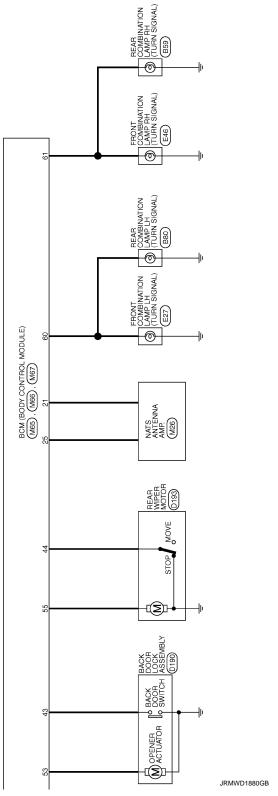
described in wiring diagram), refer to GI-12, "Connector Information". В (IK): With Intelligent Key (OI): Without Intelligent Key C D STOP LAMP SWITCH (E115) Е F To CVT shift lock system GNITION SWITCH ON or START BCM (BODY CONTROL MODULE)
(M65), (M66), (M67) Н IGNITION SWITCH ACC or ON J DLK 20A □ BCM (BODY CONTROL MODULE) M Ν 0 2012/05/23 INTELLIGENT KEY UNIT (M40): < IK BATTERY Р ത JRMWD1877GB



### **BCM (BODY CONTROL MODULE)**

### [WITHOUT INTELLIGENT KEY SYSTEM]





Fail-safe

#### REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

### **BCM (BODY CONTROL MODULE)**

#### < ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 1. Pass more than 1 minute after the rear wiper stop.
- 2. Turn the rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

### DTC Inspection Priority Chart

INFOID:0000000008741718

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

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RL</li> <li>C1716: [PRESS DATA ERR] FL</li> <li>C1717: [PRESS DATA ERR] FR</li> <li>C1718: [PRESS DATA ERR] RR</li> <li>C1719: [PRESS DATA ERR] RR</li> <li>C1729: VHCL SPEED SIG ERR</li> </ul>

DTC Index

#### NOTE:

Details of time display

CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.

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

CONSULT display	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	_	BCS-34
C1704: LOW PRESSURE FL	×	
C1705: LOW PRESSURE FR	×	WT-14
C1706: LOW PRESSURE RR	×	<u>vv 1-14</u>
C1707: LOW PRESSURE RL	×	
C1708: [NO DATA] FL	×	
C1709: [NO DATA] FR	×	\N/T 16
C1710: [NO DATA] RR	×	<u>WT-16</u>
C1711: [NO DATA] RL	×	
C1716: [PRESS DATA ERR] FL	×	·
C1717: [PRESS DATA ERR] FR	×	WT 40
C1718: [PRESS DATA ERR] RR	×	<u>WT-19</u>
C1719: [PRESS DATA ERR] RL	×	
C1729: VHCL SPEED SIG ERR	×	<u>WT-21</u>
C1735: IGN CIRCUIT OPEN	_	BCS-35

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### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTEM]

### < ECU DIAGNOSIS INFORMATION >

### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Reference Value INFOID:0000000008741720

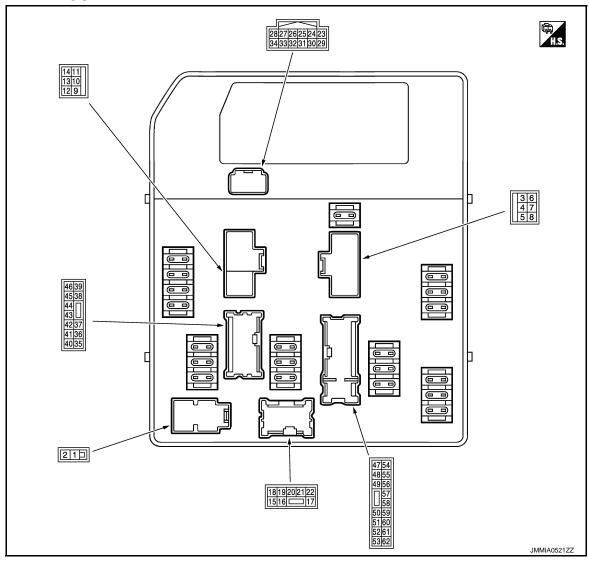
### VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
MOTOR FAN REQ	Engine idle speed	Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc.	1 - 4
		A/C switch OFF	Off
AC COMP REQ	Engine running	A/C switch ON (Compressor is operating)	On
TAIL & CLD DEO	Lighting switch OFF		Off
TAIL&CLR REQ	Lighting switch 1ST or 2ND		On
HI LO BEO	Lighting switch OFF		Off
HL LO REQ	Lighting switch 2ND		On
JI LII DEO	Lighting switch OFF		Off
HL HI REQ	Lighting switch HI (Light is i	lluminated)	On
FR FOG REQ		Front fog lamp switch OFF	Off
NOTE: This item is monitored only on the vehicle with front fog lamp.	Lighting switch 2ND	Front fog lamp switch ON	On
		Front wiper switch OFF	Stop
	Inviting assistate ON	Front wiper switch INT	1LOW
FR WIP REQ	Ignition switch ON	Front wiper switch LO	Low
		Front wiper switch HI	Hi
		Front wiper stop position	STOP P
WIP AUTO STOP	Ignition switch ON	Any position other than front wiper stop position	ACT P
		Front wiper operates normally	Off
WIP PROT	Ignition switch ON	Front wiper stops at fail-safe operation	BLOCK
ST RLY REQ NOTE:	When Intelligent Key is outs is pushed	side the vehicle, and the push switch	Off
Vehicle without Intelligent Key system indicates only "ON", and it does not change.	When Intelligent Key is inside pushed	de the vehicle, and the push switch is	On
GN RLY	Ignition switch OFF or ACC		Off
GN ILLI	Ignition switch ON		On
		Rear window defogger switch OFF	Off
RR DEF REQ	Ignition switch ON	Rear window defogger switch ON (Rear window defogger is operating)	On
OIL D OW	Ignition switch OFF, ACC or engine running		Open
OIL P SW	Ignition switch ON		Close
OTRL REQ	Daytime running light syste	m is not operated.	Off
NOTE: This item is monitored only on the vehicle with the daytime running light system.	Daytime running light system	m is operated.	On

## IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) < ECU DIAGNOSIS INFORMATION > [WITHOUT INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
HOOD SW	Close the hood	Off
<b>NOTE:</b> This item is monitored only the vehicle for Mexico.	Open the hood	On
	Not operation	Off
THFT HRN REQ	Horn is activated with vehicle security system or panic alarm system.	On
HODNI CHIRD	Not operation	Off
HORN CHIRP	Horn is activated with key fob LOCK operation.	On

### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	nal No.				Value
	Wire color) Signal name Input/		Condition	(Approx.)	
+	-	<u> </u>	Output		
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

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### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description			Value	
+	-	Signal name	Input/ Output	(	Condition	(Approx.)
3	Cround	Ctarter relay newer supply	Output	When engine is clar	nking	Battery voltag
(L)	Ground	Starter relay power supply	Output	When engine is not	When engine is not clanking	
4	Ground	Cooling fan relay-1 power	Output	Cooling fan opera-	OFF	0 V
(W)	Ground	supply	Output	tion	MID or HI	Battery voltag
5	Ground	Ignition switch START	Input	Ignition switch OFF,	ACC or ON	0 V
(R)	Oround	ignition switch on the	mpat	Ignition switch STAF	RT	Battery voltag
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltag
7	Ground	Cooling fan motor-2 (HI)	_	Cooling fan opera-	OFF	Battery voltag
(P)	Ground	ground		tion	HI	0 V
8	Ground	Cooling fan relay-2 power	Output	Cooling fan opera-	OFF	0 V
(G)	Ground	supply	Output	tion	HI	Battery voltag
11 (B)	Ground	Ground	_	Ignition switch ON		0 V
12	Ground	Rear window defogger re-	Output	Ignition switch ON	Rear window defogger switch OFF	0 V
(G)	Ground	lay power supply	Output	Output Ignition switch ON	Rear window defogger switch ON	Battery voltag
15 <sup>*1</sup>	Cround	Daytime running light relay	0	Daytime running	Not operated	Battery voltag
(SB)	Ground	control	Output	light system	Operated	0 V
16 <sup>*2</sup>	Ground	d Front fog lamp (LH)	Output	Lighting switch 2ND	Front fog lamp switch OFF	0 V
(Y)	Ground	Tront log lamp (Em)	Output		Front fog lamp switch ON	Battery voltag
17 <sup>*2</sup>	Ground	Front fog lamp (RH)	Output ,	Lighting switch	Front fog lamp switch OFF	0 V
(W)	Orouna	Tront log lamp (Kiri)	Output	2ND	Front fog lamp switch ON	Battery voltag
18	Ground	Headlamp LO (LH)	Output	Lighting switch OFF		0 V
(L)	0.00	11000000011P 20 (21.1)		Lighting switch 2ND		Battery voltag
20	Ground	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
(SB)				Lighting switch 2ND		Battery voltag
				Lighting switch OFF		0 V
21 (G)	Ground	Headlamp HI (LH)	Output	<ul><li>Lighting switch 2ND and HI</li><li>Lighting switch PASS</li></ul>		Battery voltag
				Daytime running ligh	7.0 V	
				Lighting switch OFF		0 V
22 (LG)	Ground	Headlamp HI (RH)	Output	<ul><li>Lighting switch 2N</li><li>Lighting switch PA</li></ul>		Battery voltag
				Daytime running ligh	nt system Operated*1	7.0 V
23	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V
(W)	Giodila	On pressure switch	iriput	Ignition Switch ON	Engine running	Battery voltag
24					Front wiper stop position	0 V
(Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Any position other than front wiper stop position	Battery voltag
25 (B)	Ground	Ground	_	Ignition switch ON		0 V
26 (P)	_	CAN-L	Input/ Output		_	_

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### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTÉM]

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
27 (L)	_	CAN-H	Input/ Output		_	_
31	Cround	Cooling for roley 4 central	Output	Cooling fan opera-	OFF	Battery voltage
(LG)	Ground	Cooling fan relay-4 control	Output	tion	LO	0 - 1.0 V
22		Thurstille constrail resistance			ximately 2 seconds or more ition switch from ON to OFF	Battery voltage
32 (V)	Ground	Throttle control motor re- lay control	Input	<ul> <li>Ignition switch ON</li> <li>For approximately tion switch from C</li> </ul>	/ 2 seconds after turning igni-	0 - 1.0 V
				Ignition switch OFF		0 V
33 (GR)	Ground	Fuel pump relay control	Input		Engine stopped	Battery voltage
(GR)				Ignition switch ON	Engine running	0.8 V
34 <sup>*3</sup>	_			Close the hood	-	Battery voltage
(W)	Ground	Hood switch	Input	Open the hood		0 V
37		Tail, license plate lamps		Lighting switch OFF		0 V
(R)	Ground	and illuminations	Output	Lighting switch 1ST		Battery voltage
38				Lighting switch OFF		0 V
(R)	Ground	Parking lamp (LH)	Output	Lighting switch 1ST		Battery voltage
39				Lighting switch OFF		0 V
(GR)	Ground	Parking lamp (RH)	Output	Lighting switch 1ST		Battery voltage
40				Ignition switch OFF or ACC		0 V
(BR)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
41				Ignition switch OFF or ACC		0 V
(W)	Ground	Ignition relay power supply	Output	Ignition switch ON		Battery voltage
42				J	Front wiper switch OFF	0 V
42 (L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch HI	Battery voltage
43					Front wiper switch OFF	0 V
(G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch LO	Battery voltage
					Selector lever "P" or "N"	Battery voltage
45 (Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever in any position other than "P" or "N"	0 V
46	Crown	Fuel pump relay power	Outer	After passing appropriate the second se	Ignition switch OFF or ACC     After passing approximately 1 second or more after turning the ignition switch ON	
(W)	Ground	supply	Output		<ul> <li>For approximately 1 second after turning the ignition switch ON</li> <li>Engine running</li> </ul>	
47					ximately 4 seconds or more ition switch from ON to OFF	0 V
(BR)	Ground	ECM relay power supply	Output	<ul> <li>For approximately</li> </ul>	<ul> <li>Ignition switch ON</li> <li>For approximately 4 seconds after turning ignition switch from ON to OFF</li> </ul>	
48					ximately 4 seconds or more ition switch from ON to OFF	0 V
(R)	Ground	ECM relay power supply	Output	<ul> <li>Ignition switch ON</li> <li>For approximately tion switch from O</li> </ul>	4 seconds after turning igni-	Battery voltage

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### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTÉM]

<	ECU	DIAGNOSIS	INFORM	AATION >
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	nal No.	Description				Value						
+ (vvire	color)	Signal name	Input/ Output		Condition							
50	Cravad	Cooling for roles E control	0	Cooling fan opera-	OFF	Battery voltage						
(G)	Ground	Cooling fan relay-5 control	Output	tion	MID or HI	0 - 1.0 V						
51					kimately 4 seconds or more tion switch from ON to OFF	Battery voltage						
(L)	Ground	ECM relay control	Output	Ignition switch ON     For approximately tion switch from C	4 seconds after turning igni-	0 - 1.0 V						
52		Throttle control motor re-			kimately 2 seconds or more tion switch from ON to OFF	0 V						
(P)	Ground	lay power supply	Output	Ignition switch ON     For approximately 2 seconds after turning ignition switch from ON to OFF		Battery voltage						
				Engine stopped		0 V						
55	55	und A/C relay power supply			A/C switch OFF	0 V						
(BG)	Ground		Output	Output	Output	Output	Output	Output	Output	Output	Engine running	A/C switch ON (A/C compressor is operating)
56	Ground	Ignition switch ON	Input	Ignition switch OFF	or ACC	0 V						
(SB)	Giodila	Igrition switch ON	iliput	Ignition switch ON		Battery voltage						
57	Ground	Horn relay control	Output	The horn is not activ	rated	Battery voltage						
(V)	Ground	Hom relay control	Output	The horn is activated		0 V						
58	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V						
(LG)	Crouna	ignition rolay power supply	Catpat	Ignition switch ON		Battery voltage						
59	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V						
(BR)	0.00.10	igililion rollay portor cappiy		Ignition switch ON		Battery voltage						
60	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V						
(SB)	2.304	5 po cappiy		Ignition switch ON	Ignition switch ON							
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage						

<sup>\*1:</sup> With daytime running light system

<sup>\*2:</sup> With front fog lamp system

<sup>\*3:</sup> For Mexico

### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTEM]

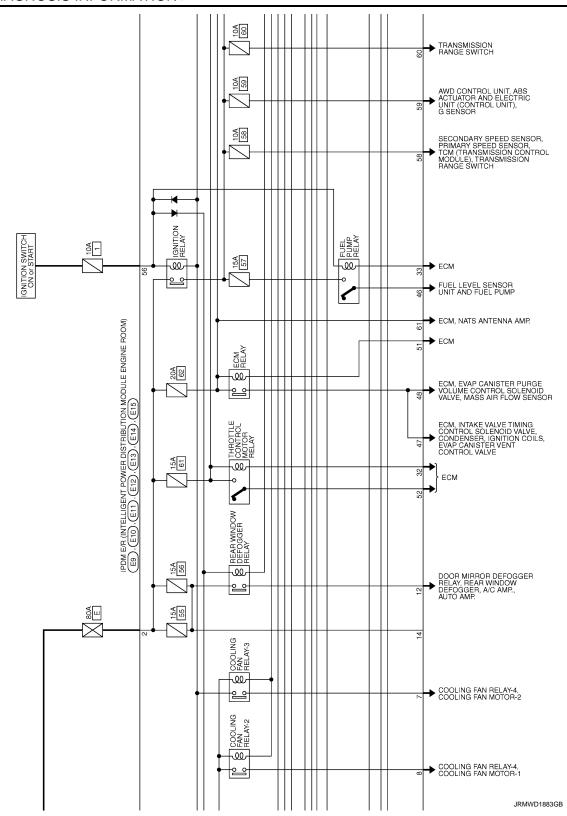
< ECU DIAGNOSIS INFORMATION >

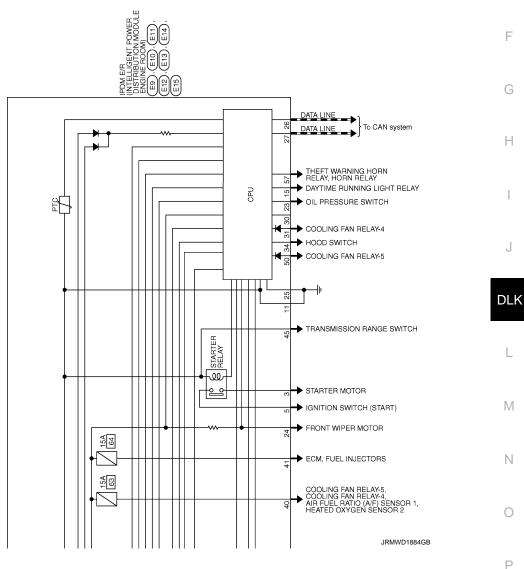
Wiring Diagram - IPDM E/R -INFOID:0000000008741721 Α For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information" В COOLING FAN RELAY-1 W COOLING FAN MOTOR-1 D 10A 51 ىلە Е COMPRESSOR F 30A 48 W ھ FRONT WIPER MOTOR PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

(E9) (E10) (E11) (E12) (E13) (E14) (E15) TAIL LAMP RELAY FRONT COMBINATION LAMP RH (PARKING, SIDE MARKER) 10A Н FRONT COMBINATION LAMP LH (PARKING, SIDE MARKER) യ TAIL / SIDE MARKER / LICENSE PLATE / ILLUMINATION LAMPS HEADLAMP LOW RH ۵۵ HEADLAMP LOW LH DLK 10A HEADLAMP HIGH RH M Ν <u>w</u> → HEADLAMP HIGH LH യ FRONT FOG LAMP RH 2012/05/23 FRONT FOG LAMP LH Ρ

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### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTEM]





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#### Fail-safe INFOID:0000000008741722

#### CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If no CAN communication is available with ECM

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### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Control part	Fail-safe in operation
Cooling fan	<ul> <li>The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn ON when the ignition switch is turned ON</li> <li>The cooling fan relay-1, the cooling fan relay-2, the cooling fan relay-3 and the cooling fan relay-5 turn OFF when the ignition switch is turned OFF</li> <li>Cooling fan relay-4 OFF</li> </ul>
A/C compressor	A/C relay OFF

#### If no CAN communication is available with BCM

Control part	Fail-safe in operation
Headlamp	<ul> <li>The headlamp low relay turns ON when the ignition switch is turned ON</li> <li>The headlamp low relay turns OFF when the ignition switch is turned OFF</li> <li>Headlamp high relay OFF</li> </ul>
<ul><li>Parking lamps</li><li>License plate lamps</li><li>Tail lamps</li><li>Illuminations</li></ul>	<ul> <li>The tail lamp relay and the daytime running light relay* turn ON when the ignition switch is turned ON</li> <li>The tail lamp relay and the daytime running light relay* turn OFF when the ignition switch is turned OFF</li> </ul>
Front wiper	<ul> <li>The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed.</li> <li>The front wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating.</li> </ul>
Front fog lamps	Front fog lamp relay OFF
Starter motor	Starter relay OFF
Rear window defogger	Rear window defogger relay OFF
Horn	Horn relay OFF

#### NOTE:

#### IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors status of ignition relay by the voltage at ignition relay contact circuit inside it.
- IPDM E/R judges that the ignition relay is error, if status of the ignition relay and ignition switch ON signal
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay and daytime running light relay\* for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

Detection		IDDM E/P judament	Operation	
Ignition switch ON signal	Ignition relay	- IPDM E/R judgment	Operation	
ON	ON	Ignition relay normal	_	
OFF	OFF	Ignition relay normal	_	
OFF	ON	Ignition relay ON stuck	Turn on the tail lamp relay and daytime running light relay* for 10 minutes	
ON	OFF	Ignition relay OFF stuck	Detect DTC "B2099: IGN RELAY OFF"	

#### NOTE:

#### FRONT WIPER CONTROL

IPDM E/R detects the front wiper stop position with the front wiper stop position signal.

When the front wiper stop position signal is in the conditions listed below, IPDM E/R repeats a front wiper 10 seconds operation and 20 seconds stop five times.

<sup>\*:</sup> With daytime running light system

<sup>\*:</sup> With daytime running light system

### IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) [WITHOUT INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Ignition switch	Front wiper switch	Front wiper stop position signal
ON -	OFF	The front wiper stop position signal (stop position) cannot be input for 10 seconds.
	ON	The front wiper stop position signal does not change for 10 seconds.

#### NOTE:

This operation status can be confirmed on the IPDM E/R "Data Monitor" that displays "BLOCK" for the item "WIP PROT" while the wiper is stopped.

DTC Index INFOID:0000000008741723

CONSULT display	Fail-safe	Timin	g <sup>NOTE</sup>	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	×	CRNT	PAST	PCS-13
B2099: IGN RELAY OFF	_	CRNT	PAST	PCS-14

#### NOTE:

The details of time display are as follows.

- CRNT: The malfunctions that are detected now.
- · PAST: The number is indicated when it is normal at present and a malfunction was detected in the past.

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#### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITHOUT INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

### SYMPTOM DIAGNOSIS

### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK **SWITCH**

**ALL DOOR** 

ALL DOOR: Description

INFOID:0000000008282097

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR: Diagnosis Procedure

INFOID:0000000008282098

### ${f 1}$ .CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Check BCM power supply and ground circuit.

Refer to DLK-275, "BCM: Diagnosis Procedure" (BCM).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.check driver side door lock and unlock switch

Check driver side door lock and unlock switch.

Refer to DLK-280, "DRIVER SIDE: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3.CHECK PASSENGER SIDE DOOR LOCK AND UNLOCK SWITCH

Check passenger side door lock and unlock switch.

Refer to DLK-281, "PASSENGER SIDE: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning.

#### CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to DLK-292, "DRIVER SIDE: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

#### 5.CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YFS >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE

#### **DRIVER SIDE: Description**

INFOID:0000000008282099

Driver side door does not lock/unlock using door lock and unlock switch.

#### DRIVER SIDE: Diagnosis Procedure

INFOID:0000000008282100

### 1.CHECK DRIVER SIDE DOOR LOCK ACTUATOR

Check driver side door lock actuator.

Refer to DLK-292, "DRIVER SIDE: Component Function Check".

#### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITHOUT INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > Is the inspection result normal? Α YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE D PASSENGER SIDE : Description INFOID:0000000008282101 Passenger side door does not lock/unlock using door lock and unlock switch. Е PASSENGER SIDE: Diagnosis Procedure INFOID:0000000008282102 1. CHECK PASSENGER SIDE DOOR LOCK ACTUATOR Check passenger side door lock actuator. Refer to DLK-293. "PASSENGER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.confirm the operation Н Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1. REAR LH REAR LH: Diagnosis Procedure INFOID:0000000008282103 1. CHECK DOOR LOCK ACTUATOR DLK Check door lock actuator LH. Refer to DLK-79, "REAR LH: Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. M 2.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? N YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1. REAR RH **REAR RH**: Diagnosis Procedure INFOID:0000000008282104 Р 1. CHECK DOOR LOCK ACTUATOR Check door lock actuator RH. Refer to DLK-81, "REAR RH: Component Function Check". Is the inspection result normal?

YES

NO

>> GO TO 2.

>> Repair or replace the malfunctioning parts.

### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITHOUT INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

### 2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

>> GO TO 1. NO

### **KEY REMINDER FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Diagnosis Procedure  1. CHECK KEY SWITCH  Check key switch. Refer to DLK-284, "Component Function Check".  s the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.  2. CONFIRM THE OPERATION  Confirm the operation again.	KEY REMINDER FUNCTION DOES NOT OPERATE	SENT RET STSTEM]
Check key switch. Refer to DLK-284, "Component Function Check".  s the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.  CONFIRM THE OPERATION Confirm the operation again. s the result normal? YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".		INFOID:0000000008282105
Refer to DLK-284, "Component Function Check".  s the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.  CONFIRM THE OPERATION  Confirm the operation again.  s the result normal?  YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".	1.check key switch	
s the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.  2. CONFIRM THE OPERATION  Confirm the operation again. s the result normal? YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".	Check key switch.  Refer to DLK-284 "Component Function Check"	
NO >> Repair or replace the malfunctioning parts.  2. CONFIRM THE OPERATION  Confirm the operation again.  s the result normal?  YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".	Is the inspection result normal?	
Confirm the operation again.  s the result normal?  YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".	NO >> Repair or replace the malfunctioning parts.	
s the result normal?  YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".		
	Is the result normal?	

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## DOOR DOES NOT LOCK/UNLOCK WITH MECHANICAL KEY

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

### DOOR DOES NOT LOCK/UNLOCK WITH MECHANICAL KEY

### Diagnosis Procedure

INFOID:0000000008282106

### 1. CHECK KEY CYLINDER SWITCH

Check key cylinder switch

Refer to DLK-286, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2. CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

### DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB	А
Diagnosis Procedure	
1. CHECK REMOTE KEYLESS ENTRY RECEIVER	В
Check remote keyless entry receiver.  Refer to DLK-289, "Component Function Check".	
Is the inspection result normal?	С
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.  2.CHECK DOOR SWITCH	D
Check door switch.	
Refer to DLK-276, "Component Function Check".	Е
Is the inspection result normal?	
YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	F
3.CHECK KEYFOB BATTERY	
Check keyfob battery. Refer to <u>DLK-303</u> , "Component Function Check". Is the inspection result normal?	G
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	Н
4.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".  NO >> GO TO 1.	J

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#### PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

### PANIC ALARM FUNCTION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000008282108

1. CHECK PANIC ALARM SET SETTING WITH CONSULT

Check "PANIC ALARM SET" setting in "WORK SUPPORT"

Refer to DLK-271, "MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT)".

Is the inspection result normal?

YES >> Check vehicle security system. Refer to <u>SEC-134, "System Diagram"</u>

NO >> Set "PANIC ALARM SET" setting in "WORK SUPPORT".

## SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY CYLINDER SWITCH

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

# SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY CYL-INDER SWITCH

INFOID:0000000008282109

**Diagnosis Procedure** 

 $1. {\sf check "Door lock-unlock set" setting with consult}\\$ 

Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".

Refer to DLK-270, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

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### SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY FOB

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

### SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY FOB

### Diagnosis Procedure

INFOID:0000000008282110

1. CHECK "DOOR LOCK-UNLOCK SET" SETTING WITH CONSULT

Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".

Refer to DLK-270, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-65, "Removal and Installation".

NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

#### **AUTO DOOR LOCK OPERATION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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## AUTO DOOR LOCK OPERATION DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000008282111 1. CHECK "AUTO LOCK SET" SETTING WITH CONSULT В Check "AUTO LOCK SET" setting in "WORK SUPPORT". Refer to DLK-270, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)". C Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. D 2.CONFIRM THE OPERATION Confirm the operation again. Is the result normal? Е YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1. F Н J DLK M Ν

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#### **BACK DOOR DOES NOT OPENED**

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

#### BACK DOOR DOES NOT OPENED

### Diagnosis Procedure

INFOID:0000000008282112

### 1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to DLK-299, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2. CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.

Refer to DLK-297, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3.check vehicle speed signal circuit

Check vehicle speed signal "VEHICLE SPEED" in Data monitor.

Refer to DLK-272, "TRUNK: CONSULT Function (BCM - TRUNK) (WITHOUT INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

#### 4. CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

### HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

### HAZARD REMINDER OPERATION DOES NOT OPERATE Diagnosis Procedure INFOID:0000000008282113 1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT Check "HAZARD LAMP SET" setting in "WORK SUPPORT". Refer to DLK-271, "MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT)". Is the inspection result normal? YES >> GO TO 2.

>> Set "HAZARD LAMP SET" setting in "WORK SUPPORT". Refer to DLK-271, "MULTIREMOTE

ENT: CONSULT Function (BCM - MULTIREMOTE ENT)". 2.CHECK HAZARD FUNCTION

Check hazard function. Refer to DLK-302, "Component Function Check"

Is the inspection result normal?

YES >> GO TO 3.

NO

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

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**DLK-353** Revision: 2013 December **2013 ROGUE** 

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#### HORN REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

#### HORN REMINDER OPERATION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000008282114

### 1. CHECK "HORN CHIRP SET" SETTING WITH CONSULT

Check "HORN CHIRP SET" setting in "WORK SUPPORT".

Refer to DLK-271, "MULTIREMOTE ENT: CONSULT Function (BCM - MULTIREMOTE ENT)".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "HORN CHIRP SET" setting in "WORK SUPPORT". Refer to <u>DLK-271, "MULTIREMOTE ENT</u> : <u>CONSULT Function (BCM - MULTIREMOTE ENT)"</u>.

### 2. CHECK HORN FUNCTION

Check horn function.

Refer to DLK-301, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3. CONFIRM THE OPERATION

Confirm the operation again.

#### Is the result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> GO TO 1.

#### INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE [WITHOUT INTELLIGENT KEY SYSTEM]

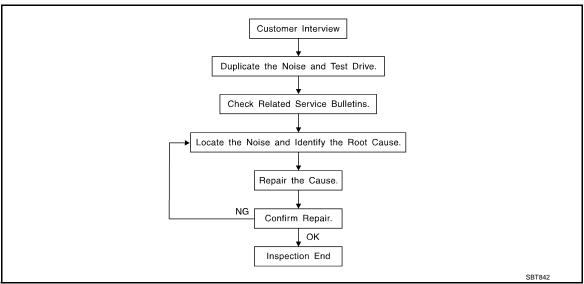
< SYMPTOM DIAGNOSIS >

### INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Α Diagnosis Procedure INFOID:0000000008282115 1. CHECK INTEGRATED HOMELINK TRANSMITTER В Check integrated homelink transmitter. Refer to DLK-304, "Component Function Check". C Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION D Confirm the operation again. Is the result normal? Е YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident". NO >> GO TO 1. F Н J DLK L M Ν

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Work Flow



#### **CUSTOMER INTERVIEW**

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <a href="DLK-360">DLK-360</a>, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on 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 bumblebee)
   Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician
  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 the repair is reconfirmed.

< SYMPTOM DIAGNOSIS >	[WITHOUT INTELLIGENT KEY SYSTEM]
If the noise can be duplicated easily during the test drive, t cate the noise with the vehicle stopped by doing one or all	
1) Close a door.	-
2) Tap or push/pull around the area where the noise appear	ars to be coming from.
3) Rev the engine.	, and the second
4) Use a floor jack to recreate vehicle "twist".	
5) At idle, apply engine load (electrical load, half-clutch on	M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber h	nammer

#### CHECK RELATED SERVICE BULLETINS

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

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

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

#### LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- Removing the components in the area that is are suspected to be the cause of the noise.
   Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of 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 by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
   Refer to <u>DLK-358</u>, "Inspection Procedure".

#### REPAIR THE CAUSE

vehicle body.

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

#### **CAUTION:**

### Never use excessive force as many components are constructed of plastic and may be damaged.

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

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

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

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

**FELT CLOTHTAPE** 

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

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

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

**UHMW (TEFLON) TAPE** 

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#### < SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

SILICONE GREASE

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

SILICONE SPRAY

Used when grease cannot be applied.

**DUCT TAPE** 

Used to eliminate movement.

#### CONFIRM THE REPAIR

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

#### Inspection Procedure

INFOID:0000000008282117

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

#### **INSTRUMENT PANEL**

Most incidents are caused by contact and movement between:

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

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

#### **CAUTION:**

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

#### **CENTER CONSOLE**

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 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 following:

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

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

#### **TRUNK**

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

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

#### < SYMPTOM DIAGNOSIS >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

#### SUNROOF/HEADLINING

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

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

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

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

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

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

#### UNDERHOOD

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

Causes of transmitted underhood noise include:

- Any component mounted to the engine wall 1.
- 2. Components that pass through the engine wall
- Engine wall mounts and connectors
- Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- Hood striker out of adjustment

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

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**DLK-359** Revision: 2013 December **2013 ROGUE** 

### **Diagnostic Worksheet**

INFOID:0000000008282118



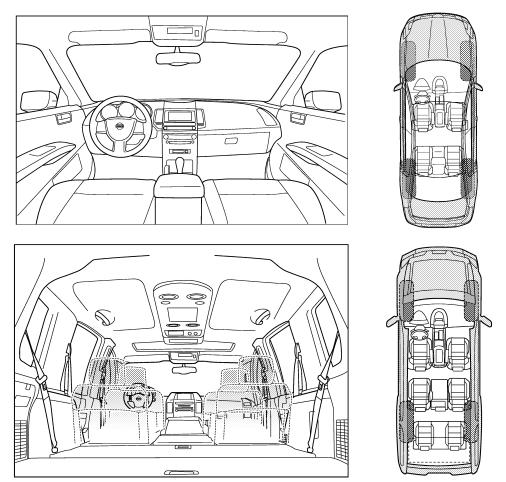
## SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

#### Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan 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.

#### 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 >

## [WITHOUT INTELLIGENT KEY SYSTEM]

II WHEN DOES IT OCCUP2 (places o	pook the haves that apply)	
II. WHEN DOES IT OCCUR? (please c	_	
□ anytime     □ 1st time in the morning     □ only when it is cold outside     □ only when it is hot outside	<ul><li>☐ after sitting out in the rain</li><li>☐ when it is raining or wet</li><li>☐ dry or dusty conditions</li><li>☐ other:</li></ul>	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
<ul><li>☐ through driveways</li><li>☐ over rough roads</li><li>☐ over speed bumps</li></ul>	<ul><li>☐ squeak (like tennis shoes on a clean floor)</li><li>☐ creak (like walking on an old wooden floor)</li><li>☐ rattle (like shaking a baby rattle)</li></ul>	
☐ only about mph ☐ on acceleration ☐ coming to a stop	<ul><li>☐ knock (like a knock at the door)</li><li>☐ tick (like a clock second hand)</li><li>☐ thump (heavy, muffled knock noise)</li></ul>	
on turns: left, right or either (circle) with passengers or cargo	buzz (like a bumble bee)	
other: miles or n	inutes	
other: n after driving miles or n  TO BE COMPLETED BY DEALERSHI		
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Revision: 2013 December DLK-361 2013 ROGUE

## **PRECAUTION**

## PRECAUTIONS FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
  ignition ON or engine running, never 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.

FOR MEXICO: Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

#### **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the LOCK position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

#### **OPERATION PROCEDURE**

1. Connect both battery cables.

#### NOTE:

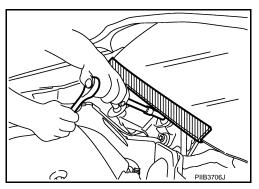
Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ACC position. At this time, the steering lock will be released.

- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the LOCK position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- Perform a self-diagnosis check of all control units using CONSULT.

## FOR MEXICO: Precaution for Procedure without Cowl Top Cover

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



## FOR MEXICO: Precautions For Xenon Headlamp Service

#### **WARNING:**

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

#### CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

#### FOR MEXICO: Work

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

#### FOR USA AND CANADA

## FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

#### **WARNING:**

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Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
  ignition ON or engine running, never 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.

FOR USA AND CANADA: Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

#### CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition switch in the LOCK position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

#### **OPERATION PROCEDURE**

Connect both battery cables.

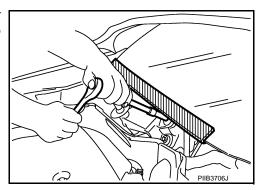
#### NOTE:

Supply power using jumper cables if battery is discharged.

- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ACC position. At this time, the steering lock will be released.
- Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the LOCK position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- Perform a self-diagnosis check of all control units using CONSULT.

## FOR USA AND CANADA: Precaution for Procedure without Cowl Top Cover

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



FOR USA AND CANADA: Precautions For Xenon Headlamp Service

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#### **WARNING:**

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- · Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

#### **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- · Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

#### FOR USA AND CANADA: Work

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

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## **PREPARATION**

## **PREPARATION**

## **Special Service Tools**

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

To (Ken To	Description	
(J-39570) Chassis ear	SIIAO993E	Locates the noise
(J-43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise

## **Commercial Service Tools**

INFOID:0000000008282130

	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JMKIA3050ZZ	Removes the clips, pawls and metal clips
Power tool		

## REMOVAL AND INSTALLATION

HOOD

**HOOD ASSEMBLY** 

**HOOD ASSEMBLY: Exploded View** 



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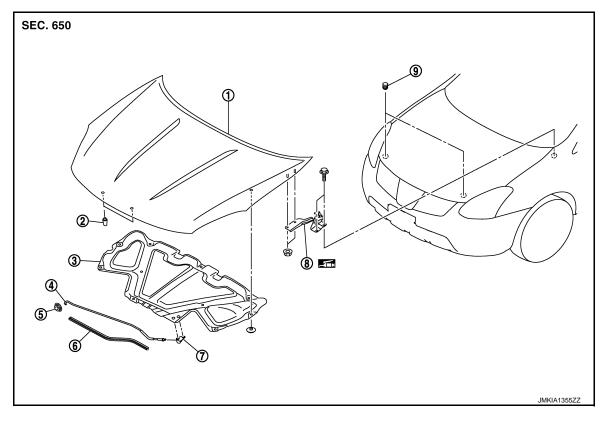
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- Hood assembly
- Hood support rod 4.
- Clamp

- Hood bumper rubber center
- Grommet
- 8.
- Hood hinge

- Hood insulator 3.
- 6 Hood seal rubber
- 9. Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

#### **HOOD ASSEMBLY: Removal and Installation**

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#### **REMOVAL**

Support hood lock assembly with the proper material to prevent it from falling.

Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

Remove hood hinge mounting nuts on the hood to remove the hood assembly.

#### **CAUTION:**

Perform work with 2 workers, because of its heavy weight.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle
- After installing, perform hood fitting adjustment. Refer to <u>DLK-368, "HOOD ASSEMBLY: Adjust-</u> ment".

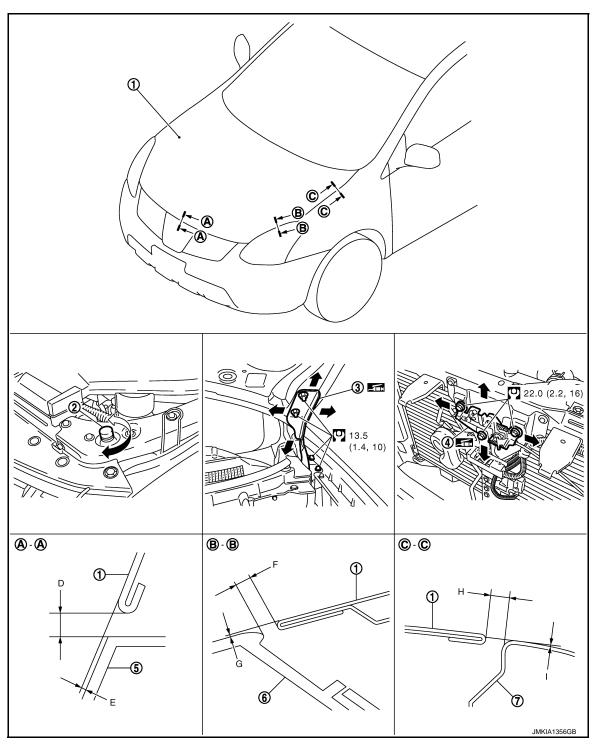
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**DLK-367** Revision: 2013 December **2013 ROGUE**  **HOOD ASSEMBLY: Adjustment** 

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- 1. Hood assembly
- 4. Hood lock assembly
- 2. Hood bumper rubber side
- 5. Front bumper fascia
- Hood hinge
- 6. Front combination lamp

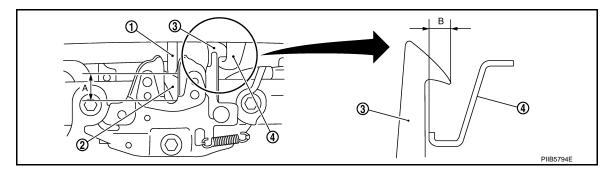
7. Front fender

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and the surface height between hood and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

unit : mm(					
Portion	Standard	Difference (LH/RH)			
Hood – Front bumper	<b>A</b> – <b>A</b>	D	Clearance	4.0 - 8.0 (0.157 - 0.315)	_
		Е	Surface height	-0.4 - 4.0 (-0.016 - 0.157)	_
Hood – Front combination lamp	B – B	F	Clearance	2.0 - 6.0 (0.079 - 0.236)	< 3.0 (0.118)
		G	Surface height	-2.0 - 2.0 (-0.079 - 0.079)	< 2.0 (0.079)
Hood – Front fender	C – C	H	Clearance	2.6 - 4.6 (0.102 - 0.181)	< 1.4 (0.055)
		I	Surface height	-1.0 -1.0 (-0.039 -0.039)	< 1.4 (0.055)

- 1. Remove hood lock and adjust the height by rotating hood bumper rubber side until hood becomes 1 to 1.5 mm (0.039 to 0.059 in) lower than fender.
- Temporarily tighten hood lock, and position by engaging it with hood striker. Check hood lock and striker for looseness and adjust the clearance and evenness with striker to satisfy the specification.
- 3. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately 200 mm (7.874 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5lb)].



1. Hood striker

Primary latch

3. Secondary striker

4. Secondary latch

A : 20.0 mm (0.787 in) B : 6.8 mm (0.268 in)

4. After adjustment tighten lock bolts to the specified torque.

#### **HOOD HINGE**

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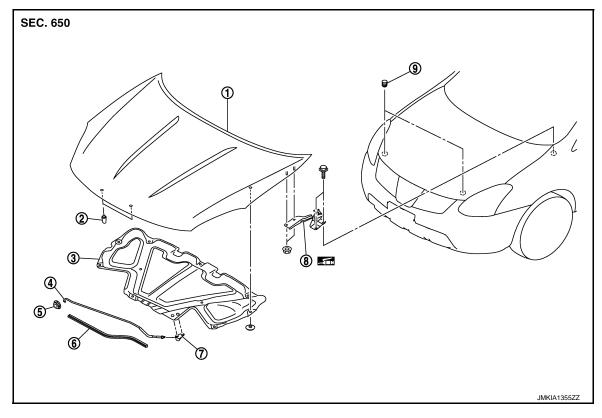
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**HOOD HINGE: Exploded View** 

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- 1. Hood assembly
- Hood support rod
- 7. Clamp

**REMOVAL** 

- 2. Hood bumper rubber center
- 5. Grommet
- 8. Hood hinge
- Refer to GI-4, "Components" for symbols in the figure.

- 3. Hood insulator
- 6. Hood seal rubber
- 9. Hood bumper rubber side

**HOOD HINGE: Removal and Installation** 

- Remove hood assembly. Refer to <u>DLK-367</u>, "HOOD ASSEMBLY: Removal and Installation".
- 2. Remove front fender. Refer to <u>DLK-377</u>, "Removal and Installation".
- 3. Remove hood hinge mounting bolts, and then remove hood hinge.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to <u>DLK-368, "HOOD ASSEMBLY: Adjustment"</u>

### **HOOD SUPPORT ROD**

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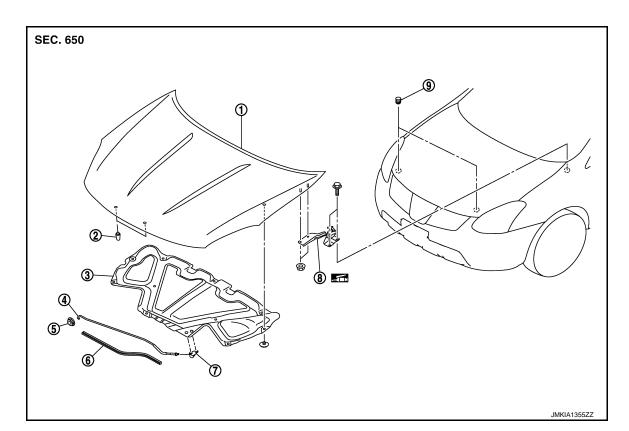
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## **HOOD SUPPORT ROD:** Exploded View



- Hood assembly
- Hood support rod 4.
- 7. Clamp

- Hood bumper rubber center
- 5. Grommet
- 8. Hood hinge

- Hood insulator
- 6. Hood seal rubber
- 9. Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

## HOOD SUPPORT ROD: Removal and Installation

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## **REMOVAL**

Support hood lock assembly with the proper material to prevent it from falling.

Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

Remove hood support rod from grommet.

**INSTALLATION** 

Install in the reverse order of removal.

HOOD LOCK CONTROL

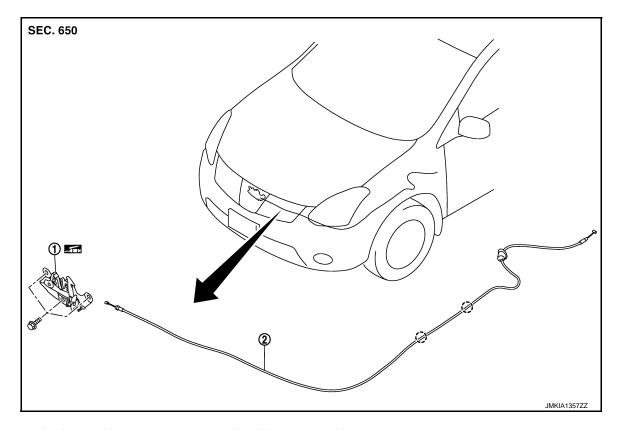
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## **HOOD LOCK CONTROL: Exploded View**

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- 1. Hood lock assembly
- 2. Hood lock control cable

( ) : Clip

Refer to GI-4, "Components" for symbols in the figure.

#### HOOD LOCK CONTROL: Removal and Installation

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#### **REMOVAL**

#### **CAUTION:**

Check how hood lock control cable has been wiring situation, before it is removed.

- 1. Remove clips at the upper side of front bumper. Refer to <a href="EXT-13">EXT-13</a>, "Exploded View".
- 2. Remove mounting bolts, and then remove hood lock assembly.
- 3. Disconnect hood lock cable from hood lock assembly.
- 4. Remove instrument driver lower cover. Refer to <a href="IP-13">IP-13</a>, "Exploded View".
- 5. Disconnect hood lock cable from instrument driver lower cover.
- 6. Remove fender protector (LH). Refer to EXT-22, "Removal and Installation".
- 7. Remove hood lock cable clamp.
- Remove grommet on the dashbord, and pull the hood lock control cable toward the passenger compartment.

#### **CAUTION:**

While pulling, never to damage (peeling) the outside of hood lock control cable.

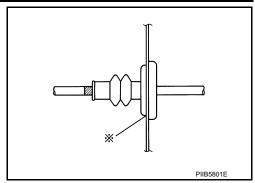
#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

• Never to bend cable too much, keeping the radius 100 mm (3.937 in) or more.

 Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at \* mark) properly.



- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to <u>DLK-368, "HOOD ASSEMBLY: Adjustment".</u>
- After installation, perform hood lock control inspection. Refer to <u>DLK-373</u>, "<u>HOOD LOCK CONTROL</u>: <u>Inspection</u>".

## **HOOD LOCK CONTROL**: Inspection

#### INFOID:0000000008282140

#### NOTE:

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

- 1. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] by hood weight.
- 2. While operating hood opener, carefully check that the front end of hood is raised by approximately 20.0 mm (0.787 in). Also check that hood opener returns to the original position.
- 3. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
- Install so that static closing face of hood is 94 − 490 N·m (9.6 − 50.0 kg-m, 69 − 361 ft − lb).
   NOTE:
  - Exert vertical force on right side and left side of hood lock.
  - Do not press simultaneously both sides.
- 5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

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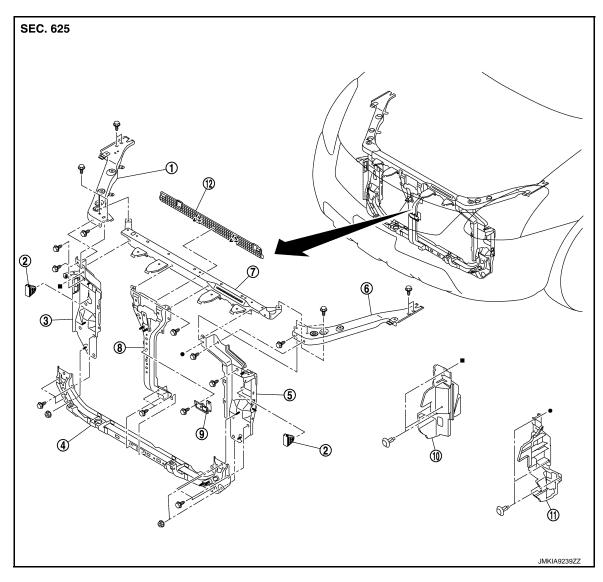
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## RADIATOR CORE SUPPORT

Exploded View



- 1. Radiator core support upper RH
- 4. Radiator core support lower
- 7. Radiator core support upper center
- 10. Air guide RH

 $/ ^{\cdot}$ : Pawl

- 2. Locator (LH/RH)
- 5. Radiator core support side LH
- 8. Hood lock support stay assembly
- 11. Air guide LH

●, ■: Indicates that the part is connected at points with same symbol in actual vehicle.

- 3. Radiator core support side RH
- 6. Radiator core support upper LH
- 9. Sensor bracket
- 12. Radiator seal upper

## Removal and Installation

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#### **REMOVAL**

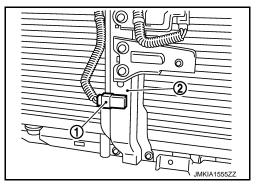
- 1. Remove front bumper facia, front bumper rainforcement. Refer to EXT-13, "Removal and Installation".
- 2. Remove air intake duct. Refer to EM-29, "Exploded View".
- Remove front combination lamp (LH/RH). Refer to <u>EXL-109</u>, "Removal and Installation" (XENON TYPE), <u>EXL-228</u>, "Removal and Installation" (HALOGEN TYPE).
- 4. Remove air guide mounting clips, and remove air guide (LH/RH).
- Remove CVT fluid cooler. Refer to TM-209, "FLUID COOLER: Removal and Installation".

#### RADIATOR CORE SUPPORT

#### < REMOVAL AND INSTALLATION >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

- Remove CVT fluid cooler stay lower. Refer to TM-209, "FLUID COOLER: Exploded view".
- 7. Remove seal radiator lower.
- Remove horn (HI/LO). Refer to HRN-6, "Removal and Installation".
- Remove ambient sensor.
  - (1): Ambient sensor
  - (2): Hood lock support stay assembly



- 10. Remove crash zone sensor. Refer to <u>SR-20, "Removal and Installation"</u> (FOR USA and CANADA) or <u>SR-45, "Removal and Installation"</u> (FOR MEXICO).
- 11. Disconnect refrigerant pressure sensor connector. Refer to <a href="HAC-118">HAC-118</a>, "Removal and Installation" (AUTO-MATIC AIR CONDTIONING) or <a href="HAC-209">HAC-209</a>, "Removal and Installation" (MANUAL AIR CONDTIONING).
- 12. Remove hood lock assembly. Refer to DLK-372, "HOOD LOCK CONTROL: Removal and Installation".
- 13. Disconnect harness clips from radiator core support assembly.
- 14. Remove mounting bolts, and then remove hood lock support stay assembly.
- 15. Remove washer tank. Refer to <a href="https://www.42,"Removal and Installation"><u>WW-42, "Removal and Installation"</u></a>.
- 16. Place securely the hood support rod inside the engine mounting bracket hole.

#### **CAUTION:**

Check that the hood is securely fix.

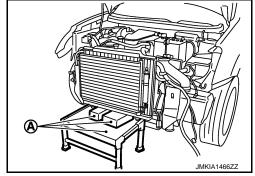
- 17. Remove mounting bolts, and then remove radiator core support upper assembly (radiator core support upper center and radiator core support upper side).
- 18. Remove radiator core support lower assembly (radiator core support side and radiator core support lower) mounting bolts.
- 19. Remove radiator core support lower assembly (radiator core support side and radiator core support lower) while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser from falling.

#### **CAUTION:**

#### Operate with two workers, because of its heavy weight.

20. Put some wooden blocks etc.(A) under radiator and condenser, and use a rope to suspend it to prevent it from falling.
CAUTION:

Operate with two workers, because of its heavy weight.



- 21. Disassembly radiator core support upper side from radiator core support upper center.
- 22. Disassembly radiator core support side from radiator core support lower.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- After installation, replenish the following parts.
- CVT fluid: Refer to TM-161, "Changing".
- After installation, adjust the following parts.

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## **RADIATOR CORE SUPPORT**

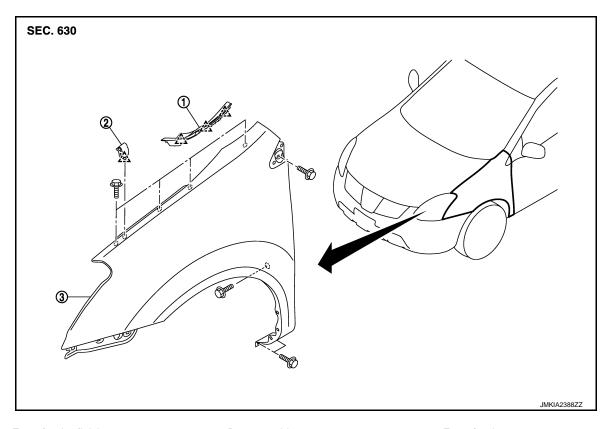
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Front combination lamp: Refer to <u>EXL-104, "Aiming Adjustment Procedure"</u> (XENON TYPE) or <u>EXL-224, "Aiming Adjustment Procedure"</u> (HALOGEN TYPE).

## FRONT FENDER

Exploded View



Front fender finisher

Bumper rubber

3. Front fender

\_\_\_\_\_\_: Pawl

#### Removal and Installation

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#### **CAUTION:**

Use a shop cloth to protect the body from being damaged during removal and installation.

#### REMOVAL

- 1. Remove front bumper facia. Refer to EXT-13, "Removal and Installation".
- 2. Remove front combination lamp. Refer to <u>EXL-109</u>, "Removal and Installation" (XENON TYPE), <u>EXL-228</u>, "Removal and Installation" (HALOGEN TYPE).
- 3. Remove fender protector. Refer to EXT-22, "Removal and Installation".
- 4. Remove front fender finisher.

5. Remove mounting bolts and remove front fender.

#### **CAUTION:**

An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, peel of the urethane foam bit at a time, and carefully to remove it.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- After installation, check front fender adjustment. Refer to <u>DLK-368</u>, "HOOD ASSEMBLY : Adjustment" and <u>DLK-379</u>, "DOOR ASSEMBLY : Adjustment".
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

**DLK-377** 

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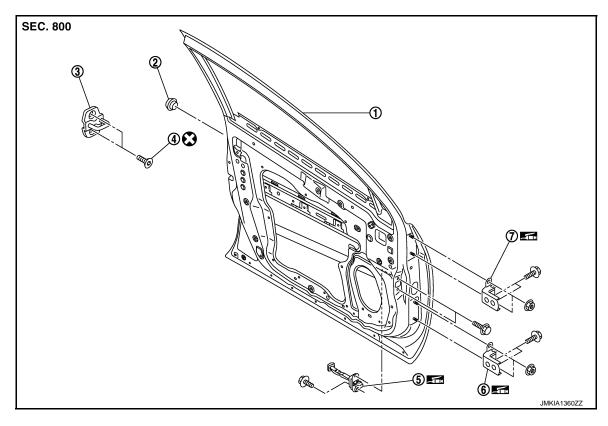
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## FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY: Exploded View

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1. Front door panel

7. Door hinge (upper)

4. TORX bolt

- Grommet
- 5. Door check link

- 3. Door striker
- 6. Door hinge (lower)

Refer to GI-4, "Components" for symbols in the figure.

#### DOOR ASSEMBLY: Removal and Installation

#### **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and cloth to protect door and body.

#### REMOVAL

- 1. Remove mounting bolts of door check link on the vehicle.
- 2. Remove front door harness grommet, and then pull out the harness from the vehicle.
- Disconnect front door harness connector.
- 4. Remove door hinge mounting nuts (door side), and then remove door assembly.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-379</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjust-ment</u>".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

**DOOR ASSEMBLY: Adjustment** 

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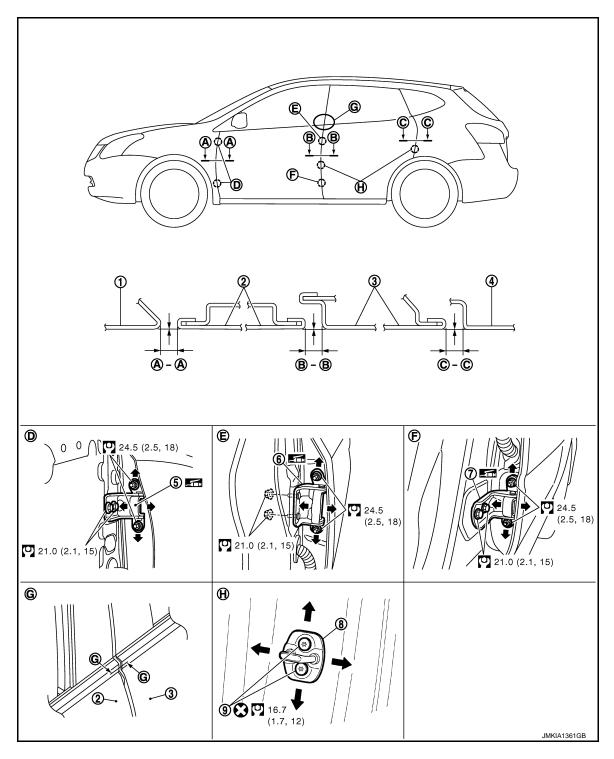
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- Front fender
- Body side outer
- 7. Rear door hinge (lower)
- 2. Front door
- 5. Front door hinge
- 8. Door striker

- Rear door
- 6. Rear door hinge (upper)
- 9. TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and surface height between front door and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

INFOID:0000000008282148

			Unit: mm (in)	
Portion		Clearance	Surface height	
Front fender – Front door	<b>A</b> – <b>A</b>	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)	
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)	
Front door – Rear door	G – G	3.0 - 6.0 (0.118 - 0.236)	- 1.5 – 1.5 (- 0.059 – 0.059)	

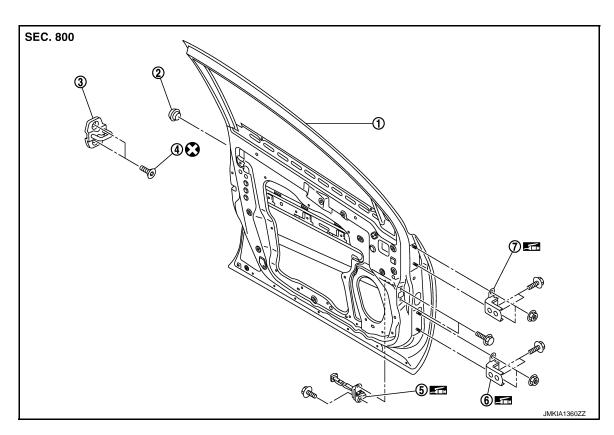
- 1. Remove front fender. Refer to <u>DLK-377, "Removal and Installation"</u>.
- 2. Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of front door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting bolts on body side.
- 6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque.
- 8. Install front fender. Refer to refer to <a href="DLK-377">DLK-377</a>, "Removal and Installation".

#### DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

#### DOOR STRIKER

## DOOR STRIKER: Exploded View



- 1. Front door panel
- Grommet

Door striker

4. TORX bolt

5. Door check link

6. Door hinge (lower)

7. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

### DOOR STRIKER: Removal and Installation

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#### **REMOVAL**

Remove TORX bolts, and then remove door striker.

#### INSTALLATION

Install in the reverse order of removal.

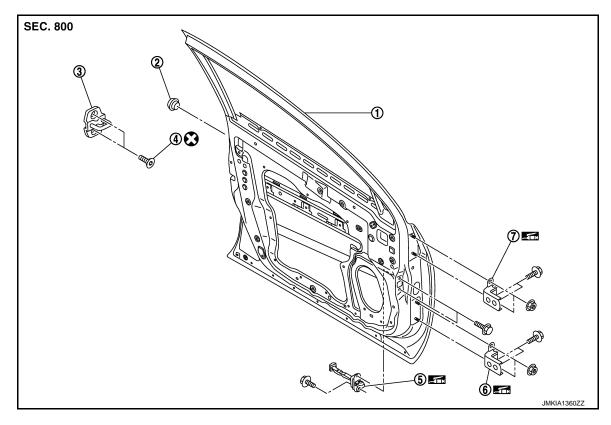
#### **CAUTION:**

- Check front door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-379</u>, "<u>DOOR ASSEMBLY</u>:
   <u>Adjustment</u>".

#### DOOR HINGE

**DOOR HINGE: Exploded View** 

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- Front door panel
- 2. Grommet

Door striker

4. TORX bolt

5. Door check link

6. Door hinge (lower)

7. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

## DOOR HINGE: Removal and Installation

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#### REMOVAL

- Remove front door assembly. Refer to <u>DLK-378</u>, "<u>DOOR ASSEMBLY</u>: Removal and Installation".
- Remove front door hinge mounting bolts, and then remove front door hinge.

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

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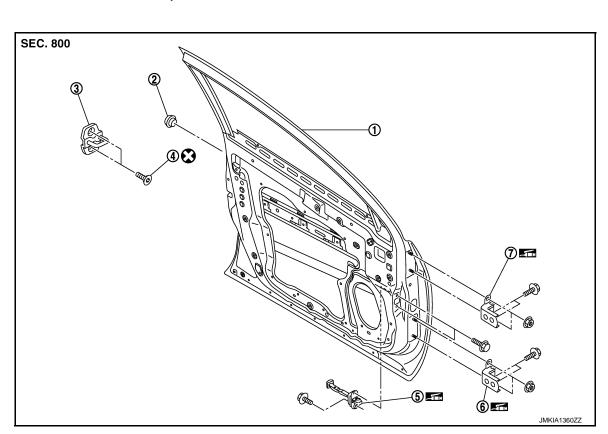
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**2013 ROGUE** 

- After installation, perform the fitting adjustment. Refer to <u>DLK-379</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjust-ment</u>".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts. DOOR CHECK LINK

DOOR CHECK LINK: Exploded View



- 1. Front door panel
- 4. TORX bolt

- 2. Grommet
- Door check link

- Door striker
- 6. Door hinge (lower)

7. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

#### DOOR CHECK LINK: Removal and Installation

#### **REMOVAL**

- 1. Fully close the front door window.
- Remove front door finisher. Refer to <u>INT-12</u>, "FRONT DOOR FINISHER: Removal and Installation".
- 3. Remove front door speaker.
- 4. Remove mounting bolts of door check link on the vehicle.
- 5. Remove mounting bolts of door check link on door panel.
- 6. Take door check link out from the hole of door panel.

### **INSTALLATION**

Revision: 2013 December

Install in the reverse order of removal.

#### **CAUTION:**

Check front door open/close operation after installation.

## REAR DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY: Exploded View

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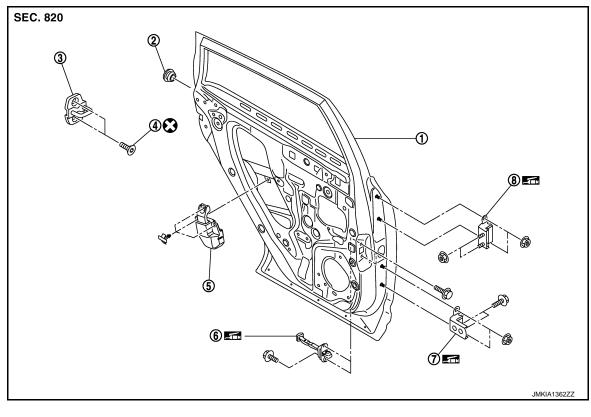
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- 1. Rear door panel
- 4. TORX bolt
- 7. Door hinge (lower)
- Grommet
- 5. Pad
- 8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

Door striker

Door check link

## DOOR ASSEMBLY: Removal and Installation

#### **CAUTION:**

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and cloth to protect door and body.

#### REMOVAL

- 1. Remove mounting bolts of door check link on the vehicle.
- 2. Remove rear door harness grommet, and then pull out door harness from the vehicle.
- 3. Disconnect rear door harness connector.
- 4. Remove door hinge mounting nuts (door side), and then remove rear door assembly.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Check rear door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to <u>DLK-384, "DOOR ASSEMBLY: Adjust-ment".</u>
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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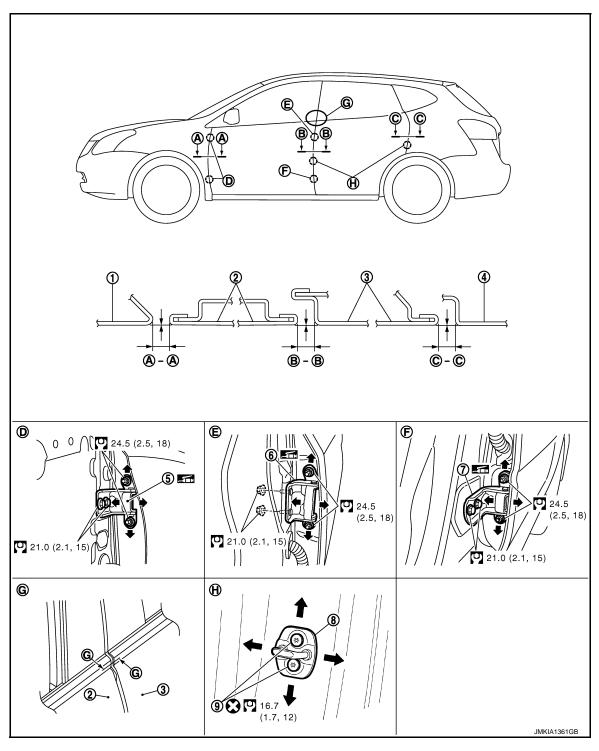
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**DOOR ASSEMBLY: Adjustment** 

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- 1. Front fender
- 4. Body side outer
- 7. Rear door hinge (lower)
- 2. Front door
- 5. Front door hinge
- 8. Door striker

- 3. Rear door
- 6. Rear door hinge (upper)
- 9. TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and surface height between rear door and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

			Unit : mm (in)
Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 - 5.5 (0.138 - 0.217)	-1.0 - 1.0 (-0.039 - 0.039)
Rear door – Body side outer	C – C	3.5 - 5.5 (0.138 - 0.217)	-1.0 - 1.0 (-0.039 - 0.039)
Front door – Rear door	G – G	3.0 - 6.0 (0.118 - 0.236)	-1.5 – 1.5 (-0.059 – 0.059)

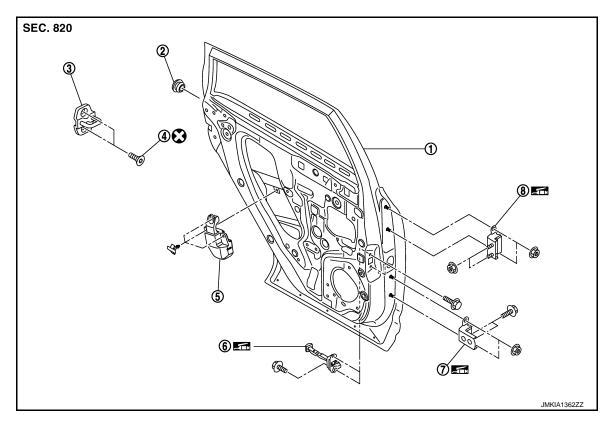
- 1. Remove center pillar lower garnish. Refer to <a href="INT-18">INT-18</a>, "Removal and Installation".
- Loosen door hinge mounting nuts on door side.
- 3. Adjust the surface height of rear door according to the fitting standard dimension.
- 4. Temporarily tighten door hinge mounting nuts on door side.
- 5. Loosen door hinge mounting nuts and bolts on body side.
- 6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
- 7. After adjustment tighten bolts and nuts to the specified torque.
- Install center pillar lower garnish. Refer to <u>INT-18, "Removal and Installation"</u>.

#### DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

#### DOOR STRIKER

## DOOR STRIKER: Exploded View



- Rear door panel
- 4. TORX bolt
- 7. Door hinge (lower)

Revision: 2013 December

- 2. Grommet
- 5. Pad
- 8. Door hinge (upper)
- Refer to GI-4, "Components" for symbols in the figure.

## DOOR STRIKER: Removal and Installation

**REMOVAL** 

**DLK-385** 2013 ROGUE

Door striker

Door check link

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Remove TORX bolts, and then remove door striker.

#### **INSTALLATION**

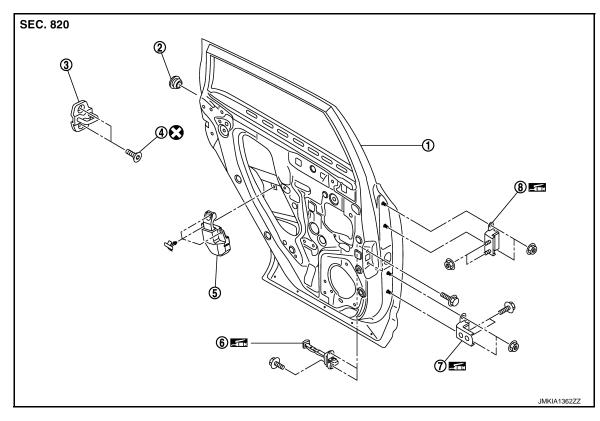
Install in the reverse order of removal.

#### **CAUTION:**

- Check rear door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-384, "DOOR ASSEMBLY:</u> <u>Adjustment"</u>.

#### DOOR HINGE

**DOOR HINGE: Exploded View** 



- 1. Rear door panel
- 2. Grommet

Door striker

4. TORX bolt

5. Pad

6. Door check link

- 7. Door hinge (lower)
- 8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

#### DOOR HINGE: Removal and Installation

#### REMOVAL

- Remove center pillar lower garnish. Refer to <u>INT-18, "Removal and Installation"</u>.
- Remove rear door assembly. Refer to <u>DLK-383, "DOOR ASSEMBLY: Removal and Installation"</u>.
- Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.

#### INSTALLATION

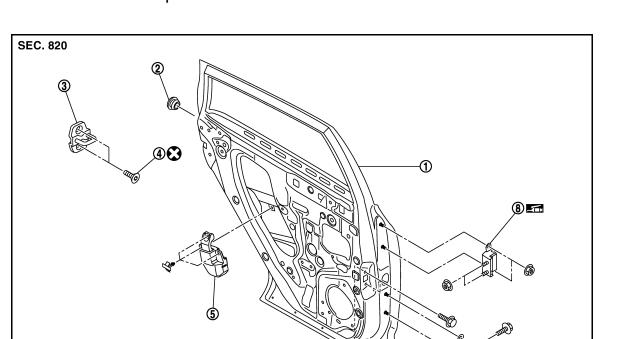
Install in the reverse order of removal.

#### **CAUTION:**

- Check rear door open/close operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing rear door assembly, perform the fitting adjustment. Refer to <u>DLK-384</u>, <u>"DOOR ASSEMBLY: Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

## DOOR CHECK LINK

DOOR CHECK LINK: Exploded View



- 1. Rear door panel
- TORX bolt
- 7. Door hinge (lower)
- Grommet

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- 5. Pad
- 8. Door hinge (upper)

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3. Door striker

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Door check link

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Refer to GI-4, "Components" for symbols in the figure.

#### DOOR CHECK LINK: Removal and Installation

**REMOVAL** 

- 1. Remove rear door finisher. Refer to INT-15, "REAR DOOR FINISHER: Removal and Installation".
- 2. Remove rear door speaker.
- 3. Remove mounting bolts of the check link on the vehicle.
- 4. Remove mounting bolts of the check link on door panel.
- 5. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

**CAUTION:** 

Check rear door open/close operation after installation.

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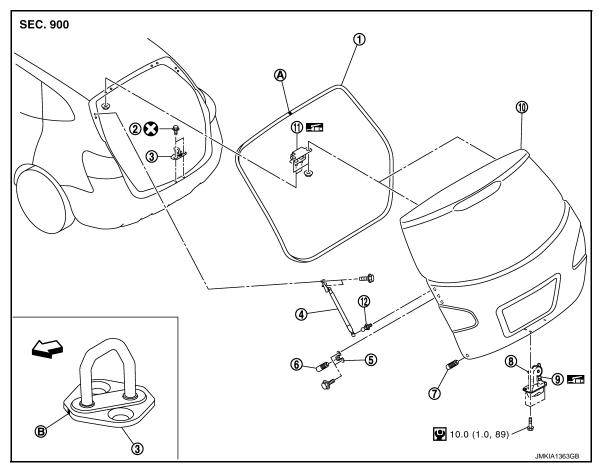
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# BACK DOOR BACK DOOR ASSEMBLY

## BACK DOOR ASSEMBLY: Exploded View

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- 1. Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark

- 2. TORX bolt
- 5. Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B : Front mark

- 3. Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

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Refer to GI-4, "Components" for symbols in the figure.

### BACK DOOR ASSEMBLY: Removal and Installation

#### **REMOVAL**

- 1. Remove back door lower finisher inner, back door upper finisher inner, back door side finisher inner. Refer to <a href="INT-34">INT-34</a>, "Removal and Installation".
- 2. Disconnect connectors in back door, and then remove grommet, and pull out harness.
- 3. Remove grommet, and then disconnect connectors, and washer tube.
- 4. Pull harness and washer tube out of back door.
- 5. Support back door lock with the proper material to prevent it from falling.
- Remove back door stay. Refer to <u>DLK-393</u>, "BACK <u>DOOR STAY</u>: Removal and <u>Installation</u>".

Perform work with 2 workers, because of its heavy weight.

7. Remove back door hinge mounting nuts on back door and remove back door assembly.

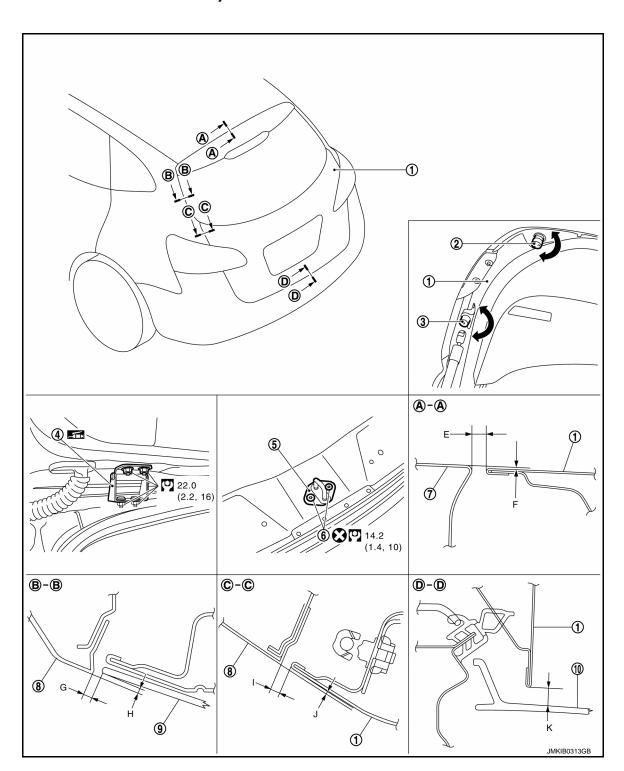
#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- Check back door open/close, lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to <u>DLK-389</u>, "BACK DOOR ASSEMBLY: Adjustment".

## BACK DOOR ASSEMBLY: Adjustment



- 1. Back door assembly
- 4. Back door hinge
- 2. Bumper rubber lower
- 5. Back door striker
- 3. Bumper rubber side
- TORX bolt

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Revision: 2013 December DLK-389 2013 ROGUE

#### **BACK DOOR**

#### < REMOVAL AND INSTALLATION >

#### [WITHOUT INTELLIGENT KEY SYSTEM]

7. Roof

8. Body side outer

9. Back door glass

10. Rear bumper

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and the surface height between back door and each part by visually and touching. In case any parts are out of specification, adjust them according to the procedures shown below.

				Unit: mm (in)
Portion				Standard
Back door – Roof	Λ Λ	Е	Clearance	4.3 - 6.8 (0.169 - 0.268)
Back door – Rooi	A – A	F	Surface height	-2.0 - 0.5 (-0.079 - 0.020)
Back door glass – Body side outer	B-B	G	Clearance	2.7 – 7.3 (0.106 – 0.287)
Back door glass – Body side outer		H	Surface height	0.4 - 4.1 (0.016 - 0.161)
Back door – Body side outer	C-C	- 1	Clearance	4.1 – 6.1 (0.161 – 0.240)
Back door – Body side outer		7	Surface height	-0.2 - 1.8 (-0.008 - 0.071)
Back door – Rear bumper	D-D	K	Clearance	5.9 - 9.9 (0.232 - 0.390)

- Loosen bumper rubber.
- 2. Loosen back door striker mounting bolts.
- 3. Lift up back door approximately 100 150 mm (3.937 5.906 in) height then close it lightly and check that it is engaged firmly with back door closed.
- Check the clearance and surface height.
- 5. Finally tighten back door striker.

#### CAUTION:

After door adjustment, perform the camera image calibration. Refer to <u>AV-160, "Adjustment"</u> (DISPLAY AUDIO).

#### BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that i becomes parallel with back door lock insertion direction.

BÁCK DOOR STRIKER

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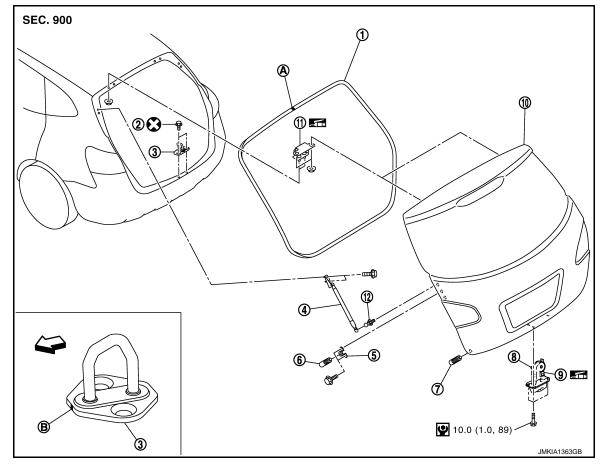
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## BACK DOOR STRIKER: Exploded View



- 1. Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark
- : Vehicle front

- 2. TORX bolt
- 5. Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B : Front mark

- 3. Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

Refer to GI-4, "Components" for symbols in the figure.

### BACK DOOR STRIKER: Removal and Installation

#### **REMOVAL**

Remove TORX bolts, and then remove back door striker.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Check back door open/close operation after installation.
- When removing and installing back door striker, be sure to perform the fitting adjustment. Refer to <a href="DLK-389">DLK-389</a>, "BACK DOOR ASSEMBLY: Adjustment".

### **BACK DOOR HINGE**

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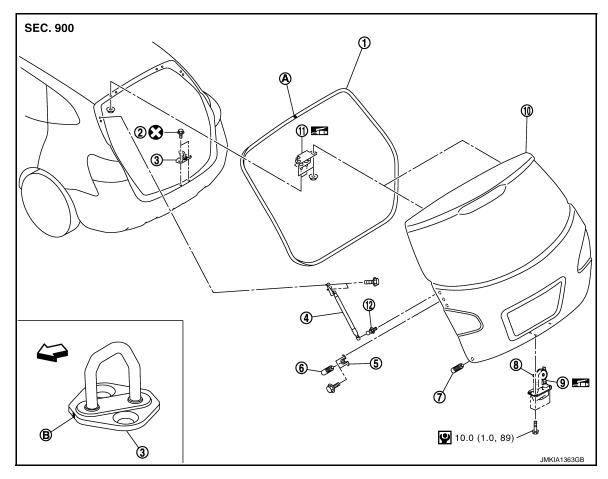
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Revision: 2013 December DLK-391 2013 ROGUE

**BACK DOOR HINGE: Exploded View** 

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- Back door weather-strip
- 4. Back door stay
- Bumper rubber lower
- 10. Back door assembly : Center mark

- 2. TORX bolt
- Bumper rubber bracket
- Emergency lever
- 11. Back door hinge
- : Front mark

- 3. Back door striker
- Bumper rubber side
- Back door lock assembly
- 12. Back door stay stud ball

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Refer to GI-4, "Components" for symbols in the figure.

### BACK DOOR HINGE: Removal and Installation

**REMOVAL** 

- Remove back door assembly. Refer to DLK-388, "BACK DOOR ASSEMBLY: Removal and Installation".
- Remove back door weather-strip. Refer to <u>DLK-395</u>, "BACK DOOR WEATHER-STRIP: Removal and Installation".
- Remove luggage side lower finisher and luggage side upper finisher. Refer to INT-32, "Removal and 3. Installation".
- Using remover tool, remove headlining clip at the rear side of headlining and then remove rear side of headlining.. Refer to INT-24, "NORMAL ROOF: Removal and Installation" (NORMAL ROOF), INT-27, "SUNROOF: Removal and Installation" (SUNROOF).
- Remove back door hinge mounting nuts (body side), and then remove back door hinge.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

Check back door open/close operation after installation.

- · Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing back door assembly, perform the fitting adjustment. Refer to <u>DLK-389</u>, <u>"BACK DOOR ASSEMBLY : Adjustment"</u>.
- After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

**BACK DOOR STAY** 

**BACK DOOR STAY: Exploded View** 



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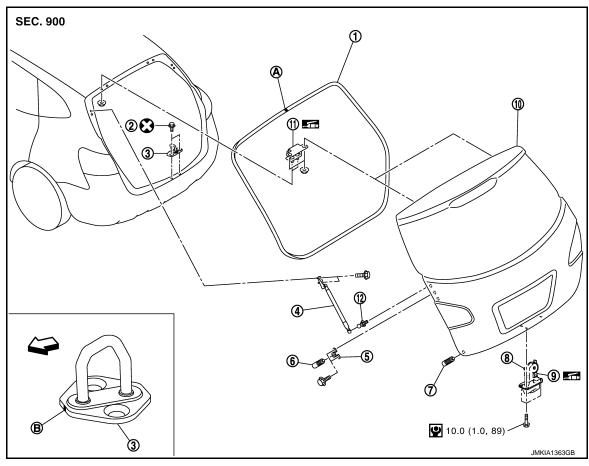
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- Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark
- : Vehicle front

- 2. TORX bolt
- Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B: Front mark

- Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

Refer to GI-4, "Components" for symbols in the figure.

#### BACK DOOR STAY: Removal and Installation

#### REMOVAL

- 1. Remove mounting bolts (body side), and then remove back door stay bracket.
- Remove stud ball (back door side), and then remove back door stay.

#### INSTALLATION

Install in the reverse order of removal.

#### CAUTION:

Check back door open/close operation after installation.

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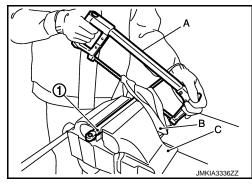
Revision: 2013 December DLK-393 2013 ROGUE

## **BACK DOOR STAY: Disposal**

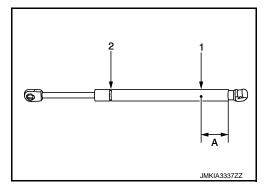
- 1. Fix gas stay (1) using a vise (C).
- 2. Slowly make 2 holes, in numerical order as shown in the figure, on gas stay using a hacksaw (A).

#### **CAUTION:**

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



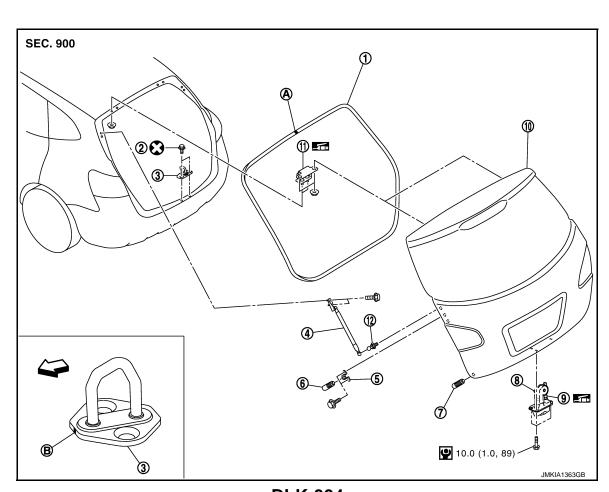
A: 20 mm (0.787 in)



# BACK DOOR WEATHER-STRIP : Exploded View

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#### **BACK DOOR**

< R	EMOVAL AND INSTALLATION	۱>	[WITHOUT INTELLIGENT KEY SYSTEM]				
1. 4. 7. 10.	Back door weather-strip Back door stay Bumper rubber lower Back door assembly	2. 5. 8. 11.	J.	3. 6. 9. 12.	Back door striker Bumper rubber side Back door lock assembly Back door stay stud ball	A B	
< Ref	A : Center mark  B : Front mark  C→ : Vehicle front  Refer to GI-4, "Components" for symbols in the figure.						
	CK DOOR WEATHER-ST	IKI	P : Removal and Installa	tion	INFOID:000000008282174	D	
REMOVAL Pull up and remove engagement with body from weather-strip joint. CAUTION: After removal, never pull strongly on weather-strip.						Е	
INS	TALLATION						
1.	<ol> <li>Working from the upper section, align weather-strip mark with vehicle center position mark and install weather-strip onto the vehicle.</li> </ol>						

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After installation, pull weather-strip gently to ensure that there is no loose section.
 NOTE:
 Make sure that weather-strip is fit tightly at each corner and luggage rear plate.

2. For the lower section, align weather-strip seam with center of back door striker.

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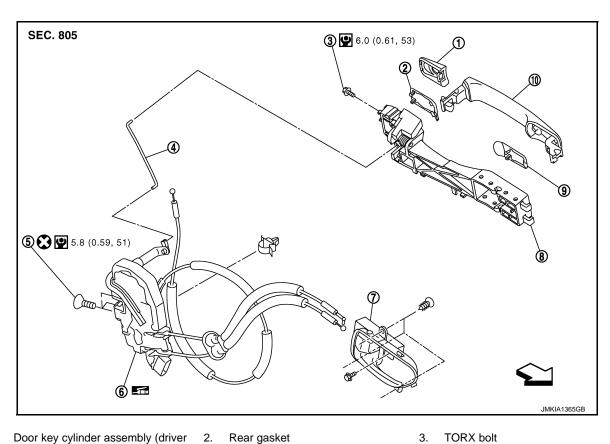
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Revision: 2013 December DLK-395 2013 ROGUE

## FRONT DOOR LOCK DOOR LOCK

DOOR LOCK: Exploded View

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- Door key cylinder assembly (driver side)
  - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side only)
- 7. Inside handle
- 10. Outside handle assembly

TORX bolt

- 8. Outside handle bracket
- 6. Door lock assembly
- Front gasket

Refer to <u>GI-4, "Components"</u> for symbols in the figure.

## DOOR LOCK: Removal and Installation

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## REMOVAL

- 1. Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Disconnect inside handle cable.
- 3. Remove front door glass. Refer to GW-20, "Removal and Installation".
- 4. Remove front door module assembly. Refer to GW-23, "Removal and Installation".
- 5. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

### FRONT DOOR LOCK

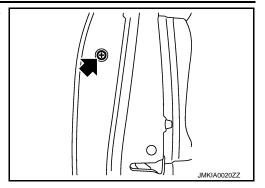
### < REMOVAL AND INSTALLATION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

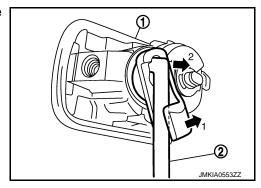
Remove door side grommet, and loosen TORX bolt from grommet hole.

### **CAUTION:**

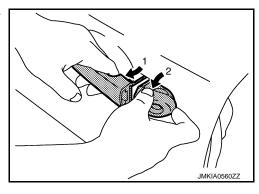
Never forcibly remove TORX bolt.



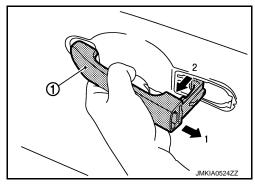
- 7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).
  - 1. Door key cylinder assembly
  - 2. Key rod



8. While pulling outside handle, remove door key cylinder assembly.



- 9. Disconnect front door request switch harness connector (models with Intelligent Key system).
- 10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



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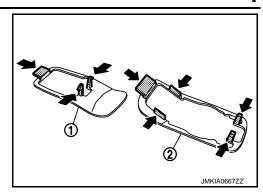
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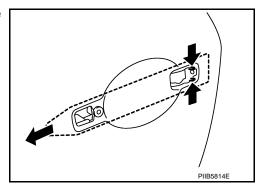
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11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



- 13. Reach in to separate outside handle cable connection on outside handle bracket.
- 14. Remove door lock assembly TORX bolts.
- 15. Disconnect door lock actuator connector, and then remove door lock assembly.
- 16. Remove key rod from door lock assembly.

### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation.

### **INSIDE HANDLE**

INSIDE HANDLE: Exploded View

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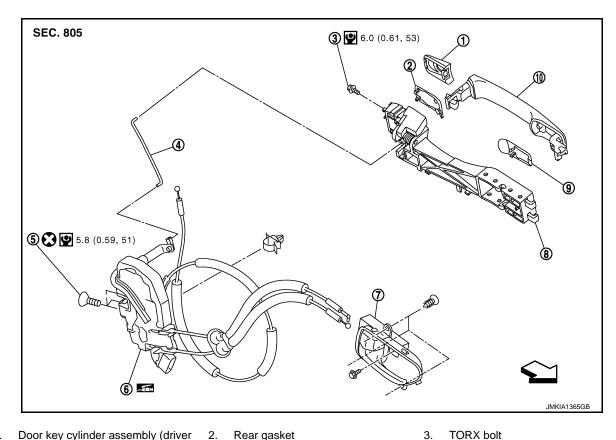
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- Door key cylinder assembly (driver side)
  - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side only)
- 7. Inside handle
- 10. Outside handle assembly
- : Vehicle front

TORX bolt

- 8. Outside handle bracket
- 6. Door lock assembly
- 9. Front gasket

Refer to GI-4, "Components" for symbols in the figure.

### INSIDE HANDLE: Removal and Installation

1. Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".

- 2. Remove inside handle mounting screws.
- 3. Disconnect inside handle cable, and then remove the inside handle.

### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

**REMOVAL** 

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE

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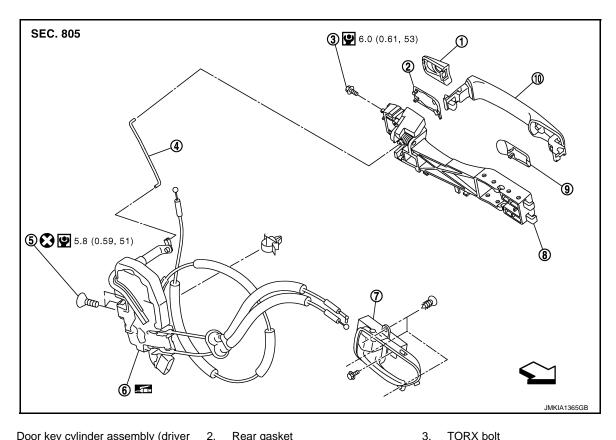
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### **OUTSIDE HANDLE: Exploded View**

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- Door key cylinder assembly (driver
  - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side only)
- 7. Inside handle
- 10. Outside handle assembly
- ⟨□ : Vehicle front
- TORX bolt
  - Outside handle bracket

Rear gasket

- Door lock assembly
- 9. Front gasket

OUTSIDE HANDLE: Removal and Installation

Refer to GI-4, "Components" for symbols in the figure.

# **REMOVAL**

- Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Removal and Installation".
- 2. Disconnect inside handle cable.
- 3. Remove front door glass. Refer to GW-20, "Removal and Installation".
- 4. Remove front door module assembly. Refer to GW-23, "Removal and Installation".
- Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

### FRONT DOOR LOCK

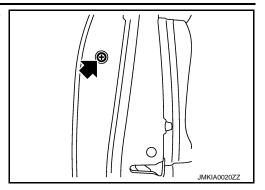
### < REMOVAL AND INSTALLATION >

### [WITHOUT INTELLIGENT KEY SYSTEM]

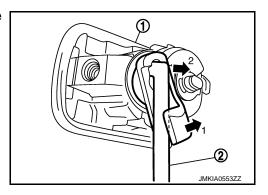
Remove door side grommet, and loosen TORX bolt from grommet hole.

### **CAUTION:**

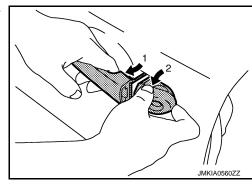
Never forcibly remove TORX bolt.



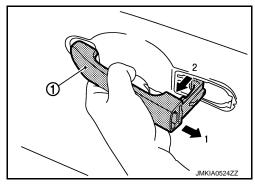
- 7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).
  - 1. Door key cylinder assembly
  - 2. Key rod



8. While pulling outside handle, remove door key cylinder assembly.



- 9. Disconnect front door request switch harness connector (models with Intelligent Key system).
- 10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



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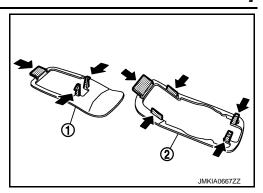
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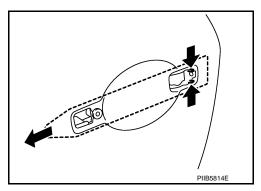
### FRONT DOOR LOCK

### [WITHOUT INTELLIGENT KEY SYSTEM]

11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



13. Reach in to separate outside handle cable connection on outside handle bracket.

### **INSTALLATION**

Install in the reverse order of removal.

### **CAUTION:**

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation.

# REAR DOOR LOCK

**DOOR LOCK** 

DOOR LOCK: Exploded View



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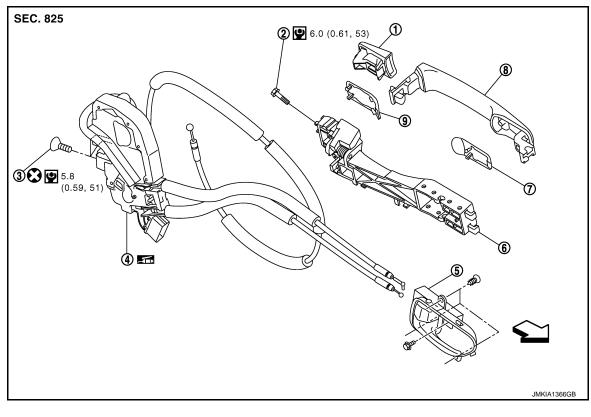
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- 1. Outside handle escutcheon
- 4. Door lock assembly
- 7. Front gasket
- $\ \ \ \ \ \ \ \ \ \ \$  : Vehicle front

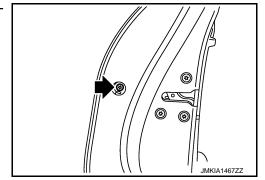
**REMOVAL** 

- 2. TORX bolt
- 5. Inside handle
- 8. Outside handle assembly
- 3. TORX bolt
- 6. Outside handle bracket
- 9. Rear gasket

Refer to GI-4, "Components" for symbols in the figure.

### DOOR LOCK: Removal and Installation

- 1. Remove rear door finisher. Refer to <a href="INT-15">INT-15</a>, "REAR DOOR FINISHER: Removal and Installation".
- 2. Disconnect inside handle cable.
- 3. Remove rear door glass. Refer to GW-26, "Removal and Installation".
- 4. Remove door side grommet, and loosen TORX bolt from grommet hole.



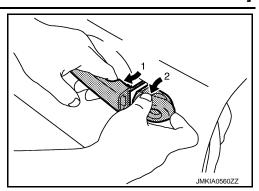
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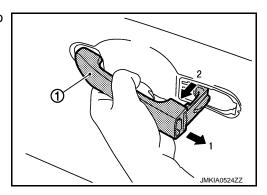
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Revision: 2013 December DLK-403 2013 ROGUE

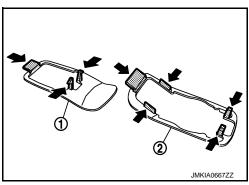
While pulling outside handle, remove outside handle escutcheon.



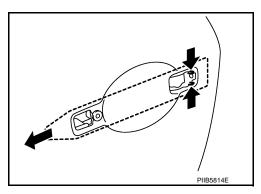
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



- 9. Reach in to separate outside handle cable connection on outside handle bracket.
- 10. Disconnect harness connector on door lock actuator.
- 11. Remove door lock mounting bolts.
- 12. Remove door lock assembly.

### **INSTALLATION**

Install in the reverse order of removal.

#### CAUTION:

Check door open/close, lock/unlock operation after installation.

**INSIDE HANDLE** 

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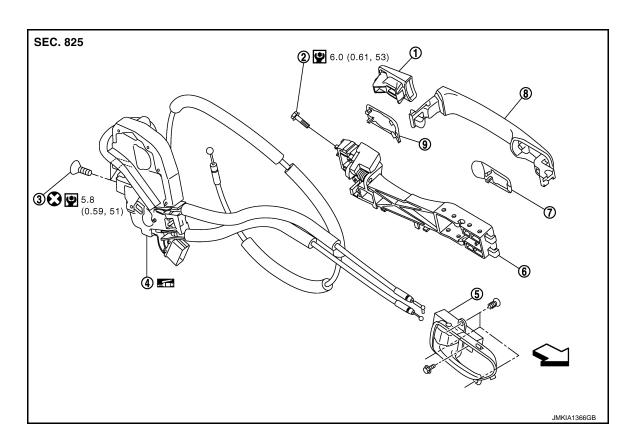
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# INSIDE HANDLE: Exploded View



- 1. Outside handle escutcheon
- 4. Door lock assembly
- 7. Front gasket
- ⟨
  → : Vehicle front

- 2. TORX bolt
- 5. Inside handle
- 8. Outside handle assembly
- 3. TORX bolt
- 6. Outside handle bracket
- 9. Rear gasket

Refer to GI-4, "Components" for symbols in the figure.

### INSIDE HANDLE: Removal and Installation

- 1. Remove rear door finisher. Refer to INT-15, "REAR DOOR FINISHER: Removal and Installation".
- 2. Remove inside handle mounting screws.
- 3. Disconnect inside handle cable, and then remove inside handle.

### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

**REMOVAL** 

Check door open/close, lock/unlock operation after installation.

**OUTSIDE HANDLE** 

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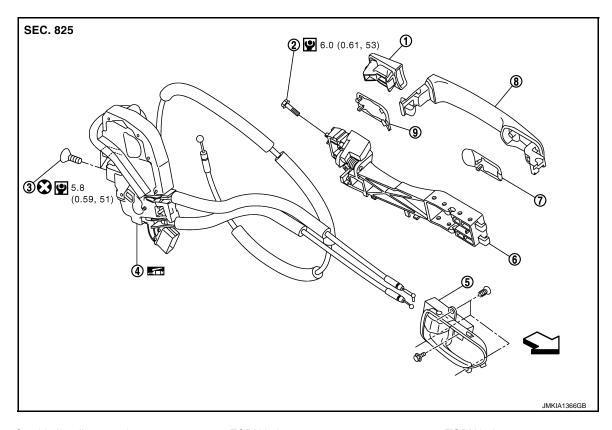
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Revision: 2013 December DLK-405 2013 ROGUE

# **OUTSIDE HANDLE: Exploded View**

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- 1. Outside handle escutcheon
- 4. Door lock assembly
- 7. Front gasket

- 2. TORX bolt
- 5. Inside handle
- 8. Outside handle assembly
- 3. TORX bolt
- 6. Outside handle bracket
- 9. Rear gasket

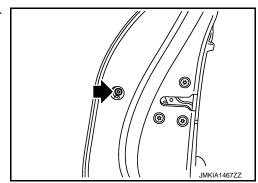
Refer to  $\underline{\mbox{GI-4.}\mbox{"}\mbox{Components"}}$  for symbols in the figure.

### OUTSIDE HANDLE: Removal and Installation

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### **REMOVAL**

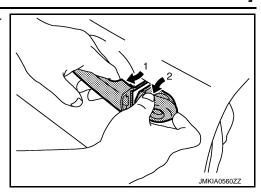
- 1. Remove rear door finisher. Refer to INT-15, "REAR DOOR FINISHER: Removal and Installation".
- 2. Disconnect inside handle cable.
- 3. Remove rear door glass. Refer to GW-26, "Removal and Installation".
- 4. Remove door side grommet, and loosen TORX bolt from grommet hole.



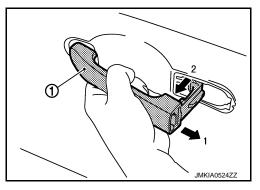
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### [WITHOUT INTELLIGENT KEY SYSTEM]

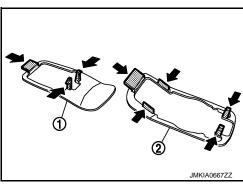
While pulling outside handle, remove outside handle escutcheon



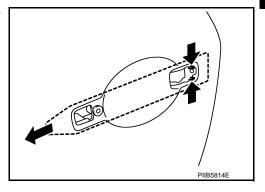
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.

### **INSTALLATION**

Install in the reverse order of removal.

**CAUTION:** 

Check door open/close, lock/unlock operation after installation.

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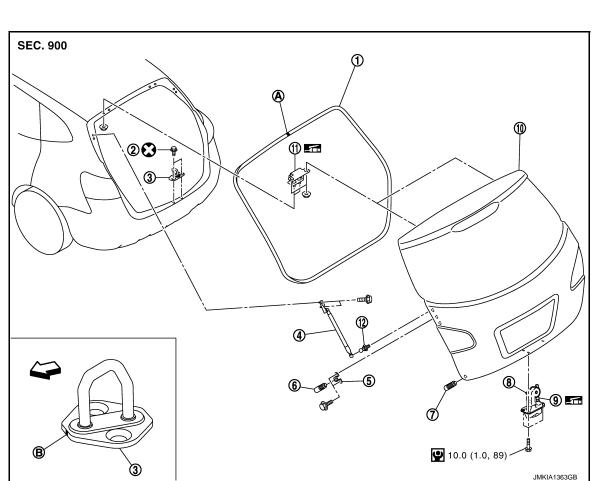
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# BACK DOOR LOCK

DOOR LOCK

DOOR LOCK: Exploded View



- 1. Back door weather-strip
- 4. Back door stay
- 7. Bumper rubber lower
- 10. Back door assembly
- A : Center mark

- 2. TORX bolt
- 5. Bumper rubber bracket
- 8. Emergency lever
- 11. Back door hinge
- B : Front mark

- 3. Back door striker
- 6. Bumper rubber side
- 9. Back door lock assembly
- 12. Back door stay stud ball

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Refer to GI-4, "Components" for symbols in the figure.

# DOOR LOCK: Removal and Installation

#### **REMOVAL**

- Remove back door lower finisher inner. Refer to <u>INT-34, "Removal and Installation"</u>.
- Disconnect back door lock assembly and back door opener switch connectors.
- 3. Remove back door lock mounting bolts, and then remove back door lock assembly.

### **INSTALLTION**

Install in the reverse order of removal.

### **CAUTION:**

Check back door open/close, lock/unlock operation after installation.

### [WITHOUT INTELLIGENT KEY SYSTEM]

# **DOOR SWITCH**

# **Exploded View**

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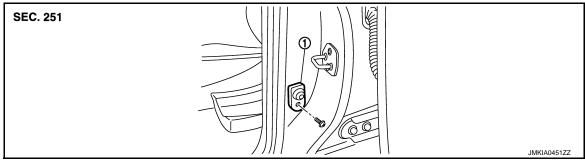
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1. Door switch (driver side)

### Removal and Installation

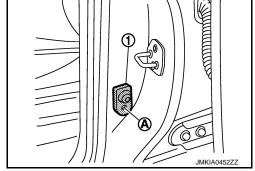
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### **REMOVAL**

1. Remove the door switch mounting bolt (A), and then remove door switch (1).

### NOTE:

The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



### **INSTALLATION**

Install in the reverse order of removal.

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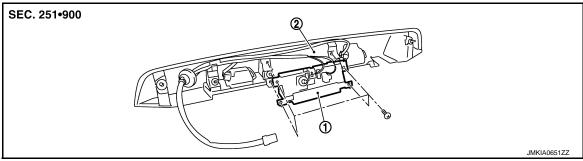
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# **BACK DOOR OPENER SWITCH**

# **Exploded View**

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1. Back door opener switch assembly

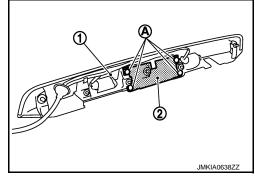
Back door finisher

### Removal and Installation

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### **REMOVAL**

- 1. Remove the back door finisher. Refer to EXT-34, "Removal and Installation".
- 2. Remove the back door opener switch assembly mounting screws (A).
- 3. Remove the back door opener switch assembly (2) from back door finisher (1).

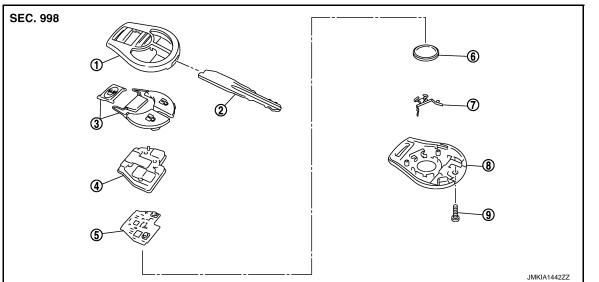


### **INSTALLATION**

Install in the reverse order of removal.

### **KEYFOB BATTERY**

### Exploded View



- 1. Upper case
- Switch rubber
- 7. plate

- Key
- Board surface
- Lower case

- 3. Switch cover
- Battery
- Screw

### Removal and Installation

#### REMOVAL

1. Remove screw (9) on the rear of keyfob.

2. Place the key with the lower case (8) facing up. Set a screw-driver wrapped with tape between upper case (1) and lower case (8) and then separate the lower case (8) from the upper case (1). **CAUTION:** 

- Do not touch the circuit board or battery terminal.
- The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.
- 3. When replacing the circuit board assembly, remove circuit board assembly from the upper case (1). [Circuit board assembly: Switch rubber (4) + Board surface (5)]

### Do not touch the printed circuits directly.

4. Remove the battery (6) from the lower case (8) and replace it.

#### : Coin-type lithium battery **Battery replacement** (CR1620)

#### **CAUTION:**

When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact

5. After replacement, fit the lower and upper cases together, part (4), (7) and tighten with the screw. **CAUTION:** 

After replacing the battery, Be sure to check that door locking operates normally using the keyfob. Refer to <u>DLK-303</u>, "Component Function Check".

#### INSTALLATION

Install in the reverse order of removal.

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# **REMOTE KEYLESS ENTRY RECEIVER**

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

# REMOTE KEYLESS ENTRY RECEIVER

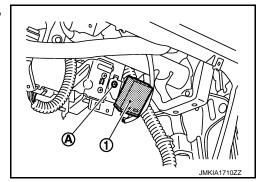
Exploded View

Refer to IP-13, "Exploded View".

Removal and Installation

### **REMOVAL**

- 1. Remove the glove box. Refer to IP-14, "Removal And Installation".
- 2. Remove the remote keyless entry receiver mounting bolt (A), and then remove remote keyless entry receiver (1).



### **INSTALLATION**

Install in the reverse order of removal.