

SECTION **DLK** DOOR & LOCK

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

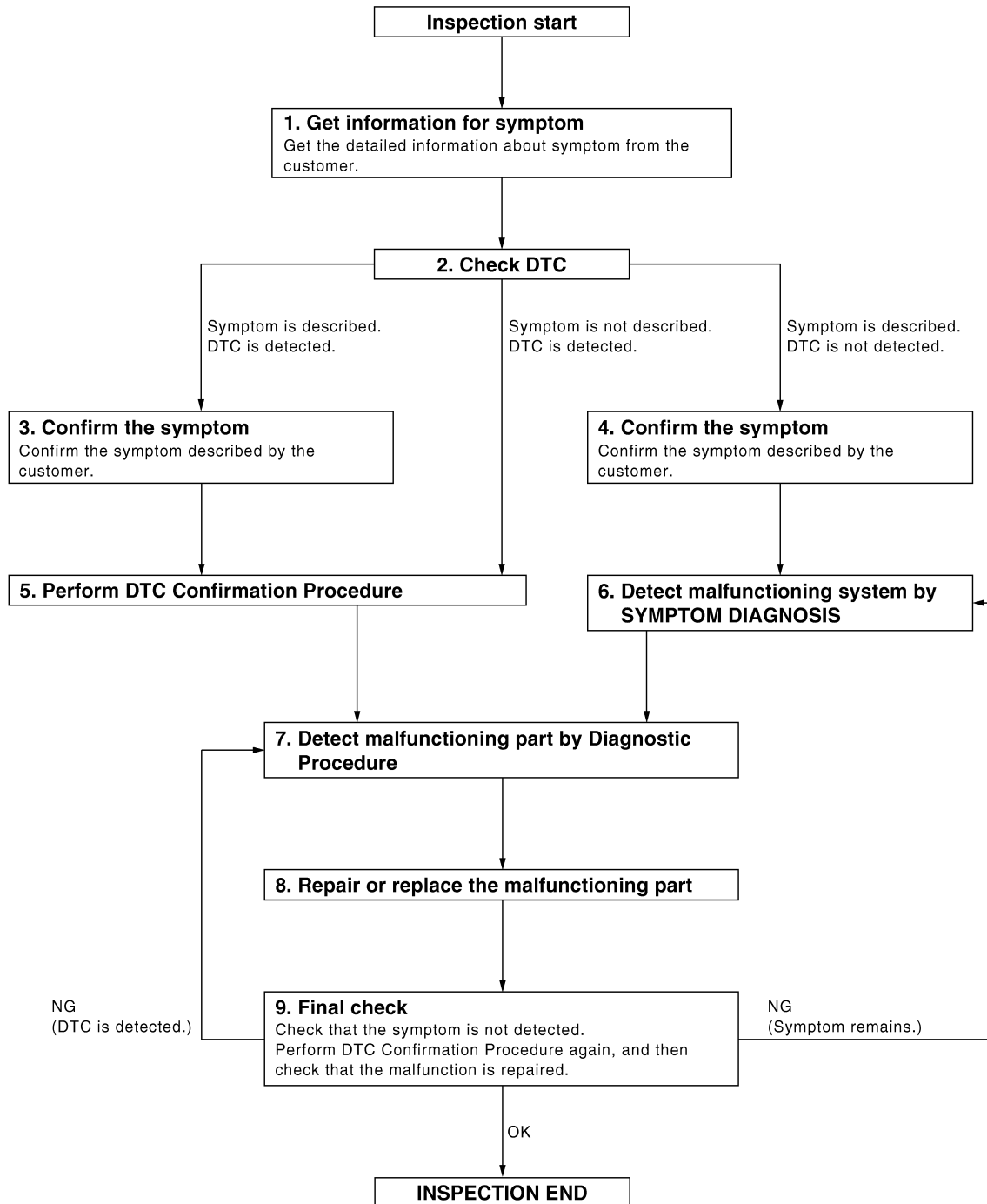
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003842903

OVERALL SEQUENCE



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DETAILED FLOW

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3.
Symptom is described, DTC is not displayed>>GO TO 4.
Symptom is not described, DTC is displayed>>GO TO 5.

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to [DLK-175. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.
NO >> Refer to [GI-35. "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.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

Is malfunctioning part detected?

YES >> GO TO 8.

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

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9.FINAL CHECK

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

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

Does the symptom reappear?

YES (DTC is detected)>>GO TO 7.

YES (Symptom remains)>>GO TO 6.

NO >> **INSPECTION END**

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000003842904

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

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Refer to the CONSULT-III operation manual for the initialization procedure.

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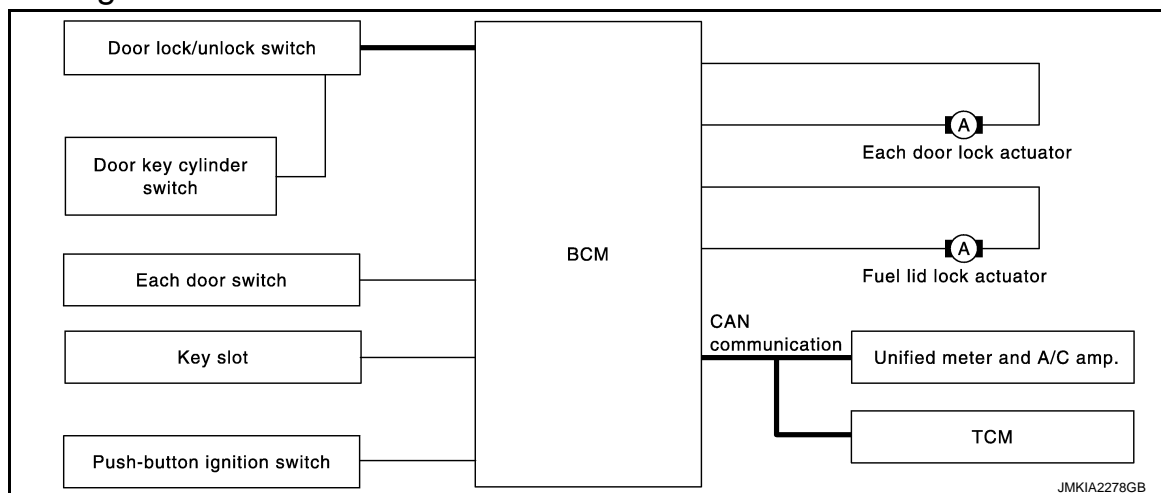
POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

POWER DOOR LOCK SYSTEM

System Diagram



System Description

INFOID:000000003842907

DOOR LOCK FUNCTION

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

Door Key Cylinder

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

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to [DLK-53. "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)".](#)

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.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 15 MPH (24 km/h) 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 24 km/h (15 miles) 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 lock operation setting of the automatic door lock/unlock function can be changed.

With CONSULT-III

The ON/OFF switching of the automatic door lock function and the type selection of the automatic door lock/unlock function can be performed at the WORK SUPPORT setting in CONSULT-III.

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

Without CONSULT- III

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

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

OFF → ON : 2 blinks

ON → OFF : 1 blink

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.

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 position.

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 position.

Setting change of Automatic Door Lock/Unlock Function

The unlock operation setting of the automatic door lock/unlock function can be changed.

With CONSULT- III

The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed at the WORK SUPPORT setting in CONSULT-III.

Without CONSULT- III

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
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 switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

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

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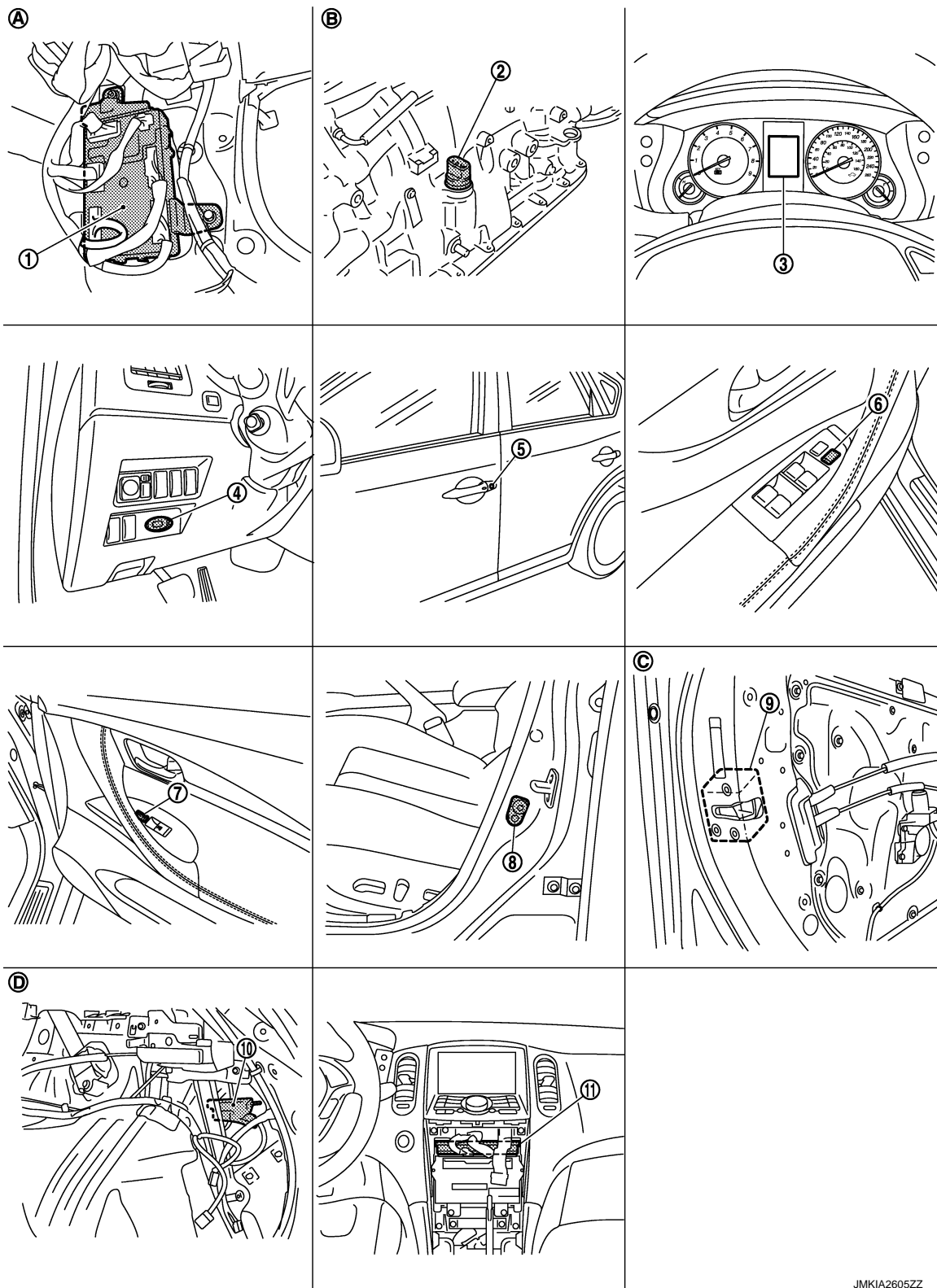
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POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000003842908



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1. BCM M118, M119, M121, M122, M123
4. Key slot M22

2. A/T assembly connector F51
5. Door key cylinder switch
[Front door lock assembly (driver side) D15]

3. Combination meter M53
6. Door lock and unlock switch
(Power window main switch D8, D9)

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|---|--|---|
| 7. Door lock and unlock switch [Front power window switch (passenger) D38] | 8. Front door switch (driver side) B16 | 9. Door lock actuator [Front door lock assembly (driver side) D15] |
| 10. Fuel lid lock actuator B242 | 11. Unified meter and A/C amp. M66, M67 | |
| A. Dash side lower (passenger side) | B. A/T assembly (TCM is built in A/T assembly) | C. View with front door finisher (LH) is removed |
| D. View with luggage side finisher lower (RH) is removed | | |

Component Description

INFOID:000000003842909

| Item | Function |
|-----------------------------|---|
| BCM | Controls the door lock function and room lamp function. |
| Door lock and unlock switch | Input lock or unlock signal to BCM. |
| Door lock actuator | Output lock/unlock signal from BCM and locks/unlocks each door. |
| Door switch | Input door open/close condition to BCM. |
| Door key cylinder switch | <ul style="list-style-type: none">Input lock or unlock signal to power window main switch.Power window main switch transmits door lock/unlock signal to BCM. |
| Key slot | Input key insert/remove signal to BCM. |
| Unified meter and A/C amp. | <ul style="list-style-type: none">Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer.Transmits vehicle speed signal to BCM via CAN communication line. |
| Combination meter | Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter. |
| TCM | Transmit shift position signal to BCM via CAN communication line. |
| Push-button ignition switch | Input push-button ignition switch ON/OFF condition to BCM. |

DLK

INTELLIGENT KEY SYSTEM

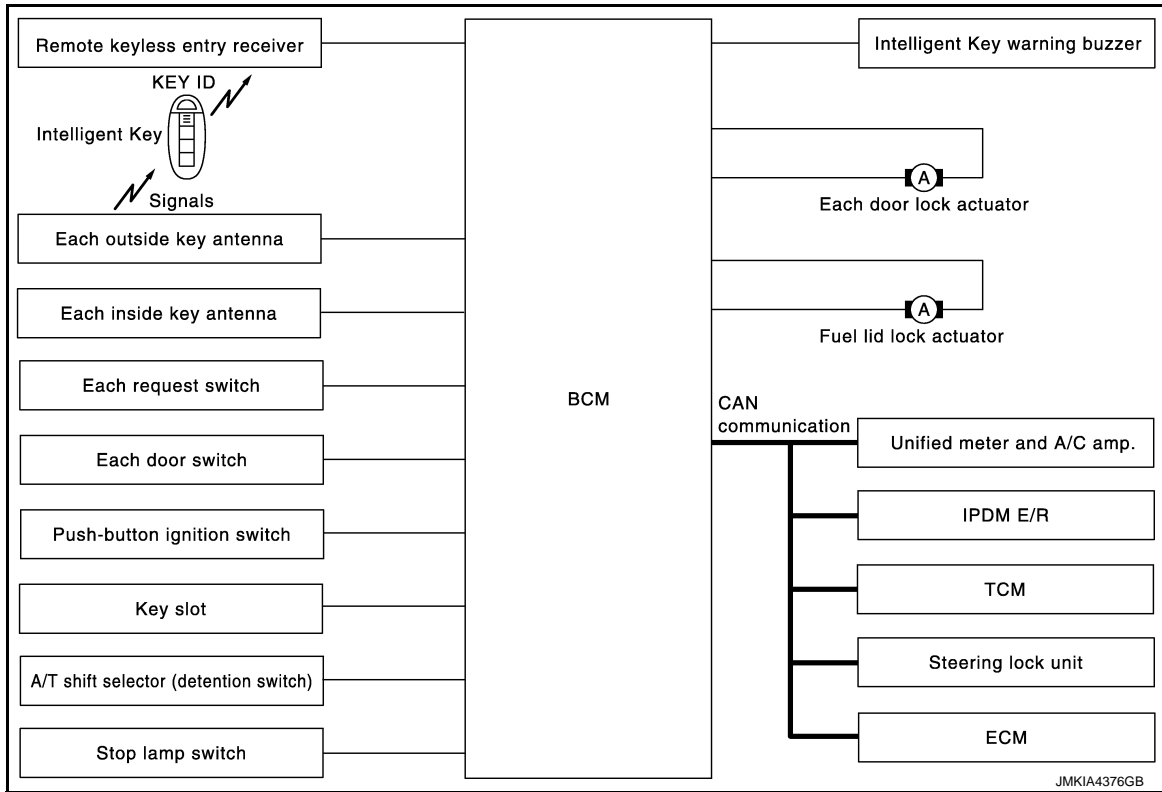
< SYSTEM DESCRIPTION >

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram

INFOID:000000003842910



INTELLIGENT KEY SYSTEM : System Description

INFOID:000000003842911

- 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 communication 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 using CONSULT-III.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered at one time.
- It is possible to perform a diagnosis on the system and register an Intelligent Key using CONSULT-III.

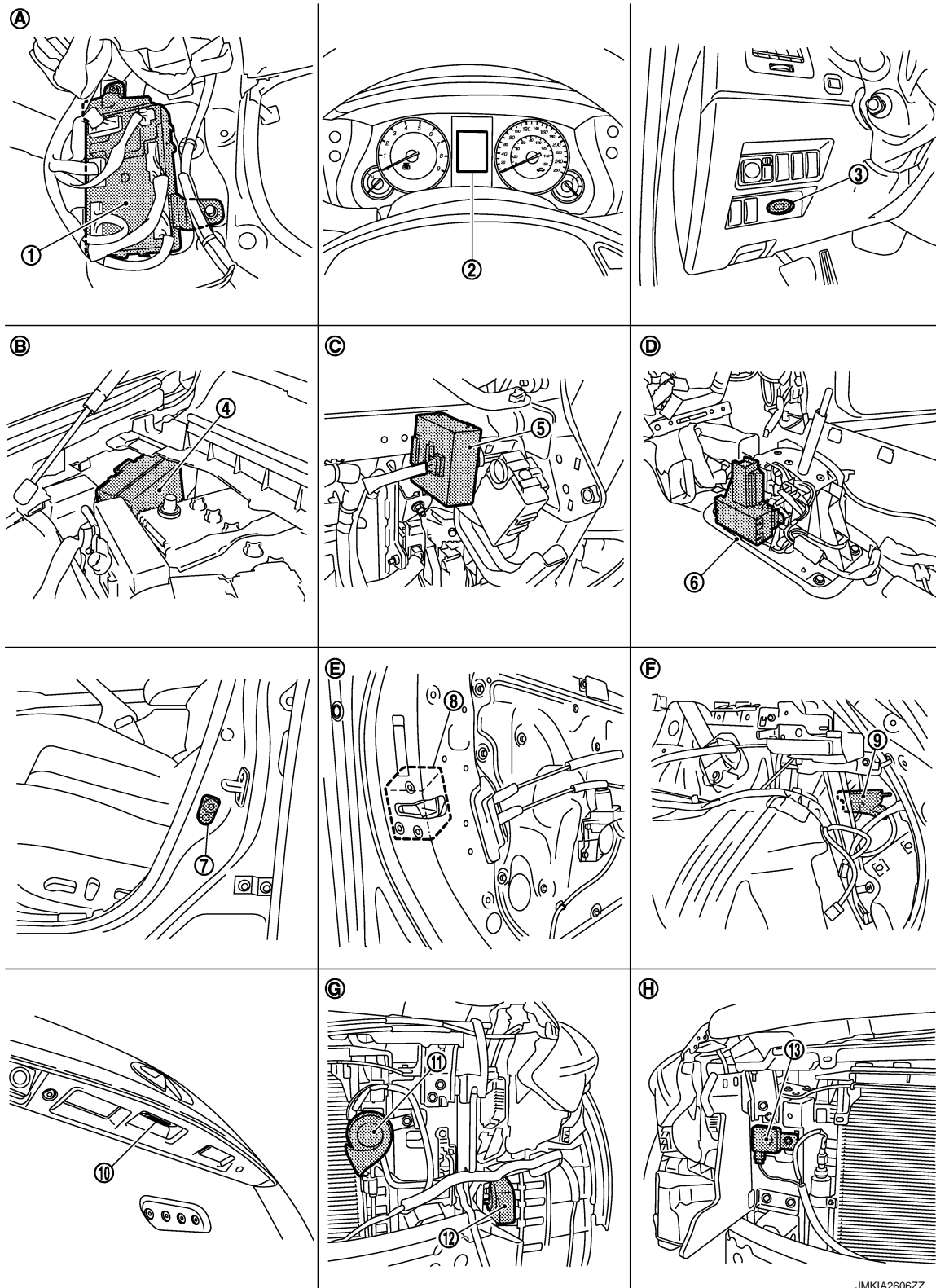
| Function | Description | Refer |
|-------------------------------|---|------------------------|
| Door lock function | Lock/unlock can be performed by pressing the request switch. | DLK-19 |
| Remote keyless entry function | Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key. | DLK-28 |
| Back door open function | The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch. | DLK-24 |
| Welcome light function | The puddle lamp and room lamp automatically turn ON, if the Intelligent Key is in the door outside key antenna detection area. | DLK-33 |
| Key reminder function | The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle. | DLK-36 |
| 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-39 |
| Engine start function | The engine can turn on while carrying the Intelligent Key. | SEC-9 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:000000003842912



1. BCM M118, M119, M120, M121, M122, M123
4. IPDM E/R E5, E6

2. Combination meter M53

5. Remote keyless entry receiver M104

3. Key slot M22

6. A/T shift selector (detention switch) M137

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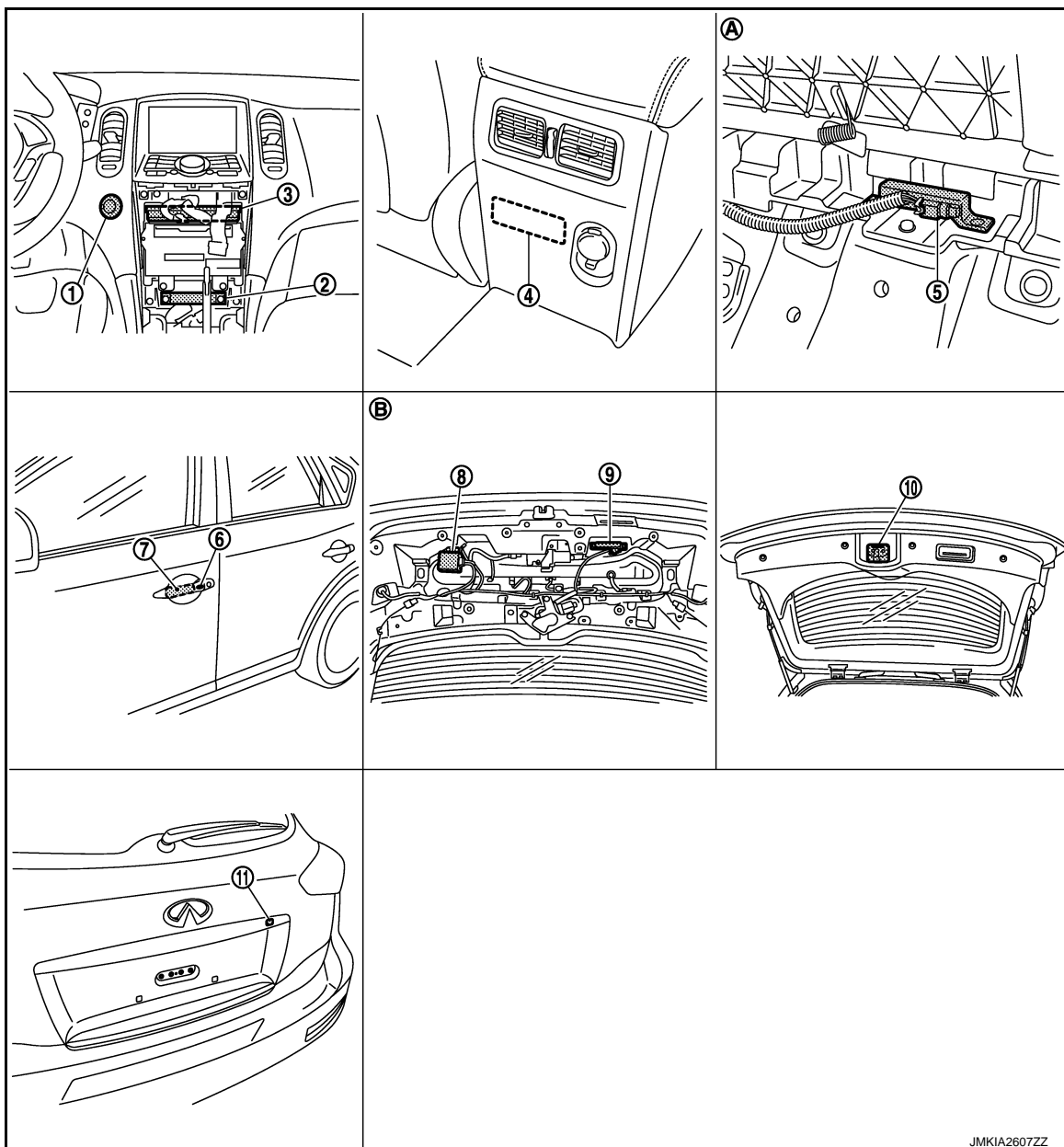
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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front door switch (driver side) B16 | 8. Front door lock assembly (driver side) D15 | 9. Fuel lid lock actuator B242 |
| 10. Back door opener switch D114 | 11. Horn (low) E69, E70 | 12. Horn (high) E61, E62 |
| 13. Intelligent Key warning buzzer E80 | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



- | | | |
|--|--|---|
| 1. Push-button ignition switch (push switch) M50 | 2. Inside key antenna (instrument center) M131 | 3. Unified meter and A/C amp. M66, M67 |
| 4. Inside key antenna (console) M146 | 5. Inside key antenna (luggage room) B228 | 6. Front outside handle LH (request switch) D13 |
| 7. Front outside handle LH (outside key antenna) D14 | 8. Back door control unit D123 | 9. Outside key antenna (back door) D118 |

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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | |
|---|---|
| 10. Back door lock assembly D122 | 11. Back door opener request switch D116 |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed |

INTELLIGENT KEY SYSTEM : Component Description

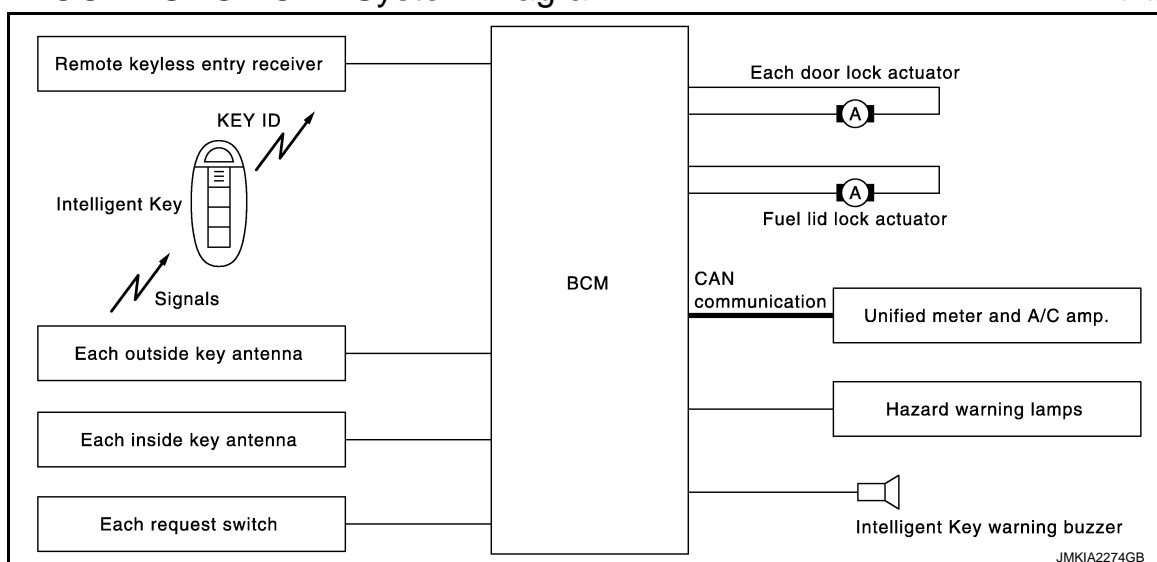
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| Item | Function |
|--------------------------------|--|
| BCM | Controls the Intelligent Key system. |
| Door lock actuator | Output lock/unlock signal from BCM and locks/unlocks each door. |
| Door switch | Input door open/close condition to BCM. |
| Remote keyless entry receiver | Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM. |
| Request switch | Input lock/unlock operation to BCM. |
| Intelligent Key | Transmits button operation to remote keyless entry receiver. |
| Outside key antenna | Detects if Intelligent Key is outside the vehicle. |
| Inside key antenna | Detects if Intelligent Key is inside the vehicle. |
| Unified meter and A/C amp. | <ul style="list-style-type: none"> Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to BCM via CAN communication line. |
| Combination meter | Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter. |
| Intelligent Key warning buzzer | Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound. |

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram

INFOID:000000003842914



DOOR LOCK FUNCTION : System Description

INFOID:000000003842915

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

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, checks 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.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- BCM lock/unlock each door (except back door) and fuel lid lock actuator and sounds Intelligent Key buzzer warning (lock: 2 times, unlock: 1 time) at the same time as a reminder.

OPERATION CONDITION

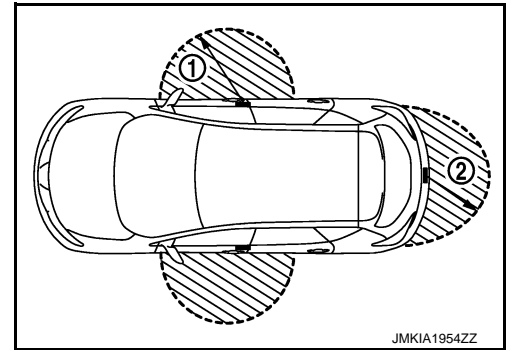
If the following conditions are satisfied, door lock/unlock operation is performed if the request switch is operated.

| Each request switch operation | Operation condition |
|-------------------------------|--|
| Lock operation | <ul style="list-style-type: none">• All doors are closed• Ignition switch is in the OFF position• Intelligent Key is out of key slot• Intelligent Key is outside the vehicle• Intelligent Key is within outside key antenna detection area |
| Unlock Operation | <ul style="list-style-type: none">• Intelligent Key is outside the vehicle• Intelligent Key is within outside key antenna detection area * |

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

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver and passenger door handles (1) and the back door request switch (2). 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 and fuel lid are locked.

When an UNLOCK signal is sent from door request switch (driver side or passenger side) once, driver's door and fuel lid are unlocked.

Then, if an UNLOCK signal is sent from door request switch (driver side and passenger side) again within 60 seconds, all other doors are unlocked.

HAZARD AND BUZZER REMINDER FUNCTION

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

When doors are locked or 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 blinks | Intelligent Key warning buzzer sounds |
|-----------|----------------------------|---------------------------------------|
| Unlock | Once | Once |
| Lock | Twice | Twice |

How to Change Hazard and Buzzer Reminder Mode

Refer to [SEC-25. "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)".](#)

AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is in the 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 and fuel lid are locked.

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

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

Auto door lock mode can be changed in "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [SEC-25. "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

INTERIOR ROOM LAMP CONTROL

Intelligent Key system turns on interior lamp by receiving UNLOCK signal from door request switch. For detailed description, refer to [INL-6. "System Description"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

| Door lock function | Intelligent Key | Key slot | Remote keyless entry receiver | Door switch | Door request switch | Door lock actuator and fuel lid lock actuator | Inside key antenna | Outside key antenna | Intelligent Key warning buzzer | CAN communication system | BCM | Hazard warning lamp | Push-button ignition switch | Combination meter |
|--|-----------------|----------|-------------------------------|-------------|---------------------|---|--------------------|---------------------|--------------------------------|--------------------------|-----|---------------------|-----------------------------|-------------------|
| Door lock/unlock function by request switch | × | × | × | × | × | × | × | × | | | × | | | |
| Hazard and buzzer reminder function for door lock/unlock operation | | | | | | | | | × | × | × | × | | × |
| Key reminder function | × | × | × | × | × | × | × | × | × | | × | × | | |
| Selective unlock function by request switch (Driver side) | × | | | | × | × | × | × | | | × | | | |
| Selective unlock function by request switch (Passenger side) | × | | | | × | × | × | × | | | × | | | |
| Selective unlock function by request switch (back door) | × | | | | × | | × | × | | | × | | | |
| Auto door lock function | × | × | | × | × | × | | | | | × | | × | |

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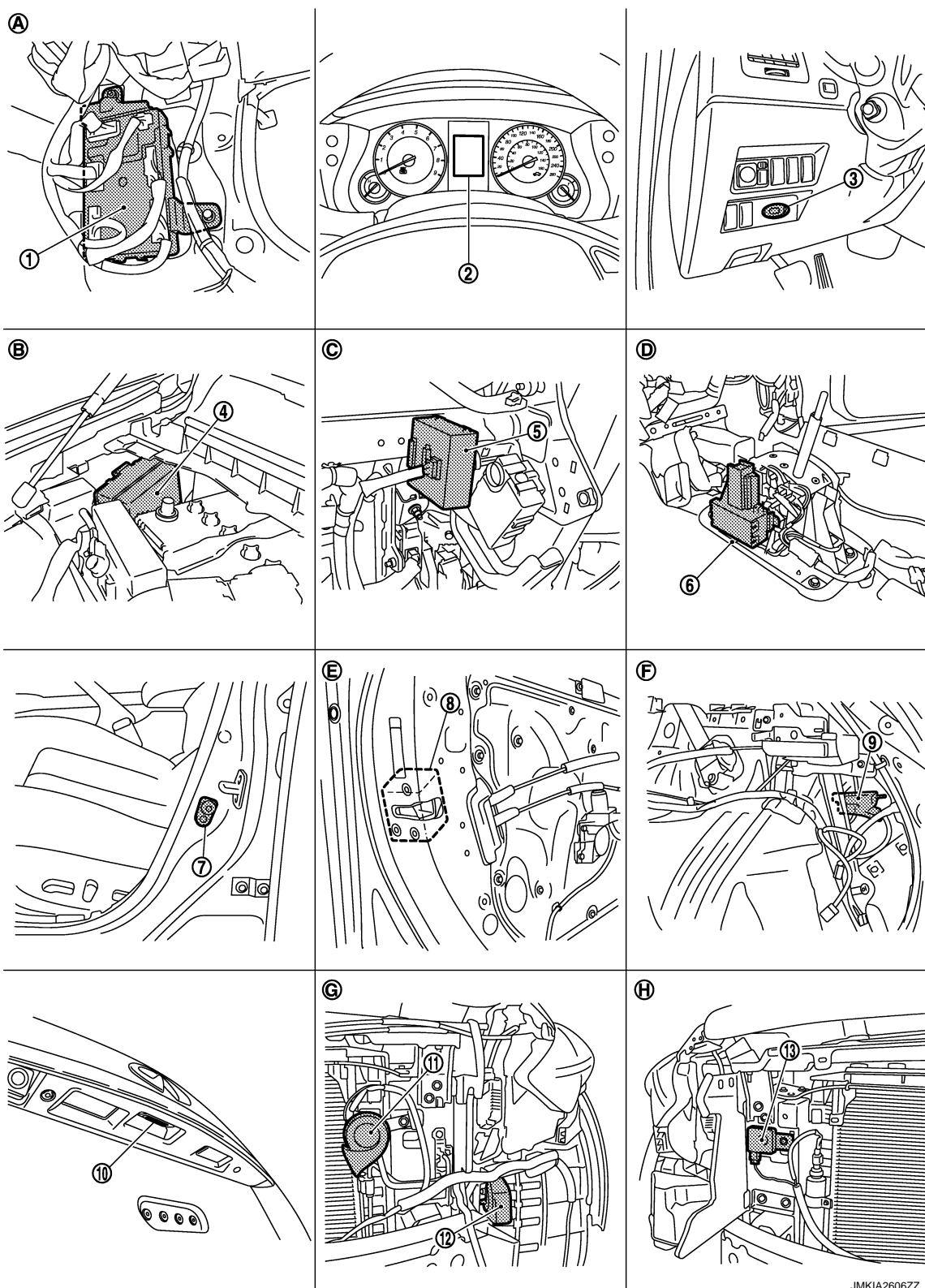
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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

DOOR LOCK FUNCTION : Component Parts Location

INFOID:000000003910691



1. BCM M118, M119, M120, M121, M122, M123
4. IPDM E/R E5, E6

2. Combination meter M53
5. Remote keyless entry receiver M104

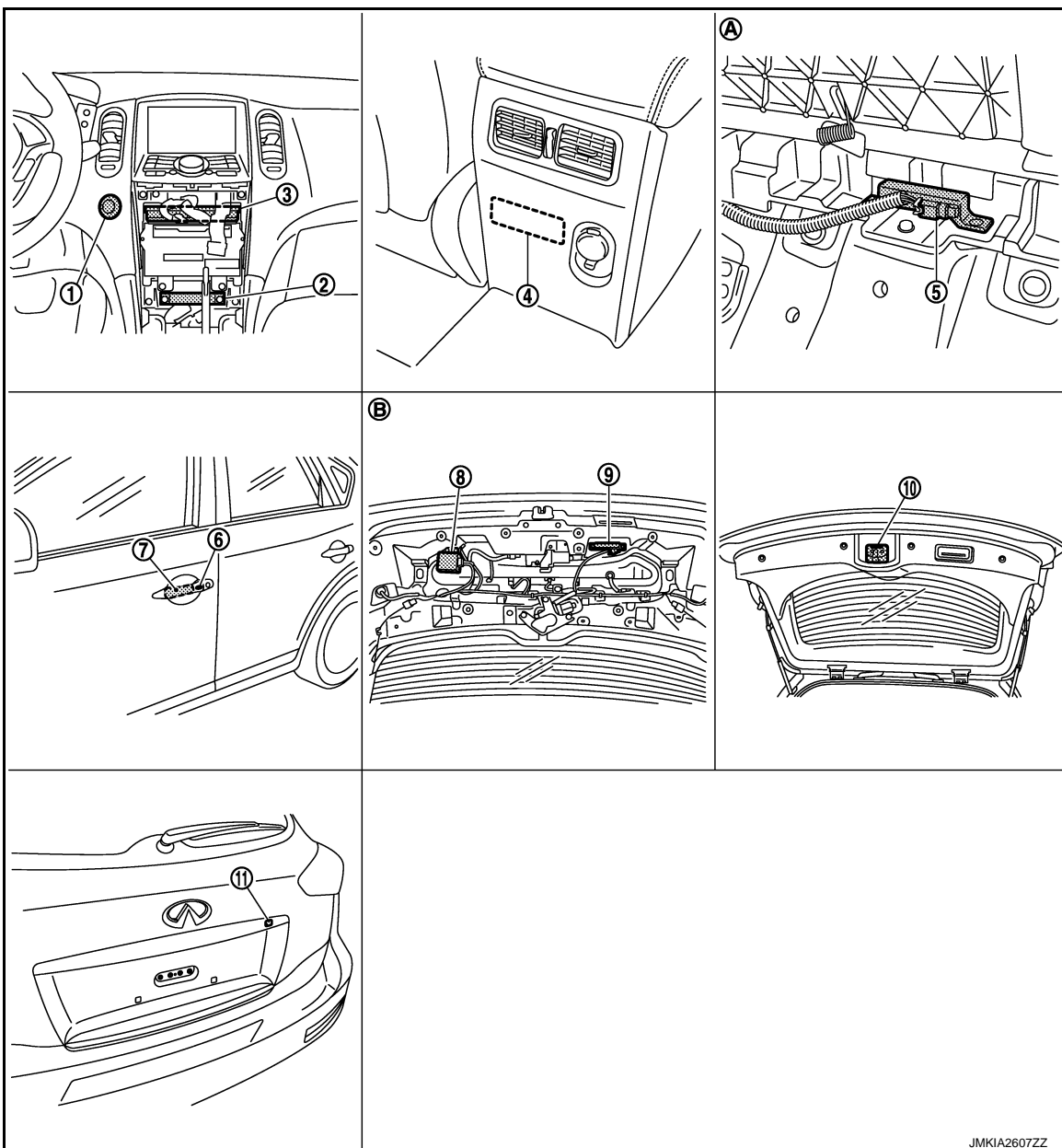
3. Key slot M22
6. A/T shift selector (detention switch) M137

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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front door switch (driver side) B16 | 8. Front door lock assembly (driver side) D15 | 9. Fuel lid lock actuator B242 |
| 10. Back door opener switch D114 | 11. Horn (low) E69, E70 | 12. Horn (high) E61, E62 |
| 13. Intelligent Key warning buzzer E80 | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|--|--|---|
| 1. Push-button ignition switch (push switch) M50 | 2. Inside key antenna (instrument center) M131 | 3. Unified meter and A/C amp. M66, M67 |
| 4. Inside key antenna (console) M146 | 5. Inside key antenna (luggage room) B228 | 6. Front outside handle LH (request switch) D13 |
| 7. Front outside handle LH (outside key antenna) D14 | 8. Back door control unit D123 | 9. Outside key antenna (back door) D118 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | |
|---|---|
| 10. Back door lock assembly D122 | 11. Back door opener request switch D116 |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed |

DOOR LOCK FUNCTION : Component Description

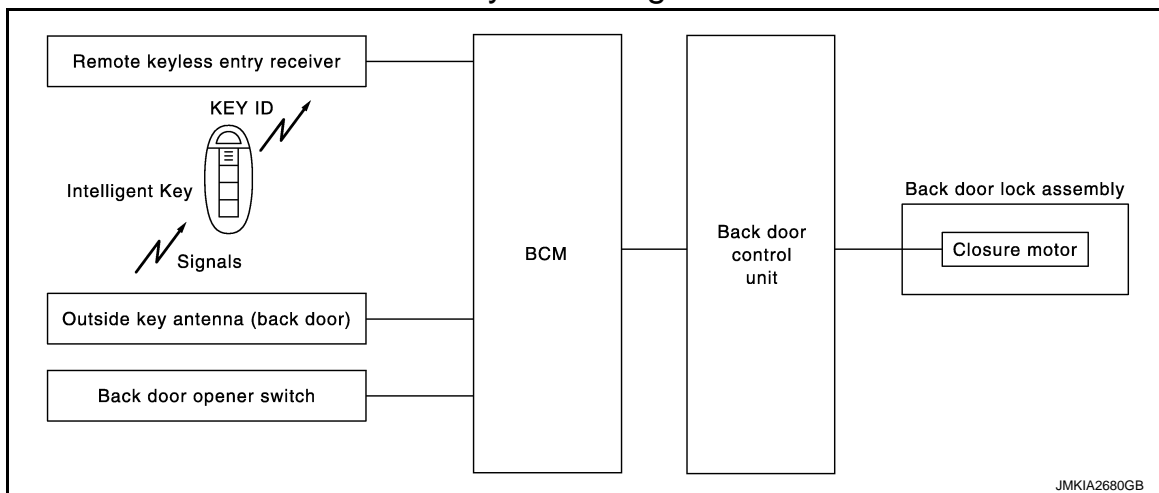
INFOID:000000003842917

| Item | Function |
|--------------------------------|--|
| BCM | Controls the door lock function. |
| Door lock actuator | Output lock/unlock signal from BCM and locks/unlocks each door. |
| Door switch | Input door open/close condition to BCM. |
| Remote keyless entry receiver | Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM. |
| Request switch | Input lock/unlock operation to BCM. |
| Intelligent Key | Transmits button operation to remote keyless entry receiver. |
| Outside key antenna | Detects if Intelligent Key is outside the vehicle. |
| Inside key antenna | Detects if Intelligent Key is inside the vehicle. |
| Unified meter and A/C amp. | <ul style="list-style-type: none"> Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to BCM via CAN communication line. |
| Combination meter | Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter. |
| Intelligent Key warning buzzer | Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound. |

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Diagram

INFOID:000000003842918



BACK DOOR OPEN FUNCTION : System Description

INFOID:000000003842919

This section describes the operation of the back door opener switch. The operation of the back door request switch is the same as the door lock function. Refer to [DLK-19, "DOOR LOCK FUNCTION : System Description"](#).

- The back door opener function can open the back door by pressing the back door opener switch while carrying the Intelligent Key. At this time, all doors other than the back door and fuel lid are locked.
- The back door opener function can open the back door by pressing the back door opener switch with all doors and fuel lid unlocked by using the door request switch or remote controller.

BACK DOOR OPEN

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (back door) and inside key antenna and transmits the request signal to the Intelligent Key. And then, checks that the Intelligent Key is near the back door.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- When the back door opener switch operation signal is transmitted from BCM, closure motor is operated in back door control unit.

The operation of the back door open is the same as the back door opener system. Refer to [DLK-48, "OPEN FUNCTION : System Description"](#)

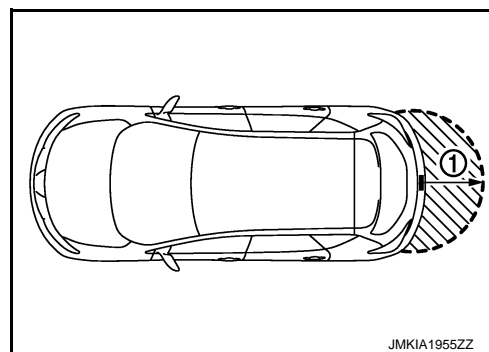
OPERATION CONDITION

If the following conditions are satisfied, the back door can be opened.

- Back door is closed
- Ignition switch is in the OFF position
- Intelligent Key is out of key slot
- Intelligent Key is outside of vehicle
- Intelligent Key is within out side key antenna detection area

OUTSIDE KEY ANTENNA DETECTION AREA

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



HAZARD AND BUZZER REMINDER FUNCTION

When the back door is opened using the back door opener switch, the hazard warning lamps and horn blink or sound as a reminder.

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

| Door lock function | Intelligent Key | Key slot | Remote keyless entry receiver | Door switch | Door request switch | Door lock actuator and fuel lid lock actuator | Inside key antenna | Outside key antenna (Rear bumper) | Intelligent Key warning buzzer | CAN communication system | BCM | Hazard warning lamp | Back door opener switch |
|---|-----------------|----------|-------------------------------|-------------|---------------------|---|--------------------|-----------------------------------|--------------------------------|--------------------------|-----|---------------------|-------------------------|
| Back door open function by back door opener switch (Carrying Intelligent Key) | × | × | × | × | × | × | × | × | | × | × | | × |
| Hazard and buzzer reminder function for door lock/unlock operation | | | | | | | | | × | × | × | × | |

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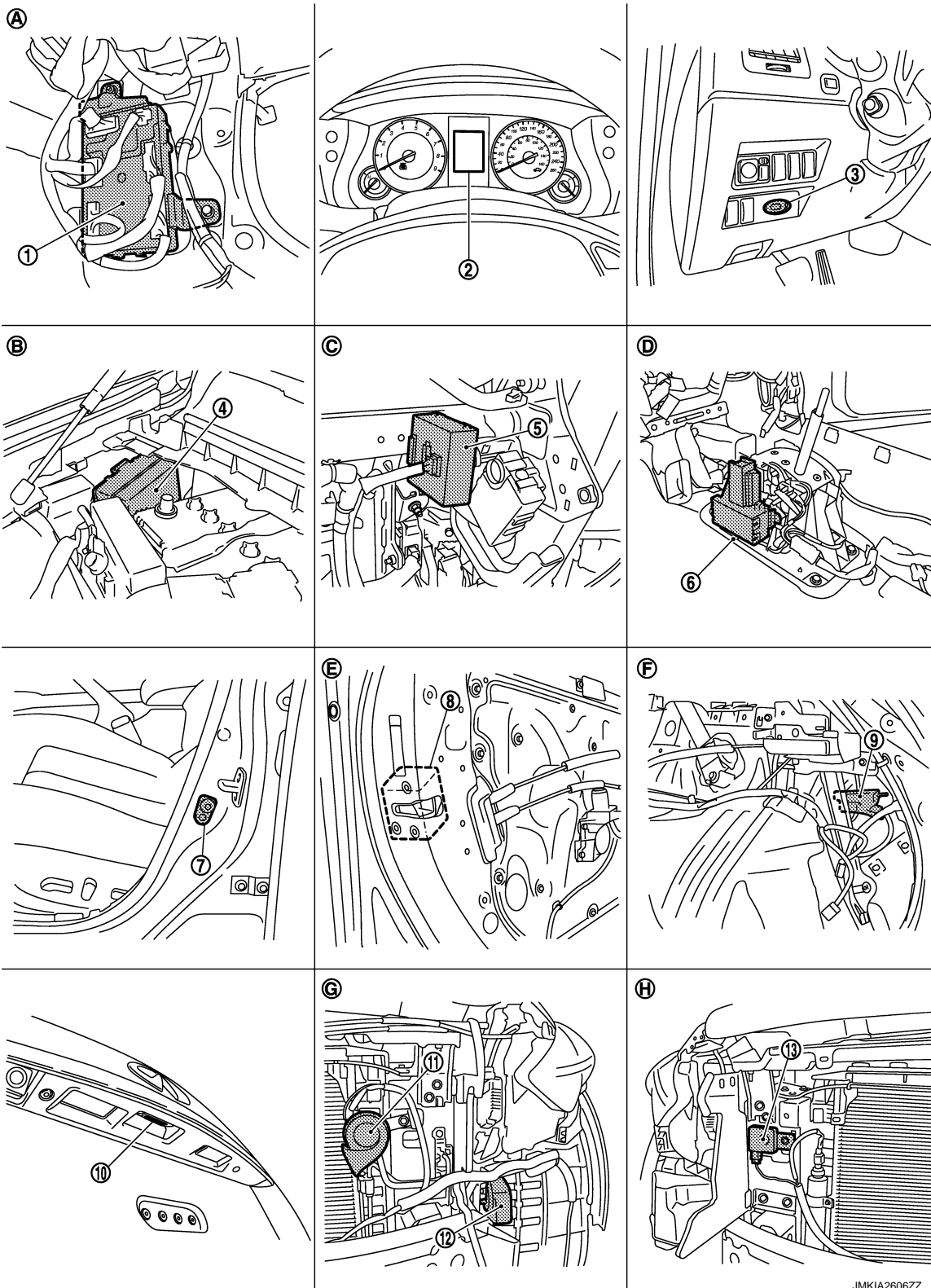
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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR OPEN FUNCTION : Component Parts Location

INFOID:000000003910692



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1. BCM M118, M119, M120, M121, M122, M123
4. IPDM E/R E5, E6

2. Combination meter M53

5. Remote keyless entry receiver M104

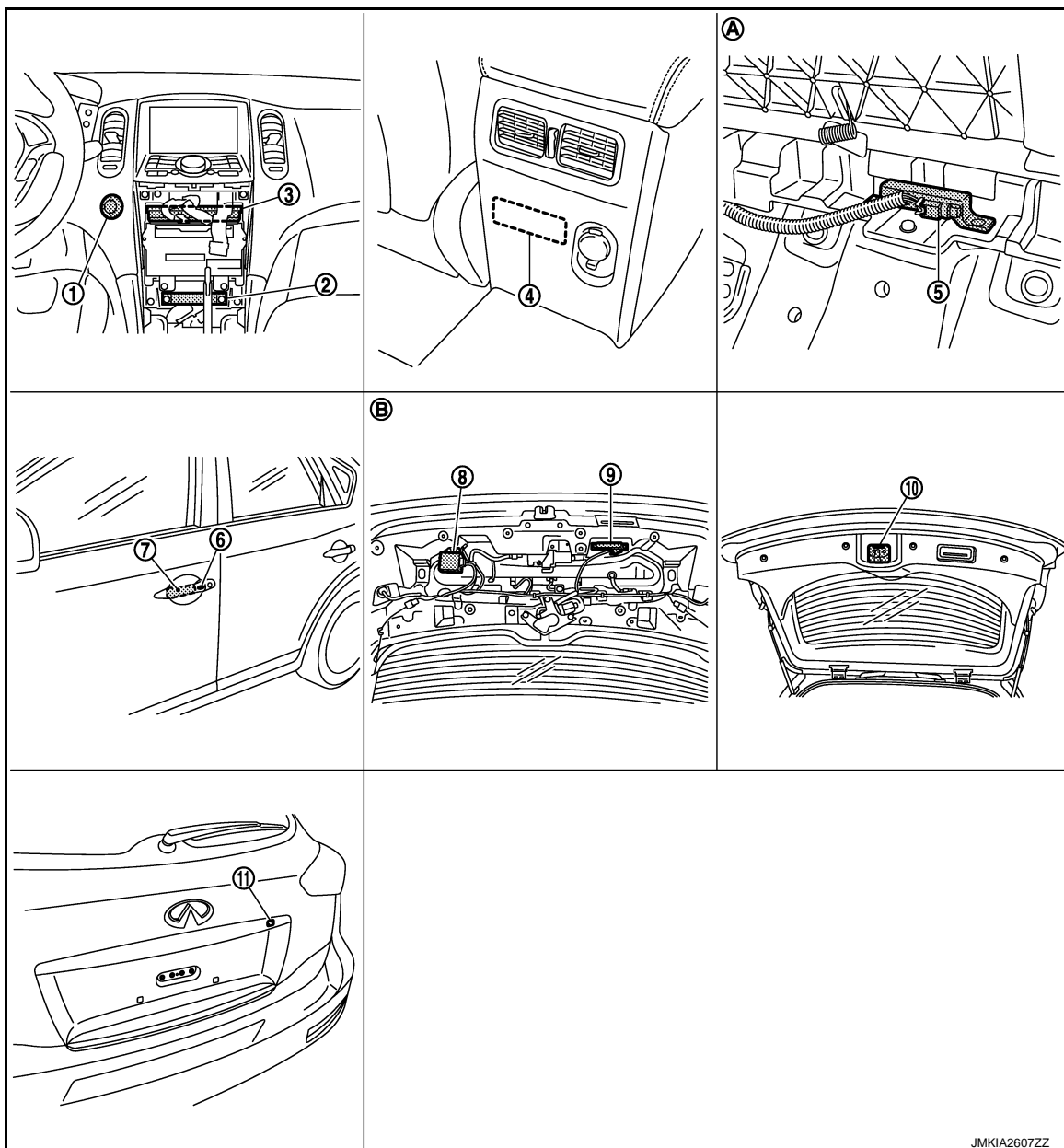
3. Key slot M22

6. A/T shift selector (detention switch) M137

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front door switch (driver side) B16 | 8. Front door lock assembly (driver side) D15 | 9. Fuel lid lock actuator B242 |
| 10. Back door opener switch D114 | 11. Horn (low) E69, E70 | 12. Horn (high) E61, E62 |
| 13. Intelligent Key warning buzzer E80 | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|--|--|---|
| 1. Push-button ignition switch (push switch) M50 | 2. Inside key antenna (instrument center) M131 | 3. Unified meter and A/C amp. M66, M67 |
| 4. Inside key antenna (console) M146 | 5. Inside key antenna (luggage room) B228 | 6. Front outside handle LH (request switch) D13 |
| 7. Front outside handle LH (outside key antenna) D14 | 8. Back door control unit D123 | 9. Outside key antenna (back door) D118 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

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|---|---|
| 10. Back door lock assembly D122 | 11. Back door opener request switch D116 |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed |

BACK DOOR OPEN FUNCTION : Component Description

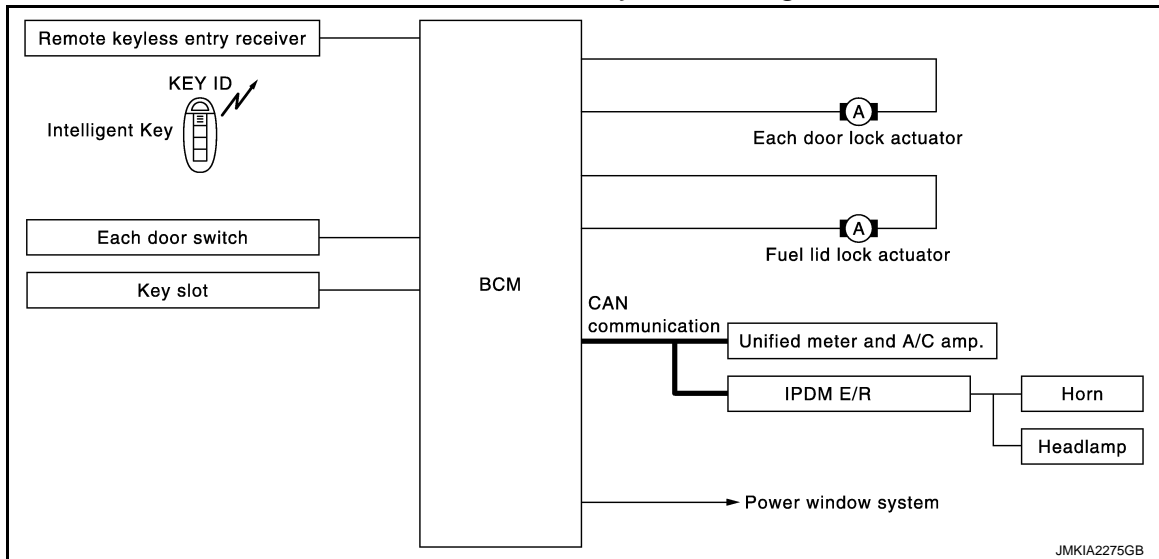
INFOID:000000003842921

| Item | Function |
|-----------------------------------|--|
| BCM | Controls the back door open function and room lamp function. |
| Back door opener switch | Input press/degrees signal to BCM. |
| Door lock actuator | Receives lock/unlock signal from BCM and locks/unlocks each door. |
| Door switch | Input door open/close condition to BCM. |
| Remote keyless entry receiver | Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM. |
| Request switch (back door) | Input lock/unlock operation to BCM. |
| Intelligent Key | Transmits button operation to remote keyless entry receiver. |
| Outside key antenna (rear bumper) | Detects if Intelligent Key is outside the vehicle. |
| Inside key antenna | Detects if Intelligent Key is inside the vehicle. |
| Unified meter and A/C amp. | <ul style="list-style-type: none"> Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer. Transmits vehicle speed signal to BCM via CAN communication line. |
| Combination meter | Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter. |
| Intelligent Key warning buzzer | Warns the user of the back door open/close condition and inappropriate operations with the buzzer sound. |

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Diagram

INFOID:000000003842922



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REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000003842923

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 functions

- Door lock/unlock
- Selective unlock
- Hazard and horn reminder
- Auto door lock

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- Panic alarm
- Power window down
- Interior lamp

OPERATION AREA

To ensure the Intelligent Key works effectively, use within 1 m (3ft) 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 transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- When BCM receives the door lock/unlock signal, it operates door lock actuator and fuel lid lock actuator, blinks 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: 2 time) as a reminder

OPERATION CONDITION

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

SELECTIVE UNLOCK FUNCTION

When a LOCK signal is transmitted from Intelligent Key, all doors and fuel lid are locked.

When an UNLOCK signal is transmitted from Intelligent Key once, driver's door and fuel lid are unlocked.

Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other doors are unlocked.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM flashes 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

| Intelligent Key operation | C mode | | S mode | |
|----------------------------|--------|--------|--------|--------|
| | Lock | Unlock | Lock | Unlock |
| Hazard warning lamp blinks | Twice | Once | Twice | — |
| Horn sound | Once | — | — | — |

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

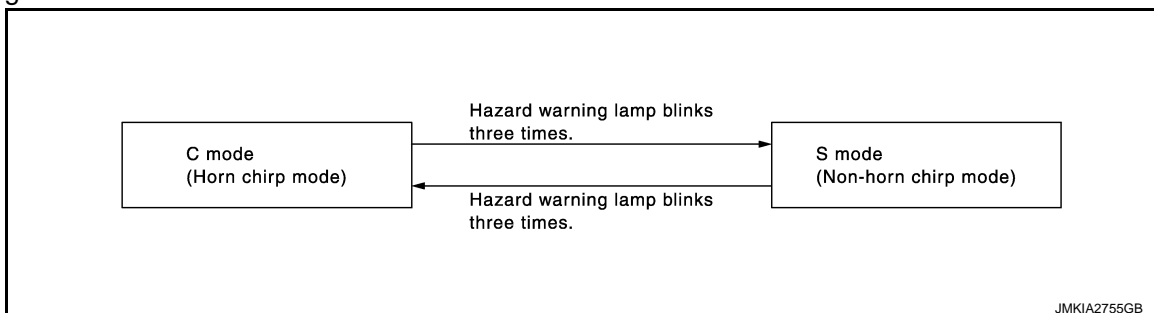
How to Change Hazard and Horn Reminder Mode

④ With CONSULT-III

Refer to [DLK-54. "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)".](#)

⊗ Without CONSULT-III

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 flashes and horn sounds as per the following:



AUTO DOOR LOCK FUNCTION

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

When all doors and fuel lid are locked, ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), doors and fuel lid are unlocked with Intelligent Key button. When BCM does not receive the following signals within 30 seconds, all doors and fuel lid 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 using "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

PANIC ALARM FUNCTION

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

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

The headlamp blinks 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-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

All power windows open when the unlock button on Intelligent Key is activated and pressed for more than 3 seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

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

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

While retained power operation activate, Keyless power window down (open) function cannot be operated.

Keyless power window down operation mode can be changed by using "PW DOWN SET" mode in "WORK SUPPORT". Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

INTERIOR ROOM LAMP CONTROL

Intelligent Key system turns on interior lamp by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to [INL-6, "System Description"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

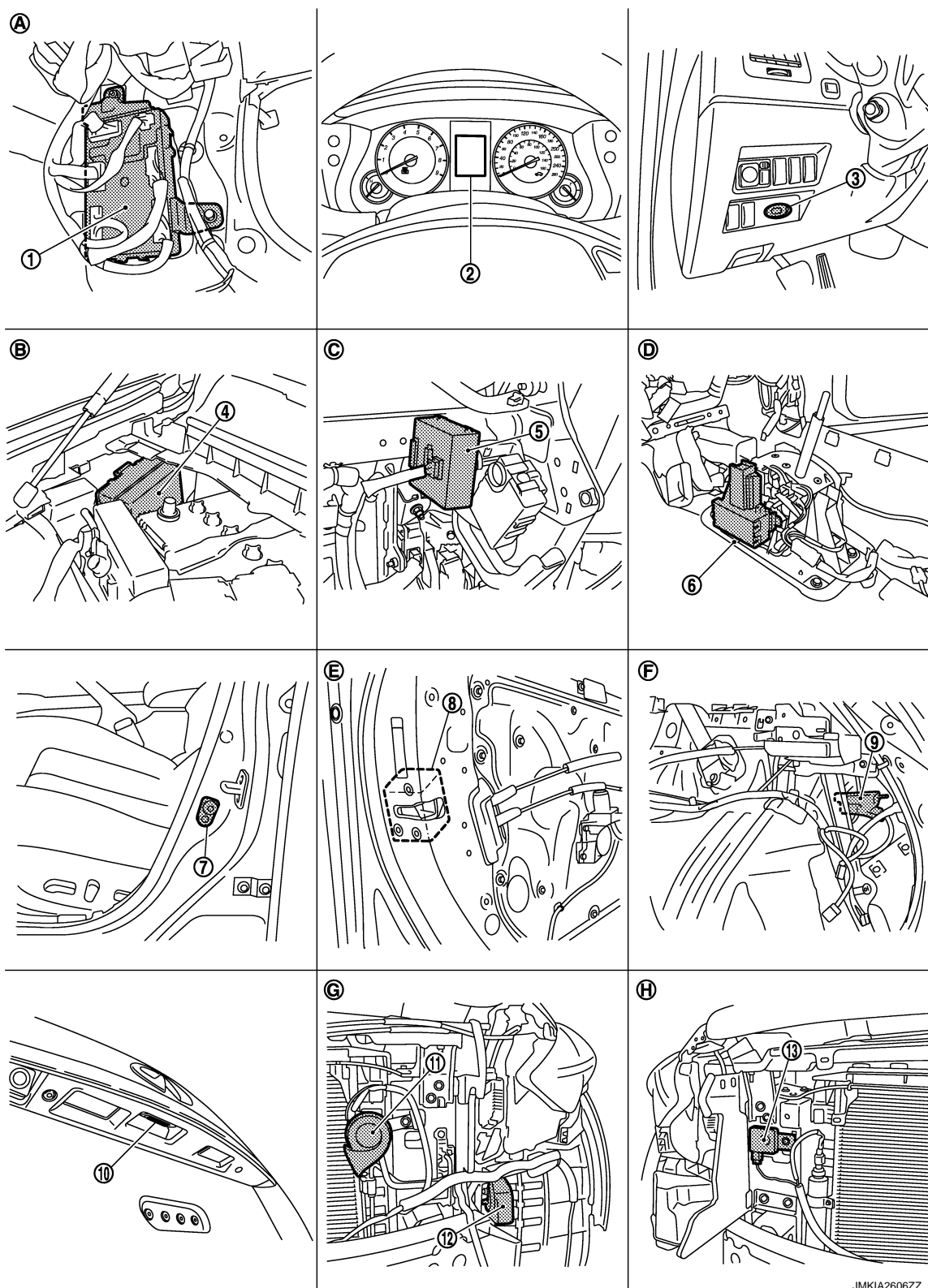
| Remote keyless entry functions | Intelligent Key | Key slot | Door request switch | Door switch | Door lock actuator and fuel lid lock actuator | CAN communication system | BCM | Combination meter | Hazard warning lamp | Horn | IPDM E/R | Headlamp | Power window switch |
|--|-----------------|----------|---------------------|-------------|---|-----------------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

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

REMOTE KEYLESS ENTRY FUNCTION : Component Parts Location

INFOID:000000003910693



1. BCM M118, M119, M120, M121, M122, M123
4. IPDM E/R E5, E6

2. Combination meter M53

5. Remote keyless entry receiver M104

3. Key slot M22

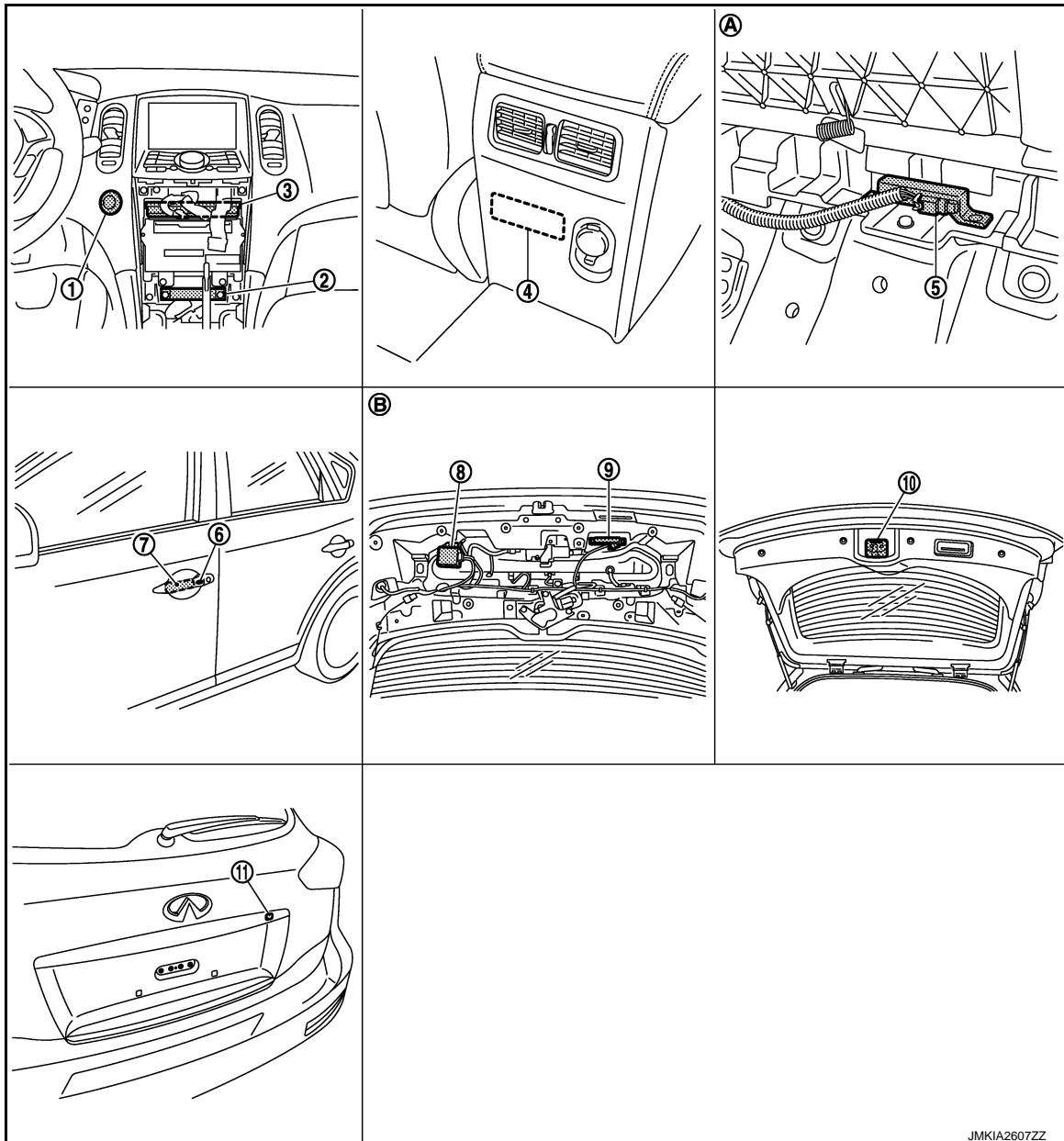
6. A/T shift selector (detention switch) M137

JMK1A2606ZZ

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front door switch (driver side) B16 | 8. Front door lock assembly (driver side) D15 | 9. Fuel lid lock actuator B242 |
| 10. Back door opener switch D114 | 11. Horn (low) E69, E70 | 12. Horn (high) E61, E62 |
| 13. Intelligent Key warning buzzer E80 | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



- | | | |
|--|--|---|
| 1. Push-button ignition switch (push switch) M50 | 2. Inside key antenna (instrument center) M131 | 3. Unified meter and A/C amp. M66, M67 |
| 4. Inside key antenna (console) M146 | 5. Inside key antenna (luggage room) B228 | 6. Front outside handle LH (request switch) D13 |
| 7. Front outside handle LH (outside key antenna) D14 | 8. Back door control unit D123 | 9. Outside key antenna (back door) D118 |

JMKIA2607ZZ

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

10. Back door lock assembly D122 11. Back door opener request switch D116
- A. View with luggage floor finisher front removed B. View with back door finisher inner removed

REMOTE KEYLESS ENTRY FUNCTION : Component Description

INFOID:000000003931343

| Item | Function |
|-------------------------------|---|
| BCM | Controls the door lock function and room lamp function. |
| Door lock actuator | Outputs lock/unlock signal from BCM and locks/unlocks each door. |
| Remote keyless entry receiver | Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM. |
| Unified meter and A/C amp. | <ul style="list-style-type: none">Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer.Transmits vehicle speed signal to BCM via CAN communication line. |
| Combination meter | Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter. |
| Intelligent Key | Transmits button operation to remote keyless entry receiver. |

WELCOME LIGHT FUNCTION

WELCOME LIGHT FUNCTION : System Description

INFOID:000000003842926

CONDITION OF SEARCHING

If all the following conditions are satisfied, BCM searches for Intelligent Key by using outside key antenna (front outside handle LH/RH and back door). BCM has timer to search for 14 days (every 0.3 sec.). If the engine is started, the timer is reset.

| Function | Condition |
|------------------------|--|
| Welcome light function | <ul style="list-style-type: none">System setting is active.All doors are closed.Ignition position is OFF.There is no Intelligent Key inside vehicle.Shift position is the P position.All doors are closed and locked (or auto lock timer is running). |

OPERATION PROCEDURE

BCM search outside key antenna (front outside handle LH/RH and back door) detection area. If registered Intelligent Key is detected, BCM turn ON the room lamp and puddle lamp.
For detailed description after turning ON the lamps, refer to [INL-6, "System Description"](#).

SYSTEM SETTING PROCEDURE

Setting of welcome light function can be changed by the following procedure. (For system setting by CONSULT-III: refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).)

- Check that Intelligent Key is removed from key slot.
- Turn ignition switch ON and press and hold request switch (driver side) more than 5 seconds.
- Confirm that buzzer sounds (combination meter).

Pi, Pi, Pi... (approx. 1.2 sec.): Welcome light function is OFF.

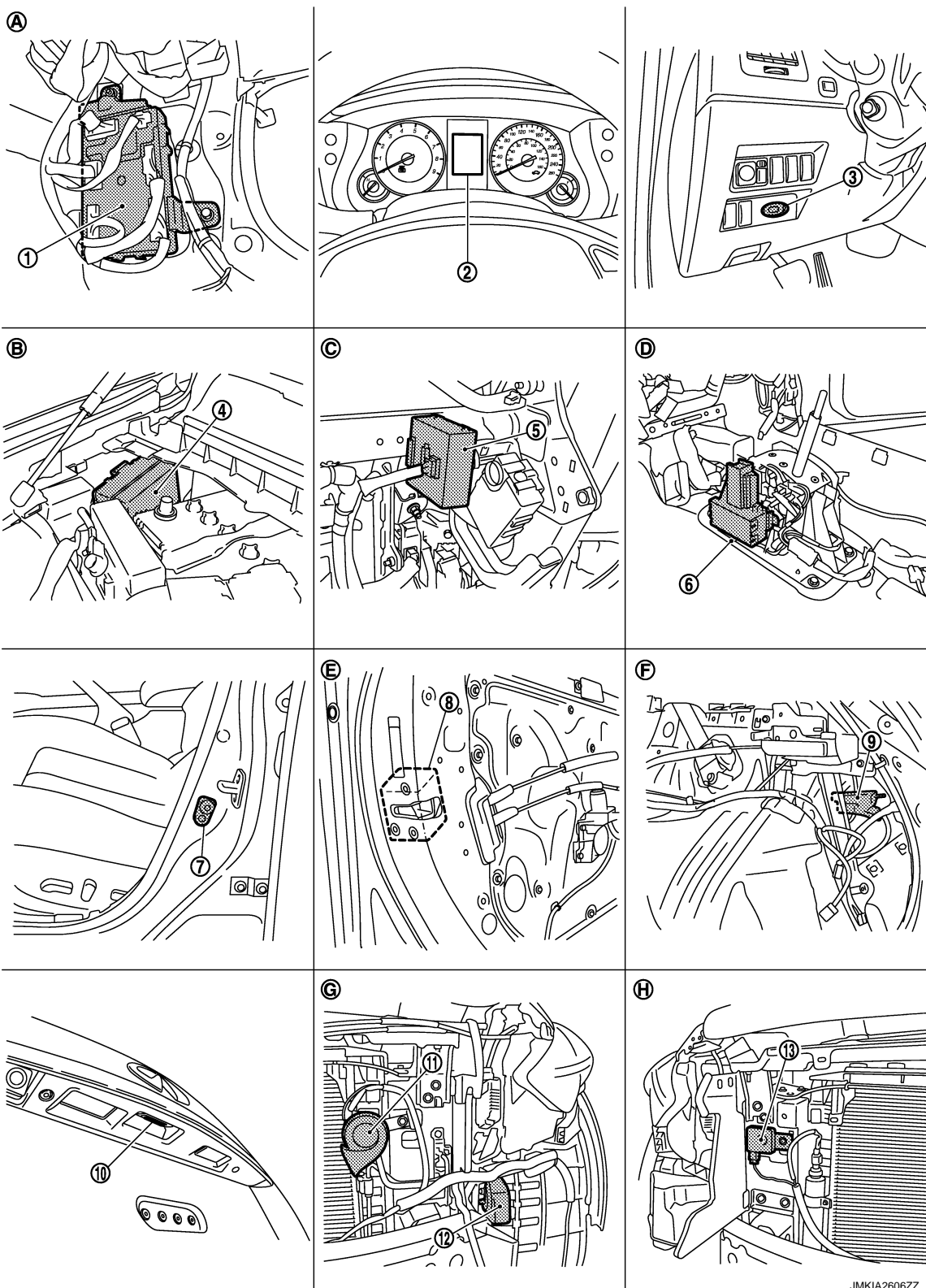
Pi, Pi, Pi...(approx. 2.4 sec.): Welcome light function is ON.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

WELCOME LIGHT FUNCTION : Component Parts Location

INFOID:000000003910696



JMKIA2606ZZ

1. BCM M118, M119, M120, M121, M122, M123
4. IPDM E/R E5, E6

2. Combination meter M53

5. Remote keyless entry receiver M104

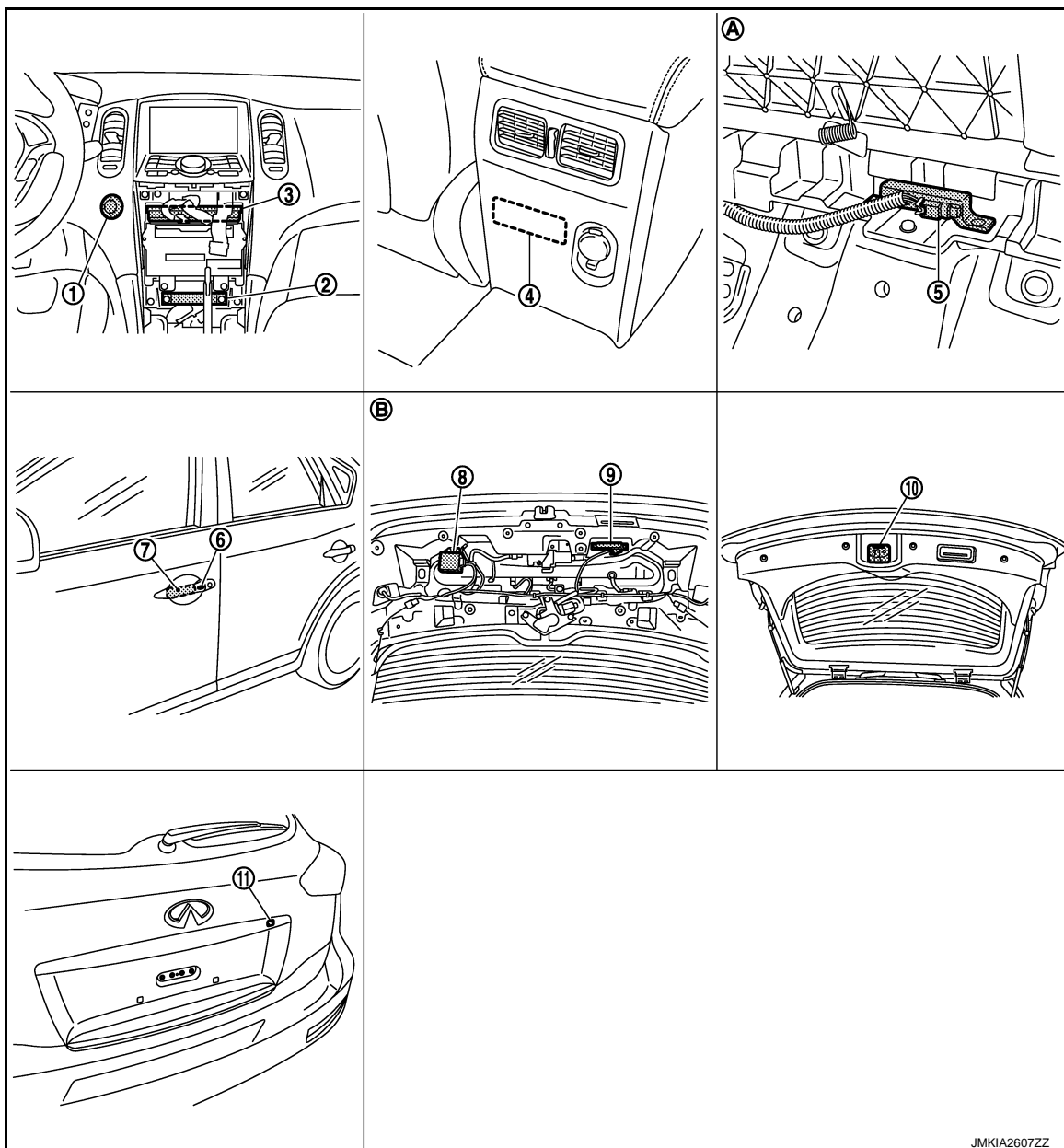
3. Key slot M22

6. A/T shift selector (detention switch) M137

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front door switch (driver side) B16 | 8. Front door lock assembly (driver side) D15 | 9. Fuel lid lock actuator B242 |
| 10. Back door opener switch D114 | 11. Horn (low) E69, E70 | 12. Horn (high) E61, E62 |
| 13. Intelligent Key warning buzzer E80 | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|--|--|---|
| 1. Push-button ignition switch (push switch) M50 | 2. Inside key antenna (instrument center) M131 | 3. Unified meter and A/C amp. M66, M67 |
| 4. Inside key antenna (console) M146 | 5. Inside key antenna (luggage room) B228 | 6. Front outside handle LH (request switch) D13 |
| 7. Front outside handle LH (outside key antenna) D14 | 8. Back door control unit D123 | 9. Outside key antenna (back door) D118 |

INTELLIGENT KEY SYSTEM

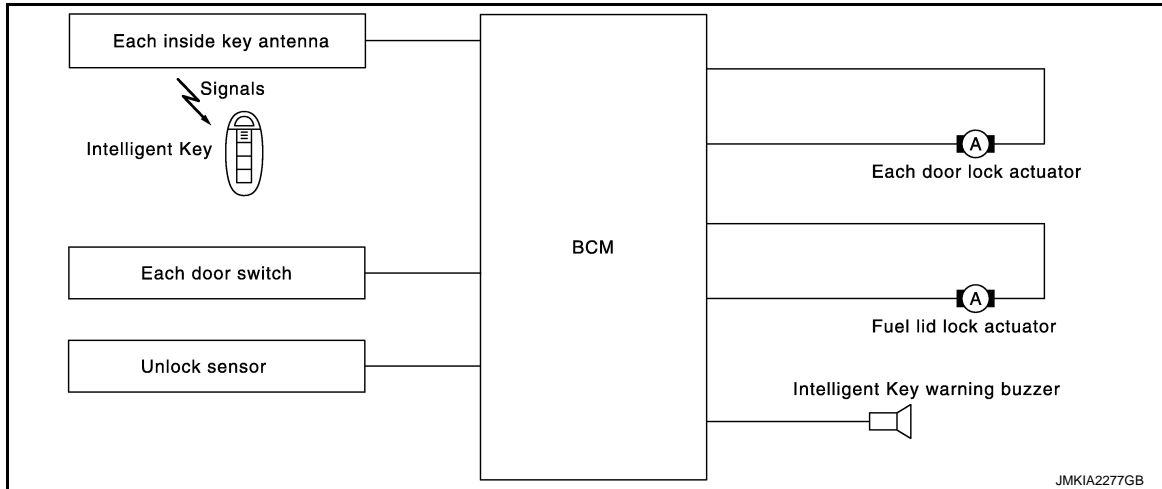
< SYSTEM DESCRIPTION >

- | | |
|---|---|
| 10. Back door lock assembly D122 | 11. Back door opener request switch D116 |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed |

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Description

INFOID:000000003842928



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

| Key remainder function | Operation condition | Operation |
|------------------------|--|---|
| Driver door closed* | Right after driver side door is closed under the following conditions <ul style="list-style-type: none"> Door lock operation is performed Driver side door is opened Driver side door locked | All doors and fuel lid unlock |
| Door is open or closed | Right after all doors are closed under the following conditions <ul style="list-style-type: none"> Intelligent Key is inside the vehicle Any door is opened All doors are locked by door lock and unlock switch or door lock knob | <ul style="list-style-type: none"> All doors and fuel lid unlock Sounds Intelligent Key warning buzzer |
| Back door is closed | Right after back door is closed under the following conditions <ul style="list-style-type: none"> Intelligent Key is inside vehicle All doors (except back door) are closed All doors (except back door) are locked | <ul style="list-style-type: none"> All doors and fuel lid unlock Back door can open with back door opener switch Sounds Intelligent Key warning buzzer |

*:If the door lock knob is shocked by impact during door closing or contacts against baggage, the door lock knob might activate the door locks accidentally, but unlock operation is performed in these cases.

CAUTION:

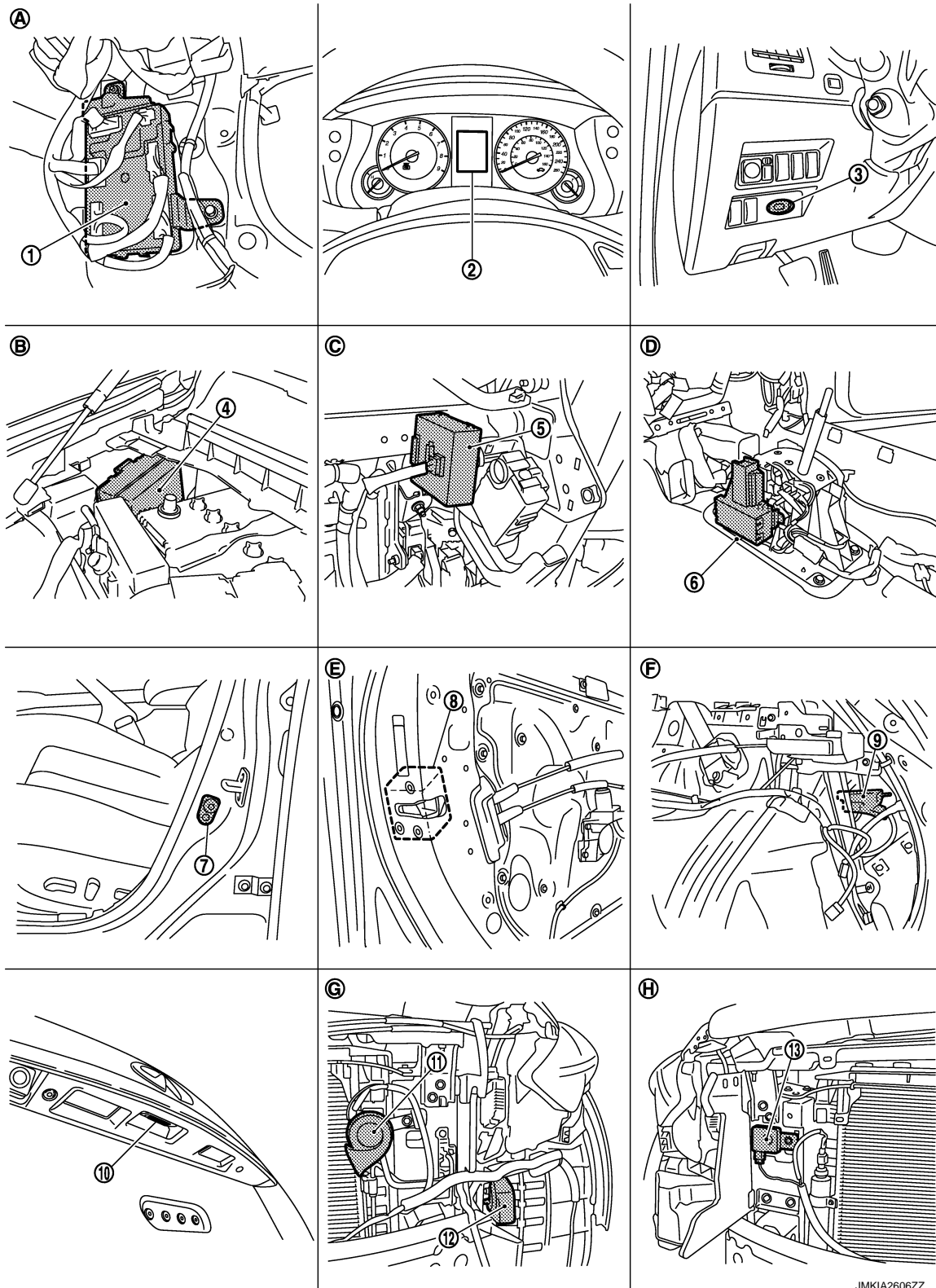
- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected. This function will not operate when the Intelligent Key is on the instrument panel or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket of the open door.
- Key reminder function is operated when the back door 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 back door is closed and the Intelligent Key is not inside the vehicle
 - When any door is open

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

KEY REMINDER FUNCTION : Component Parts Location

INFOID:000000003910695



1. BCM M118, M119, M120, M121, M122, M123
4. IPDM E/R E5, E6

2. Combination meter M53

5. Remote keyless entry receiver M104

3. Key slot M22

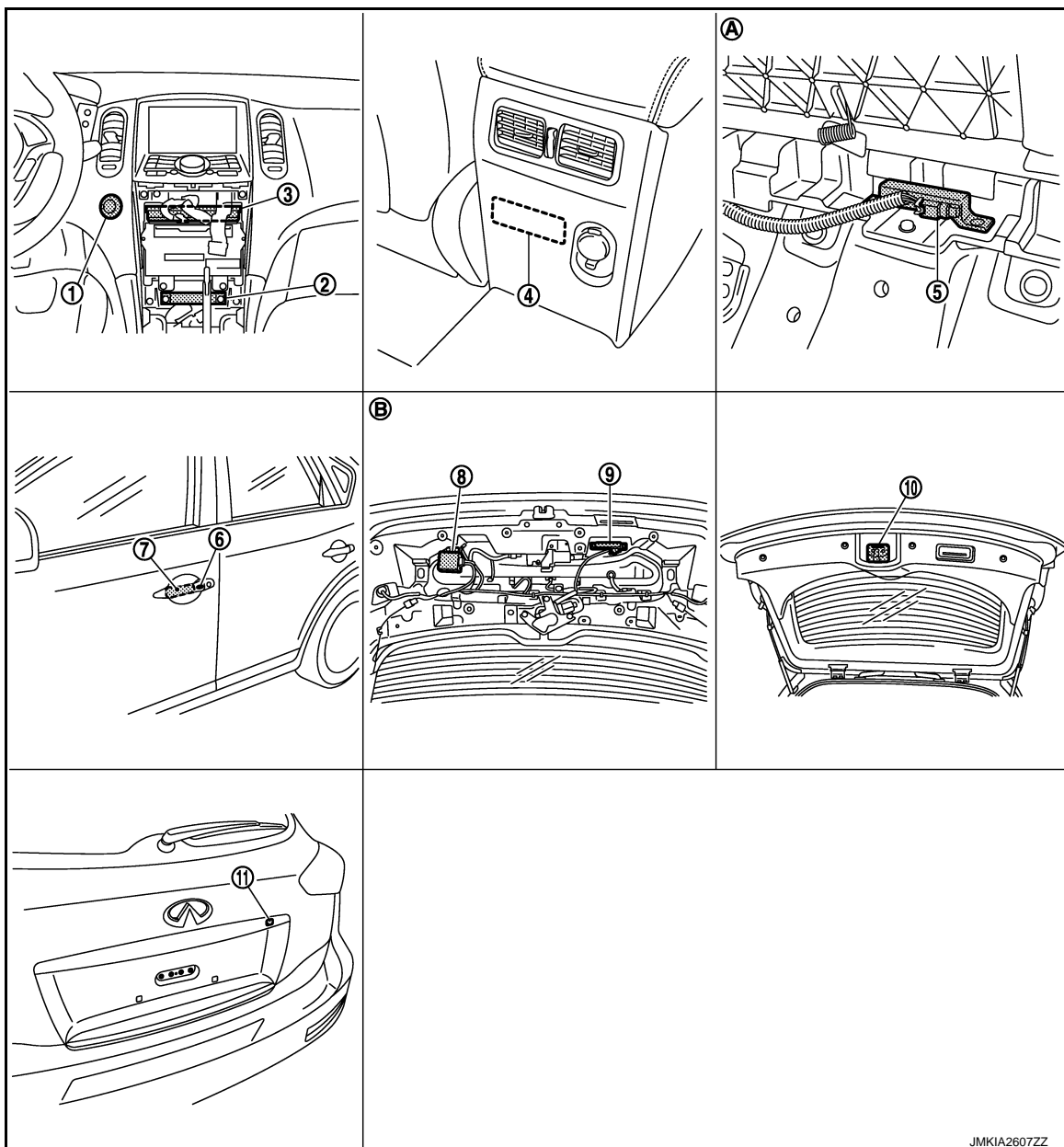
6. A/T shift selector (detention switch) M137

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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front door switch (driver side) B16 | 8. Front door lock assembly (driver side) D15 | 9. Fuel lid lock actuator B242 |
| 10. Back door opener switch D114 | 11. Horn (low) E69, E70 | 12. Horn (high) E61, E62 |
| 13. Intelligent Key warning buzzer E80 | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



- | | | |
|--|--|---|
| 1. Push-button ignition switch (push switch) M50 | 2. Inside key antenna (instrument center) M131 | 3. Unified meter and A/C amp. M66, M67 |
| 4. Inside key antenna (console) M146 | 5. Inside key antenna (luggage room) B228 | 6. Front outside handle LH (request switch) D13 |
| 7. Front outside handle LH (outside key antenna) D14 | 8. Back door control unit D123 | 9. Outside key antenna (back door) D118 |

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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | |
|---|---|
| 10. Back door lock assembly D122 | 11. Back door opener request switch D116 |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed |

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:000000003842930

OPERATION DESCRIPTION

The warning functions are as per the following and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, KEY warning lamp, key slot illumination and information displayed on combination meter.

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

OPERATION CONDITION

Once the following condition from below is established, alert or warning is performed.

| Warning/Information functions | | Operation procedure |
|------------------------------------|--|---|
| Intelligent Key system malfunction | | When a malfunction is detected on BCM, "KEY" warning lamp illuminates. |
| OFF position warning | For internal | <ul style="list-style-type: none"> • Ignition switch: ACC position. • Door switch (driver side): ON (Door is open). |
| | For external | OFF position warning (For internal) is in active mode, driver side door has is closed. NOTE: OFF position (For external) active only when each of the sequence occurs as per the following: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal) |
| P position warning | | <ul style="list-style-type: none"> • Shift position: Not the P position. • Engine is running to stopped (Ignition switch is ON to OFF). |
| ACC warning | | <ul style="list-style-type: none"> • When the P position warning is in active mode, shift position is changed to P position. • Ignition switch: ACC position. |
| Take away warning | Door is open to close | <ul style="list-style-type: none"> • Ignition switch: Not the LOCK position. • Door switch: ON to OFF (Door is open to close). • Intelligent Key can not be detected inside the vehicle. |
| | Door is open | <ul style="list-style-type: none"> • Door switch: ON (Door is open). • Key ID verification every 5 seconds when registered Intelligent Key can not be detected inside the vehicle. |
| | Push button-ignition switch operation | <ul style="list-style-type: none"> • Ignition switch: Not the LOCK position. • Press push-button ignition switch. • Intelligent Key can not be detected inside the vehicle. |
| | Intelligent Key is removed from key slot | <ul style="list-style-type: none"> • When Intelligent Key is removed from key slot, Intelligent Key can not be detected inside the vehicle. |

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INTELLIGENT KEY SYSTEM


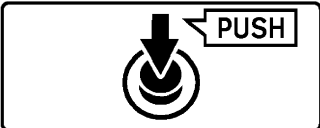
< SYSTEM DESCRIPTION >

| Warning/Information functions | | Operation procedure |
|-------------------------------------|---|---|
| Door lock operation warning | Request switch operation | When request switch is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> All doors are closed. All door is unlocked. Intelligent Key is inside vehicle. |
| | Intelligent Key button operation | When Intelligent Key button is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> Door switch: ON (Any door is open). For 3 seconds after Intelligent Key is removed from key slot. |
| Key warning | | <ul style="list-style-type: none"> Ignition switch is in the OFF position. Driver side door switch: ON (Driver side door is open). Intelligent Key is inserted in key slot. |
| Intelligent Key insert information | | <ul style="list-style-type: none"> Door switch: ON to OFF (Door is open to close). Ignition switch: OFF to ON position. Intelligent Key is out of key slot. Intelligent Key can not be detected inside the vehicle. |
| Engine start information | Ignition switch is in the ON position | <ul style="list-style-type: none"> Ignition switch: ON position. Shift position: P position. Engine is stopped. |
| | Ignition switch is not in the ON position | <ul style="list-style-type: none"> Ignition switch: Not in the ON position. Shift position: P position. Intelligent Key is inserted in key slot or Intelligent Key can be detected inside the vehicle. |
| Steering lock information | | When steering lock can not be released after ignition switch is turned ON. |
| Intelligent Key low battery warning | | When Intelligent Key is low battery is low, BCM is detected after ignition switch is turned ON. |
| Key ID warning | | When registered intelligent Key can not be detected inside the vehicle after ignition switch is turned ON. |

WARNING METHOD






The following table shows the alarm or warning methods by using the chime.

Information display (combination meter), "KEY" indicator or key slot illumination when the warning conditions are met.

| Warning/Information functions | | "KEY" warning lamp | Information display (combination meter) | Key slot illumination | Warning chime | |
|------------------------------------|--------------|--------------------|---|-----------------------|--------------------------|--------------------------------|
| | | | | | Combination meter buzzer | Intelligent Key warning buzzer |
| Intelligent Key system malfunction | | Illuminate | — | — | — | — |
| OFF position warning | For internal | — | — | — | Activate | — |
| | For external | — | — | — | — | Activate |
| P position warning | | — |  JMKIA0037GB | — | Activate | — |
| ACC warning | | — |  JMKIA0047GB | — | — | — |

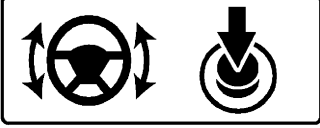

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

| Warning/Information functions | | "KEY" warning lamp | Information display (combination meter) | Key slot illumination | Warning chime | | |
|------------------------------------|--|--------------------|---|-----------------------|--------------------------|--------------------------------|-----|
| | | | | | Combination meter buzzer | Intelligent Key warning buzzer | |
| Take away warning | Door is open to close | — |  NO KEY <small>JMKIA0036GB</small> | Blink | Activate | Activate | A |
| | Door is open | — | | Blink | — | — | B |
| | Push-ignition switch operation | — | | Blink | Activate | — | C |
| | Intelligent Key is removed from key slot | — | | Blink | — | — | D |
| Door lock operation warning | Request switch operation | — | — | — | — | Activate | E |
| | Intelligent Key operation | — | — | — | — | Activate | |
| Key ID warning | | — |  NO KEY <small>JMKIA0036GB</small> | — | — | — | F |
| Key warning | | — |  <small>JMKIA0035GB</small> | Blink | Activate | — | G |
| Intelligent Key insert information | | — |  <small>JMKIA0034GB</small> | Blink | — | — | H |
| Engine start information | | — |  <small>JMKIA0032GB</small> | — | — | — | I |
| | | | | | | | J |
| | | | | | | | DLK |
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| | | | | | | | P |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

| Warning/Information functions | “KEY” warning lamp | Information display (combination meter) | Key slot illumination | Warning chime | |
|-------------------------------------|--------------------|---|-----------------------|--------------------------|--------------------------------|
| | | | | Combination meter buzzer | Intelligent Key warning buzzer |
| Steering lock information | — |  JMKIA0033GB | — | — | — |
| Intelligent Key low battery warning | — |  JMKIA0048GB | — | — | — |

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

| Warning function | | Intelligent Key | Key slot | Ignition switch | Door switch | Door request switch | Inside key antenna | Outside key antenna | Intelligent Key warning buzzer | Combination meter warning buzzer | CAN communication system | BCM | Combination meter display | Key slot illumination | Transmission range switch | “KEY” warning lamp |
|------------------------------------|---|-----------------|----------|-----------------|-------------|---------------------|--------------------|---------------------|--------------------------------|----------------------------------|--------------------------|-----|---------------------------|-----------------------|---------------------------|--------------------|
| Intelligent Key system malfunction | | | | | | | | | | | × | × | | | | × |
| OFF position warning | For internal | | | | × | | | | | × | × | × | | | | |
| | For external | | | | × | | | | × | | | × | | | | |
| P position warning | | | | × | | | | | | × | × | × | × | | × | |
| ACC warning | | | | × | | | | | | × | × | × | × | | × | |
| Take away warning | Door is open or close | × | | | × | | × | | × | × | × | × | × | × | | |
| | Door is open | × | | | × | | × | | | | × | × | × | × | | |
| | Push-ignition switch operation | × | | × | | | × | | | × | × | × | × | × | | |
| | Intelligent Key is removed from key slot | × | × | | | | × | | | | × | × | × | × | | |
| Door lock operation warning | | × | × | | × | × | × | × | × | | | × | | | | |
| Key ID warning | | × | × | × | | | × | | | | × | × | × | | | |
| Key warning | | × | × | | × | | | | | × | × | × | × | × | | |
| Intelligent Key insert information | | × | × | × | × | | × | | | | × | × | × | × | | |
| Engine start information | Ignition switch is in the ON position | × | × | × | | | × | | | | × | × | × | | × | |
| | Ignition switch is not in the ON position | × | × | × | | | × | | | | × | × | × | | | |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

| | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------|----------|-----------------|-------------|---------------------|--------------------|---------------------|--------------------------------|----------------------------------|--------------------------|-----|---------------------------|-----------------------|---------------------------|--------------------|
| Warning function | Intelligent Key | Key slot | Ignition switch | Door switch | Door request switch | Inside key antenna | Outside key antenna | Intelligent Key warning buzzer | Combination meter warning buzzer | CAN communication system | BCM | Combination meter display | Key slot illumination | Transmission range switch | "KEY" warning lamp |
| Steering lock information | | | × | | | | | | | × | × | × | | | |
| Intelligent Key low battery warning | × | | | | | × | | | | × | × | × | | | |

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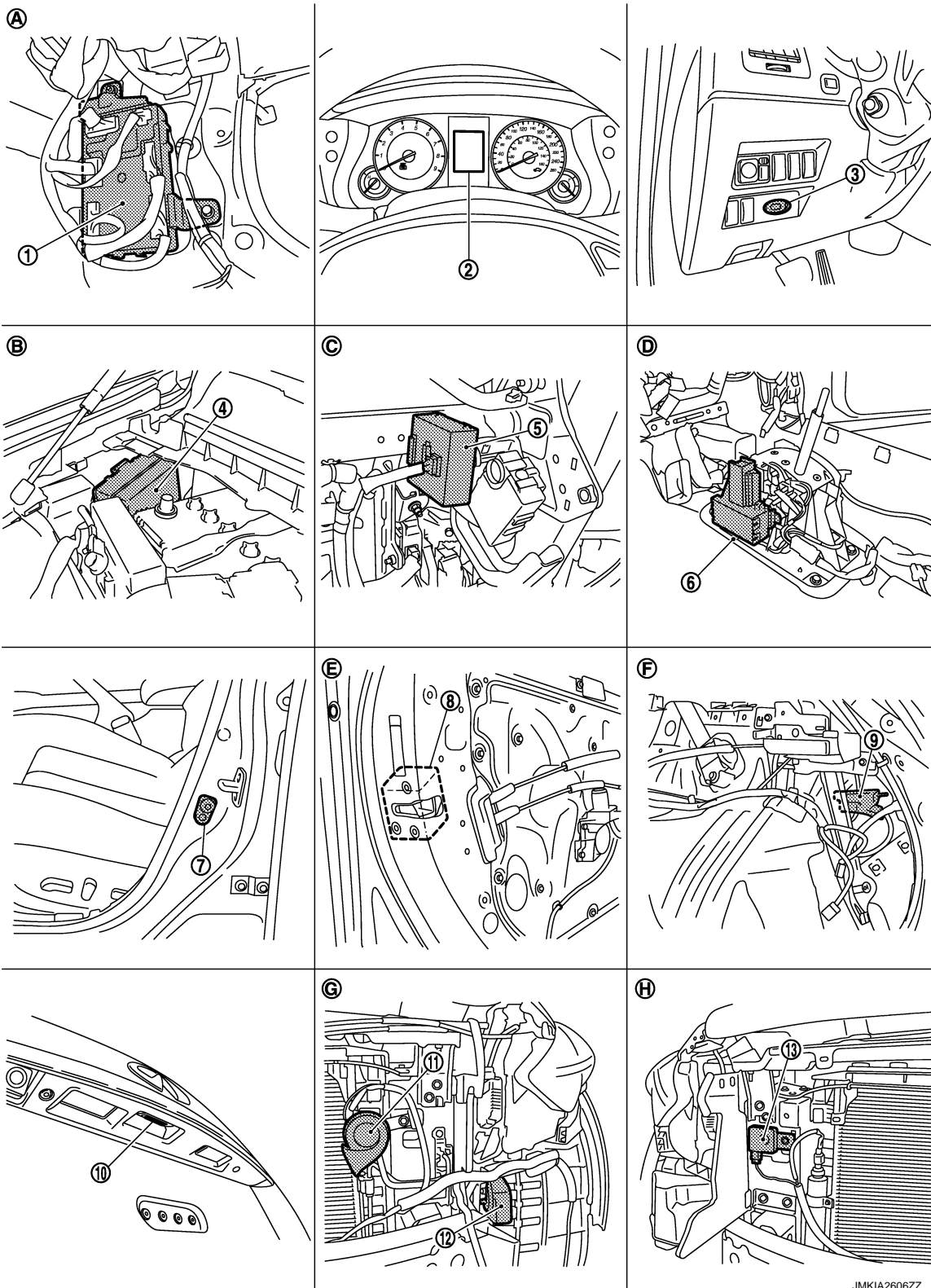
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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

WARNING FUNCTION : Component Parts Location

INFOID:000000003910697



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1. BCM M118, M119, M120, M121, M122, M123
4. IPDM E/R E5, E6

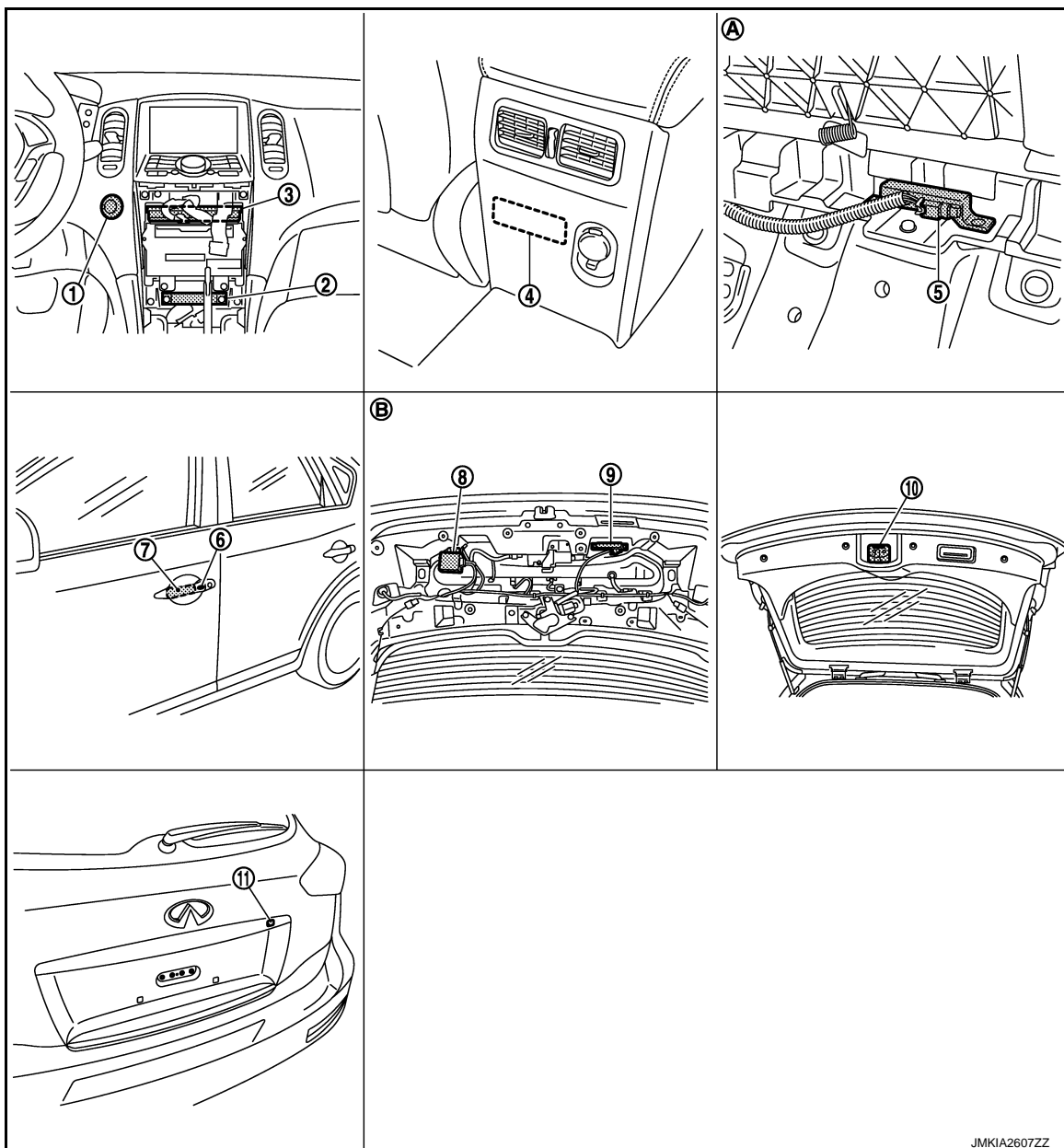
2. Combination meter M53
5. Remote keyless entry receiver M104

3. Key slot M22
6. A/T shift selector (detention switch) M137

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front door switch (driver side) B16 | 8. Front door lock assembly (driver side) D15 | 9. Fuel lid lock actuator B242 |
| 10. Back door opener switch D114 | 11. Horn (low) E69, E70 | 12. Horn (high) E61, E62 |
| 13. Intelligent Key warning buzzer E80 | | |
| A. Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the instrument lower panel (driver side) |
| D. View with center console assembly removed | E. View with front door finisher (LH) removed | F. View with luggage side finisher lower (RH) removed |
| G. View with front bumper removed | H. View with front bumper removed | |



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|--|--|---|
| 1. Push-button ignition switch (push switch) M50 | 2. Inside key antenna (instrument center) M131 | 3. Unified meter and A/C amp. M66, M67 |
| 4. Inside key antenna (console) M146 | 5. Inside key antenna (luggage room) B228 | 6. Front outside handle LH (request switch) D13 |
| 7. Front outside handle LH (outside key antenna) D14 | 8. Back door control unit D123 | 9. Outside key antenna (back door) D118 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

- | | |
|---|---|
| 10. Back door lock assembly D122 | 11. Back door opener request switch D116 |
| A. View with luggage floor finisher front removed | B. View with back door finisher inner removed |

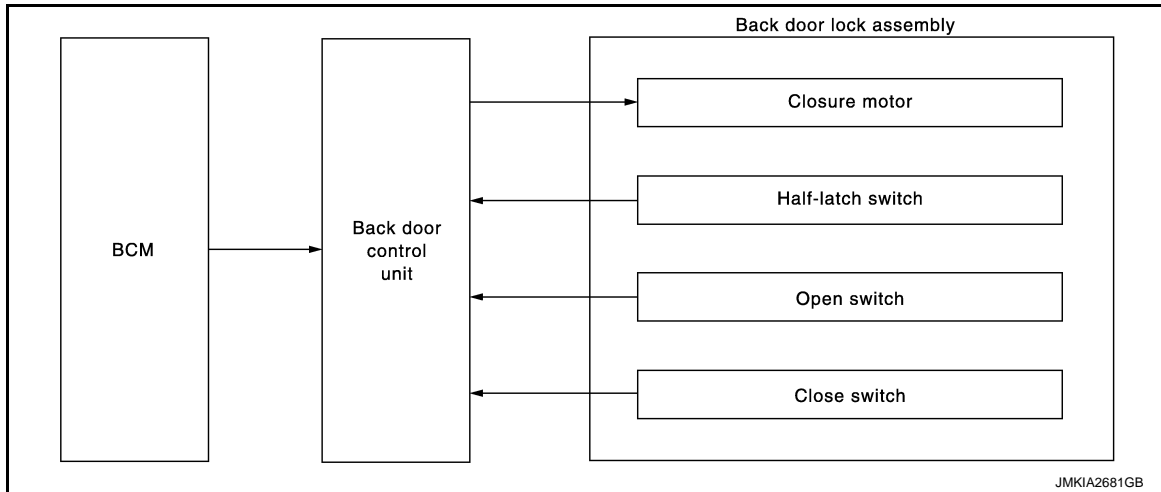
BACK DOOR AUTO CLOSURE SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR AUTO CLOSURE SYSTEM CLOSURE FUNCTION

CLOSURE FUNCTION : System Diagram

INFOID:000000003910683



CLOSURE FUNCTION : System Description

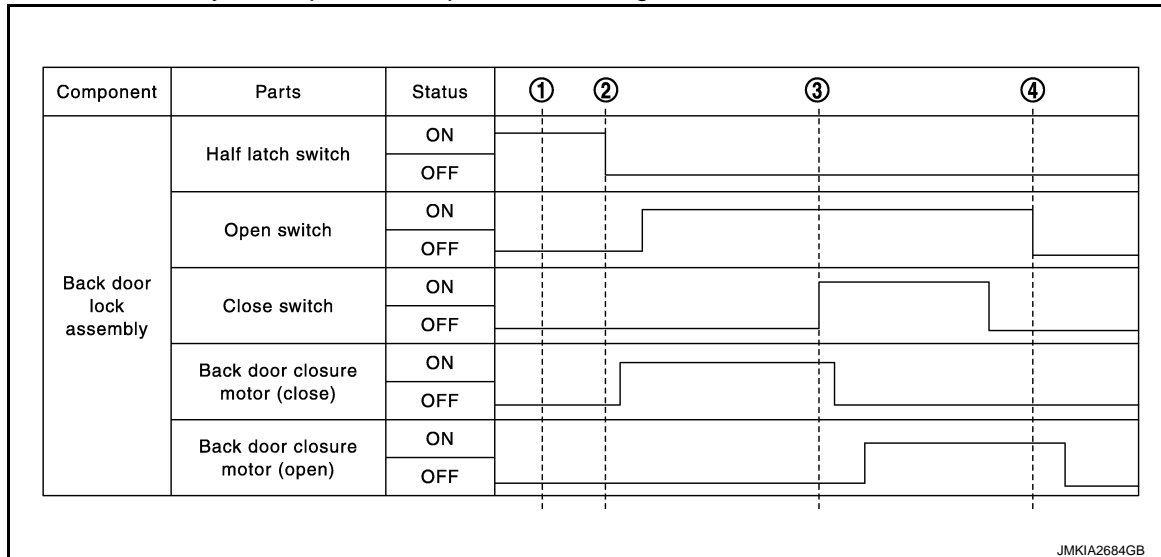
INFOID:000000003910684

When back door is closed to the half-latch position, closure motor operates to rotate the latch lever from the half latched to fully latched position and automatically closes back door. Then, closure motor reverses to the neutral position.

AUTO CLOSURE OPERATION

From fully Open to Fully Closed Operation

The back door closure system operates as per the following.



1. Back door is fully open.
2. Back door closure motor starts the close operation after turning half latch switch OFF.
3. Back door closure motor stops the close operation and starts the neutral operation after turning close switch ON.
4. Back door closure motor stops the open operation and returns the latch to the neutral position after turning open switch OFF.

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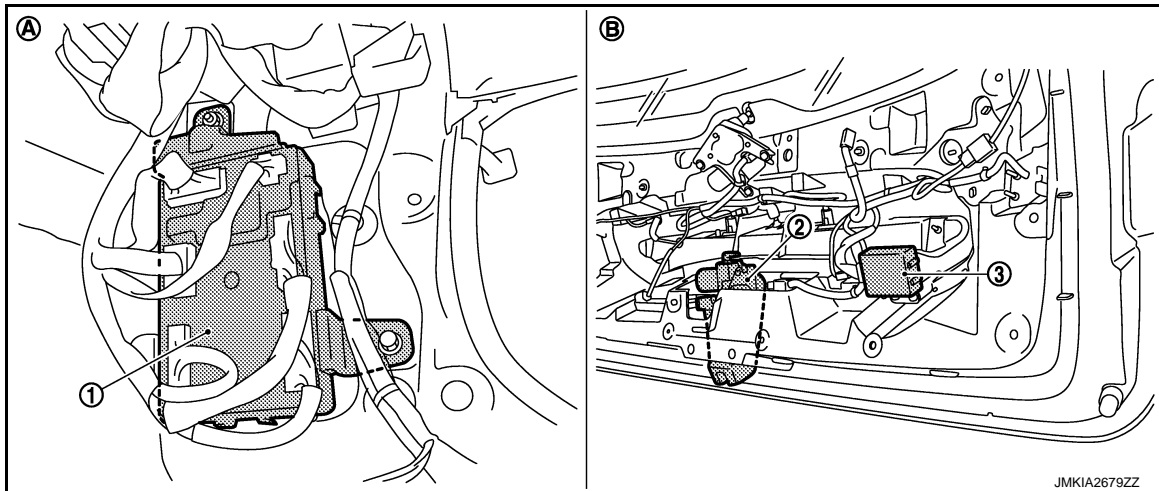
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BACK DOOR AUTO CLOSURE SYSTEM

< SYSTEM DESCRIPTION >

CLOSURE FUNCTION : Component Parts Location

INFOID:000000003910685



- | | | |
|-------------------------------------|---|--------------------------------|
| 1. BCM M118, M119, M121, M122, M123 | 2. Back door lock assembly D122 | 3. Back door control unit D123 |
| A. Dash side lower (passenger side) | B. View with back door finisher inner removed | |

CLOSURE FUNCTION : Component Description

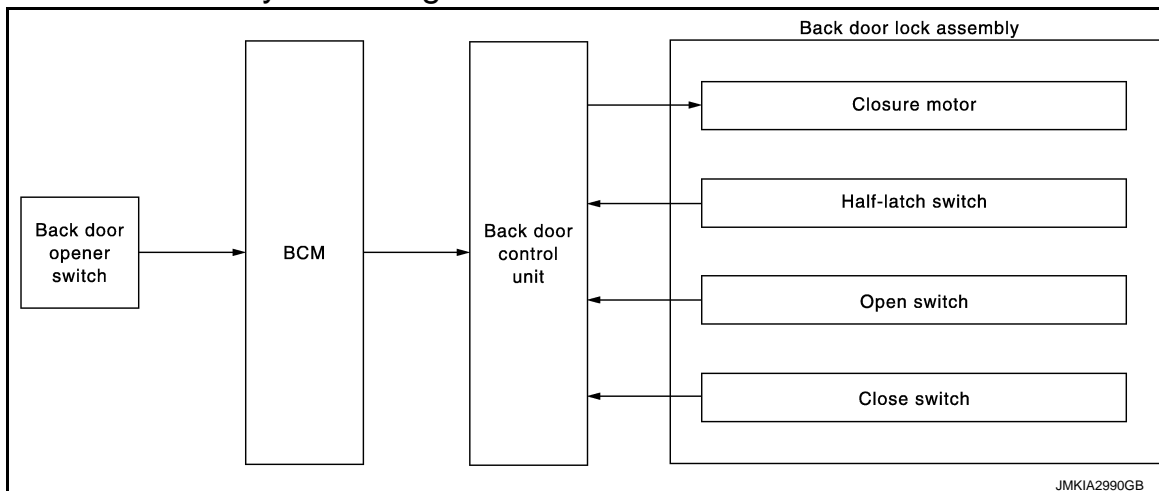
INFOID:000000003910686

| Item | Function |
|-------------------------|---|
| Back door control unit | Operates back door closure motor with signal from each switch. |
| Back door lock assembly | Back door closure motor, half latch switch, open switch, and close switch are installed. <ul style="list-style-type: none"> • Closure motor: Opens and closes the back door • Half latch switch: Starts the closure motor close operation • Open switch: Stops the closure motor open operation • Close switch: Stops the closure motor close operation |

OPEN FUNCTION

OPEN FUNCTION : System Diagram

INFOID:000000004114226



OPEN FUNCTION : System Description

INFOID:000000004114227

When the back door opener switch operation signal is input into back door control unit from BCM, back door is opened by the closure motor open operation.

BACK DOOR AUTO CLOSURE SYSTEM

< SYSTEM DESCRIPTION >

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM transmits the back door opener switch operation signal to back door control unit and back door control unit opens back door lock assembly.

The operation to open back door with Intelligent Key is the same as the Intelligent Key system. Refer to [DLK-24. "BACK DOOR OPEN FUNCTION : System Description"](#)

NOTE:

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

OPERATION CONDITION

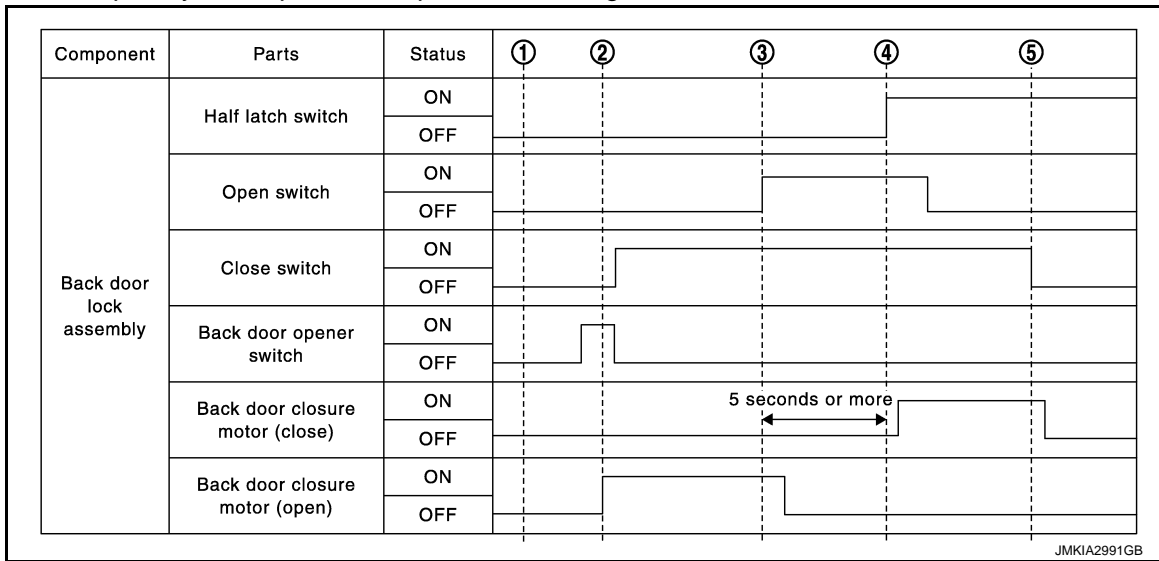
If the following conditions are satisfied, the back door opener operation is performed.

| Back door opener switch operation | Operation condition |
|-----------------------------------|---|
| Back door open | <ul style="list-style-type: none">All doors are unlockedVehicle speed is less than 5 km/h (3 MPH). |

OPEN OPERATION

From fully Closed to Fully Open Operation

The back door open system operates as per the following.



1. Back door is fully closed.
2. Back door closure motor starts the open operation after turning back door opener switch ON.
3. Back door closure motor stops the open operation after turning open switch ON.
4. Back door closure motor starts the close operation after turning half latch switch ON.
5. Back door closure motor stops the close operation and returns the latch to the neutral position after turning close switch OFF.

NOTE:

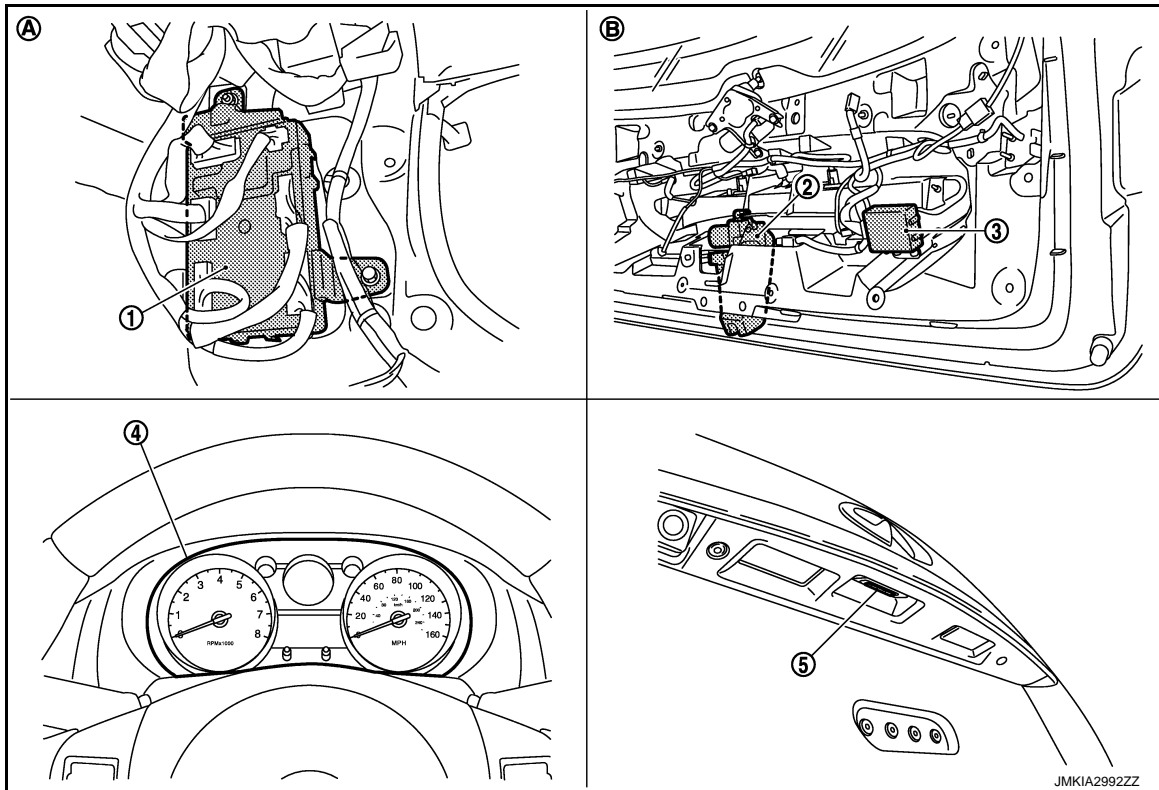
When half latch switch is turned ON or 5 seconds pass without opening back door, back door closure motor starts the close operation.

BACK DOOR AUTO CLOSURE SYSTEM

< SYSTEM DESCRIPTION >

OPEN FUNCTION : Component Parts Location

INFOID:000000004114228



- | | | |
|-------------------------------------|---|--------------------------------|
| 1. BCM M118, M119, M121, M122, M123 | 2. Back door lock assembly D122 | 3. Back door control unit D123 |
| 5. Combination meter M35 | 6. Back door opener switch D114 | |
| A. Dash side lower (passenger side) | B. View with back door finisher inner removed | |

OPEN FUNCTION : Component Description

INFOID:000000004116232

| Item | Function |
|-------------------------|---|
| BCM | Controls the back door opener function |
| Back door opener switch | Inputs back door opener switch operation signal to BCM |
| Back door control unit | Operates back door closure motor with the signal from each switch. |
| Back door lock assembly | Back door closure motor, half latch switch, open switch and close switch are installed <ul style="list-style-type: none"> • Closure motor: Opens and closes back door • Half latch switch: Starts the closure motor close operation • Open switch: Stops the closure motor open operation • Close switch: Stops the closure motor close operation |
| Combination meter | Transmits vehicle speed signal to BCM via CAN communication |

INTEGRATED HOMELINK TRANSMITTER

< SYSTEM DESCRIPTION >

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000003842932

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

INFOID:000000003842933

APPLICATION ITEM

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

| Diagnosis mode | Function Description |
|--------------------------|---|
| Work Support | Changes the setting for each system function. |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual. |
| Data Monitor | The BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| ECU Identification | The BCM part number is displayed. |
| Configuration | <ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM. |

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

| System | Sub system selection item | Diagnosis mode | | |
|---|-----------------------------|----------------|--------------|-------------|
| | | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | × | × | × |
| Rear window defogger | REAR DEFOGGER | | × | × |
| Warning chime | BUZZER | | × | × |
| Interior room lamp timer | INT LAMP | × | × | × |
| Remote keyless entry system | MULTI REMOTE ENT*1 | × | × | × |
| Exterior lamp | HEAD LAMP | × | × | × |
| Wiper and washer | WIPER | | × | × |
| Turn signal and hazard warning lamps | FLASHER | × | × | × |
| — | AIR CONDITONER*2 | | | |
| <ul style="list-style-type: none"> Intelligent Key system Engine start system | INTELLIGENT KEY | × | × | × |
| Combination switch | COMB SW | | × | |
| Body control system | BCM | × | | |
| NVIS - NATS | IMMU | | × | × |
| Interior room lamp battery saver | BATTERY SAVER | × | × | × |
| Back door opener system | TRUNK | | × | × |
| Vehicle security system | THEFT ALM | × | × | × |
| RAP system | RETAINED PWR | | × | |
| Signal buffer system | SIGNAL BUFFER | | × | × |
| TPMS | TPMS (AIR PRESSURE MONITOR) | × | × | × |

NOTE:

- *1: For models with Intelligent Key system this item is displayed, but is not used.
- *2: This item is displayed, but is not used.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odo/Trip Meter
- Vehicle Condition (BCM detected condition)

| CONSULT screen terms | Description |
|----------------------|--|
| SLEEP>LOCK | While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK") |
| SLEEP>OFF | While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF") |
| LOCK>ACC | While turning power supply position from "LOCK" to "ACC" |
| ACC>ON | While turning power supply position from "ACC" to "IGN" |
| RUN>ACC | While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is not in the P position.) |
| CRANK>RUN | While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it) |
| RUN>URGENT | While turning power supply position from "RUN" to "ACC" (Emergency stop operation) |
| ACC>OFF | While turning power supply position from "ACC" to "OFF" |
| OFF>LOCK | While turning power supply position from "OFF" to "LOCK" |
| OFF>ACC | While turning power supply position from "OFF" to "ACC" |
| ON>CRANK | While turning power supply position from "IGN" to "CRANKING" |
| OFF>SLEEP | While turning BCM status from normal mode (Power supply position is "OFF") to low power consumption mode |
| LOCK>SLEEP | While turning BCM status from normal mode (Power supply position is "LOCK") to low power consumption mode |
| LOCK | Power supply position is "LOCK" (Ignition switch OFF with steering is locked) |
| OFF | Power supply position is "OFF" (Ignition switch OFF with steering is unlocked) |
| ACC | Power supply position is "ACC" (Ignition switch ACC) |
| ON | Power supply position is "IGN" (Ignition switch ON with engine stopped) |
| ENGINE RUN | Power supply position is "RUN" (Ignition switch ON with engine running) |
| CRANKING | Power supply position is "CRANKING" (At engine cranking) |

IGN Counter

IGN counter indicates the number of times that ignition switch is turned ON after DTC is detected.

- The number is 0 when a malfunction is detected.
- The number increases from 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

DOOR LOCK

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

INFOID:000000003842934

BCM CONSULT-III FUNCTION

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

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

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| Monitor item | Description |
|------------------------------|--|
| DOOR LOCK-UNLOCK SET | Selective unlock function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode. |
| AUTOMATIC DOOR LOCK SELECT | Automatic door lock function mode can be selected from the following in this mode. <ul style="list-style-type: none"> VH SPD: All doors are locked when vehicle speed more than 24km/h (15MPH) P RANGE: All doors are locked when shifting the selector lever from P position to other than the P position |
| AUTOMATIC DOOR UNLOCK SELECT | Automatic door unlock function mode can be selected from the following in the mode. <ul style="list-style-type: none"> MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF MODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P position MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF MODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position |
| AUTOMATIC LOCK/UNLOCK SET | Automatic door lock/unlock function mode can be selected from the following in this mode. <ul style="list-style-type: none"> Off: non-operational Unlock Only: door unlock operation only Lock Only: door lock operation only Lock/Unlock: lock/unlock operation |

DATA MONITOR

| Monitor Item | Contents |
|---------------|---|
| REQ SW-DR | Indicated [ON/OFF] condition of door request switch (driver side). |
| REQ SW-AS | Indicated [ON/OFF] condition of door request switch (passenger side). |
| REQ SW-BD/TR | Indicated [ON/OFF] condition of back door request switch. |
| DOOR SW-DR | Indicated [ON/OFF] condition of front door switch (driver side). |
| DOOR SW-AS | Indicated [ON/OFF] condition of front door switch (passenger side). |
| DOOR SW-RR | Indicated [ON/OFF] condition of rear door switch RH. |
| DOOR SW-RL | Indicated [ON/OFF] condition of rear door switch LH. |
| DOOR SW-BK | Indicated [ON/OFF] condition of back door switch. |
| CDL LOCK SW | Indicated [ON/OFF] condition of lock signal from door lock unlock switch. |
| CDL UNLOCK SW | Indicated [ON/OFF] condition of unlock signal from door lock unlock switch. |
| KEY CYL LK-SW | Indicated [ON/OFF] condition of lock signal from door key cylinder. |
| KEY CYL UN-SW | Indicated [ON/OFF] condition of unlock signal from door key cylinder. |

ACTIVE TEST

| Test item | Description |
|-----------|---|
| DOOR LOCK | <p>This test is able to check door lock/unlock operation.</p> <ul style="list-style-type: none"> The all door lock actuators are locked when "ALL LCK" on CONSULT-III screen is touched. The all door lock actuators are unlocked when "ALL UNLK" on CONSULT-III screen is touched. The door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT-III screen is touched. The door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT- III screen is touched. The door lock actuator (rear LH and RH) is unlocked when "OTR ULK" on CONSULT-III screen is touched. |

INTELLIGENT KEY

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

INFOID:0000000003842935

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| Monitor item | Description |
|--------------------------|--|
| REMO CONT ID CONFIR | It can be checked whether Intelligent Key ID code is registered or not in this mode. |
| AUTO LOCK SET | Auto door lock time can be changed in this mode. <ul style="list-style-type: none"> • MODE 1: 1 min. • MODE 2: 5 min. • MODE 3: 30 sec. • MODE 4: 2 min. |
| WELCOME LIGHT OP SET | Welcome light function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode. |
| LOCK/UNLOCK BY I-KEY | Door lock/unlock function by door request switch (driver side, passenger side and back door) mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode. |
| ENGINE START BY I-KEY | Engine start function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode. |
| TRUNK/GLASS HATCH OPEN | Buzzer reminder function mode by back door request switch can be changed to operate (ON) or not operate (OFF) in this mode. |
| PANIC ALARM SET | Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following in this mode. <ul style="list-style-type: none"> • MODE 1: 0.5 sec. • MODE 2: Non-operational • MODE 3: 1.5 sec. |
| PW DOWN SET | Unlock button pressing time on Intelligent Key button can be selected from the following in this mode. <ul style="list-style-type: none"> • MODE 1: 3 sec. • MODE 2: Non-operational • MODE 3: 5 sec. |
| TRUNK OPEN DELAY | NOTE: This item is displayed, but cannot be supported. |
| LO- BATT OF KEY FOB WARN | Intelligent Key low battery warning mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode. |
| ANTI KEY LOCK IN FUNCTI | Key reminder function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode. |
| HAZARD ANSWER BACK | Hazard reminder function mode can be selected from the following in this mode. <ul style="list-style-type: none"> • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operational |
| ANS BACK I-KEY LOCK | Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following in this mode. <ul style="list-style-type: none"> • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operational |
| ANS BACK I-KEY UNLOCK | Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) in this mode. |
| SHORT CRANKING OUTPUT | Starter motor can operate during the times below. <ul style="list-style-type: none"> • 70 msec. • 100 msec. • 200 msec. |
| INSIDE ANT DIAGNOSIS | This function allows inside key antenna self-diagnosis. |
| HORN WITH KEYLESS LOCK | Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) in this mode. |
| WELCOME LIGHT SELECT | Welcome light function mode can be selected from the following in this mode. <ul style="list-style-type: none"> • Puddle Lamp (ON/OFF) • Room Lamp (ON/OFF) • Head and Tail Lamps (This item is displayed, but cannot be supported.) • Outside Handle (This item is displayed, but cannot be supported.) |

SELF-DIAG RESULT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Refer to [DLK-175. "DTC Index"](#).

DATA MONITOR

| Monitor Item | Condition |
|----------------|---|
| REQ SW -DR | Indicates [ON/OFF] condition of door request switch (driver side). |
| REQ SW -AS | Indicates [ON/OFF] condition of door request switch (passenger side). |
| REQ SW -BD/TR | Indicates [ON/OFF] condition of back door request switch. |
| PUSH SW | Indicates [ON/OFF] condition of push-button ignition switch. |
| IGN RLY2 -F/B | Indicates [ON/OFF] condition of ignition relay 2. |
| CLUCH SW | NOTE: This item is displayed, but cannot be monitored. |
| BRAKE SW 1 | Indicates [ON/OFF] condition of brake switch. |
| DETE/CANCL SW | Indicates [ON/OFF] condition of the P position. |
| SFT PN/N SW | Indicates [ON/OFF] condition of the P or N position. |
| S/L -LOCK | Indicates [ON/OFF] condition of steering lock unit (LOCK). |
| S/L -UNLOCK | Indicates [ON/OFF] condition of steering lock unit (UNLOCK). |
| S/L RELAY -F/B | Indicates [ON/OFF] condition of ignition switch. |
| UNLK SEN -DR | Indicates [ON/OFF] condition of driver door UNLOCK status. |
| PUSH SW -IPDM | Indicates [ON/OFF] condition of push-button ignition switch. |
| IGN RLY1 -F/B | Indicates [ON/OFF] condition of ignition relay 1. |
| DETE SW -IPDM | Indicates [ON/OFF] condition of the P position. |
| SFT PN -IPDM | Indicates [ON/OFF] condition of the P or N position. |
| SFT P -MET | Indicates [ON/OFF] condition of the P position. |
| SFT N -MET | Indicates [ON/OFF] condition of the N position. |
| ENGINE STATE | Indicates [STOP/START/CRANK/RUN] condition of engine states. |
| S/L LOCK-IPDM | Indicates [ON/OFF] condition of steering lock unit (LOCK). |
| S/L UNLK-IPDM | Indicates [ON/OFF] condition of steering lock unit (UNLOCK). |
| S/L RELAY-REQ | Indicates [ON/OFF] condition of steering lock relay. |
| VEH SPEED 1 | Displays the vehicle speed signal received from unified meter and A/C amp. by numerical value [Km/h]. |
| VEH SPEED 2 | Displays the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h]. |
| DOOR STAT-DR | Indicates [LOCK/READY/UNLOCK] condition of driver side door status. |
| DOOR STAT-AS | Indicates [LOCK/READY/UNLOCK] condition of passenger side door status. |
| ID OK FLAG | Indicates [SET/RESET] condition of key ID. |
| PRMT ENG STRT | Indicates [SET/RESET] condition of engine start possibility. |
| PRMT RKE STRT | NOTE: This item is displayed, but cannot be monitored. |
| KEY SW -SLOT | Indicates [ON/OFF] condition of key slot. |
| TRNK/HAT MNTR | NOTE: This item is displayed, but cannot be monitored. |
| RKE-LOCK | Indicates [ON/OFF] condition of LOCK signal from Intelligent Key. |
| RKE-UNLOCK | Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key. |
| RKE-TR/BD | NOTE: This item is displayed, but cannot be monitored. |
| RKE-PANIC | Indicates [ON/OFF] condition of PANIC button of Intelligent Key. |
| RKE-P/W OPEN | Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key. |
| RKE-MODE CHG | Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key. |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| Monitor Item | Condition |
|---------------|--|
| RKE OPE COUN1 | When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical values starts changing. |
| RKE OPE COUN2 | NOTE: This item is displayed, but cannot be monitored. |

ACTIVE TEST

| Test item | Description |
|--------------------|---|
| BATTERY SAVER | This test is able to check interior room lamp operation. The interior room lamp is activated when "ON" on CONSULT-III screen is touched. |
| PW REMOTO DOWN SET | This test is able to check power window down operation. The power window down is activated when "ON" on CONSULT-III screen is touched. |
| OUTSIDE BUZZER | This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer is activated when "ON" on CONSULT-III screen is touched. |
| INSIDE BUZZER | This test is able to check warning chime in combination meter operation. <ul style="list-style-type: none"> • Takes away warning chime sounds when "TAKE OUT" on CONSULT-III screen is touched. • Key warning chime sounds when "KEY" on CONSULT-III screen is touched. • The P position warning chime sounds when "KNOB" on CONSULT-III screen is touched. |
| INDICATOR | This test is able to check warning lamp operation. <ul style="list-style-type: none"> • "KEY" Warning lamp illuminates when "RED ON" on CONSULT-III screen is touched. • The "KEY" Warning lamp blinks when "RED IND" on CONSULT-III screen is touched. |
| INT LAMP | This test is able to check interior room lamp operation. The interior room lamp is activated when "ON" on CONSULT-III screen is touched. |
| LCD | This test is able to check meter display information <ul style="list-style-type: none"> • Engine start information displays when "BP N" on CONSULT-III screen is touched. • Engine start information displays when "BP I" on CONSULT-III screen is touched. • Key ID warning displays when "ID NG" on CONSULT-III screen is touched. • Steering lock information displays when "ROTAT" on CONSULT-III screen is touched. • The P position warning displays when "SFT P" on CONSULT-III screen is touched. • Intelligent Key insert information displays when "INSRT" on CONSULT-III screen is touched. • Intelligent Key low battery warning displays when "BATT" on CONSULT-III screen is touched. • Take away through window warning displays when "NO KY" on CONSULT-III screen is touched. • Take away warning displays when "OUTKY" on CONSULT-III screen is touched. • The OFF position warning displays when "LK WN" on CONSULT-III screen is touched. |
| TRUNK/GLASS HATCH | This test is able to check back door opener actuator open operation. This actuator operates when "ON" on CONSULT-III screen is touched. |
| BLINKER | This test is able to check security hazard lamp operation. The hazard lamps is activated when "LH" or "RH" on CONSULT-III screen is touched. |
| HORN | This test is able to check horn operation. The horn will be activated when "ON" on CONSULT-III screen is touched. |
| P RANGE | This test is able to check A/T shift selector power supply A/T shift selector power is supplied when "ON" on CONSULT-III screen is touched. |
| ENGINE SW ILLUMI | This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when "ON" on CONSULT-III screen is touched. |
| LOCK INDICATOR | This test is able to check indicator in push-ignition switch operation. Indicator in push-ignition switch (LOCK) illuminates when "ON" on CONSULT-III screen is touched. |
| ACC INDICATOR | This test is able to check indicator in push-ignition switch operation. Indicator in push-ignition switch (ACC) illuminates when "ON" on CONSULT-III screen is touched. |
| IGNITION ON IND | This test is able to check indicator in push-ignition switch operation. Indicator in push-ignition switch (ON) illuminates when "ON" on CONSULT-III screen is touched. |
| KEY SLOT ILLUMI | This test is able to check key slot illumination operation. Key slot illumination blinks when "ON" on CONSULT-III screen is touched. |

TRUNK

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:000000003842936

BCM CONSULT-III FUNCTION

CONSULT-III 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 BCM. |

DATA MONITOR

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

*: With back door opener system

ACTIVE TEST

| Test item | Description |
|-------------------|--|
| TRUNK/GLASS HATCH | This test is able to check back door opener actuator open operation. |

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000003842937

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 by 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-31, "CAN System Specification Chart"](#).

DTC Logic

INFOID:0000000003842938

DTC DETECTION LOGIC

| DTC | CONSULT-III display description | DTC Detection Condition | Possible cause |
|-------|---------------------------------|--|--------------------------|
| U1000 | CAN COMM CIRCUIT | When BCM cannot communicate CAN communication signal continuously for 2 seconds or more. | CAN communication system |

Diagnosis Procedure

INFOID:0000000003842939

1.PERFORM SELF DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to [LAN-22, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-35, "Intermittent Incident"](#).

DLK

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000003842940

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000003842941

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#)

Special Repair Requirement

INFOID:0000000003842942

1.REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> Work end

B2621 INSIDE KEY ANTENNA 1

< DTC/CIRCUIT DIAGNOSIS >

B2621 INSIDE KEY ANTENNA 1

Description

INFOID:000000003842943

Detects whether Intelligent Key is inside the vehicle.
Installed in the instrument center.

DTC Logic

INFOID:000000003842944

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|--------------------------|--|---|
| B2621 | INSIDE ANTENNA 1 CIRCUIT | An excessively high or low voltage from inside antenna is sent to BCM. | <ul style="list-style-type: none">Inside key antenna (instrument center)Between BCM and Inside key antenna (instrument center) |

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work Support" in "INTELLIGENT KEY".
- Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is inside key antenna DTC detected?

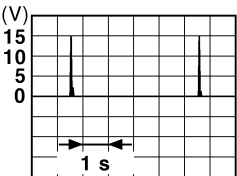
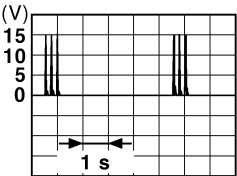
- YES >> Refer to [DLK-61, "Diagnosis Procedure"](#).
NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

INFOID:000000003842945

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

- Turn ignition switch OFF.
- Check signal between BCM harness connector and ground using an oscilloscope.

| (+) | | | (-) | Condition | Signal (Reference value) |
|-----------|-------------------|----------|--------|--|--|
| BCM | | | | | |
| Connector | | Terminal | | | |
| M122 | Instrument center | 78, 79 | Ground | Place Intelligent Key inside the vehicle. |  JMKIA0062GB |
| | | | | Place Intelligent Key outside the vehicle. |  JMKIA0063GB |

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

- Disconnect BCM and inside key antenna connector.

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DLK

B2621 INSIDE KEY ANTENNA 1

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

| BCM | | Inside key antenna (instrument center) | | Continuity |
|-----------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M122 | 78 | M131 | 2 | Existed |
| | 79 | | 1 | |

- Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|-------------------|--------|-------------|
| Connector | Terminal | | |
| M122 | Instrument center | | Not existed |
| | | | |

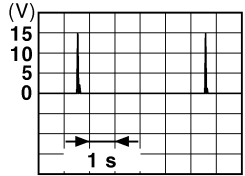
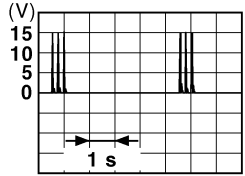
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (instrument center). (New antenna or another antenna)
- Connect BCM and inside key antenna (instrument center) connector.
- Check signal between BCM harness connector and ground using an oscilloscope.

| (+) BCM | | (-) | Condition | Signal (Reference value) |
|-----------|-------------------|--------|--|---|
| Connector | Terminal | | | |
| M122 | Instrument center | 78, 79 | Ground |  |
| | | | Place Intelligent Key outside the vehicle. |  |

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to [DLK-270, "INSTRUMENT CENTER : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

B2622 INSIDE KEY ANTENNA 2

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE KEY ANTENNA 2

Description

INFOID:000000003842946

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

DTC Logic

INFOID:000000003842947

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|--------------------------|--|---|
| B2622 | INSIDE ANTENNA 2 CIRCUIT | An excessively high or low voltage from inside antenna is sent to BCM. | <ul style="list-style-type: none">Inside key antenna (console)Between BCM and Inside key antenna (console) |

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work Support" in "INTELLIGENT KEY".
2. Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is inside key antenna DTC detected?

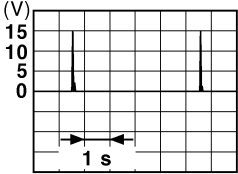
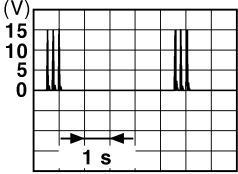
- YES >> Refer to [DLK-63, "Diagnosis Procedure"](#).
NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

INFOID:000000003842948

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using an oscilloscope.

| (+) BCM | | (-) | Condition | Signal (Reference value) |
|-----------|----------|--------|--|---|
| Connector | Terminal | | | |
| M122 | Console | 72, 73 | Ground |  |
| | | | Place Intelligent Key outside the vehicle. |  |

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM and inside key antenna (console) connector.
2. Check continuity between BCM harness connector and inside key antenna harness connector.

B2622 INSIDE KEY ANTENNA 2

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Inside key antenna (console) | | Continuity |
|-----------|----------|------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M122 | 72 | M146 | 2 | Existed |
| | 73 | | 1 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M122 | Console | | Not existed |

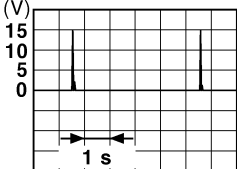
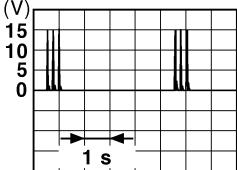
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna (console). (New antenna or other antenna)
2. Connect BCM and inside key antenna (console) connector.
3. Check signal between BCM harness connector and ground using an oscilloscope.

| (+) BCM | | | (-) | Condition | Signal (Reference value) |
|-----------|----------|--------|--------|--|---|
| Connector | Terminal | | | | |
| M122 | Console | 72, 73 | Ground | Place Intelligent Key inside the vehicle. |  |
| | | | | Place Intelligent Key outside the vehicle. |  |

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to [DLK-270, "CONSOLE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

B2623 INSIDE KEY ANTENNA 3

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE KEY ANTENNA 3

Description

INFOID:000000003842949

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

DTC Logic

INFOID:000000003842950

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|--------------------------|--|---|
| B2623 | INSIDE ANTENNA 3 CIRCUIT | An excessively high or low voltage from inside antenna is sent to BCM. | <ul style="list-style-type: none">Inside key antenna (luggage room)Between BCM and Inside key antenna (luggage room) |

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work Support" in "INTELLIGENT KEY".
2. Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is inside key antenna DTC detected?

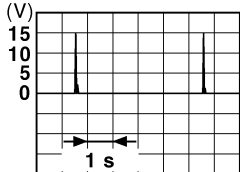
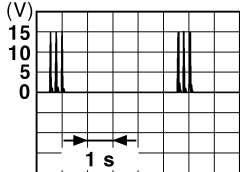
- YES >> Refer to [DLK-65, "Diagnosis Procedure"](#).
NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

INFOID:000000003842951

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using an oscilloscope.

| Terminals | | | Condition | Signal (Reference value) |
|---------------|--------------|--------|-----------|---|
| (+) | | (-) | | |
| BCM connector | Terminal | | | |
| M121 | Luggage room | 34, 35 | Ground | Place Intelligent Key inside the vehicle.  |
| | | | | Place Intelligent Key outside the vehicle.  |

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM and inside key antenna (luggage room) connector.

B2623 INSIDE KEY ANTENNA 3

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between BCM harness connector and inside key antenna (luggage room) harness connector.

| BCM | | Inside key antenna | | Continuity |
|-----------|----------|--------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M121 | 34 | B228 | 2 | Existed |
| | 35 | | 1 | |

- Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|--------------|--------|-------------|
| Connector | Terminal | | |
| M121 | Luggage room | | Not existed |
| | | | |

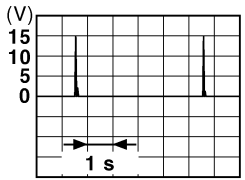
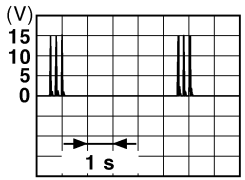
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (luggage room). (New antenna or other antenna)
- Connect BCM and inside key antenna (luggage room) connector.
- Check signal between BCM harness connector and ground using an oscilloscope.

| (+) BCM | | (-) | Condition | Signal (Reference value) |
|-----------|--------------|--------|-----------|--|
| Connector | Terminal | | | |
| M121 | Luggage room | 34, 35 | Ground | Place Intelligent Key inside the vehicle.  JMKIA0062GB |
| | | | | Place Intelligent Key outside the vehicle.  JMKIA0063GB |

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room). Refer to [DLK-271, "LUGGAGE ROOM : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000003842952

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not fusing.

| Terminal No. | Signal name | Fuse and fusible link No. |
|--------------|----------------------|---------------------------|
| 1 | Battery power supply | L |
| 11 | | 10 |

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

| (+) | | (-) | Voltage (Approx.) |
|-----------|----------|--------|----------------------|
| BCM | | | |
| Connector | Terminal | | |
| M118 | 1 | Ground | Battery voltage |
| M119 | 11 | | |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M119 | 13 | | Existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

BACK DOOR CONTROL UNIT

BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000003939947

1.CHECK FUSE

Check that the following fuse is not fusing.

| Fuse No. | Signal name |
|----------|----------------------|
| 35 | Battery power supply |

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect back door control unit connector.
3. Check voltage between back door control unit harness connector and ground.

| (+) | | (-) | Voltage (Approx.) |
|------------------------|----------|--------|----------------------|
| Back door control unit | | | |
| Connector | Terminal | | |
| D123 | 3 | Ground | Battery voltage |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between back door control unit harness connector and ground.

| Back door control unit | | Ground | Continuity |
|------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D123 | 7 | | Existed |
| | 8 | | |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Description

INFOID:000000003842953

Detects door open/close condition.

Component Function Check

INFOID:000000003842954

1.CHECK FUNCTION

With CONSULT-III

Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR", and "DOOR SW-BK") in Data Monitor" mode using CONSULT-III.

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

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-69. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003842955

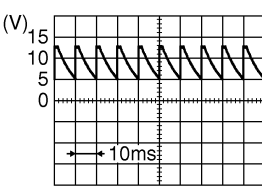
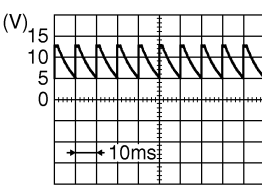
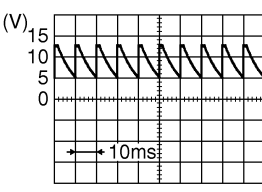
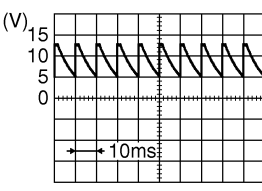
1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check signal between malfunctioning door switch harness connector and ground using an oscilloscope.

DLK

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| (+) | | | (-) | Signal (Reference value) |
|----------------|----------|---|--------|--|
| Door switch | | | | |
| Connector | Terminal | | | |
| Driver side | B16 | 2 | Ground |  JPMIA0594GB |
| Passenger side | B216 | 2 | |  JPMIA0594GB |
| Rear LH | B23 | 2 | |  JPMIA0594GB |
| Rear RH | B223 | 2 | |  JPMIA0594GB |
| Back door | D122 | 7 | | Battery voltage |

Is the inspection result normal?

- YES-1 >> Back door: GO TO 3.
 YES-2 >> Other doors: GO TO 4.
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

| BCM | | Door switch | | Continuity |
|-----------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M123 | 150 | B16 (Driver side) | 2 | Existed |
| | 124 | B216 (Passenger side) | | |
| M121 | 69 | B23 (Rear LH) | | |
| | 68 | B223 (Rear RH) | | |
| | 66 | D122 (Back door) | 7 | |

3. Check continuity between BCM harness connector and ground.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | | Continuity |
|-----------|----------------------|--------|-------------|
| Connector | Terminal | | |
| M123 | 150 (Driver side) | Ground | Not existed |
| | 124 (Passenger side) | | |
| M121 | 69 (Rear LH) | | |
| | 68 (Rear RH) | | |
| | 66 (Back door) | | |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

| Back door lock assembly (back door switch) | | Ground | Continuity |
|--|----------|--------|------------|
| Connector | Terminal | | |
| D122 | 8 | | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR SWITCH

Refer to [DLK-71, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning door switch.

- Door switch: Refer to [DLK-269, "Removal and Installation"](#).

- Back door lock assembly (back door switch): Refer to [DLK-266, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003842956

1.CHECK DOOR SWITCH

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

| Terminal | | | Door switch condition | Continuity |
|-------------|---|----------------------------|-----------------------|-------------|
| Door switch | | | | |
| Each door | 2 | Ground part of door switch | Pressed | Not existed |
| | | | Released | Existed |
| Back door | 7 | 8 | Pressed | Not existed |
| | | | Released | Existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

- Door switch: Refer to [DLK-269, "Removal and Installation"](#).

- Back door lock assembly (back door switch): Refer to [DLK-266, "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK AND UNLOCK SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000003842957

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:000000003842958

1.CHECK FUNCTION

With CONSULT-III

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in Data Monitor mode using CONSULT-III.

| Monitor item | Condition | |
|---------------|-----------|-------|
| CDL LOCK SW | LOCK | : ON |
| | UNLOCK | : OFF |
| CDL UNLOCK SW | LOCK | : OFF |
| | UNLOCK | : ON |

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-72, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000003842959

1.CHECK POWER WINDOW SWITCH

1. Turn ignition switch ON.
2. Check power window operation.

Does power window (driver side) operate?

YES >> Replace power window main switch.

NO >> Refer to [PWC-106, "Diagnosis Procedure"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000003842960

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000003842961

1.CHECK FUNCTION

With CONSULT-III

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in Data Monitor mode using CONSULT-III.

| Monitor item | Condition | |
|---------------|-----------|-------|
| CDL LOCK SW | LOCK | : ON |
| | UNLOCK | : OFF |
| CDL UNLOCK SW | LOCK | : OFF |
| | UNLOCK | : ON |

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-72, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000003842962

1.CHECK POWER WINDOW SWITCH

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1. Turn ignition switch ON.
2. Check passenger side power window operation.

Does power window (passenger side) operate?

- YES >> Replace power window switch (passenger side)
NO >> Refer to [PWC-106, "Diagnosis Procedure"](#).

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000003842963

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000003842964

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-74, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000003842965

1.CHECK OUTPUT 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 of door lock and unlock switch | Voltage (V) (Approx.) |
|--------------------------|----------|--------|--|--------------------------|
| Front door lock assembly | | | | |
| Connector | Terminal | | | |
| D15 | 1 | Ground | Lock | 0 → Battery voltage → 0 |
| | 2 | | Unlock | 0 → Battery voltage → 0 |

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side). Refer to [DLK-237, "DOOR ASSEMBLY : Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. 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 | |
| M119 | 8 | D15 | 1 | Existed |
| | 9 | | 2 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M119 | 8 | | Not existed |
| | 9 | | |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Description

INFOID:000000003842966

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000003842967

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-75. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000003842968

1.CHECK DOOR LOCK ACTUATOR SIGNAL

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

| (+) Front door lock assembly (passenger side) | | (-) | Condition of door lock and unlock switch | Voltage (V) (Approx.) |
|---|----------|--------|--|-------------------------|
| Connector | Terminal | | | |
| D45 | 1 | Ground | Unlock | 0 → Battery voltage → 0 |
| | 2 | | Lock | 0 → Battery voltage → 0 |

Is the inspection result normal?

- YES >> Replace front door lock assembly (passenger side). Refer to [DLK-237. "DOOR ASSEMBLY : Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

DLK

| BCM | | Front door lock assembly (passenger side) | | Continuity |
|-----------|----------|---|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M119 | 5 | D45 | 1 | Existed |
| | 8 | | 2 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M119 | 5 | | Not existed |
| | 8 | | |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).
NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:000000003842969

Locks/unlocks the door with the signal from BCM.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

REAR LH : Component Function Check

INFOID:000000003842970

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-76, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000003842971

1.CHECK DOOR LOCK ACTUATOR SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly LH.
3. Check voltage between rear door lock assembly LH harness connector and ground.

| (+)Rear door lock assembly LH | | (-) | Condition of door lock and unlock switch | Voltage (V) (Approx.) |
|-------------------------------|----------|--------|--|--------------------------|
| Connector | Terminal | | | |
| D55 | 1 | Ground | Lock | 0 → Battery voltage → 0 |
| | 2 | | Unlock | 0 → Battery voltage → 0 |

Is the inspection result normal?

- YES >> Replace rear door lock assembly LH. Refer to [DLK-243, "DOOR ASSEMBLY : Removal and Installation"](#).
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 assembly LH harness connector.

| BCM | | Rear door lock assembly LH | | Continuity |
|-----------|----------|----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M119 | 8 | D55 | 1 | Existed |
| | 10 | | 2 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M119 | 8 | | Not existed |
| | 10 | | |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
NO >> Repair or replace harness.

REAR RH

REAR RH : Description

INFOID:000000003842972

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000003842973

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test ("DOOR LOCK").

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

2. Touch "ALL LCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-77, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000003842974

1.CHECK DOOR LOCK ACTUATOR SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly RH.
3. Check voltage between rear door lock assembly RH harness connector and ground.

| (+) Rear door lock assembly RH | | (-) | Condition of door lock and unlock switch | Voltage (V) (Approx.) |
|--------------------------------|----------|--------|--|-------------------------|
| Connector | Terminal | | | |
| D75 | 1 | Ground | Unlock | 0 → Battery voltage → 0 |
| | 2 | | Lock | 0 → Battery voltage → 0 |

Is the inspection result normal?

- YES >> Replace rear door lock assembly RH. Refer to [DLK-243, "DOOR ASSEMBLY : Removal and Installation"](#).
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 assembly RH harness connector.

| BCM | | Rear door lock assembly RH | | Continuity |
|-----------|----------|----------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M119 | 8 | D75 | 2 | Existed |
| | 10 | | 1 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M119 | 8 | | Not Existed |
| | 10 | | |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
NO >> Repair or replace harness.

FUEL LID LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

FUEL LID LOCK ACTUATOR

Description

INFOID:000000003842975

Locks/unlocks the fuel filler lid with the signal from BCM.

Component Function Check

INFOID:000000003842976

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Fuel lid lock actuator is OK.
NO >> Refer to [DLK-78, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003842977

1.CHECK FUEL LID LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect fuel lid lock actuator connector.
3. Check voltage between fuel lid lock actuator harness connector and ground.

| (+) Fuel lid lock actuator | | (-) | Condition of door lock and unlock switch | Voltage (V) (Approx.) |
|----------------------------|----------|--------|--|-------------------------|
| Connector | Terminal | | | |
| B242 | 1 | Ground | Unlock | 0 → Battery voltage → 0 |
| | 2 | | Lock | 0 → Battery voltage → 0 |

Is the inspection result normal?

- YES >> Replace fuel lid lock actuator. Refer to [DLK-267, "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK FUEL LID LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and fuel lid lock actuator harness connector.

| BCM | | Fuel lid lock actuator | | Continuity |
|-----------|----------|------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M119 | 8 | B242 | 2 | Existed |
| | 9 | | 1 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M119 | 8 | | Not existed |
| | 9 | | |

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT

Description

INFOID:000000003842978

BCM detects condition of the back door opener switch and transmits to back door control unit.

Component Function Check

INFOID:000000003940535

1.CHECK FUNCTION

Check back door opener switch ("TR/BD OPEN SW") in "Data Monitor" mode using CONSULT-III.

| Monitor item | Condition |
|---------------|--|
| TR/BD OPEN 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 [DLK-86, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003842980

1.CHECK BACK DOOR CONTROL UNIT INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect back door control unit.
- Check voltage between back door control unit harness connector and ground.

| (+) Back door control unit | | (-) | Condition | Voltage (V) (Approx.) |
|----------------------------|----------|--------|-------------------------|--------------------------|
| Connector | Terminal | | | |
| D123 | 6 | Ground | Back door opener switch | Not pressed Pressed |
| | | | | Battery voltage 0 |

Is the inspection result normal?

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

2.CHECK BACK DOOR CONTROL UNIT CIRCUIT

- Disconnect BCM connector.
- Check continuity between back door control unit harness connector and BCM harness connector.

| Back door control unit | | BCM | | Continuity |
|------------------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D123 | 6 | M121 | 48 | Existed |

- Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M121 | 48 | | Not existed |

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

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BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| (+) BCM | | (-) | Condition | | Voltage (V) (Approx.) |
|-----------|----------|--------|-------------------------|-------------|--------------------------|
| Connector | Terminal | | | | |
| M121 | 48 | Ground | Back door opener switch | Not pressed | Battery voltage |
| | | | | Pressed | 0 |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

KEY CYLINDER SWITCH

Description

INFOID:000000003842981

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:000000003842982

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

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

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Refer to [DLK-81, "Diagnosis Procedure".](#)

Diagnosis Procedure

INFOID:000000003842983

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

| (+) Front door lock assembly (driver side) | | (-) | Voltage (V) (Approx.) |
|--|----------|--------|--------------------------|
| Connector | Terminal | | |
| D15 | 5 | Ground | 5 |
| | 6 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Disconnect power window main switch connector.
2. Check continuity between power window main switch harness connector and front door lock assembly (driver side) harness connector.

| Power window main switch | | Front door lock assembly (driver side) | | Continuity |
|--------------------------|----------|--|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D8 | 4 | D15 | 6 | Existed |
| | 6 | | 5 | |

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

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| Power window main switch | | Ground | Continuity |
|--------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D8 | 4 | | Not existed |
| | 6 | | |

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

| Front door lock assembly (driver side) | | Ground | Continuity |
|--|----------|--------|------------|
| Connector | Terminal | | |
| D15 | 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 [DLK-82, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to [DLK-237, "DOOR ASSEMBLY : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003842984

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) (key cylinder switch) terminals.
3. Check front door lock assembly (driver side) (key cylinder switch) terminals.

| Terminal | | Key position | Continuity |
|--|---|------------------|-------------|
| Front door lock assembly (driver side) connector | | | |
| 5 | 4 | Unlock | Existed |
| | | Neutral / Lock | Not existed |
| 6 | | Lock | Existed |
| | | Neutral / Unlock | Not existed |

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Replace front door lock assembly (driver side). Refer to [DLK-237, "DOOR ASSEMBLY : Removal and Installation"](#).

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:000000003842985

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:000000003842986

1.CHECK FUNCTION

With CONSULT-III

Check remote keyless entry receiver ("RKE OPE COUN1") in Data Monitor mode using CONSULT-III.

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

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

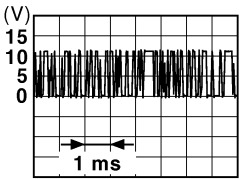
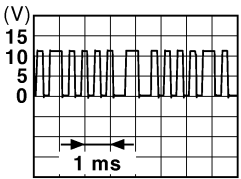
NO >> Refer to [DLK-83, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003842987

1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

| (+) Remote keyless entry receiver | | (-) | Condition | Signal (Reference value) |
|-----------------------------------|----------|--------|--|--|
| Connector | Terminal | | | |
| M104 | 2 | Ground | Waiting (All door closed) |  JMkia0064GB |
| | | | When signal is received (All door closed) |  JMkia0065GB |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

| BCM | | Remote keyless entry receiver | | Continuity |
|-----------|----------|-------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M122 | 83 | M104 | 2 | Existed |

- Check continuity between BCM harness connector and ground.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M122 | 83 | | Not existed |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Disconnect remote keyless entry receiver.
2. Check voltage between remote keyless entry receiver harness connector and ground.

| (+) Remote keyless entry receiver | | (-) | Voltage (V) (Approx.) |
|-----------------------------------|----------|-----|--------------------------|
| Connector | Terminal | | |
| M104 | 4 | | Battery voltage |

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

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

| BCM | | Remote keyless entry receiver | | Continuity |
|-----------|----------|-------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M122 | 103 | M104 | 4 | Existed |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M122 | 103 | | Not existed |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver harness connector and ground.

| Remote keyless entry receiver | | Ground | Continuity |
|-------------------------------|----------|--------|------------|
| Connector | Terminal | | |
| M104 | 1 | | Existed |

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to [DLK-276, "Removal and Installation"](#).

NO >> GO TO 6.

6.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

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

| BCM | | Remote keyless entry receiver | | Continuity |
|-----------|----------|-------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M123 | 137 | M104 | 1 | Existed |

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

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BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

Description

INFOID:000000003842988

Output back door open signal to BCM.

Component Function Check

INFOID:000000003842989

1.CHECK FUNCTION

Check back door opener switch ("TR/BD OPEN SW") in "Data Monitor mode using CONSULT-III.

- When back door opener switch is turned to "ON".

| Monitor item | Condition |
|---------------|--|
| TR/BD OPEN SW | Back door opener switch is pressed: ON |
| | Back door opener switch is released: OFF |

Is the inspection result normal?

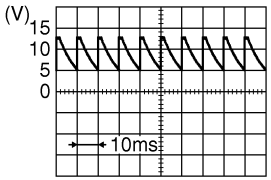
- YES >> Back door opener switch is OK.
NO >> Refer to [DLK-86, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003842990

1.CHECK BACK DOOR OPEN INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener switch connector.
3. Check signal between back door opener switch harness connector and ground.

| (+) | | (-) | Signal (Reference value) |
|-------------------------|----------|--------|--|
| Back door opener switch | | | |
| Connector | Terminal | | |
| D114 | 1 | Ground |  JPMIA0594GB |

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and back door opener switch assembly harness connector.

| BCM | | Back door opener switch | | Continuity |
|-----------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M121 | 67 | D114 | 1 | Existed |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M121 | 67 | | Not existed |

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
NO >> Repair harness or connector.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch harness connector and ground.

| Back door opener switch | | Ground | Continuity |
|-------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D114 | 2 | | Existed |

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK BACK DOOR OPENER SWITCH

Refer to [DLK-87, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace back door opener switch. Refer to [EXT-49, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000003842991

1.CHECK BACK DOOR OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener switch connector.
3. Check continuity between back door opener switch terminals.

| Terminal | | Condition | Continuity |
|-------------------------|---|---------------------|-------------|
| Back door opener switch | | | |
| 1 | 2 | ON (press and hold) | Existed |
| | | OFF (release) | Not existed |

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace back door opener switch. Refer to [EXT-49, "Removal and Installation"](#).

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DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Description

INFOID:000000003842992

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:000000003842993

1.CHECK FUNCTION

Check door request switch ("REQ SW -DR" or "REQ SW -AS") in Data Monitor mode.

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

Is the inspection result normal?

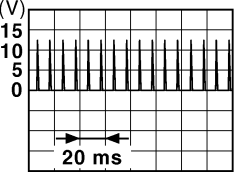
- YES >> Door request switch is OK.
NO >> Refer to [DLK-88, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003842994

1.CHECK BCM OUTPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect malfunctioning front outside handle (request switch) connector.
- Check signal between malfunctioning front outside handle (request switch) harness connector and ground.

| (+) | | (-) | Signal (Reference value) |
|---------------------------------------|----------|--------|---|
| Front outside handle (request switch) | | | |
| Connector | Terminal | | |
| Driver side | D13 | Ground |  |
| Passenger side | D43 | | |

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Is the inspection result normal?

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

2.CHECK DOOR REQUEST SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and malfunctioning front outside handle (request switch) harness connector.

| BCM | | Front outside handle (request switch) | | Continuity |
|-----------|----------|---------------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M122 | 101 | LH (driver side) | D13 | Existed |
| | 100 | RH (passenger side) | D43 | |

- Check continuity between BCM harness connector and ground.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M122 | 101 | | Not existed |
| | 100 | | |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between malfunctioning front outside handle (request switch) harness connector and ground.

| Front outside handle (request switch) | | | Ground | Continuity |
|---------------------------------------|-----|----------|--------|------------|
| Connector | | Terminal | | |
| Driver side | D13 | 2 | | Existed |
| Passenger side | D43 | | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-89, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front outside handle (request switch). Refer to [DLK-260, "OUTSIDE HANDLE : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000003842995

DLK

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front outside handle (request switch) connector.
3. Check malfunctioning front outside handle (request switch) terminals.

| Terminal | | Door request switch condition | Continuity |
|---------------------------------------|---|-------------------------------|-------------|
| Front outside handle (request switch) | | | |
| 1 | 2 | Pressed | Existed |
| | | Released | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunctioning front outside handle (request switch). Refer to [DLK-260, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR REQUEST SWITCH

Description

INFOID:000000003842996

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:000000003842997

1.CHECK FUNCTION

Check back door opener request switch ("REQ SW -BD/TR ") in Data Monitor mode.

| Monitor item | Condition |
|---------------|--|
| REQ SW -BD/TR | Back door opener request switch is pressed: ON |
| | Back door opener request switch is released: OFF |

Is the inspection result normal?

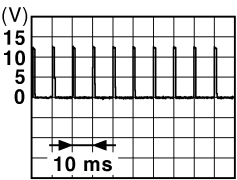
- YES >> Back door opener request switch is OK.
NO >> Refer to [DLK-90, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003842998

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener request switch.
3. Check signal between back door opener request switch harness connector and ground.

| (+) | | (-) | Signal (Reference value) |
|--|----------|--------|---|
| Back door opener request switch Connector | Terminal | | |
| D116 | 1 | Ground |  |

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and back door opener request switch harness connector.

| BCM | | Back door opener request switch | | Continuity |
|-----------|----------|---------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M121 | 61 | D116 | 1 | Existed |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M121 | 61 | | Not existed |

Is the inspection result normal?

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER REQUEST SWITCH GROUND CIRCUIT

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

| Back door opener request switch assembly | | Ground | Continuity |
|--|----------|--------|------------|
| Connector | Terminal | | |
| D116 | 2 | | Existed |

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK BACK DOOR OPENER REQUEST SWITCH

Refer to [DLK-91. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace back door opener request switch. Refer to [EXT-49. "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003842999

1.CHECK BACK DOOR OPENER REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener.
3. Check back door opener request switch terminals.

| Back door opener request switch | | Back door opener request switch condition | Continuity |
|---------------------------------|---|---|-------------|
| Terminal | | | |
| 1 | 2 | Pressed | Existed |
| | | Released | Not existed |

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace back door opener request switch. Refer to [EXT-49. "Removal and Installation"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Description

INFOID:000000003843000

Detects door lock condition of driver door.

Component Function Check

INFOID:000000003843001

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Unlock sensor is OK.

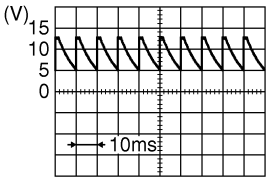
NO >> Refer to [DLK-92, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843002

1.CHECK BCM OUTPUT 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 assembly (driver side) | | (-) | Signal (Reference value) |
|--|----------|--------|---|
| Connector | Terminal | | |
| D15 | 3 | Ground |  JPMA0594GB |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.
2. 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 | |
| M123 | 119 | D15 | 3 | Existed |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M123 | 119 | | Not existed |

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

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

| Front door lock assembly (driver side) | | Ground | Continuity |
|--|----------|--------|------------|
| Connector | Terminal | | |
| D15 | 4 | | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK UNLOCK SENSOR

Refer to [DLK-93, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to [DLK-258, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000003843003

1.CHECK UNLOCK SENSOR

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

| Front door lock assembly (driver side) (unlock sensor) | | Front door lock assembly (driver side) (unlock sensor) condition | Continuity |
|--|---|--|-------------|
| Terminal | | | |
| 3 | 4 | Unlock | Existed |
| | | Lock | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front lock assembly (driver side) (unlock sensor). Refer to [DLK-258, "DOOR LOCK : Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA

Description

INFOID:000000003843004

Detects whether Intelligent Key is outside the vehicle.
Integrated in front outside handle (driver side, passenger side) and installed in back door.

Component Function Check

INFOID:000000003843005

1.CHECK DOOR REQUEST SWITCH

Check door request switch. Refer to [DLK-88, "Component Function Check"](#)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check door request switch. Refer to [DLK-88, "Diagnosis Procedure"](#).

2.CHECK FUNCTION

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

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

YES >> Outside key antenna is OK.

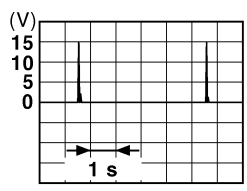
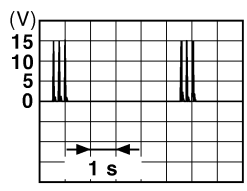
NO >> Refer to [DLK-94, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843006

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground using an oscilloscope.

| (+) BCM | | | (-) | Condition | | Signal (Reference value) |
|-----------|-------------------|----------|--------|-----------------------------|--|---|
| Connector | | Terminal | | | | |
| M122 | Driver side | 76, 77 | Ground | Request switch is pushed | When Intelligent Key is in the antenna de- tection area. |  |
| | Passenger side | 74, 75 | | | | JMKIA0062GB |
| M121 | Back door | 38, 39 | | | When Intelligent Key is not in the antenna detection area. |  |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#)

NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and malfunctioning front outside key antenna connector or outside key antenna (rear bumper) connector.
2. Check continuity between BCM harness connector and malfunctioning outside key antenna harness connector.

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Outside key antenna | | Continuity |
|-----------|----------|----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M122 | 76 | D14 (driver side) | 2 | Existed |
| | 77 | | 1 | |
| | 74 | D44 (passenger side) | 2 | |
| | 75 | | 1 | |
| M121 | 38 | D118 (back door) | 2 | |
| | 39 | | 1 | |

3. Check continuity between BCM harness connector and ground.

| BCM | | | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M122 | 74 | Ground | Not existed |
| | 75 | | |
| | 76 | | |
| | 77 | | |
| M121 | 38 | | |
| | 39 | | |

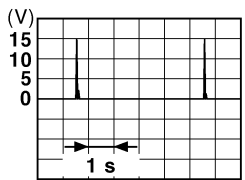
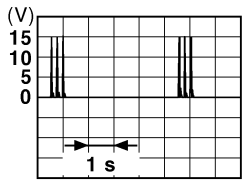
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace malfunctioning outside key antenna. (New antenna or other antenna)
2. Connect BCM connector and malfunctioning outside key antenna (New antenna or other antenna) connector.
3. Check signal between BCM harness connector and ground using an oscilloscope.

| (+) BCM | | | (-) | Condition | | Signal (Reference value) |
|-----------|----------------|----------|--------|-------------------------------|--|---|
| Connector | | Terminal | | | | |
| M122 | Driver side | 76, 77 | Ground | Door request switch is pushed | When Intelligent Key is in the antenna detection area. |  |
| | Passenger side | 74, 75 | | | | |
| M121 | Rear bumper | 38, 39 | | | When Intelligent Key is not in the antenna detection area. |  |

Is the inspection result normal?

YES-1 >> Replace malfunctioning front outside handle (LH or RH). Refer to [DLK-260. "OUTSIDE HANDLE : Removal and Installation"](#).

YES-2 >> Replace outside key antenna (Back door). Refer to [DLK-272. "BACK DOOR : Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:000000003843007

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:000000003843008

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Intelligent Key warning buzzer (engine room) is OK.
NO >> Refer to [DLK-97, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843009

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No.6, located in fuse block (J/B)].

Is fuse fusing?

- YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.
NO >> GO TO 2.

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

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

| (+) | | (-) | Voltage (V) (Approx.) |
|--------------------------------|----------|--------|--------------------------|
| Intelligent Key warning buzzer | | | |
| Connector | Terminal | | |
| E80 | 1 | Ground | Battery voltage |

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and Intelligent Key warning buzzer harness connector.

| BCM | | Intelligent Key warning buzzer | | Continuity |
|-----------|----------|--------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M121 | 64 | E80 | 3 | Existed |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M121 | 64 | | Not existed |

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK INTELLIGENT KEY WARNING BUZZER

Check [DLK-98, "Component Inspection"](#).

Is the inspection result normal?

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-273, "Removal and Installation"](#).

Component Inspection

INFOID:000000003843010

1. CHECK INTELLIGENT KEY WARNING BUZZER

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

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

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-273, "Removal and Installation"](#).

INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY

Description

INFOID:000000003843011

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

- Door lock/unlock
- Engine start

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

Component Function Check

INFOID:000000003843012

1.CHECK FUNCTION

Check remote keyless entry receiver ("RKE OPE COUN1") in Data Monitor mode using CONSULT-III.

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

Is the inspection result normal?

- YES >> Intelligent Key is OK.
NO >> Refer to [DLK-99, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843013

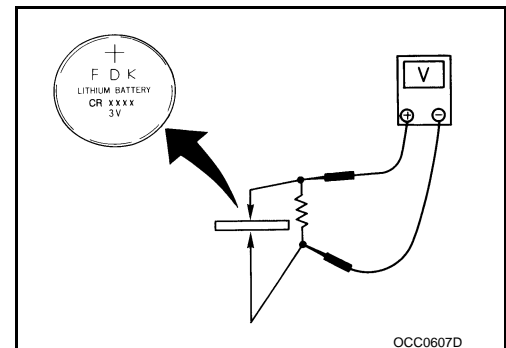
1.CHECK INTELLIGENT KEY BATTERY

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

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

- YES >> Replace Intelligent Key.
NO >> Replace Intelligent Key battery. Refer to [DLK-99, "Component Inspection"](#).



Component Inspection

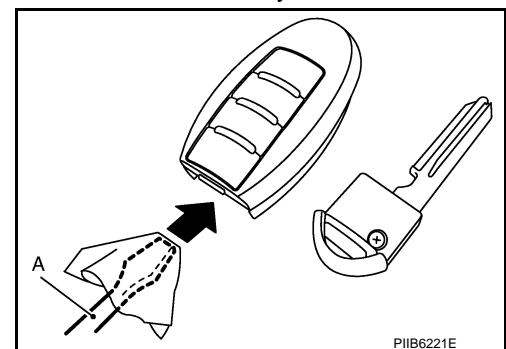
INFOID:000000003843014

1. REPLACE INTELLIGENT KEY BATTERY

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

CAUTION:

- Never 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.

INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

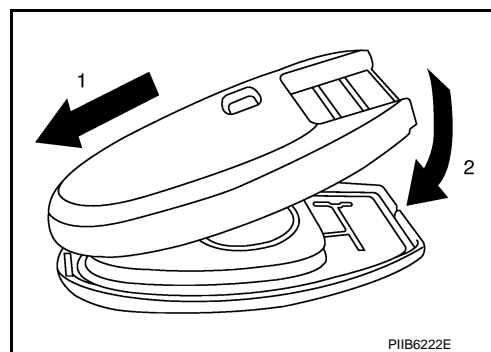
CAUTION:

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

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Check remote keyless entry receiver. Refer to [DLK-83](#).
["Component Function Check"](#).



INFOID:000000003843015

Special Repair Requirement

Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.

KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT

Description

INFOID:000000003843016

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

Component Function Check

INFOID:000000003843017

1.CHECK FUNCTION

Check key slot ("KEY SW -SLOT") in Data Monitor mode using CONSULT-III.

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

Is the inspection result normal?

- YES >> Key slot is OK.
NO >> Refer to [DLK-101, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843018

1.CHECK FUSE

- Turn ignition switch OFF.
- Check 10 A fuse, [No.9, located in fuse block (J/B)].

Is fuse fusing?

- YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.
NO >> GO TO 2.

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

- Disconnect key slot connector.
- Check voltage between slot harness connector and ground.

| (+) Key slot | | (-) | Voltage (V) (Approx.) |
|--------------|----------|--------|--------------------------|
| Connector | Terminal | | |
| M22 | 1 | Ground | Battery voltage |

Is the inspection result normal?

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

3.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

| Key slot | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M22 | 7 | | Existed |

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK KEY SLOT CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and key slot harness connector.

KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Key slot | | Continuity |
|-----------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M123 | 121 | M22 | 11 | Existed |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M123 | 121 | | Not existed |

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK KEY SLOT

Refer to [DLK-102, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace key slot. Refer to [DLK-275, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003843019

1.CHECK KEY SLOT

1. Turn ignition switch OFF.
2. Disconnect key slot connector.
3. Check key slot terminals.

| Key slot | | Condition | Continuity |
|----------|----|--------------------------|-------------|
| Terminal | | | |
| 1 | 11 | Intelligent Key inserted | Existed |
| | | Intelligent Key removed | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key slot. Refer to [DLK-275, "Removal and Installation"](#).

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

KEY SLOT ILLUMINATION

Description

INFOID:000000003843020

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:000000003843021

1.CHECK FUNCTION

Check key slot illumination ("KEY SLOT ILLUMI") Active Test mode.

Is the inspection result normal?

YES >> Key slot function is OK.

NO >> Refer to [DLK-103. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843022

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No.9, located in fuse block (J/B)].

Is fuse fusing?

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

NO >> GO TO 2.

2.CHECK KEY SLOT ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot harness connector and ground.

| (+) | | (-) | Condition | Key slot illumination | Voltage (V) (Approx.) |
|-----------|----------|--------|--------------------------|-----------------------|--------------------------|
| Key slot | | | | | |
| Connector | Terminal | | | | |
| M22 | 6 | Ground | Intelligent Key inserted | OFF | Battery voltage |
| | | | Intelligent Key removed | ON | 0 |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3.CHECK KEY SLOT CIRCUIT

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

| BCM | | Key slot | | Continuity |
|-----------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M122 | 92 | M22 | 6 | Existed |

3. Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M122 | 92 | | Not existed |

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK KEY SLOT POWER SUPPLY CIRCUIT

1. Disconnect key slot connector.

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

2. Check voltage between key slot harness connector and ground.

| (+) | | (-) | Voltage (V) (Approx.) |
|-----------|----------|--------|--------------------------|
| Key slot | | | |
| Connector | Terminal | | |
| M22 | 5 | Ground | Battery voltage |

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

| Key slot | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M22 | 7 | | Existed |

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK KEY SLOT

Refer to [DLK-104, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace key slot. Refer to [DLK-275, "Removal and Installation"](#).

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003843023

1.CHECK KEY SLOT ILLUMINATION

1. Turn ignition switch OFF.
2. Disconnect key slot connector.
3. Connect battery power supply to key slot terminals 5 and 6, and check the operation.

5 (BAT+) - 6 (BAT-) : Key slot illuminates

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key slot. Refer to [DLK-275, "Removal and Installation"](#).

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HORN FUNCTION

Description

INFOID:000000003843024

Perform answer-back for each operation using horn.

Component Function Check

INFOID:000000003843025

1.CHECK FUNCTION

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

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

Is the operation normal?

YES >> Horn function is OK.

NO >> Refer to [DLK-105. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843026

1.CHECK HORN SWITCH

Check horn function using horn switch

Do the horns sound?

YES >> GO TO 2.

NO >> Refer to [HRN-2. "Wiring Diagram - HORN -"](#).

2.CHECK HORN RELAY POWER SUPPLY

1. Turn ignition switch ON.
2. Perform "ACTIVE TEST" ("HORN") using CONSULT-III.
3. Check voltage between malfunctioning horn relay harness connector and ground.

| (+) | | | (-) | Test item | | Voltage (V) (Approx.) |
|------------|------|----------|--------|-----------|------------------|---------------------------------------|
| Horn relay | | | Ground | | | |
| Connector | | Terminal | | HORN | ON | Battery voltage → 0 → Battery voltage |
| E11 | Low | 1 | | | Other than above | Battery voltage |
| E18 | High | 3 | | | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK HORN RELAY CIRCUIT

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

| IPDM E/R | | Horn relay | | Continuity |
|-----------|----------|------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| E6 | 44 | E11 | 1 | Existed |
| | 45 | E18 | 3 | |

4. Check continuity between driver seat control unit harness connector and ground.

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

| IPDM E/R | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| E6 | 44 | | Not existed |
| | 45 | | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-34. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

Is the inspection result normal?

>> INSPECTION END

COMBINATION METER DISPLAY FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION METER DISPLAY FUNCTION

Description

INFOID:000000003843027

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:000000003843028

1.CHECK FUNCTION

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

Is each warning displayed on meter display?

Is the inspection result normal?

YES >> Meter display is OK.

NO >> Refer to [DLK-107, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843029

1.CHECK COMBINATION METER

Refer to [MWI-112, "DTC Index"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check combination meter. Refer to [MWI-4, "Work flow"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

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DLK

BUZZER (COMBINATION METER)

< DTC/CIRCUIT DIAGNOSIS >

BUZZER (COMBINATION METER)

Description

INFOID:000000003843030

Performs operation method guide and warning using buzzer.

Component Function Check

INFOID:000000003843031

1.CHECK FUNCTION

1. Check the operation using "INSIDE BUZZER" in the Active Test.
2. Touch "TAKE OUT", "KNOB" or "KEY" on screen.

Is the inspection result normal?

- Yes >> Warning buzzer into combination meter is OK.
- No >> Refer to [DLK-108, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843032

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-23, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

KEY WARNING LAMP

Description

INFOID:000000003843033

Performs operation method guide and warning together using buzzer.

Component Function Check

INFOID:000000003843034

1.CHECK FUNCTION

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

| Test item | Condition | |
|-----------|-----------|------------------------------------|
| INDICATOR | RED ON | Key warning lamp (red) illuminates |
| | RED IND | Key warning lamp (red) blinks |

Is the inspection result normal?

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

NO >> Refer to [DLK-109, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843035

1.CHECK KEY WARNING LAMP

Refer to [MWI-43, "Diagnosis Description"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

DLK

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Description

INFOID:000000003843036

Perform answer-back for each operation using the number of blinks.

Component Function Check

INFOID:000000003843037

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-110, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003843038

1.CHECK HAZARD SWITCH CIRCUIT

Refer to [EXL-111, "Wiring Diagram - TURN AND HAZARD WARNING LAMPS -"](#)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-35, "Intermittent Incident"](#).

>> INSPECTION END

OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

OPEN SWITCH

Description

INFOID:000000003939953

The open switch is integrated in the back door lock assembly, and it detects the open condition of the back door lock.

Diagnosis Procedure

INFOID:000000003939955

1.CHECK BACK DOOR CONTROL UNIT OUTPUT

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

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------------|----------|--------|--------------------------|
| Back door lock assembly | | | |
| Connector | Terminal | | |
| D122 | 4 | Ground | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK OPEN SWITCH CIRCUIT

1. Disconnect back door control unit connector.
2. Check continuity between back door control unit harness connector and back door lock assembly harness connector.

| Back door control unit | | Back door lock assembly | | Continuity |
|------------------------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D123 | 5 | D122 | 4 | Existed |

3. Check continuity between back door control unit harness connector and ground.

| Back door control unit | | Ground | Continuity |
|------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D123 | 5 | | Not existed |

Is the inspection result normal?

YES >> Replace back door control unit. Refer to [DLK-274, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK OPEN SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly connector and ground.

| Back door lock assembly | | Ground | Continuity |
|-------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D122 | 8 | | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK OPEN SWITCH

Refer to [DLK-112, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-266, "Removal and Installation"](#).

OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003939956

COMPONENT INSPECTION

1.CHECK OPEN SWITCH

Check back door lock assembly (open switch).

| Terminal | | Condition | | Continuity |
|---------------------------------------|---|----------------|-------------------------|-------------|
| Back door lock assembly (open switch) | | | | |
| 4 | 8 | Back door lock | Open | Existed |
| | | | Fully closed/Half latch | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-266. "Removal and Installation"](#).

CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

CLOSE SWITCH

Description

INFOID:000000003939957

The close switch is integrated in the back door lock assembly, and it detects the close condition of the back door lock.

Diagnosis Procedure

INFOID:000000003939959

1.CHECK BACK DOOR CONTROL UNIT OUTPUT SIGNAL

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

| (+) | | (-) | Voltage (V) (Approx.) |
|-------------------------|----------|--------|--------------------------|
| Back door lock assembly | | | |
| Connector | Terminal | | |
| D123 | 5 | Ground | Battery voltage |

Is the inspection result normal?

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

2.CHECK CLOSE SWITCH CIRCUIT

1. Disconnect back door control unit connector.
2. Check continuity between back door control unit harness connector and back door lock assembly harness connector.

| Back door control unit | | Back door lock assembly | | Continuity |
|------------------------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D123 | 1 | D122 | 5 | Existed |

3. Check continuity between back door control unit harness connector and ground.

| Back door control unit | | Ground | Continuity |
|------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D123 | 1 | | Not existed |

Is the inspection result normal?

- YES >> Replace back door control unit. Refer to [DLK-274, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK CLOSE SWITCH GROUND CIRCUIT

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

| Back door lock assembly | | Ground | Continuity |
|-------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D122 | 8 | | Existed |

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK CLOSE SWITCH

Refer to [DLK-114, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace back door lock assembly. Refer to [DLK-266, "Removal and Installation"](#).

CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003939960

COMPONENT INSPECTION

1.CHECK CLOSE SWITCH

Check back door lock assembly (close switch).

| Terminal | | Condition | | Continuity |
|--|---|-------------------------|-----------------|-------------|
| Back door lock assembly (close switch) | | | | |
| 5 | 8 | Back door lock position | Fully closed | Existed |
| | | | Open/Half latch | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-266. "Removal and Installation"](#).

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

HALF LATCH SWITCH

Description

INFOID:000000003939961

The half latch switch is integrated in the back door lock assembly and it detects the half latch condition of the back door lock.

Diagnosis Procedure

INFOID:000000003939963

1.CHECK BACK DOOR CONTROL UNIT OUTPUT

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

| (-) | | (-) | Voltage (V) (Approx.) |
|-------------------|----------|--------|--------------------------|
| Half latch switch | | | |
| Connector | Terminal | | |
| D122 | 6 | Ground | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect back door control unit connector.
2. Check continuity between back door control unit harness connector.

| Back door control unit | | Back door lock assembly | | Continuity |
|------------------------|----------|-------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| D123 | 2 | D122 | 6 | Existed |

3. Check continuity between back door control unit harness connector and ground.

| Back door control unit | | Ground | Continuity |
|------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D123 | 2 | | Not existed |

Is the inspection result normal?

YES >> Replace back door control unit. Refer to [DLK-274, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

| Back door lock assembly | | Ground | Continuity |
|-------------------------|----------|--------|------------|
| Connector | Terminal | | |
| D122 | 8 | | Existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH

Refer to [DLK-116, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-266, "Removal and Installation"](#).

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000003939964

COMPONENT INSPECTION

1.CHECK HALF LATCH SWITCH

Check back door lock assembly (half latch switch).

| Terminal | | Back door lock position | Continuity |
|---|---|-------------------------|-------------|
| Back door lock assembly (half latch switch) connector | | | |
| 6 | 8 | Open | Existed |
| | | Fully closed/Half latch | Not existed |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-266. "Removal and Installation"](#).

BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR CLOSURE MOTOR

Description

INFOID:000000003932091

The back door lock assembly consists of the open switch, close switch, half latch switch and closure motor. The back door control unit determines the back door lock condition according to the signal from each switch and performs the open/close operation of closure motor.

Diagnosis Procedure

INFOID:000000003932092

1.CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect back door control unit connector and back door lock assembly connector.
3. Check continuity between back door control unit harness connector and back door lock assembly harness connector.

| Back door control unit | | Back door lock assembly | | Continuity |
|------------------------|----------|-------------------------|----------|-------------|
| Connector | Terminal | Connector | Terminal | |
| D123 | 4 | D122 | 1 | Not existed |
| | | | 2 | Existed |
| | 10 | | 1 | Existed |
| | | | 2 | Not existed |

4. Check continuity between back door control unit harness connector and ground.

| Back door control unit | | Ground | Continuity |
|------------------------|----------|--------|-------------|
| Connector | Terminal | | |
| D123 | 4 | | Not existed |
| | 10 | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

1. Connect back door control unit connector and back door lock assembly connector.
2. Check voltage between back door unit harness connector and ground.

| (+) | | (−) | Condition | | Voltage (V) (Approx.) |
|------------------------|----------|--------|-------------------|------------------|--------------------------|
| Back door control unit | | | | | |
| Connector | Terminal | | | | |
| D123 | 4 | Ground | Back door closure | Close operation | Battery voltage |
| | | | | Other than above | 0 |
| | 10 | | | Open operation | Battery voltage |
| | | | | Other than above | 0 |

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to [DLK-266, "Removal and Installation"](#).

NO >> Replace back door control unit. Refer to [DLK-274, "Removal and Installation"](#).

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:000000003843039

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:000000003843040

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 [DLK-118. "Diagnosis Procedure"](#).

3.CHECK TRANSMITTER

Check transmitter with Tool*.

*:For details, refer to Technical Service Bulletin.

Is the inspection result normal?

- YES >> Receiver or hand-held transmitter malfunction, not vehicle related.
NO >> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to [MIR-68. "Removal and Installation"](#) (with ADP) or [MIR-90. "Removal and Installation"](#) (Without ADP).

Diagnosis Procedure

INFOID:000000003843041

1.CHECK POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect auto anti-dazzling inside mirror (homelink universal transceiver) connector.
3. Check voltage between auto anti-dazzling inside mirror (home link universal transceiver) harness connector and ground.

| Auto anti-dazzling inside mirror (Homelink universal transceiver) connector | Terminal | | Condition | Voltage (V) (Approx.) |
|---|----------|--------|----------------------------------|--------------------------|
| R3 | 10 | Ground | Ignition switch position: OFF | Battery voltage |
| | 6 | | Ignition switch position: ON | |

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Check the following items.
- 10A fuse [No. 3 located in the fuse block (J/B)]
 - 10A fuse [No. 6 located in the fuse block (J/B)]
 - Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink universal transceiver).

2.CHECK GROUND CIRCUIT

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

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

| | | | |
|--|----------|--------|------------|
| Auto anti-dazzling inside mirror (Homelink universal transceiver) connector | Terminal | Ground | Continuity |
| R3 | 8 | | Existed |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-35. "Intermittent Incident"](#).

>> INSPECTION END

DLK

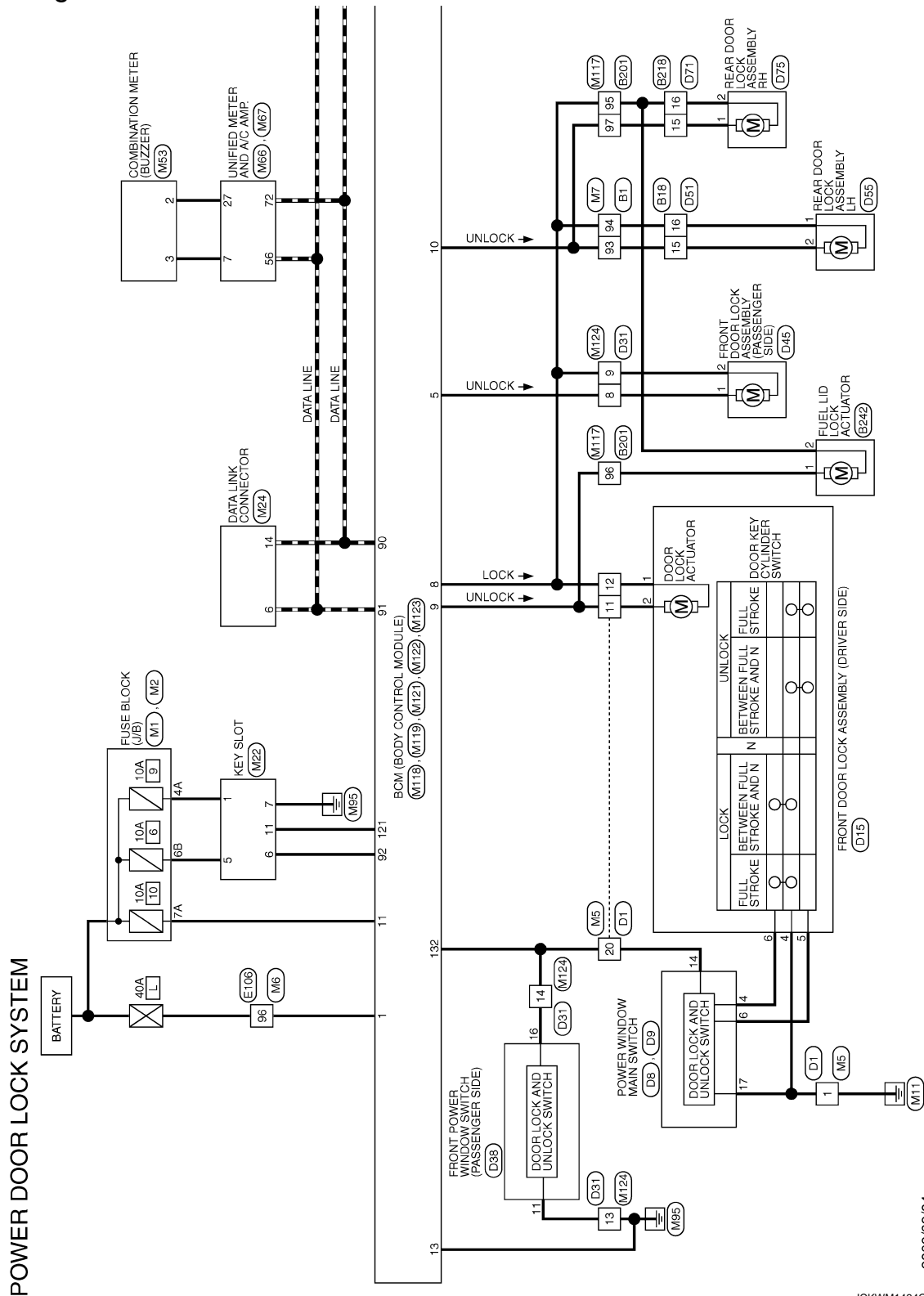
POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

Wiring Diagram - POWER DOOR LOCK SYSTEM -

INFOID:000000003843042



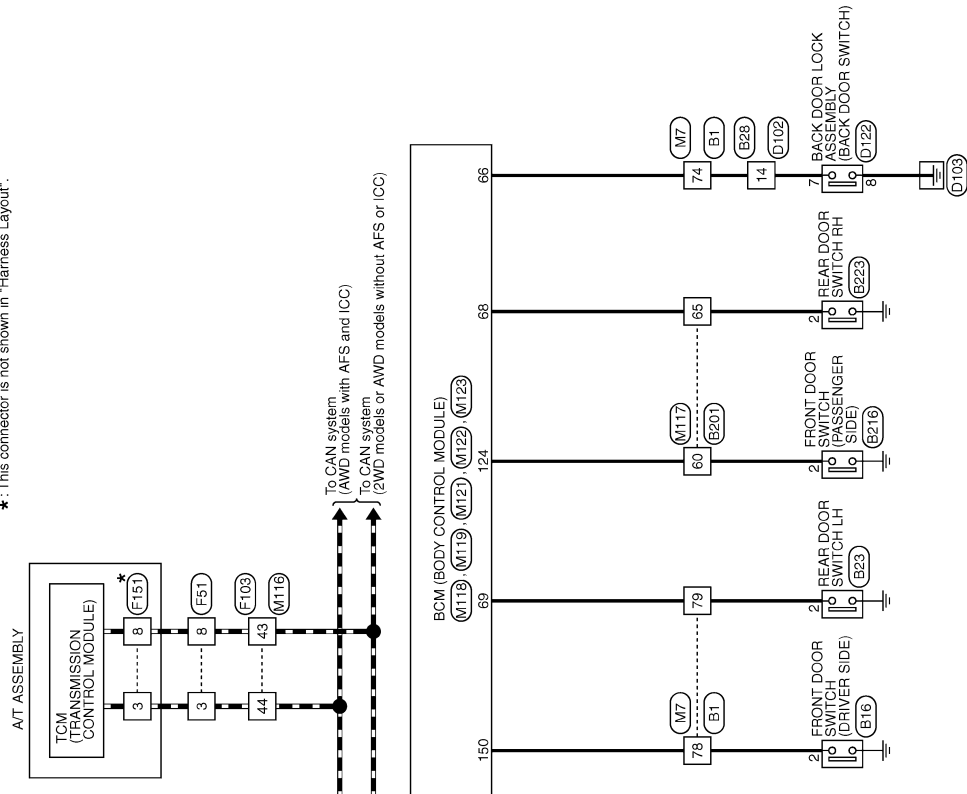
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JCKWM1434GB

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

*: This connector is not shown in "Harness Layout".



JCKWM1435GB

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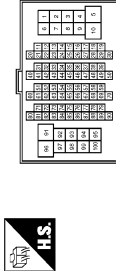
DLK

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

| | |
|----------------|-----------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



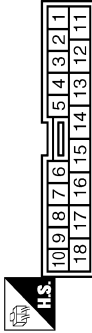
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 74 | V | - |
| 78 | GR | - |
| 79 | W | - |
| 93 | BR | - |
| 94 | V | - |

| | |
|----------------|---------------------------------|
| Connector No. | B16 |
| Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) |
| Connector Type | A03FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | GR | - |

| | |
|----------------|--------------|
| Connector No. | B18 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 15 | BR | - |
| 16 | V | - |

| | |
|----------------|---------------------|
| Connector No. | B23 |
| Connector Name | REAR DOOR SWITCH LH |
| Connector Type | A03FW |



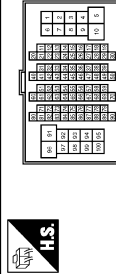
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | W | - |

| | |
|----------------|--------------|
| Connector No. | B28 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14 | V | - |

| | |
|----------------|-----------------|
| Connector No. | B201 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



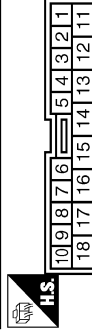
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 60 | GR | - |
| 65 | O | - |
| 95 | GR | - |
| 96 | W | - |
| 97 | G | - |

| | |
|----------------|------------------------------------|
| Connector No. | B216 |
| Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) |
| Connector Type | A03FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | GR | - |

| | |
|----------------|--------------|
| Connector No. | B218 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 15 | G | - |
| 16 | GR | - |

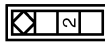
JCKWM1436GB

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

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| Connector No. | B223 |
| Connector Name | REAR DOOR SWITCH RH |
| Connector Type | AS3FW |



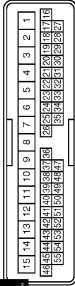
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | O | - |

| | |
|----------------|------------------------|
| Connector No. | B242 |
| Connector Name | FUEL LID LOCK ACTUATOR |
| Connector Type | MO4FW-LC |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | V | - |

| | |
|----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH4JFW-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 11 | R | - |
| 12 | LG | - |
| 20 | V | - |

| | |
|----------------|--------------------------|
| Connector No. | D8 |
| Connector Name | POWER WINDOW MAIN SWITCH |
| Connector Type | NS16FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | V | - |
| 6 | Y | - |
| 14 | V | - |

| | |
|----------------|--------------------------|
| Connector No. | D9 |
| Connector Name | POWER WINDOW MAIN SWITCH |
| Connector Type | NS03FW-CS |



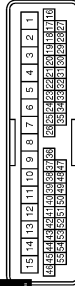
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 17 | B | - |

| | |
|----------------|--|
| Connector No. | D15 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) |
| Connector Type | EO0FGY-RS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | - |
| 2 | R | - |
| 4 | B | - |
| 5 | Y | - |
| 6 | V | - |

| | |
|----------------|--------------|
| Connector No. | D31 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH4JFW-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | R | - |
| 9 | LG | - |
| 13 | B | - |
| 14 | V | - |

| | |
|----------------|--|
| Connector No. | D38 |
| Connector Name | FRONT POWER WINDOW SWITCH (PASSENGER SIDE) |
| Connector Type | NS16FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 11 | B | - |
| 16 | V | - |

JCKWM1437GB

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POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

| | |
|----------------|---|
| Connector No. | D45 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE) |
| Connector Type | E08FGY-RS |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | R | - |
| 2 | LG | - |

| | |
|----------------|--------------|
| Connector No. | D51 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MF-NS2 |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 15 | G | - |
| 16 | V | - |

| | |
|----------------|----------------------------|
| Connector No. | D55 |
| Connector Name | REAR DOOR LOCK ASSEMBLY LH |
| Connector Type | E08FGY-RS |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | V | - |
| 2 | G | - |

| | |
|----------------|--------------|
| Connector No. | D71 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MF-NS2 |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 15 | G | - |
| 16 | L | - |

| | |
|----------------|----------------------------|
| Connector No. | D75 |
| Connector Name | REAR DOOR LOCK ASSEMBLY RH |
| Connector Type | E08FGY-RS |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | G | - |
| 2 | L | - |

| | |
|----------------|--------------|
| Connector No. | D102 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |



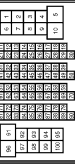
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 14 | SB | - |

| | |
|----------------|-------------------------|
| Connector No. | D122 |
| Connector Name | BACK DOOR LOCK ASSEMBLY |
| Connector Type | NS08FW-CS |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7 | SB | - |
| 8 | B | - |

| | |
|----------------|-----------------|
| Connector No. | E106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 96 | W | - |

JCKWM1438GB

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

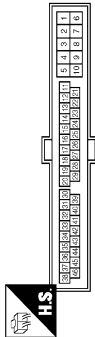
POWER DOOR LOCK SYSTEM

| | |
|----------------|--------------|
| Connector No. | F51 |
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK0FG-DGY |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | L | - |
| 8 | P | - |

| | |
|----------------|--------------|
| Connector No. | F103 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK3FW-HS10 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | P | - |
| 44 | L | - |

| | |
|----------------|-----------------------------------|
| Connector No. | F151 |
| Connector Name | TCM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG |



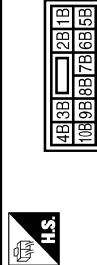
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | R | CAN-H |
| 8 | BR | CAN-L |

| | |
|----------------|------------------|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |



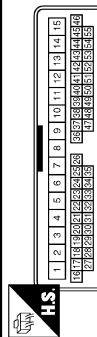
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4A | P | - |
| 7A | R | - |

| | |
|----------------|------------------|
| Connector No. | M2 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6B | Y | - |

| | |
|----------------|--------------|
| Connector No. | M5 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 11 | G | - |
| 12 | V | - |
| 20 | O | - |

| | |
|----------------|-----------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 98 | W | - |

| | |
|----------------|-----------------|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 74 | LG | - |
| 78 | GR | - |
| 79 | R | - |
| 93 | BR | - |
| 94 | V | - |

JCKWM1439GB

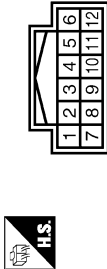
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POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

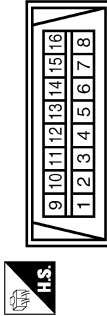
POWER DOOR LOCK SYSTEM

| | |
|----------------|-----------|
| Connector No. | M22 |
| Connector Name | KEY SLOT |
| Connector Type | TH12FW-NH |



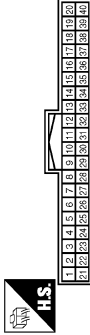
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | BAT |
| 5 | Y | ILL BAT |
| 6 | LG | ILL |
| 7 | B | GND |
| 11 | BR | KEY SWITCH SIGNAL |

| | |
|----------------|---------------------|
| Connector No. | M24 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |



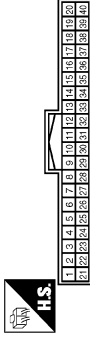
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6 | L | - |
| 14 | P | - |

| | |
|----------------|-------------------|
| Connector No. | M53 |
| Connector Name | COMBINATION METER |
| Connector Type | TH40FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | LG | COMM (METER->AMP.) |
| 3 | GR | COMM (AMP->METER) |

| | |
|----------------|----------------------------|
| Connector No. | M66 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH |



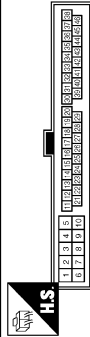
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7 | GR | COMM (AMP->METER) |
| 27 | LG | COMM (METER->AMP.) |

| | |
|----------------|----------------------------|
| Connector No. | M67 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH82FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56 | L | CAN-H |
| 72 | P | CAN-L |

| | |
|----------------|--------------|
| Connector No. | M116 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MW-NS10 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | P | - |
| 44 | L | - |

| | |
|----------------|-----------------|
| Connector No. | M117 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH83MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 60 | LG | - |
| 65 | BR | - |
| 95 | V | - |
| 96 | G | - |
| 97 | G | - |

| | |
|----------------|---------------------------|
| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | MD3FB-LC |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | BAT (F/L) |

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POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

| | |
|----------------|---------------------------|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16PW-CS |



| | | | | | | | | |
|----|----|----|----|-------------|----|----|----|----|
| 4 | 5 | 6 | 7 | <div></div> | 8 | 9 | 10 | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------------|
| 5 | V | PASSENGER DOOR UNLOCK OUTPUT |
| 8 | V | ALL DOOR FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR FUEL LID UNLOCK OUTPUT |
| 10 | BR | REAR DOOR UNLOCK OUTPUT |
| 11 | R | BAT (FUSE) |
| 13 | B | GND |

| | |
|----------------|--------------|
| Connector No. | M124 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15 |



| | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | V | - |
| 9 | LG | - |
| 13 | B | - |
| 14 | O | - |

| | |
|----------------|---------------------------|
| Connector No. | M121 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FGY-NH |



| | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66 | LG | BACK DOOR SW |
| 68 | BR | REAR RH DOOR SW |
| 69 | R | REAR LH DOOR SW |

| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |

| | |
|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |



| | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 121 | BR | KEY SLOT SW |
| 124 | LG | PASSENGER DOOR SW |
| 132 | O | POWER WINDOW SW COMM |
| 150 | GR | DRIVER DOOR SW |

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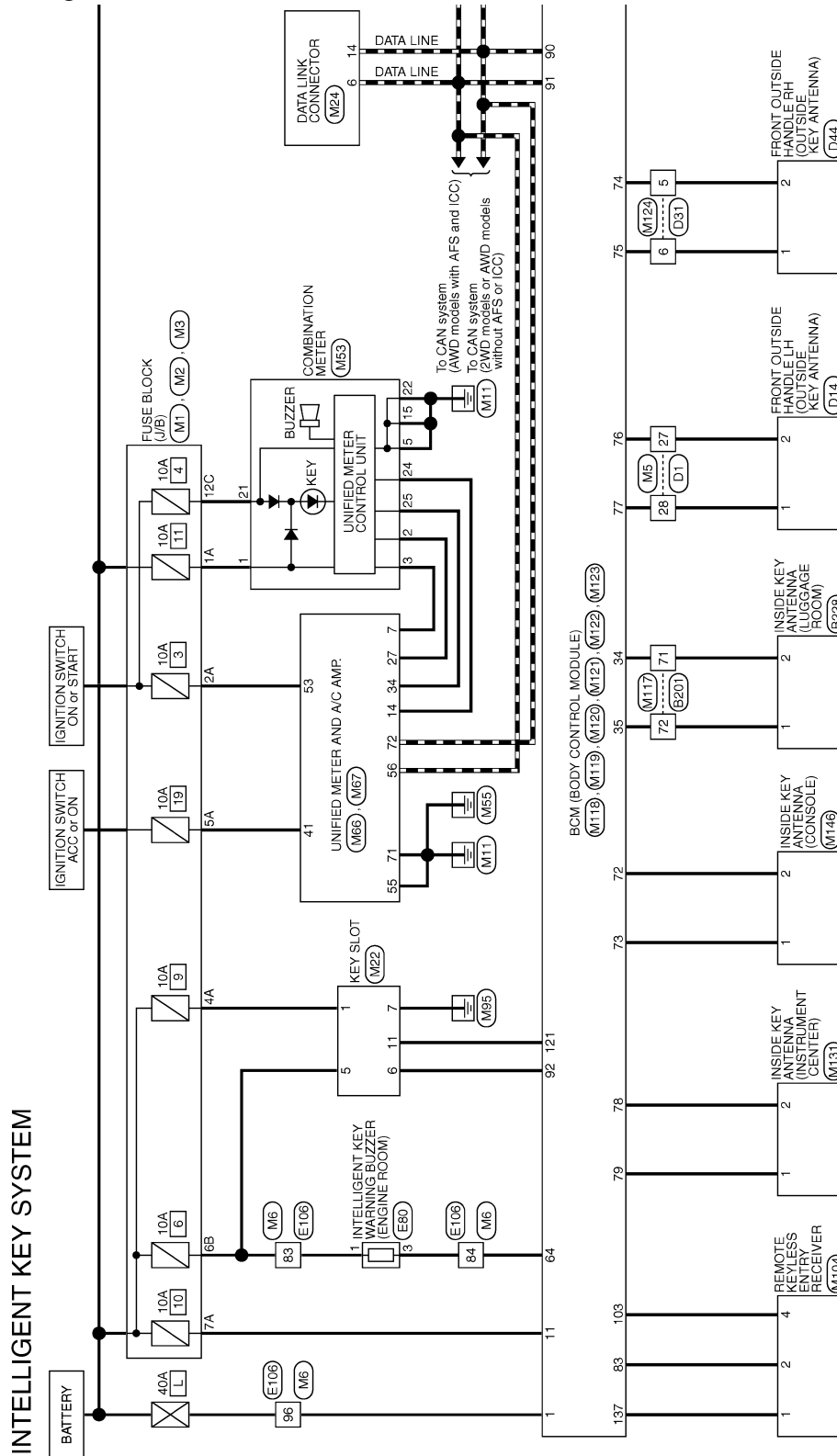
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

Wiring Diagram - INTELLIGENT KEY SYSTEM -

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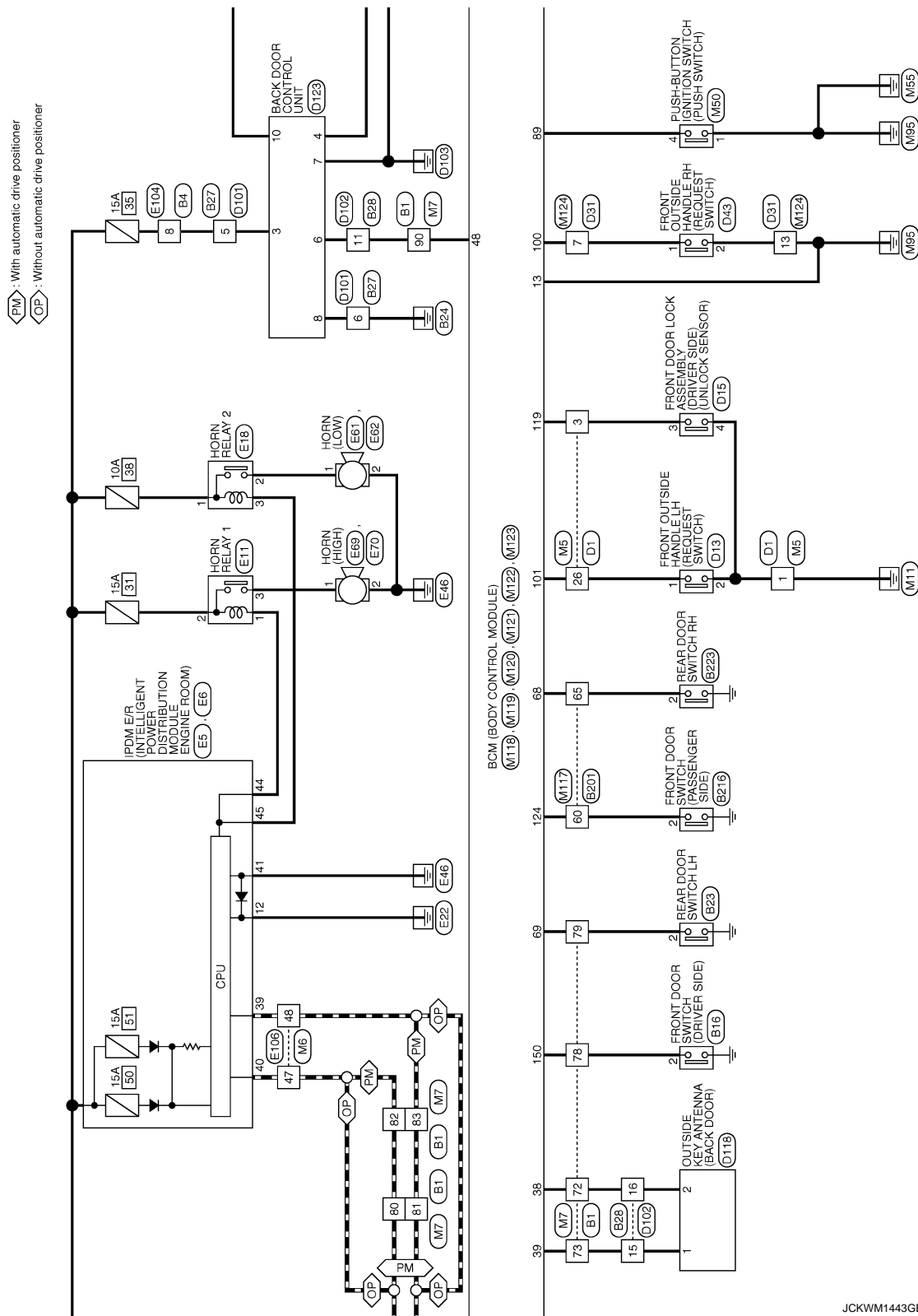


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2008/03/04

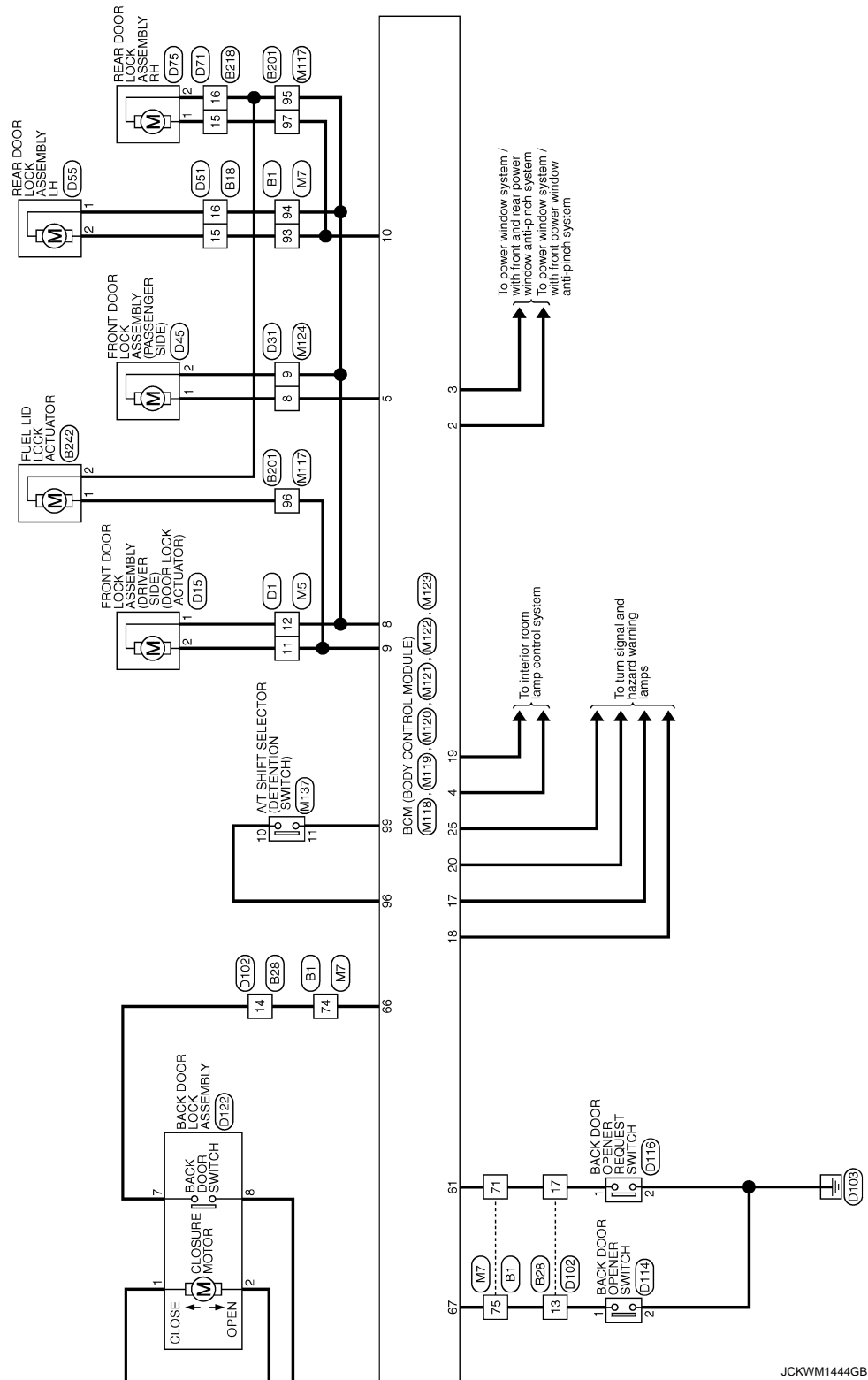
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



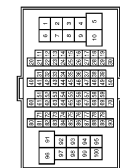
JCKWM1444GB

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

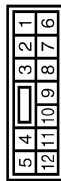
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|----------------|------------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM44 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 71 | G | - |
| 72 | B | - |
| 73 | W | - |
| 74 | V | - |
| 75 | O | - |
| 76 | GR | - |
| 78 | W | - |
| 80 | L | - |
| 81 | P | - |
| 82 | L | - |
| 83 | P | - |

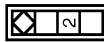
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|----|----|---|
| 90 | W | - |
| 93 | BR | - |
| 94 | V | - |

| | |
|----------------|--------------|
| Connector No. | B4 |
| Connector Name | WIRE TO WIRE |
| Connector Type | HS12FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | R | - |

| | |
|----------------|---------------------------------|
| Connector No. | B16 |
| Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) |
| Connector Type | AQ3FW |

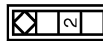


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | GR | - |

| | |
|----------------|--------------|
| Connector No. | B18 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8 |



| | |
|----------------|---------------------|
| Connector No. | B23 |
| Connector Name | REAR DOOR SWITCH LH |
| Connector Type | AQ3FW |



| | |
|----------------|--------------|
| Connector No. | B27 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M08MW-LC |



| | |
|----------------|--------------|
| Connector No. | B28 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 15 | BR | - |
| 16 | V | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | W | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5 | R | - |
| 6 | GR | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 11 | W | - |
| 13 | O | - |
| 14 | V | - |
| 15 | W | - |
| 16 | B | - |
| 17 | G | - |

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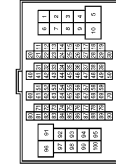
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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

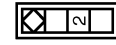
INTELLIGENT KEY SYSTEM

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|----------------|------------------|
| Connector No. | B201 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM44 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 60 | GR | - |
| 65 | O | - |
| 71 | SB | - |
| 72 | V | - |
| 95 | GR | - |
| 96 | W | - |
| 97 | G | - |

| | |
|----------------|------------------------------------|
| Connector No. | B216 |
| Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) |
| Connector Type | A03FW |



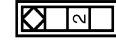
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | GR | - |

| | |
|----------------|--------------|
| Connector No. | B218 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 15 | G | - |
| 16 | GR | - |

| | |
|----------------|---------------------|
| Connector No. | B223 |
| Connector Name | REAR DOOR SWITCH RH |
| Connector Type | A03FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | O | - |

| | |
|----------------|-----------------------------------|
| Connector No. | B228 |
| Connector Name | INSIDE KEY ANTENNA (LUGGAGE ROOM) |
| Connector Type | RK02FGY |



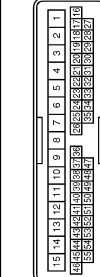
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | SB | - |

| | |
|----------------|------------------------|
| Connector No. | B242 |
| Connector Name | FUEL LID LOCK ACTUATOR |
| Connector Type | M04FW-LG |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | V | - |

| | |
|----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 3 | G | - |
| 11 | R | - |
| 12 | LG | - |
| 26 | G | - |
| 27 | V | - |
| 28 | P | - |

| | |
|----------------|--|
| Connector No. | D13 |
| Connector Name | FRONT OUTSIDE HANDLE LH (REQUEST SWITCH) |
| Connector Type | RK02FL-B |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | B | - |

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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

| | |
|----------------|---|
| Connector No. | D14 |
| Connector Name | FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) |
| Connector Type | RK02MGY |



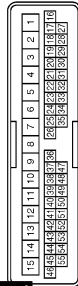
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | - |
| 2 | V | - |

| | |
|----------------|--|
| Connector No. | D15 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) |
| Connector Type | EO6FGY-RS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | - |
| 2 | R | - |
| 3 | G | - |
| 4 | B | - |

| | |
|----------------|--------------|
| Connector No. | D31 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH4FW-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5 | W | - |
| 6 | P | - |
| 7 | G | - |
| 8 | R | - |
| 9 | LG | - |
| 13 | B | - |

| | |
|----------------|--|
| Connector No. | D43 |
| Connector Name | FRONT OUTSIDE HANDLE RH (REQUEST SWITCH) |
| Connector Type | RK02FL-B |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | B | - |

| | |
|----------------|---|
| Connector No. | D44 |
| Connector Name | FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA) |
| Connector Type | RK02MGY |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | - |
| 2 | W | - |

| | |
|----------------|---|
| Connector No. | D45 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE) |
| Connector Type | EO6FGY-RS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | LG | - |

| | |
|----------------|--------------|
| Connector No. | D51 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS8 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 15 | G | - |
| 16 | V | - |

| | |
|----------------|----------------------------|
| Connector No. | D55 |
| Connector Name | REAR DOOR LOCK ASSEMBLY LH |
| Connector Type | EO6FGY-RS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | G | - |









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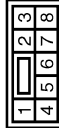
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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

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|---|---------------|---|----------------------------|---|-----------------------------|---|---------------|-----------------------------|
| Connector No. | D71 | Connector No. | D75 | Connector No. | D101 | Connector No. | D102 | |
| Connector Name | WIRE TO WIRE | Connector Name | REAR DOOR LOCK ASSEMBLY RH | Connector Name | WIRE TO WIRE | Connector Name | WIRE TO WIRE | |
| Connector Type | TK10MW-NS3 | Connector Type | ED06GY-RS | Connector Type | M06FW-LC | Connector Type | TH24FW-NH | |
|  | |  | |  | |  | | |
|  | |  | |  | |  | | |
| Terminal No. | Color of Wire | Signal Name [Specification] | Terminal No. | Color of Wire | Signal Name [Specification] | Terminal No. | Color of Wire | Signal Name [Specification] |
| 15 | G | - | 1 | G | - | 11 | W | - |
| 16 | L | - | 2 | L | - | 13 | W | - |
| | | | | | | 14 | SB | - |
| | | | | | | 15 | BR | - |
| | | | | | | 16 | R | - |
| | | | | | | 17 | V | - |

| | | | | | | | | |
|---|-------------------------|---|---------------------------------|---|---------------------------------|---|-------------------------|-----------------------------|
| Connector No. | D14 | Connector No. | D116 | Connector No. | D118 | Connector No. | D122 | |
| Connector Name | BACK DOOR OPENER SWITCH | Connector Name | BACK DOOR OPENER REQUEST SWITCH | Connector Name | OUTSIDE KEY ANTENNA (BACK DOOR) | Connector Name | BACK DOOR LOCK ASSEMBLY | |
| Connector Type | TK02MR-P | Connector Type | TK02MR-P | Connector Type | RK02FY | Connector Type | NS06FW-CS | |
|  | |  | |  | |  | | |
|  | |  | |  | |  | | |
| Terminal No. | Color of Wire | Signal Name [Specification] | Terminal No. | Color of Wire | Signal Name [Specification] | Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | W | - | 1 | V | - | 1 | V | - |
| 2 | B | - | 2 | B | - | 2 | G | - |
| | | | | | | 7 | SB | - |
| | | | | | | 8 | B | - |

JCKWM1448GB

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

| | |
|----------------|------------------------|
| Connector No. | DI23 |
| Connector Name | BACK DOOR CONTROL UNIT |
| Connector Type | MS10FW-CS |



| | | | |
|---|----|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | | |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | SB | BATTERY |
| 4 | G | MTR CLOSE |
| 6 | W | B D OPEN |
| 7 | B | AS DOOR SW |
| 8 | GR | GND |
| 10 | V | MTR OPEN |

| | |
|----------------|--|
| Connector No. | E5 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH2DFW-CS12-M4-1V |



| | | | | | | | | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 9 | 10 | 11 | 12 | 13 | 14 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 37 | 38 |
| 3 | 4 | 5 | 6 | 7 | 8 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 35 | 36 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12 | B | - |

| | |
|----------------|--|
| Connector No. | E6 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH2DFW-NH |



| | | | |
|----|----|----|----|
| 42 | 41 | 40 | 39 |
| 46 | 45 | 44 | 43 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 39 | P | - |
| 40 | L | - |
| 41 | B | - |
| 44 | W | - |
| 45 | G | - |

| | |
|----------------|--------------|
| Connector No. | E11 |
| Connector Name | HORN RELAY 1 |
| Connector Type | 24381-7990A |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | - |
| 2 | BR | - |
| 3 | G | - |

| | |
|----------------|--------------|
| Connector No. | E18 |
| Connector Name | HORN RELAY 2 |
| Connector Type | M03FW-R-LG |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | - |
| 2 | Y | - |
| 3 | G | - |

| | |
|----------------|------------|
| Connector No. | E61 |
| Connector Name | HORN (LOW) |
| Connector Type | P01FB-A |



| |
|---|
| 1 |
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| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |

| | |
|----------------|------------|
| Connector No. | E62 |
| Connector Name | HORN (LOW) |
| Connector Type | P01FB-A |



| |
|---|
| 2 |
|---|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | B | - |

| | |
|----------------|-------------|
| Connector No. | E69 |
| Connector Name | HORN (HIGH) |
| Connector Type | P01FB-A |



| |
|---|
| 1 |
|---|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |

JCKWM1449GB

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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

| | |
|----------------|-------------|
| Connector No. | E70 |
| Connector Name | HORN (HIGH) |
| Connector Type | P01EF-A |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | B | - |

| | |
|----------------|--|
| Connector No. | E80 |
| Connector Name | INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM) |
| Connector Type | RK03FER |



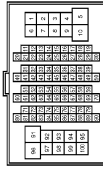
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | -BAT(VOL. SMALL) |
| 3 | GR | BUZZER SIGNAL |

| | |
|----------------|--------------|
| Connector No. | E104 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12MW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | SB | - |

| | |
|----------------|------------------|
| Connector No. | E106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS(B)-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 47 | L | - |
| 48 | P | - |
| 83 | LG | - |
| 84 | GR | - |
| 96 | W | - |

| | |
|----------------|------------------|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |



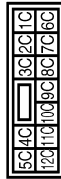
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1A | O | - |
| 2A | G | - |
| 4A | P | - |
| 5A | V | - |
| 7A | R | - |

| | |
|----------------|------------------|
| Connector No. | M2 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |



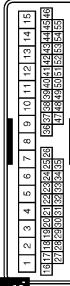
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6B | Y | - |

| | |
|----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12C | R | - |

| | |
|----------------|--------------|
| Connector No. | M5 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 3 | SB | - |
| 11 | G | - |
| 12 | V | - |
| 26 | SB | - |
| 27 | V | - |
| 28 | LG | - |

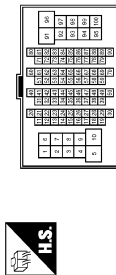
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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

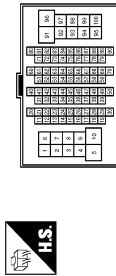
INTELLIGENT KEY SYSTEM

| | |
|----------------|-----------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS1F-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 47 | L | - |
| 48 | P | - |
| 83 | Y | - |
| 84 | L | - |
| 96 | W | - |

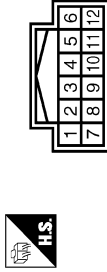
| | |
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| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS1F-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 71 | W | - |
| 72 | B | - |
| 73 | W | - |
| 74 | LG | - |
| 75 | P | - |
| 78 | GR | - |
| 79 | R | - |
| 80 | L | - |
| 81 | P | - |
| 82 | L | - |
| 83 | P | - |

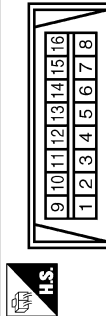
| | | |
|----|----|---|
| 90 | W | - |
| 93 | BR | - |
| 94 | V | - |

| | |
|----------------|-----------|
| Connector No. | M22 |
| Connector Name | KEY SLOT |
| Connector Type | TH12FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | BAT |
| 5 | Y | ILL BAT |
| 6 | LG | ILL |
| 7 | B | GND |
| 11 | BR | KEY SWITCH SIGNAL |

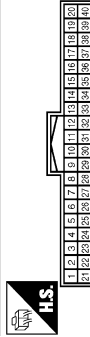
| | |
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| Connector No. | M24 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |



| | |
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| Connector No. | M50 |
| Connector Name | PUSH-BUTTON IGNITION SWITCH |
| Connector Type | TK08FBR |



| | |
|----------------|-------------------|
| Connector No. | M53 |
| Connector Name | COMBINATION METER |
| Connector Type | TH40FW-NH |



| | |
|----------------|----------------------------|
| Connector No. | M66 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6 | L | - |
| 14 | P | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 4 | SB | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | O | BAT |
| 2 | LG | COMM (METER->AMP.) |
| 3 | GR | COMM (METER->METER) |
| 5 | B | GND |
| 15 | B | GND |
| 21 | R | IGN |
| 22 | B | GND |
| 24 | BR | COMM (LCD->AMP.) |
| 25 | Y | COMM (AMP->LCD) |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7 | GR | COMM (AMP->METER) |
| 14 | BR | COMM (LCD->AMP.) |
| 27 | LG | COMM (METER->AMP.) |
| 34 | Y | COMM (AMP->LCD) |

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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

| | |
|----------------|----------------------------|
| Connector No. | M67 |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH22FW-NH |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 41 | V | ACC |
| 53 | G | IGN |
| 55 | B | GND |
| 56 | L | CAN-H |
| 71 | B | GND |
| 72 | P | CAN-L |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| | |
|----------------|-------------------------------|
| Connector No. | M104 |
| Connector Name | REMOTE KEYLESS ENTRY RECEIVER |
| Connector Type | JA6MAFB |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | B | GND |
| 2 | GR | SIGNAL OUTPUT |
| 4 | BR | BATTERY |



| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
|---|---|---|---|

| | |
|----------------|------------------|
| Connector No. | M117 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH63MW-CS18-TM44 |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 60 | LG | - |
| 65 | BR | - |
| 71 | SB | - |
| 72 | V | - |
| 95 | V | - |
| 96 | G | - |
| 97 | G | - |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

| | |
|----------------|---------------------------|
| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | MD3FB-LC |



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

| | | |
|--------------|---------------|---------------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | W | BAT (F/L) |
| 2 | Y | POWER WINDOW POWER SUPPLY(BAT) |
| 3 | O | POWER WINDOW POWER SUPPLY(TRAP) |

| | |
|----------------|---------------------------|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16FW-CS |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|



| | |
|----------------|---------------------------|
| Connector No. | M120 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS12FW-CS |

| | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|----|----|----|----|----|----|----|----|----|----|----|----|



| | |
|----------------|---------------------------|
| Connector No. | M121 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FY-NH |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|



| | | |
|--------------|---------------|------------------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 4 | P | INT ROOM LAMP PWR SUPPLY(BAT SAVE) |
| 5 | V | PASSENGER DOOR UNLOCK OUTPUT |
| 8 | V | ALL DOOR FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR FUEL LID LOCK OUTPUT |
| 10 | BR | REAR DOOR UNLOCK OUTPUT |
| 11 | R | BAT (FUSE) |
| 13 | B | GND |
| 17 | W | TURN SIGNAL RH (FRONT) |
| 18 | O | TURN SIGNAL LH (FRONT) |
| 19 | SB | ROOM LAMP TIMER |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 20 | V | TURN SIGNAL RH (REAR) |
| 25 | G | TURN SIGNAL LH (REAR) |

| | | |
|--------------|---------------|------------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 34 | SB | LUGGAGE ROOM ANT- |
| 35 | V | LUGGAGE ROOM ANT+ |
| 38 | B | BACK DOOR ANT- |
| 39 | W | BACK DOOR ANT+ |
| 48 | W | BK DOOR OPENER SW OPERATION |
| 61 | W | BACK DOOR OPENER REQUEST SW |
| 64 | L | I-KEY WARN BUZZER (ENG ROOM) |
| 66 | LG | BACK DOOR SW |
| 67 | P | BACK DOOR OPENER SW |
| 68 | BR | REAR RH DOOR SW |
| 69 | R | REAR LH DOOR SW |

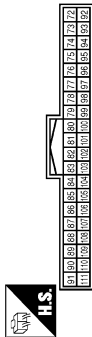
JCKWM1452GB

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY SYSTEM

| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------|
| 72 | R | ROOM ANT2- |
| 73 | G | ROOM ANT2+ |
| 74 | SB | PASSENGER DOOR ANT- |
| 75 | BR | PASSENGER DOOR ANT+ |
| 76 | V | DRIVER DOOR ANT- |
| 77 | LG | DRIVER DOOR ANT+ |
| 78 | Y | ROOM ANT1- |
| 79 | BR | ROOM ANT1+ |
| 83 | GR | KEYLESS ENTRY RECEIVER SIGNAL |
| 89 | SB | PUSH SW |
| 90 | P | CAN-L |

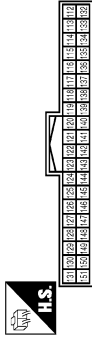
| | |
|----------------|--|
| Connector No. | M131 |
| Connector Name | INSIDE KEY ANTENNA (INSTRUMENT CENTER) |
| Connector Type | RK02MGY |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | - |
| 2 | Y | - |

| | | |
|-----|----|-------------------------------------|
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |
| 96 | GR | A/T SHIFT SELECTOR POWER SUPPLY |
| 99 | R | SHIFT P |
| 100 | G | PASSENGER DOOR REQUEST SW |
| 101 | SB | DRIVER DOOR REQUEST SW |
| 103 | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY |

| | |
|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |



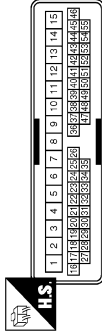
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 119 | SB | DR DOOR UNLOCK SENSOR |
| 121 | BR | KEY SLOT SW |
| 124 | LG | PASSENGER DOOR SW |
| 137 | B | RECEIVER/SENSOR GND |
| 150 | GR | DRIVER DOOR SW |

| | |
|----------------|------------------------------|
| Connector No. | M146 |
| Connector Name | INSIDE KEY ANTENNA (CONSOLE) |
| Connector Type | RK02FGY |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | R | - |

| | |
|----------------|--------------|
| Connector No. | M124 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MK-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5 | SB | - |
| 6 | BR | - |
| 7 | G | - |
| 8 | V | - |
| 9 | LG | - |
| 13 | B | - |

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JCKWM1453GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM

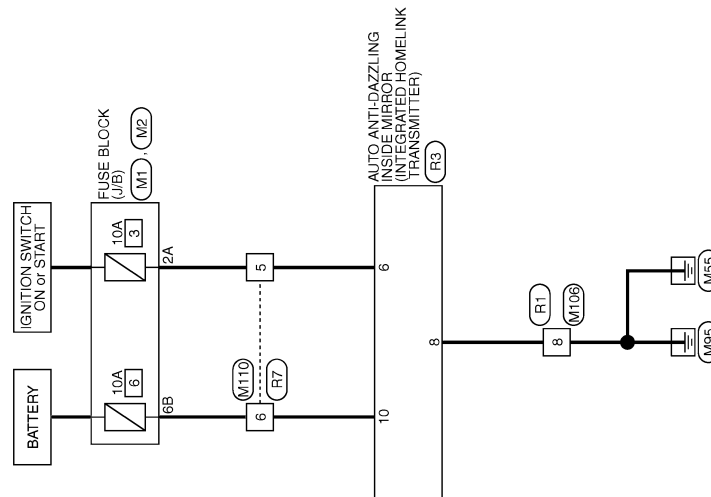
< DTC/CIRCUIT DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM -

INFOID:000000003843044

INTEGRATED HOMELINK TRANSMITTER



2008/03/04

JCKWM1454GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER

| | |
|----------------|------------------|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NSDFW-M2 |



| | |
|-----------------------------|----|
| Terminal No. | 2A |
| Color of Wire | G |
| Signal Name [Specification] | - |

| | |
|----------------|------------------|
| Connector No. | M2 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NSDFW-CS |



| | |
|-----------------------------|----|
| Terminal No. | 6B |
| Color of Wire | Y |
| Signal Name [Specification] | - |

| | |
|----------------|--------------|
| Connector No. | M105 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK1BMW-NS3 |



| | |
|-----------------------------|---|
| Terminal No. | 8 |
| Color of Wire | B |
| Signal Name [Specification] | - |

| | |
|----------------|--------------|
| Connector No. | M110 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH18MF-NH |

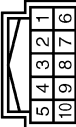


| | |
|-----------------------------|----|
| Terminal No. | 5 |
| Color of Wire | BR |
| Signal Name [Specification] | - |
| Terminal No. | 6 |
| Color of Wire | GR |
| Signal Name [Specification] | - |

| | |
|----------------|--------------|
| Connector No. | R1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK1DFW-NS3 |



| | |
|----------------|----------------------------------|
| Connector No. | R3 |
| Connector Name | AUTO ANTI-DAZZLING INSIDE MIRROR |
| Connector Type | TH10FB-NH |



| | |
|----------------|--------------|
| Connector No. | R7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH18FW-NH |



| | |
|-----------------------------|---|
| Terminal No. | 8 |
| Color of Wire | B |
| Signal Name [Specification] | - |

| | |
|-----------------------------|-----|
| Terminal No. | 6 |
| Color of Wire | BR |
| Signal Name [Specification] | IGN |
| Terminal No. | 8 |
| Color of Wire | B |
| Signal Name [Specification] | GND |
| Terminal No. | 10 |
| Color of Wire | GR |
| Signal Name [Specification] | BAT |

| | |
|-----------------------------|----|
| Terminal No. | 5 |
| Color of Wire | BR |
| Signal Name [Specification] | - |
| Terminal No. | 6 |
| Color of Wire | GR |
| Signal Name [Specification] | - |

JCKWM1455GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000003930809

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

| Monitor Item | Condition | Value/Status |
|----------------|---|----------------------------------|
| FR WIPER HI | Other than front wiper switch HI | Off |
| | Front wiper switch HI | On |
| FR WIPER LOW | Other than front wiper switch LO | Off |
| | Front wiper switch LO | On |
| FR WASHER SW | Front washer switch OFF | Off |
| | Front washer switch ON | On |
| FR WIPER INT | Other than front wiper switch INT | Off |
| | Front wiper switch INT | On |
| FR WIPER STOP | Front wiper is not in STOP position | Off |
| | Front wiper is in STOP position | On |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dial position |
| RR WIPER ON | Other than rear wiper switch ON | Off |
| | Rear wiper switch ON | On |
| RR WIPER INT | Other than rear wiper switch INT | Off |
| | Rear wiper switch INT | On |
| RR WASHER SW | Rear washer switch OFF | Off |
| | Rear washer switch ON | On |
| RR WIPER STOP | Rear wiper is in STOP position | Off |
| | Rear wiper is not in STOP position | On |
| TURN SIGNAL R | Other than turn signal switch RH | Off |
| | Turn signal switch RH | On |
| TURN SIGNAL L | Other than turn signal switch LH | Off |
| | Turn signal switch LH | On |
| TAIL LAMP SW | Other than lighting switch 1ST and 2ND | Off |
| | Lighting switch 1ST or 2ND | On |
| HI BEAM SW | Other than lighting switch HI | Off |
| | Lighting switch HI | On |
| HEAD LAMP SW 1 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| HEAD LAMP SW 2 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| PASSING SW | Other than lighting switch PASS | Off |
| | Lighting switch PASS | On |
| AUTO LIGHT SW | Other than lighting switch AUTO | Off |
| | Lighting switch AUTO | On |
| FR FOG SW | Front fog lamp switch OFF | Off |
| | Front fog lamp switch ON | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|----------------|--|--------------|-----|
| RR FOG SW | NOTE: The item is indicated, but not monitored. | Off | A |
| DOOR SW-DR | Driver door closed | Off | B |
| | Driver door opened | On | |
| DOOR SW-AS | Passenger door closed | Off | C |
| | Passenger door opened | On | |
| DOOR SW-RR | Rear RH door closed | Off | D |
| | Rear RH door opened | On | |
| DOOR SW-RL | Rear LH door closed | Off | E |
| | Rear LH door opened | On | |
| DOOR SW-BK | Back door closed | Off | F |
| | Back door opened | On | |
| CDL LOCK SW | Other than power door lock switch LOCK | Off | G |
| | Power door lock switch LOCK | On | |
| CDL UNLOCK SW | Other than power door lock switch UNLOCK | Off | H |
| | Power door lock switch UNLOCK | On | |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | Off | I |
| | Driver door key cylinder LOCK position | On | |
| KEY CYL UN-SW | Other than driver door key cylinder UNLOCK position | Off | J |
| | Driver door key cylinder UNLOCK position | On | |
| KEY CYL SW-TR | NOTE: The item is indicated, but not monitored. | Off | |
| HAZARD SW | Hazard switch is OFF | Off | DLK |
| | Hazard switch is ON | On | |
| REAR DEF SW | NOTE: The item is indicated, but not monitored. | Off | |
| TR CANCEL SW | NOTE: The item is indicated, but not monitored. | Off | |
| TR/BD OPEN SW | Back door opener switch OFF | Off | L |
| | While the back door opener switch is turned ON | On | |
| TRNK/HAT MNTR | NOTE: The item is indicated, but not monitored. | Off | |
| RKE-LOCK | LOCK button of the Intelligent Key is not pressed | Off | M |
| | LOCK button of the Intelligent Key is pressed | On | |
| RKE-UNLOCK | UNLOCK button of the Intelligent Key is not pressed | Off | N |
| | UNLOCK button of the Intelligent Key is pressed | On | |
| RKE-TR/BD | NOTE: The item is indicated, but not monitored. | Off | |
| RKE-PANIC | PANIC button of the Intelligent Key is not pressed | Off | O |
| | PANIC button of the Intelligent Key is pressed | On | |
| RKE-P/W OPEN | UNLOCK button of the Intelligent Key is not pressed | Off | P |
| | UNLOCK button of the Intelligent Key is pressed and held | On | |
| RKE-MODE CHG | LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously | Off | |
| | LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously | On | |
| OPTICAL SENSOR | Bright outside of the vehicle | Close to 5 V | |
| | Dark outside of the vehicle | Close to 0 V | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|---------------|--|--------------|
| REQ SW -DR | Driver door request switch is not pressed | Off |
| | Driver door request switch is pressed | On |
| REQ SW -AS | Passenger door request switch is not pressed | Off |
| | Passenger door request switch is pressed | On |
| REQ SW -RR | NOTE: The item is indicated, but not monitored. | Off |
| REQ SW -RL | NOTE: The item is indicated, but not monitored. | Off |
| REQ SW -BD/TR | Back door request switch is not pressed | Off |
| | Back door request switch is pressed | On |
| PUSH SW | Push-button ignition switch (push switch) is not pressed | Off |
| | Push-button ignition switch (push switch) is pressed | On |
| IGN RLY2 -F/B | Ignition switch in OFF or ACC position | Off |
| | Ignition switch in ON position | On |
| CLUCH SW | NOTE: The item is indicated, but not monitored. | Off |
| BRAKE SW 1 | The brake pedal is depressed when No. 7 fuse is blown | Off |
| | The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal | On |
| BRAKE SW 2 | The brake pedal is not depressed | Off |
| | The brake pedal is depressed | On |
| DETE/CANCL SW | Selector lever in P position | Off |
| | Selector lever in any position other than P | On |
| SFT PN/N SW | Selector lever in any position other than P and N | Off |
| | Selector lever in P or N position | On |
| S/L -LOCK | Steering is unlocked | Off |
| | Steering is locked | On |
| S/L -UNLOCK | Steering is locked | Off |
| | Steering is unlocked | On |
| S/L RELAY-F/B | Ignition switch in OFF or ACC position | Off |
| | Ignition switch in ON position | On |
| UNLK SEN -DR | Driver door is unlocked | Off |
| | Driver door is locked | On |
| PUSH SW -IPDM | Push-button ignition switch (push-switch) is not pressed | Off |
| | Push-button ignition switch (push-switch) is pressed | On |
| IGN RLY1 -F/B | Ignition switch in OFF or ACC position | Off |
| | Ignition switch in ON position | On |
| DETE SW -IPDM | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| SFT PN -IPDM | Selector lever in any position other than P and N | Off |
| | Selector lever in P or N position | On |
| SFT P -MET | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| SFT N -MET | Selector lever in any position other than N | Off |
| | Selector lever in N position | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|----------------|---|--|
| ENGINE STATE | Engine stopped | Stop |
| | While the engine stalls | Stall |
| | At engine cranking | Crank |
| | Engine running | Run |
| S/L LOCK-IPDM | Steering is unlocked | Off |
| | Steering is locked | On |
| S/L UNLK-IPDM | Steering is locked | Off |
| | Steering is unlocked | On |
| S/L RELAY-REQ | Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK | Off |
| | Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK | On |
| VEH SPEED 1 | While driving | Equivalent to speedometer reading |
| VEH SPEED 2 | While driving | Equivalent to speedometer reading |
| DOOR STAT-DR | Driver door is locked | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Driver door is unlocked | UNLOCK |
| DOOR STAT-AS | Passenger door is locked | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Passenger door is unlocked | UNLOCK |
| ID OK FLAG | Steering is locked | Reset |
| | Steering is unlocked | Set |
| PRMT ENG STRT | The engine start is prohibited | Reset |
| | The engine start is permitted | Set |
| PRMT RKE STRT | NOTE: The item is indicated, but not monitored. | Reset |
| KEY SW -SLOT | The Intelligent Key is not inserted into key slot | Off |
| | The Intelligent Key is inserted into key slot | On |
| RKE OPE COUN1 | During the operation of the Intelligent Key | Operation frequency of the Intelligent Key |
| RKE OPE COUN2 | NOTE: The item is indicated, but not monitored. | — |
| CONFIRM ID ALL | The key ID that the key slot receives is not recognized by any key ID registered to BCM. | Yet |
| | The key ID that the key slot receives accords with any key ID registered to BCM. | Done |
| CONFIRM ID4 | The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM. | Yet |
| | The key ID that the key slot receives is recognized by the fourth key ID registered to BCM. | Done |
| CONFIRM ID3 | The key ID that the key slot receives is not recognized by the third key ID registered to BCM. | Yet |
| | The key ID that the key slot receives is recognized by the third key ID registered to BCM. | Done |
| CONFIRM ID2 | The key ID that the key slot receives is not recognized by the second key ID registered to BCM. | Yet |
| | The key ID that the key slot receives is recognized by the second key ID registered to BCM. | Done |

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BCM (BODY CONTROL MODULE)

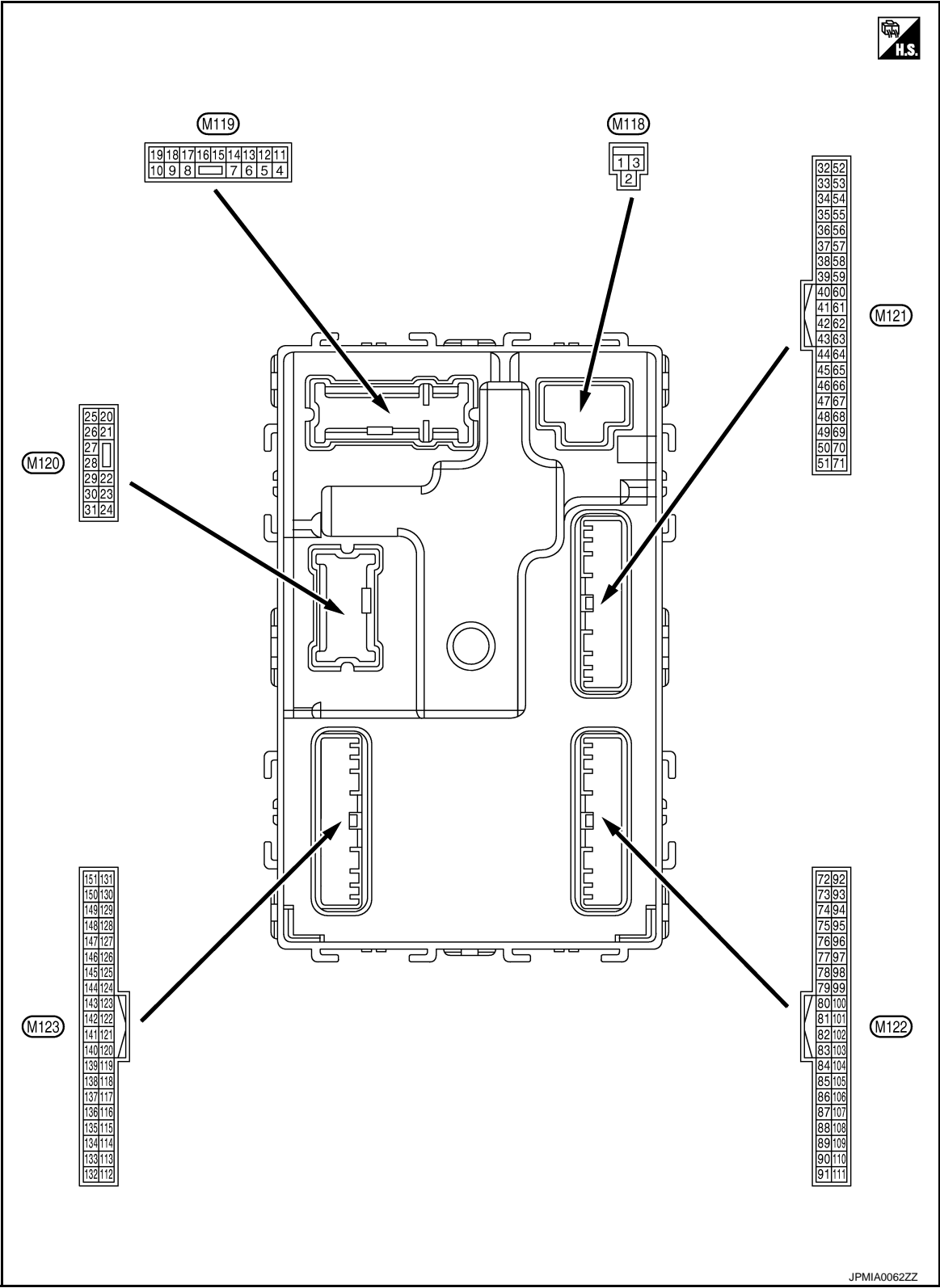
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|--------------|--|--------------|
| CONFIRM ID1 | The key ID that the key slot receives is not recognized by the first key ID registered to BCM. | Yet |
| | The key ID that the key slot receives is recognized by the first key ID registered to BCM. | Done |
| TP 4 | The ID of fourth Intelligent Key is not registered to BCM | Yet |
| | The ID of fourth Intelligent Key is registered to BCM | Done |
| TP 3 | The ID of third Intelligent Key is not registered to BCM | Yet |
| | The ID of third Intelligent Key is registered to BCM | Done |
| TP 2 | The ID of second Intelligent Key is not registered to BCM | Yet |
| | The ID of second Intelligent Key is registered to BCM | Done |
| TP 1 | The ID of first Intelligent Key is not registered to BCM | Yet |
| | The ID of first Intelligent Key is registered to BCM | Done |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

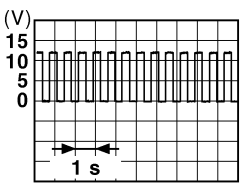
TERMINAL LAYOUT



PHYSICAL VALUES

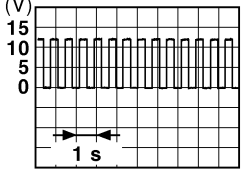
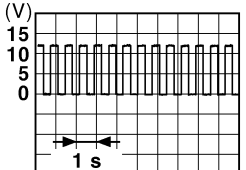
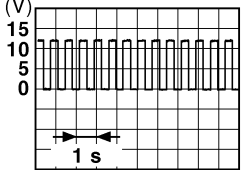
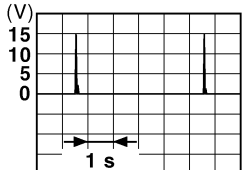
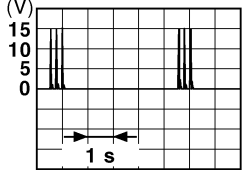
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|---|--|---|
| + | - | Signal name | Input/ Output | | | |
| 1 (W) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 2 (Y) | Ground | P/W power supply (BAT) | Output | Ignition switch OFF | | 12 V |
| 3 (O) | Ground | P/W power supply (RAP) | Output | Ignition switch ON | | 12 V |
| 4 (P) | Ground | Interior room lamp power supply (Battery saver signal) | Output | Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply) | | 0 V |
| | | | | Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply) | | 12 V |
| 5 (V) | Ground | Passenger door UN- LOCK | Output | Passenger door | UNLOCK (Actuator is activated) | 12 V |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 7 (Y) | Ground | Step lamp | Output | Step lamp | ON | 0 V |
| | | | | | OFF | 12 V |
| 8 (V) | Ground | All doors, fuel lid LOCK | Output | All doors, fuel lid | LOCK (Actuator is activated) | 12 V |
| | | | | | Other than LOCK (Actuator is not activated) | 0 V |
| 9 (G) | Ground | Driver door, fuel lid UNLOCK | Output | Driver door, fuel lid | UNLOCK (Actuator is activated) | 12 V |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 10 (BR) | Ground | Rear RH door and rear LH door UN- LOCK | Output | Rear RH door and rear LH door | UNLOCK (Actuator is activated) | 12 V |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 11 (R) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 13 (B) | Ground | Ground | — | Ignition switch ON | | 0 V |
| 15 (Y) | Ground | ACC indicator lamp | Output | Ignition switch | OFF (LOCK indicator is not illuminated) | Battery voltage |
| | | | | | ACC or ON | 0 V |
| 17 (W) | Ground | Turn signal RH (Front) | Output | Ignition switch ON | Turn signal switch OFF | 0 V |
| | | | | | Turn signal switch RH |  |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---------------------------|------------------|---|--|---|
| + | - | Signal name | Input/ Output | | | |
| 18 (O) | Ground | Turn signal LH (Front) | Output | Ignition switch ON | Turn signal switch OFF | 0 V |
| | | | | | Turn signal switch LH |  PKID0926E 6.5 V |
| 19 (SB) | Ground | Room lamp timer | Output | Other than under condition | | 5.0 V |
| | | | | <ul style="list-style-type: none"> Interior room lamp timer is activated. (Door is unlocked. etc...) Welcome light function is activated. | | 0 V |
| 20 (V) | Ground | Turn signal RH (Rear) | Output | Ignition switch ON | Turn signal switch OFF | 0 V |
| | | | | | Turn signal switch RH |  PKID0926E 6.5 V |
| 25 (G) | Ground | Turn signal LH (Rear) | Output | Ignition switch ON | Turn signal switch OFF | 0 V |
| | | | | | Turn signal switch LH |  PKID0926E 6.5 V |
| 26 (G) | Ground | Rear wiper | Output | Rear wiper | OFF (Stopped) | 0 V |
| | | | | | ON (Operated) | 12 V |
| 34 (SB) | Ground | Luggage room antenna (-) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compartment |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compartment |  JMKIA0063GB |

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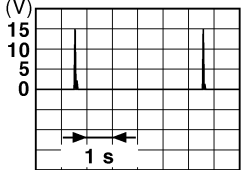
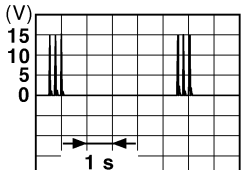
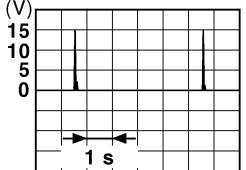
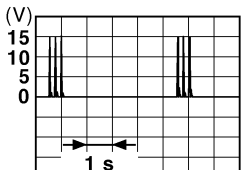
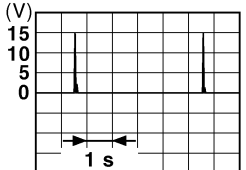
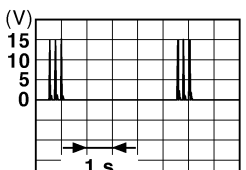
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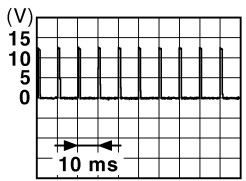
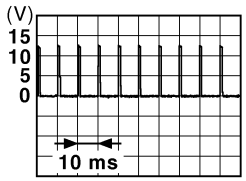
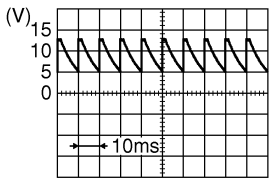
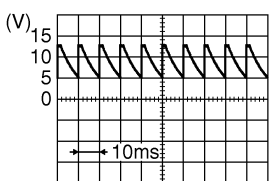
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|-----------------------------------|------------------|---|---|--|
| + | - | Signal name | Input/ Output | | | |
| 35 (V) | Ground | Luggage room antenna (+) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compartment |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compartment |  JMKIA0063GB |
| 38 (B) | Ground | Back door antenna (-) | Output | When the back door opener request switch is operated with ignition switch OFF | When Intelligent Key is in the antenna detection area |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the antenna detection area |  JMKIA0063GB |
| 39 (W) | Ground | Back door antenna (+) | Output | When the back door opener request switch is operated with ignition switch OFF | When Intelligent Key is in the antenna detection area |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the antenna detection area |  JMKIA0063GB |
| 47 (Y) | Ground | Ignition relay (IPDM E/R) control | Output | Ignition switch | OFF or ACC | 12 V |
| | | | | | ON | 0 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|--|--|---|
| + | - | Signal name | Input/ Output | | | |
| 48 (W) | Ground | Back door opener switch operation | Output | Back door opener switch | Not pressed | 12 V |
| | | | | | Pressed | 0 V |
| 52 (LG) | Ground | Starter relay control | Output | Ignition switch ON | When selector lever is in P or N position | 12 V |
| | | | | | When selector lever is not in P or N position | 0 V |
| 61 (W) | Ground | Back door opener re- quest switch | Input | Back door re- quest switch | ON (Pressed) | 0 V |
| | | | | | OFF (Not pressed) |  JPMIA0016GB 1.0 V |
| 64 (L) | Ground | Intelligent Key warn- ing buzzer (Engine room) | Output | Intelligent Key warning buzzer (Engine room) | Sounding | 0 V |
| | | | | | Not sounding | 12 V |
| 65 (O) | Ground | Rear wiper stop posi- tion | Input | Rear wiper | In stop position |  JPMIA0016GB 1.0 V |
| | | | | | Not in stop position | 0 V |
| 66 (LG) | Ground | Back door switch | Input | Back door switch | OFF (Door close) | 12 V |
| | | | | | ON (Door open) | 0 V |
| 67 (P) | Ground | Back door opener switch | Input | Back door opener switch | Pressed | 0 V |
| | | | | | Not pressed |  JPMIA0594GB 8.5 - 9.0 V |
| 68 (BR) | Ground | Rear RH door switch | Input | Rear RH door switch | OFF (Door close) |  JPMIA0594GB 8.5 - 9.0 V |
| | | | | | ON (Door open) | 0 V |

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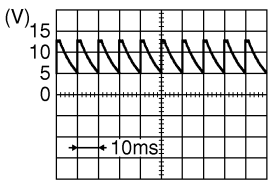
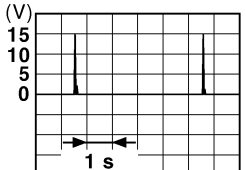
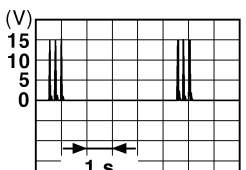
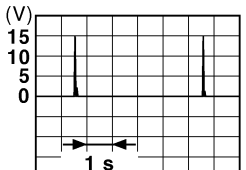
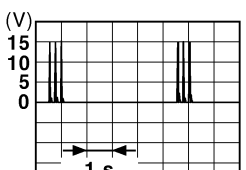
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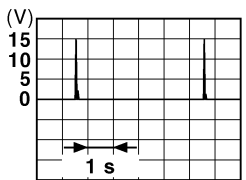
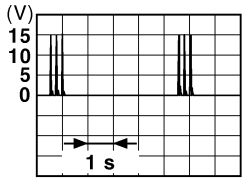
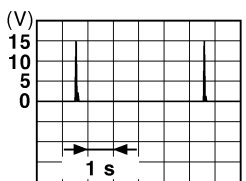
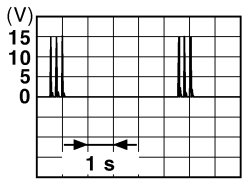
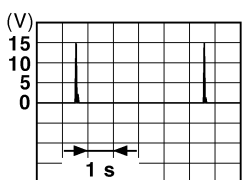
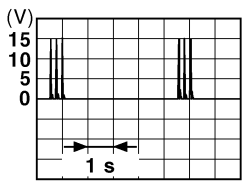
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|------------------------|--|---|
| + | - | Signal name | Input/ Output | | | |
| 69 (R) | Ground | Rear LH door switch | Input | Rear LH door switch | OFF (Door close) |  JPMIA0594GB 8.5 - 9.0 V |
| | | | | | ON (Door open) | 0 V |
| 72 (R) | Ground | Room antenna 2 (-) (Center console) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compart- ment |  JMKIA0063GB |
| 73 (G) | Ground | Room antenna 2 (+) (Center console) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compart- ment |  JMKIA0063GB |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|----------------------------|------------------|---|--|
| + | - | Signal name | Input/ Output | | |
| 74 (SB) | Ground | Passenger door antenna (-) | Output | When the passenger door request switch is operated with ignition switch OFF |  <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p>JMKIA0063GB</p> |
| 75 (BR) | Ground | Passenger door antenna (+) | Output | When the passenger door request switch is operated with ignition switch OFF |  <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p>JMKIA0063GB</p> |
| 76 (V) | Ground | Driver door antenna (-) | Output | When the driver door request switch is operated with ignition switch OFF |  <p>JMKIA0062GB</p> |
| | | | | When Intelligent Key is not in the antenna detection area |  <p>JMKIA0063GB</p> |

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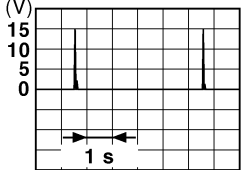
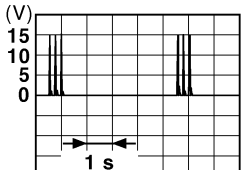
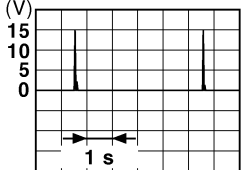
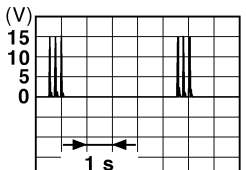
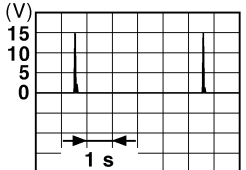
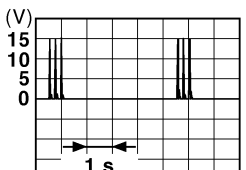
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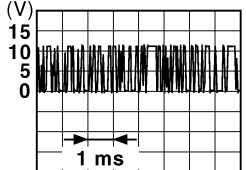
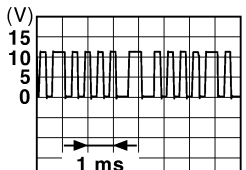
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|--|--|--|
| + | - | Signal name | Input/ Output | | | |
| 77 (LG) | Ground | Driver door antenna (+) | Output | When the driver door request switch is operat- ed with ignition switch OFF | When Intelligent Key is in the antenna detection area |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the antenna detection area |  JMKIA0063GB |
| 78 (Y) | Ground | Room antenna 1 (-) (Instrument panel) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compart- ment |  JMKIA0063GB |
| 79 (BR) | Ground | Room antenna 1 (+) (Instrument panel) | Output | Ignition switch OFF | When Intelligent Key is in the passenger compart- ment |  JMKIA0062GB |
| | | | | | When Intelligent Key is not in the passenger compart- ment |  JMKIA0063GB |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|---|---|--|
| + | - | Signal name | Input/ Output | | | |
| 80 (GR) | Ground | NATS antenna amp. | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelligent Key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 81 (W) | Ground | NATS antenna amp. | Input/ Output | During waiting | Ignition switch is pressed while inserting the Intelligent Key into the key slot. | Just after pressing ignition switch. Pointer of tester should move. |
| 82 (P) | Ground | Ignition relay [Fuse block (J/B)] control | Output | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | 12 V |
| 83 (GR) | Ground | Remote keyless entry receiver communication | Input/ Output | During waiting | |  |
| | | | | When operating either button on the Intelligent Key | |  |

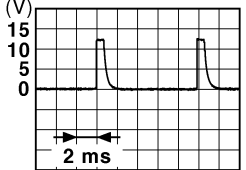

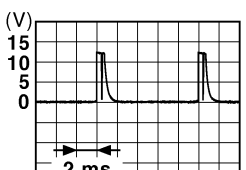
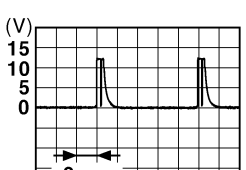
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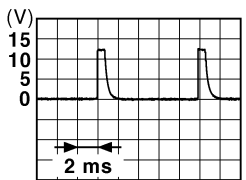
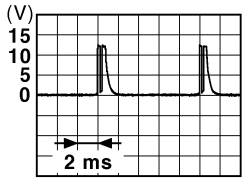
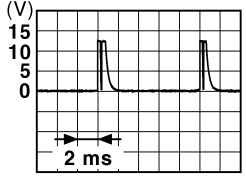
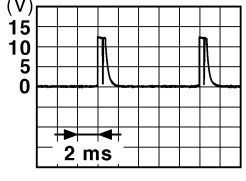
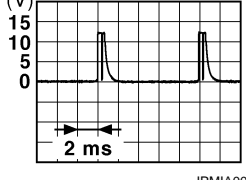
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|-------------------------------|------------------|-----------------------|---|---|
| + | - | Signal name | Input/ Output | | | |
| 87 (BR) | Ground | Combination switch INPUT 5 | Input | Combination switch | All switches OFF (Wiper intermittent dial 4) |  <p>JPMIA0041GB</p> <p>1.4 V</p> |
| | | | | | Front fog lamp switch ON (Wiper intermittent dial 4) |  <p>JPMIA0037GB</p> <p>1.3 V</p> |
| | | | | | Rear wiper switch ON (Wiper intermittent dial 4) |  <p>JPMIA0039GB</p> <p>1.3 V</p> |
| | | | | | Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 |  <p>JPMIA0040GB</p> <p>1.3 V</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|---|--|--|
| + | - | Signal name | Input/ Output | | | |
| 88 (V) | Ground | Combination switch INPUT 3 | Input | Combination switch | All switches OFF (Wiper intermittent dial 4) |  1.4 V |
| | | | | | Lighting switch HI (Wiper intermittent dial 4) |  1.3 V |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4) |  1.3 V |
| | | | | | Rear washer switch ON (Wiper intermittent dial 4) |  1.3 V |
| | | | | | Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 |  1.3 V |
| 89 (SB) | Ground | Push-button ignition switch (Push switch) | Input | Push-button igni- tion switch (Push switch) | Pressed | 0 V |
| | | | | | Not pressed | 12 V |
| 90 (P) | Ground | CAN-L | Input/ Output | — | — | — |
| 91 (L) | Ground | CAN-H | Input/ Output | — | — | — |

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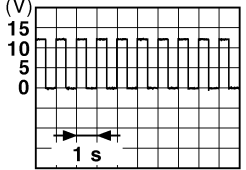
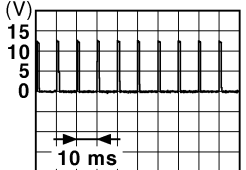
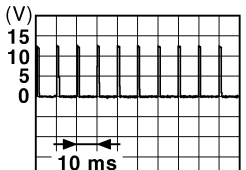
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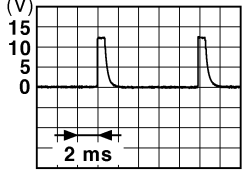
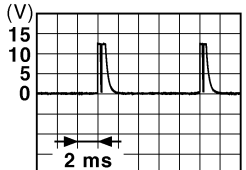

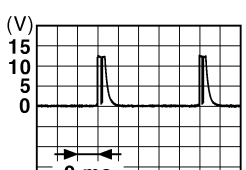

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|-------------------------------|---|---|
| + | - | Signal name | Input/ Output | | | |
| 92 (LG) | Ground | Key slot illumination | Output | Key slot illumination | OFF | 12 V |
| | | | | | Blinking |  <p>JPMA0015GB</p> |
| | | | | | ON | 0 V |
| 93 (V) | Ground | ON indicator lamp | Output | Ignition switch | OFF (LOCK indicator is not illuminated) | Battery voltage |
| | | | | | ON or ACC | 0 V |
| 95 (O) | Ground | ACC relay control | Output | Ignition switch | OFF | 0 V |
| | | | | | ACC or ON | 12 V |
| 96 (GR) | Ground | A/T shift selector (Detention switch) power supply | Output | — | — | 12 V |
| 97 (L) | Ground | Steering lock condition No. 1 | Input | Steering lock | LOCK status | 0 V |
| | | | | | UNLOCK status | 12 V |
| 98 (P) | Ground | Steering lock condition No. 2 | Input | Steering lock | LOCK status | 12 V |
| | | | | | UNLOCK status | 0 V |
| 99 (R) | Ground | Selector lever P position switch | Input | Selector lever | P position | 0 V |
| | | | | | Any position other than P | 12 V |
| 100 (G) | Ground | Passenger door request switch | Input | Passenger door request switch | ON (Pressed) | 0 V |
| | | | | | OFF (Not pressed) |  <p>JPMA0016GB</p> |
| 101 (SB) | Ground | Driver door request switch | Input | Driver door request switch | ON (Pressed) | 0 V |
| | | | | | OFF (Not pressed) |  <p>JPMA0016GB</p> |
| 102 (O) | Ground | Blower fan motor relay control | Output | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | 12 V |
| 103 (BR) | Ground | Remote keyless entry receiver power supply | Output | Ignition switch OFF | — | 12 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

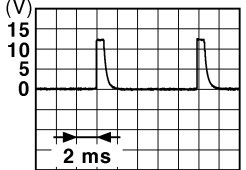
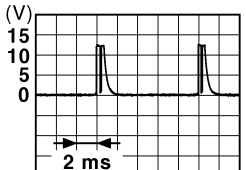
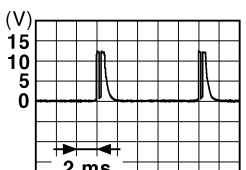
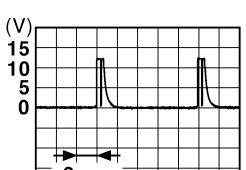
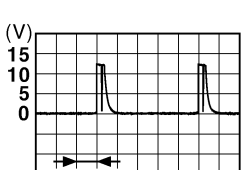
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|------------------------------------|------------------|--|------------------------|---|
| + | - | Signal name | Input/ Output | | | |
| 106 (W) | Ground | Steering lock unit power supply | Output | Ignition switch | OFF or ACC | 12 V |
| | | | | | ON | 0 V |
| 107 (LG) | Ground | Combination switch INPUT 1 | Input | Combination switch (Wiper intermittent dial 4) | All switches OFF |  <p>JPMIA0041GB</p> <p>1.4 V</p> |
| | | | | | Turn signal switch LH |  <p>JPMIA0037GB</p> <p>1.3 V</p> |
| | | | | | Turn signal switch RH |  <p>JPMIA0036GB</p> <p>1.3 V</p> |
| | | | | | Front wiper switch LO |  <p>JPMIA0038GB</p> <p>1.3 V</p> |
| | | | | | Front washer switch ON |  <p>JPMIA0039GB</p> <p>1.3 V</p> |

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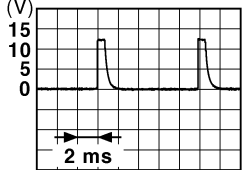
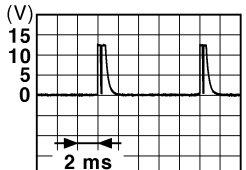

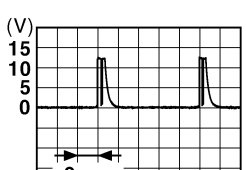

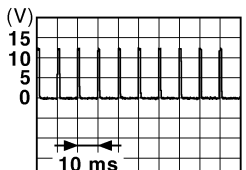
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------|------------------|-----------------------|--|
| + | - | Signal name | Input/ Output | | |
| 108 (R) | Ground | Combination switch INPUT 4 | Input | Combination switch | <p>All switches OFF (Wiper intermittent dial 4)</p>  <p>JPMIA0041GB</p> <p>1.4 V</p> |
| | | | | | <p>Lighting switch AUTO (Wiper intermittent dial 4)</p>  <p>JPMIA0038GB</p> <p>1.3 V</p> |
| | | | | | <p>Lighting switch 1ST (Wiper intermittent dial 4)</p>  <p>JPMIA0036GB</p> <p>1.3 V</p> |
| | | | | | <p>Rear wiper switch INT (Wiper intermittent dial 4)</p>  <p>JPMIA0040GB</p> <p>1.3 V</p> |
| | | | | | <p>Any of the conditions below with all switches OFF</p> <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6  <p>JPMIA0039GB</p> <p>1.3 V</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------|------------------|---|--|
| + | - | Signal name | Input/ Output | | |
| 109 (Y) | Ground | Combination switch INPUT 2 | Input | Combination switch (Wiper intermit- tent dial 4) | <p>All switches OFF</p>  <p>JPMIA0041GB 1.4 V</p> |
| | | | | | <p>Lighting switch PASS</p>  <p>JPMIA0037GB 1.3 V</p> |
| | | | | | <p>Lighting switch 2ND</p>  <p>JPMIA0036GB 1.3 V</p> |
| | | | | | <p>Front wiper switch INT</p>  <p>JPMIA0038GB 1.3 V</p> |
| | | | | | <p>Front wiper switch HI</p>  <p>JPMIA0040GB 1.3 V</p> |
| 110 (G) | Ground | Hazard switch | Input | Hazard switch | <p>ON</p> <p>0 V</p> |
| | | | | OFF |  <p>JPMIA0012GB 1.1 V</p> |

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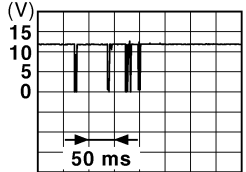
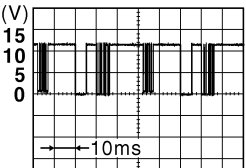
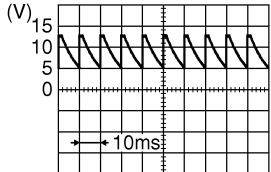
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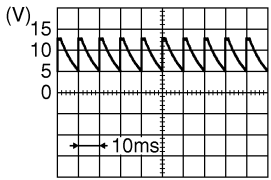
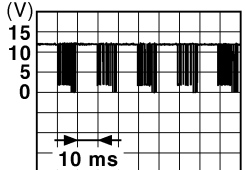
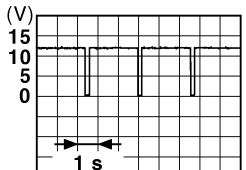
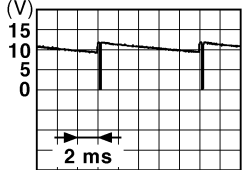
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|---|---|---|
| + | − | Signal name | Input/ Output | | | |
| 111 (GR) | Ground | Steering lock unit communication | Input/ Output | Steering lock | LOCK status | 12 V |
| | | | | | LOCK or UNLOCK |  JMKIA0066GB |
| | | | | | For 15 seconds after UN- LOCK | 12 V |
| | | | | | 15 seconds or later after UNLOCK | 0 V |
| 112 (GR) | Ground | Rain sensor serial link | Input/ Output | Ignition switch ON |  JPMIA0156GB 8.7 V | |
| 113 (P) | Ground | Optical sensor | Input | Ignition switch ON | When bright outside of the vehicle | Close to 5 V |
| | | | | | When dark outside of the vehicle | Close to 0 V |
| 116 (BR) | Ground | Stop lamp switch 1 | Input | — | | Battery voltage |
| 118 (P) | Ground | Stop lamp switch 2 (Without ICC) | Input | Stop lamp switch | OFF (Brake pedal is not depressed) | 0 V |
| | | | | ON (Brake pedal is de- pressed) | Battery voltage | |
| | | Stop lamp switch 2 (With ICC) | | Stop lamp switch OFF (Brake pedal is not de- pressed) and ICC brake hold relay OFF | | 0 V |
| | | | | Stop lamp switch ON (Brake pedal is de- pressed) or ICC brake hold relay ON | | Battery voltage |
| 119 (SB) | Ground | Front door lock as- sembly driver side (Unlock sensor) | Input | Driver door | LOCK status (Unlock sensor switch OFF) |  JPMIA0594GB 8.5 - 9.0 V |
| | | | | | UNLOCK status (Unlock switch sensor ON) | 0 V |
| 121 (BR) | Ground | Key slot switch | Input | When the Intelligent Key is inserted into key slot | | 12 V |
| | | | | When the Intelligent Key is not inserted into key slot | | 0 V |
| 122 (V) | Ground | ACC feedback | Input | Ignition switch | OFF | 0 V |
| | | | | | ACC or ON | Battery voltage |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|-----------------------------------|------------------|--|--------------------------|--|
| + | - | Signal name | Input/ Output | | | |
| 123 (W) | Ground | IGN feedback | Input | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | Battery voltage |
| 124 (LG) | Ground | Passenger door switch | Input | Passenger door switch | OFF (Door close) |  8.5 - 9.0 V |
| | | | | | ON (Door opene) | 0 V |
| 132 (O) | Ground | Power window switch communication | Input/ Output | Ignition switch ON | |  10.2 V |
| | | | | Ignition switch OFF or ACC | | 12 V |
| 134 (GR) | Ground | LOCK indicator lamp | Output | LOCK indicator lamp | OFF | Battery voltage |
| | | | | | ON | 0 V |
| 137 (B) | Ground | Receiver and sensor ground | Input | Ignition switch ON | | 0 V |
| 138 (Y) | Ground | Sensor power supply | Output | Ignition switch | OFF | 0 V |
| | | | | | ACC or ON | 5.0 V |
| 140 (R) | Ground | Selector lever P/N position | Input | Selector lever | P or N position | 12 V |
| | | | | | Except P and N positions | 0 V |
| 141 (G) | Ground | Security indicator | Output | Security indicator | ON | 0 V |
| | | | | | Blinking |  11.3 V |
| | | | | | OFF | 12 V |
| 142 (O) | Ground | Combination switch OUTPUT 5 | Output | Combination switch (Wiper intermittent dial 4) | All switches OFF | 0 V |
| | | | | | Lighting switch 1ST |  10.7 V |
| | | | | | Lighting switch HI | |
| | | | | | Lighting switch 2ND | |
| | | | | | Turn signal switch RH | |

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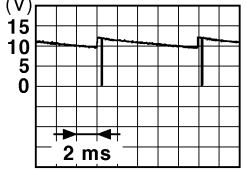
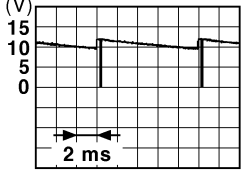
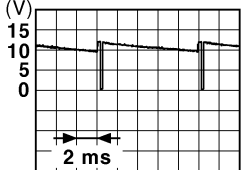
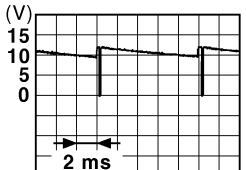
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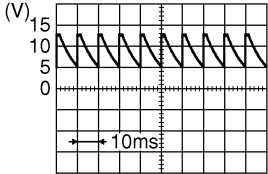
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--------------------------------|------------------|--|---|
| + | - | Signal name | Input/ Output | | |
| 143 (P) | Ground | Combination switch OUTPUT 1 | Output | Combination switch | 0 V |
| | | | | All switches OFF (Wiper intermittent dial 4) | |
| | | | | Front wiper switch HI (Wiper intermittent dial 4) | |
| | | | | Rear wiper switch INT (Wiper intermittent dial 4) | |
| | | | | Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 |  10.7 V |
| 144 (G) | Ground | Combination switch OUTPUT 2 | Output | Combination switch | 0 V |
| | | | | All switches OFF (Wiper intermittent dial 4) | |
| | | | | Front washer switch ON (Wiper intermittent dial 4) | |
| | | | | Rear wiper switch ON (Wiper intermittent dial 4) | |
| | | | | Rear washer switch ON (Wiper intermittent dial 4) | |
| | | | | Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 |  10.7 V |
| 145 (L) | Ground | Combination switch OUTPUT 3 | Output | Combination switch (Wiper intermittent dial 4) | 0 V |
| | | | | All switches OFF | |
| | | | | Front wiper switch INT | |
| | | | | Front wiper switch LO | |
| | | | | Lighting switch AUTO | |
| | | | | |  10.7 V |
| 146 (SB) | Ground | Combination switch OUTPUT 4 | Output | Combination switch (Wiper intermittent dial 4) | 0 V |
| | | | | All switches OFF | |
| | | | | Front fog lamp switch ON | |
| | | | | Lighting switch 2ND | |
| | | | | Lighting switch PASS | |
| | | | | Turn signal switch LH | |
| | | | | |  10.7 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|---------------------------|------------------|--|
| + | - | Signal name | Input/ Output | | | |
| 150 (GR) | Ground | Driver door switch | Input | Driver door switch | OFF (Door close) |  8.5 - 9.0 V |
| | | | | | ON (Door open) | 0 V |
| 151 (G) | Ground | Rear window defog- ger relay control | Output | Rear window de- fogger | Active | 0 V |
| | | | | | Not activated | Battery voltage |

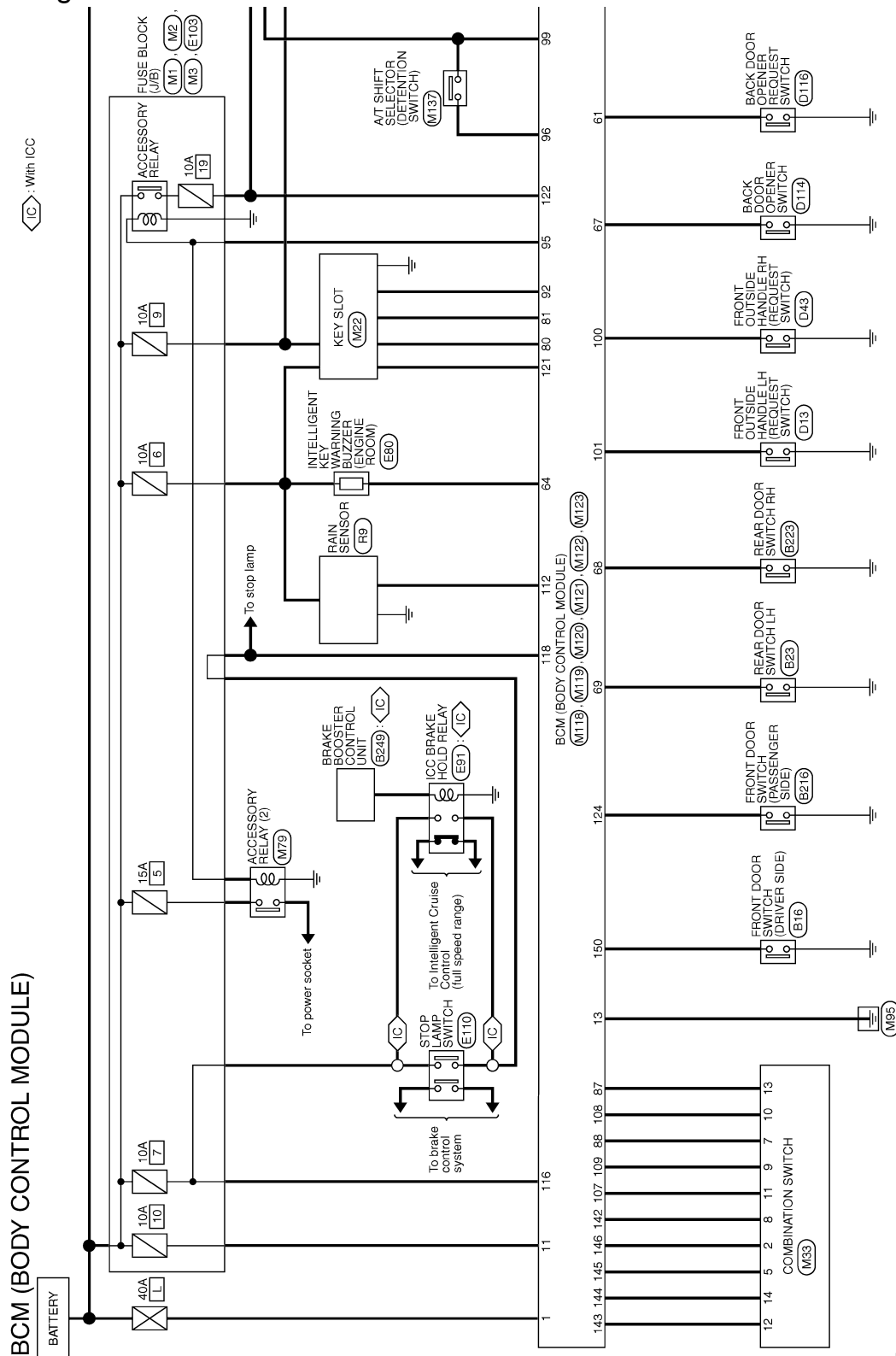
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< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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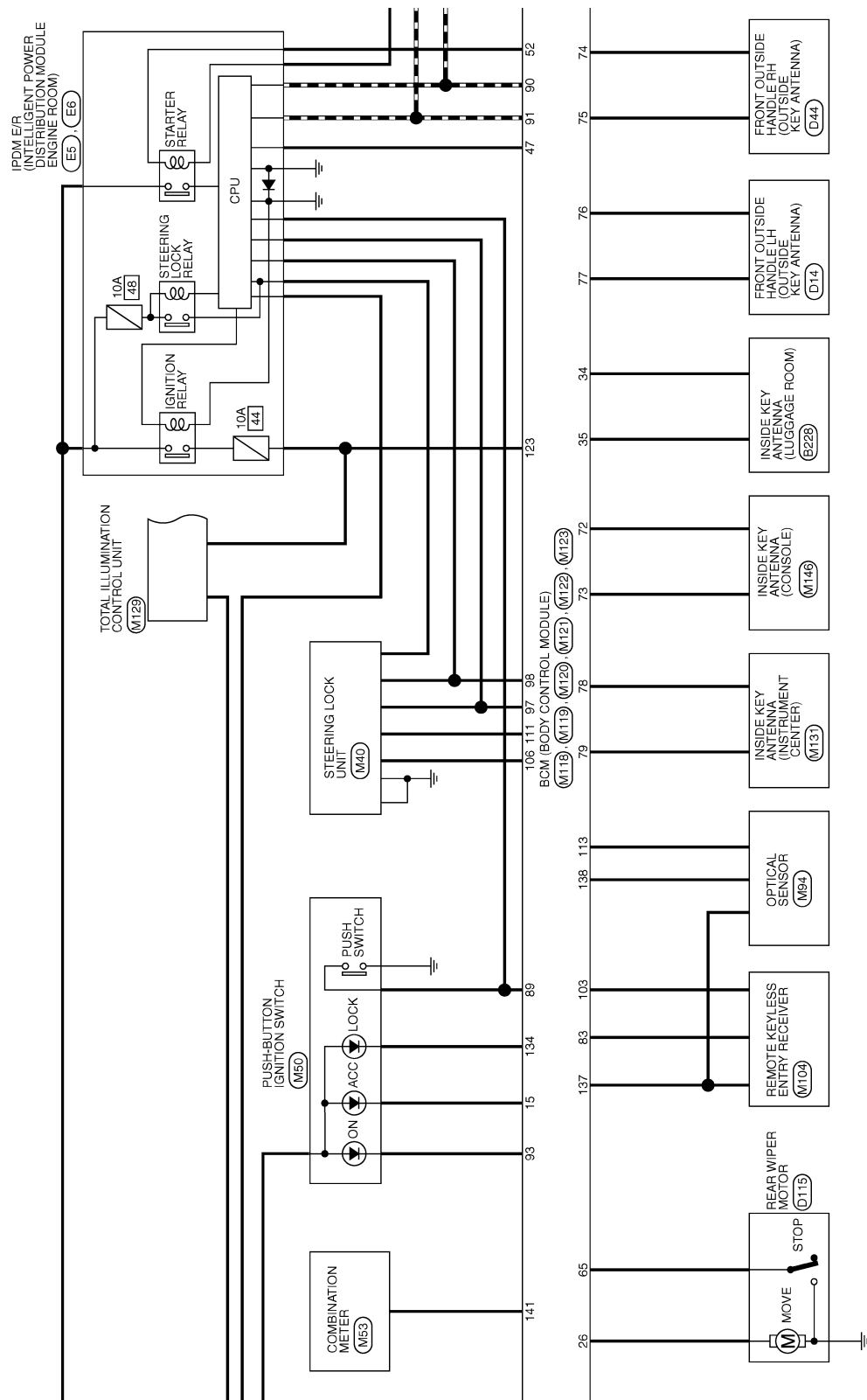


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



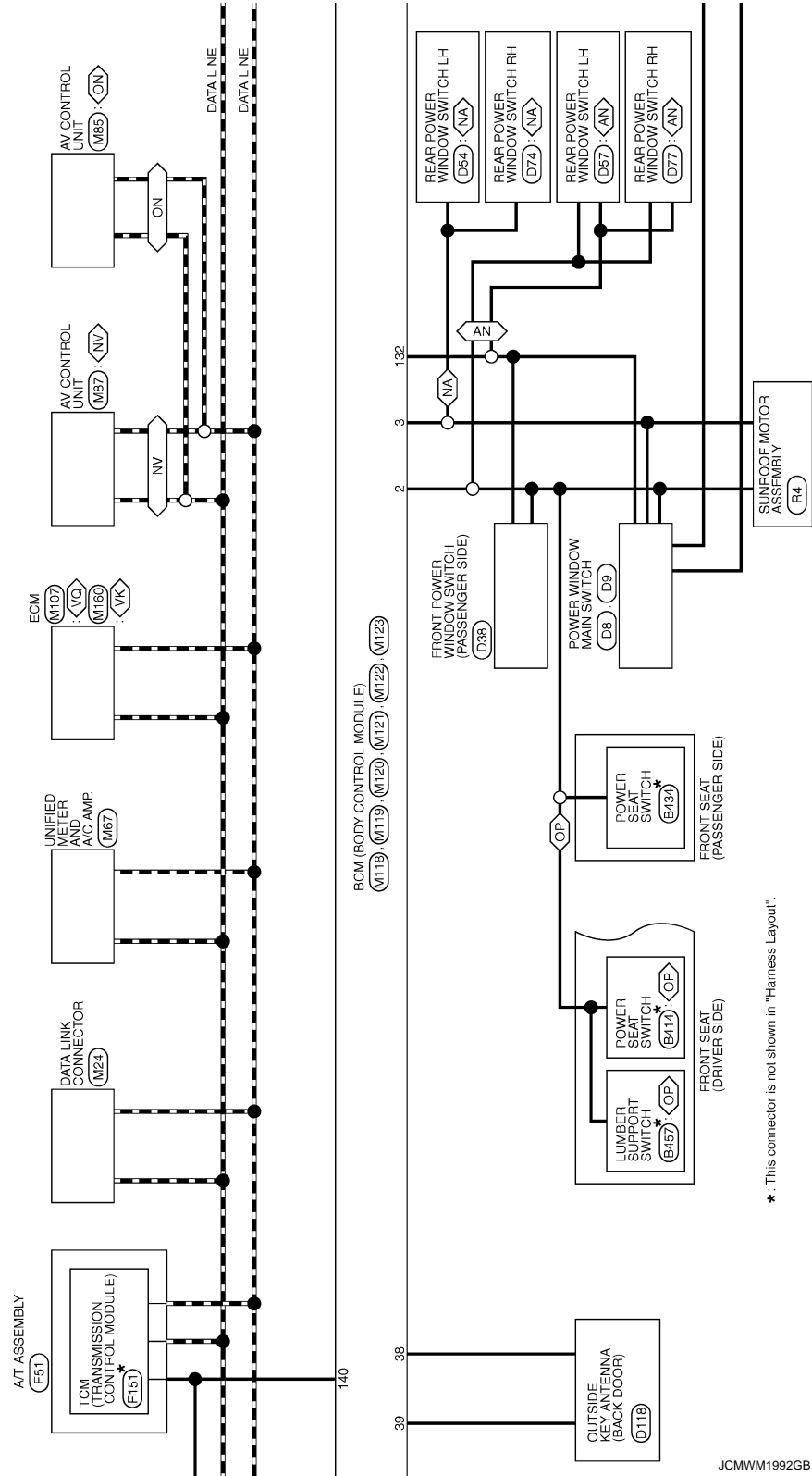
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

<VQ> : With VQ engine
 <VK> : With VK engine
 <NV> : With NAVI
 <ON> : Without NAVI
 <OP> : Without automatic drive positioner
 <AN> : With rear anti-pinch system
 <NA> : Without rear anti-pinch system



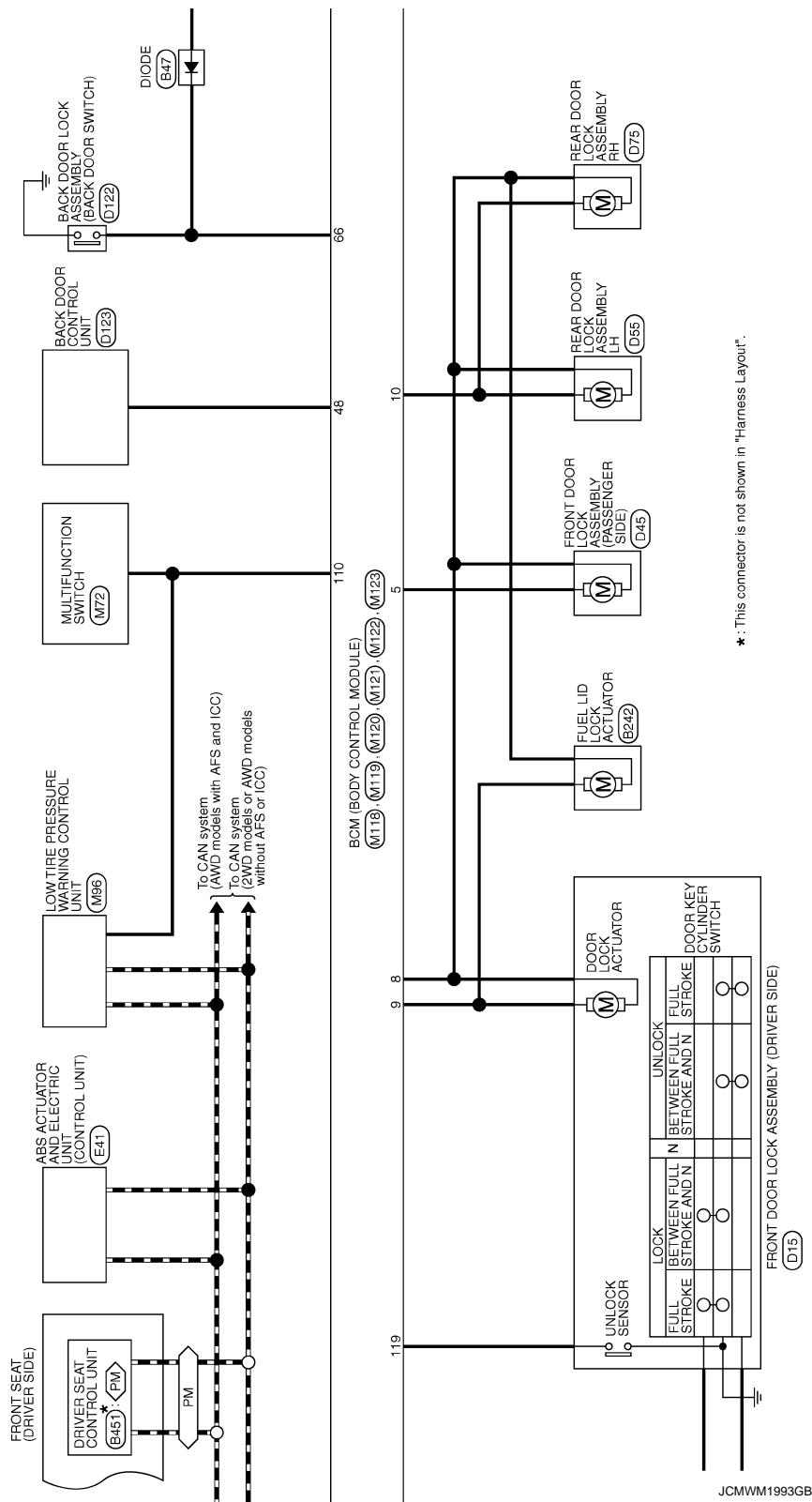
*: This connector is not shown in "Harness Layout".

JCMWM1992GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

FX: With automatic drive positioner



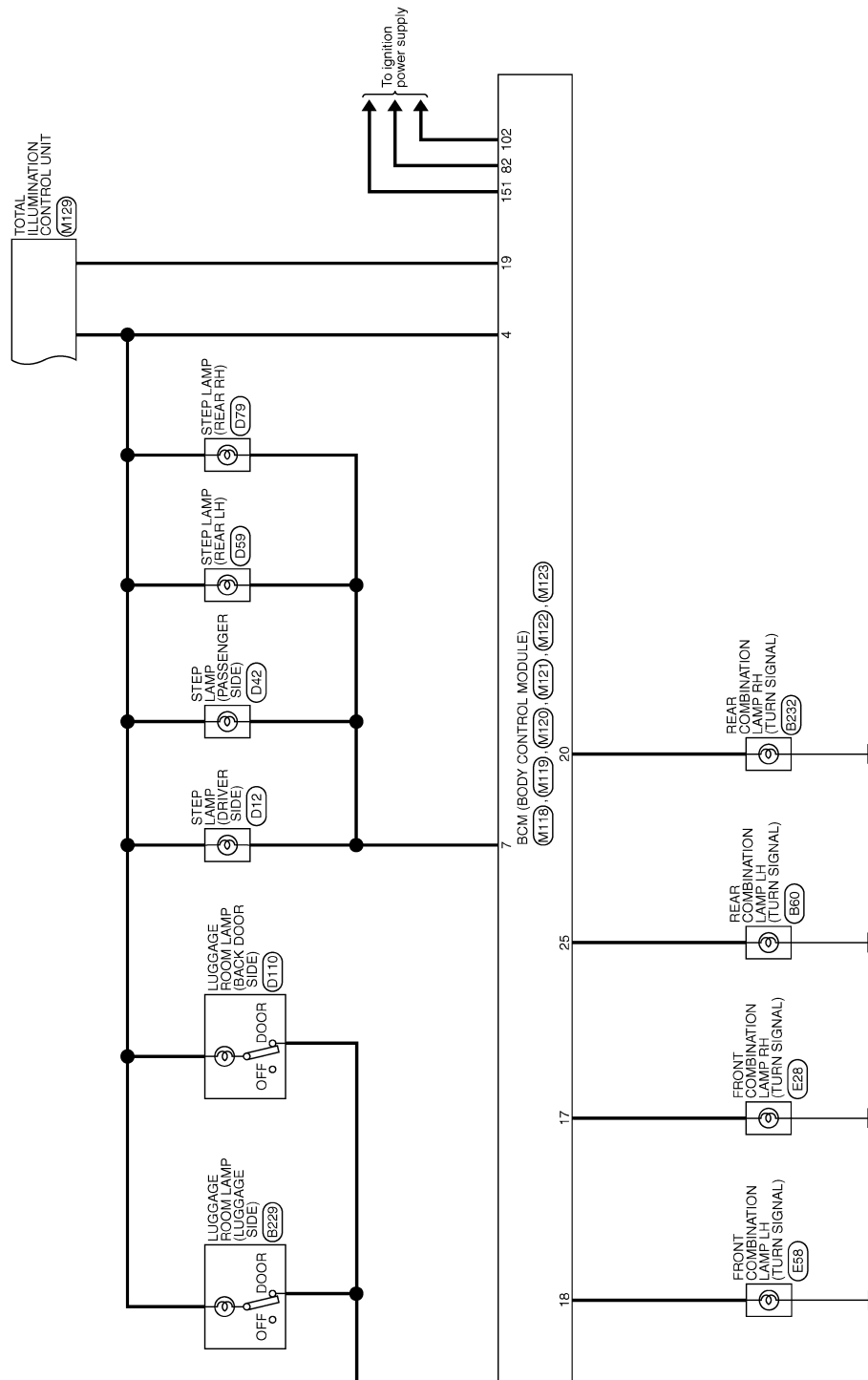
★: This connector is not shown in "Harness Layout".

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



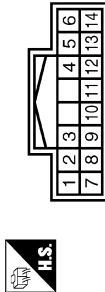
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
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| Connector No. | M33 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | SB | OUTPUT 4 |
| 5 | L | OUTPUT 3 |
| 7 | V | INPUT 3 |
| 8 | O | OUTPUT 5 |
| 9 | Y | INPUT 2 |
| 10 | R | INPUT 4 |
| 11 | LG | INPUT 1 |
| 12 | P | OUTPUT 1 |
| 13 | BR | INPUT 5 |
| 14 | G | OUTPUT 2 |

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| Connector No. | M120 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS12FW-CS |



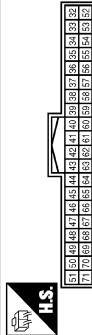
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 20 | V | TURN SIGNAL RH (REAR) |
| 25 | G | TURN SIGNAL LH (REAR) |
| 26 | G | REAR WIPER OUTPUT |

| | |
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| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | M33FB-LC |



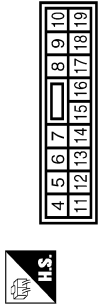
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 1 | W | BAT (F/L) |
| 2 | Y | POWER WINDOW POWER SUPPLY(BAT) |
| 3 | O | POWER WINDOW POWER SUPPLY(RAP) |

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| Connector No. | M121 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FGY-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------|
| 34 | SB | LUGGAGE ROOM ANT- |
| 35 | V | LUGGAGE ROOM ANT+ |
| 38 | B | BACK DOOR ANT- |
| 39 | W | BACK DOOR ANT+ |
| 47 | Y | IGN RELAY (PDM E/R) CONT |
| 48 | W | BK DOOR OPENER SW OPERATION |
| 52 | LG | STARTER RELAY CONT |
| 61 | W | BACK DOOR OPENER REQUEST SW |
| 64 | L | I-KEY WARN BUZZER (ENG ROOM) |
| 65 | O | REAR WIPER STOP POSITION |
| 66 | LG | BACK DOOR SW |

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| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS18FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|------------------------------------|
| 4 | P | INT ROOM LAMP PWR SUPPLY(BAT SAVE) |
| 5 | V | PASSENGER DOOR UNLOCK OUTPUT |
| 7 | Y | STEP LAMP OUTPUT |
| 8 | V | ALL DOOR FUEL LID LOCK OUTPUT |
| 9 | G | DRIVER DOOR FUEL LID UNLOCK OUTPUT |
| 10 | BR | REAR DOOR UNLOCK OUTPUT |
| 11 | R | BAT (FUSE) |
| 13 | B | GND |
| 15 | Y | ACC IND |
| 17 | W | TURN SIGNAL RH (FRONT) |
| 18 | O | TURN SIGNAL LH (FRONT) |

| | | |
|----|----|---------------------|
| 67 | P | BACK DOOR OPENER SW |
| 68 | BR | REAR RH DOOR SW |
| 69 | R | REAR LH DOOR SW |



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| 19 | SB | ROOM LAMP TIMER |
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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| BCM (BODY CONTROL MODULE) | | | BCM (BODY CONTROL MODULE) | | |
| Connector No. | M122 | | Connector No. | M123 | |
| Connector Name | BCM (BODY CONTROL MODULE) | | Connector Name | BCM (BODY CONTROL MODULE) | |
| Connector Type | TH05B-NH | | Connector Type | TH05G-NH | |
|  | | |  | | |
| Terminal No. | Color of Wire | Signal Name [Specification] | Terminal No. | Color of Wire | Signal Name [Specification] |
| 72 | R | ROOM ANT2- | 112 | GR | RAIN SENSOR SERIAL LINK |
| 73 | G | ROOM ANT2+ | 113 | P | OPTICAL SENSOR |
| 74 | SB | PASSENGER DOOR ANT- | 116 | BR | STOP LAMP SW 1 |
| 75 | BR | PASSENGER DOOR ANT+ | 118 | P | STOP LAMP SW 2 |
| 76 | V | DRIVER DOOR ANT- | 119 | SB | DR DOOR UNLOCK SENSOR |
| 77 | LG | DRIVER DOOR ANT+ | 121 | BR | KEY SLOT SW |
| 78 | Y | ROOM ANT1- | 122 | V | ACC F/B |
| 79 | BR | ROOM ANT1+ | 123 | W | IGN F/B |
| 80 | GR | IMMOBI ANTENNA CONTROL | 124 | LG | PASSENGER DOOR SW |
| 81 | W | IMMOBI ANTENNA SIGNAL | 132 | O | POWER WINDOW SW COMM |
| 82 | P | IGN RELAY (F/B) CONT | 134 | GR | LOCK IND |

| | | |
|-----|----|-------------------------------------|
| 83 | GR | KEYLESS ENTRY RECEIVER SIGNAL |
| 87 | BR | COMBI SW INPUT 5 |
| 88 | V | COMBI SW INPUT 3 |
| 89 | SB | PUSH SW |
| 90 | P | CAN-L |
| 91 | L | CAN-H |
| 92 | LG | KEY SLOT ILL |
| 93 | V | ON IND |
| 95 | O | ACC RELAY CONT |
| 96 | GR | A/T SHIFT SELECTOR POWER SUPPLY |
| 97 | L | S/L CONDITION 1 |
| 98 | P | S/L CONDITION 2 |
| 99 | R | SHIFT P |
| 100 | G | PASSENGER DOOR REQUEST SW |
| 101 | SB | DRIVER DOOR REQUEST SW |
| 102 | O | BLOWER FAN MOTOR RELAY CONT |
| 103 | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| 106 | W | S/L UNIT POWER SUPPLY |
| 107 | LG | COMBI SW INPUT 1 |
| 108 | R | COMBI SW INPUT 4 |
| 109 | Y | COMBI SW INPUT 2 |
| 110 | G | HAZARD SW |
| 111 | GR | S/L UNIT COMM |

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|-----|----|---------------------------------|
| 137 | B | RECEIVER/SENSOR GND |
| 138 | Y | SENSOR POWER SUPPLY |
| 140 | R | SHIFT N/P |
| 141 | G | SECURITY INDICATOR OUTPUT |
| 142 | O | COMBI SW OUTPUT 5 |
| 143 | P | COMBI SW OUTPUT 1 |
| 144 | G | COMBI SW OUTPUT 2 |
| 145 | L | COMBI SW OUTPUT 3 |
| 146 | SB | COMBI SW OUTPUT 4 |
| 150 | GR | DRIVER DOOR SW |
| 151 | G | REAR WINDOW DEFOGGER RELAY CONT |

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

JCMWWM1996GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|---|
| B2013: ID DISCORD BCM-S/L | Inhibit engine cranking | Erase DTC |
| B2014: CHAIN OF S/L-BCM | Inhibit engine cranking | Erase DTC |
| B2190: NATS ANTENNA AMP | Inhibit engine cranking | Erase DTC |
| B2191: DIFFERENCE OF KEY | Inhibit engine cranking | Erase DTC |
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI SCANNING | Inhibit engine cranking | Ignition switch ON → OFF |
| B2557: VEHICLE SPEED | Inhibit steering lock | When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms |
| B2560: STARTER CONT RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal |
| B2601: SHIFT POSITION | Inhibit steering lock | 500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Selector lever P position switch signal • P range signal (CAN) |
| B2602: SHIFT POSITION | Inhibit steering lock | 5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Vehicle speed: 4 km/h (2.5 MPH) or more |
| B2603: SHIFT POSI STATUS | Inhibit steering lock | 500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V) |
| B2604: PNP SW | Inhibit steering lock | 500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF |
| B2605: PNP SW | Inhibit steering lock | 500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON |
| B2606: S/L RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal) |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|--|--|
| B2607: S/L RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal) |
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> Starter motor relay control signal Starter relay status signal (CAN) |
| B2609: S/L STATUS | <ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock | When the following steering lock conditions agree <ul style="list-style-type: none"> BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status |
| B260A: IGNITION RELAY | Inhibit engine cranking | 500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) |
| B260F: ENG STATE SIG LOST | Maintains the power supply position attained at the time of DTC detection | When any of the following conditions are fulfilled <ul style="list-style-type: none"> Power position changes to ACC Receives engine status signal (CAN) |
| B2612: S/L STATUS | <ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock | When any of the following conditions are fulfilled <ul style="list-style-type: none"> Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R) |
| B2617: STARTER RELAY CIRC | Inhibit engine cranking | 1 second after the starter motor relay control inside BCM becomes normal |
| B2618: BCM | Inhibit engine cranking | 1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal |
| B2619: BCM | Inhibit engine cranking | 1 second after the steering lock unit power supply output control inside BCM becomes normal |
| B261E: VEHICLE TYPE | Inhibit engine cranking | BCM initialization |
| B26E9: S/L STATUS | <ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock | When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled <ul style="list-style-type: none"> Steering condition No. 1 signal: LOCK (0 V) Steering condition No. 2 signal: LOCK (Battery voltage) |

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF ⇒ ON and front wiper switch is INT position, BCM operates a fail-safe control.

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 for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

- More than 1 minute is passed after the rear wiper stops.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:000000003930812

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

| Priority | DTC |
|----------|---|
| 1 | B2562: LOW VOLTAGE |
| 2 | <ul style="list-style-type: none"> U1000: CAN COMM U1010: CONTROL UNIT (CAN) |
| 3 | <ul style="list-style-type: none"> B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING |
| 4 | <ul style="list-style-type: none"> B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS B260A: IGNITION RELAY B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT B260F: ENG STATE SIG LOST B2612: S/L STATUS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E9: S/L STATUS B26EA: KEY REGISTRATION U0415: VEHICLE SPEED SIG |
| 5 | <ul style="list-style-type: none"> B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA |
| 6 | B26E7: TPMS CAN COMM |

DTC Index

INFOID:000000003930813

NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [BCS-16, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warn- ing lamp ON | Reference page |
|--|-----------|--|--------------------------------------|------------------------|
| No DTC is detected. Further testing may be required. | — | — | — | — |
| U1000: CAN COMM | — | — | — | BCS-34 |
| U1010: CONTROL UNIT (CAN) | — | — | — | BCS-35 |
| U0415: VEHICLE SPEED SIG | — | — | — | BCS-36 |
| B2013: ID DISCORD BCM-S/L | × | × | — | SEC-50 |
| B2014: CHAIN OF S/L-BCM | × | × | — | SEC-51 |
| B2190: NATS ANTENNA AMP | × | — | — | SEC-42 |
| B2191: DIFFERENCE OF KEY | × | — | — | SEC-45 |
| B2192: ID DISCORD BCM-ECM | × | — | — | SEC-46 |
| B2193: CHAIN OF BCM-ECM | × | — | — | SEC-48 |
| B2195: ANTI SCANNING | × | — | — | SEC-49 |
| B2553: IGNITION RELAY | — | × | — | PCS-50 |
| B2555: STOP LAMP | — | × | — | SEC-54 |
| B2556: PUSH-BTN IGN SW | — | × | × | SEC-56 |
| B2557: VEHICLE SPEED | × | × | × | SEC-58 |
| B2560: STARTER CONT RELAY | × | × | × | SEC-59 |
| B2562: LOW VOLTAGE | — | × | — | BCS-37 |
| B2601: SHIFT POSITION | × | × | × | SEC-60 |
| B2602: SHIFT POSITION | × | × | × | SEC-63 |
| B2603: SHIFT POSI STATUS | × | × | × | SEC-65 |
| B2604: PNP SW | × | × | × | SEC-68 |
| B2605: PNP SW | × | × | × | SEC-70 |
| B2606: S/L RELAY | × | × | × | SEC-72 |
| B2607: S/L RELAY | × | × | × | SEC-73 |
| B2608: STARTER RELAY | × | × | × | SEC-75 |
| B2609: S/L STATUS | × | × | × | SEC-77 |
| B260A: IGNITION RELAY | × | × | × | PCS-52 |
| B260B: STEERING LOCK UNIT | — | × | × | SEC-81 |
| B260C: STEERING LOCK UNIT | — | × | × | SEC-82 |
| B260D: STEERING LOCK UNIT | — | × | × | SEC-83 |
| B260F: ENG STATE SIG LOST | × | × | × | SEC-84 |
| B2612: S/L STATUS | × | × | × | SEC-88 |
| B2614: ACC RELAY CIRC | — | × | × | PCS-54 |
| B2615: BLOWER RELAY CIRC | — | × | × | PCS-56 |
| B2616: IGN RELAY CIRC | — | × | × | PCS-58 |
| B2617: STARTER RELAY CIRC | × | × | × | SEC-92 |
| B2618: BCM | × | × | × | PCS-60 |
| B2619: BCM | × | × | × | SEC-94 |
| B261A: PUSH-BTN IGN SW | — | × | × | SEC-95 |
| B261E: VEHICLE TYPE | × | × | × (Turn ON for 15 seconds) | SEC-98 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warn- ing lamp ON | Reference page |
|-------------------------|-----------|--|--------------------------------------|------------------------|
| B2621: INSIDE ANTENNA | — | × | — | DLK-61 |
| B2622: INSIDE ANTENNA | — | × | — | DLK-63 |
| B2623: INSIDE ANTENNA | — | × | — | DLK-65 |
| B26E7: TPMS CAN COMM | — | — | — | BCS-38 |
| B26E9: S/L STATUS | × | × | × (Turn ON for 15 seconds) | SEC-86 |
| B26EA: KEY REGISTRATION | — | × | × (Turn ON for 15 seconds) | SEC-87 |

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DLK

BACK DOOR CONTROL UNIT

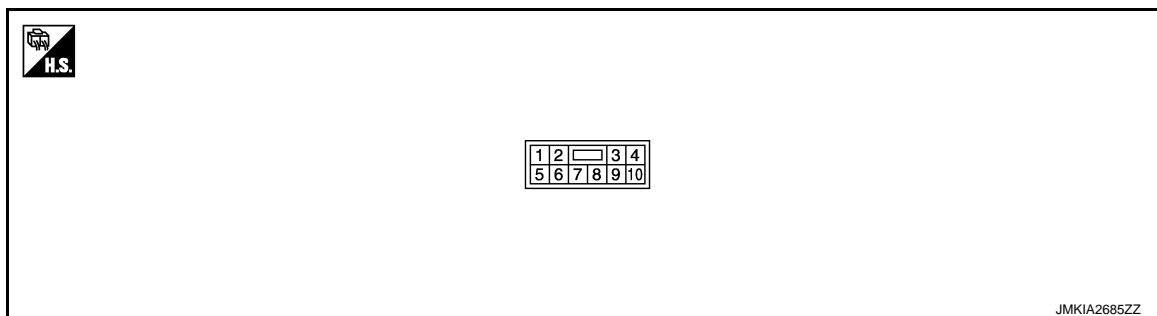
< ECU DIAGNOSIS INFORMATION >

BACK DOOR CONTROL UNIT

Reference Value

INFOID:000000003910928

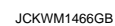
TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal No. (Wire color) | | Description | | Condition | Voltage (V) (Approx.) |
|------------------------------|--------|--|------------------|--|--|
| (+) | (-) | Signal name | Input/ Output | | |
| 1 (L) | Ground | Close switch signal | Input | Back door Fully open → half → fully close | Battery voltage → 0 → Battery voltage |
| 2 (O) | Ground | Half-latch switch | Input | Back door Fully open → half → fully close | 0 → Battery voltage |
| 3 (SB) | Ground | Battery power supply (Fusible link) | Input | Ignition switch OFF | Battery voltage |
| 4 (G) | Ground | Closure motor close signal | Output | Back door Fully open → half → fully close | 0 → Battery voltage → 0 |
| 5 (P) | Ground | Open switch | Input | Back door Fully open → half → fully close | Battery voltage → 0 → Battery voltage |
| 6 (W) | Ground | Back door opener switch signal | Input | Back door opener switch is pressed | 0 |
| | | | | Other than above | Battery voltage |
| 7 (B) | Ground | Ground | — | Ignition switch ON | 0 |
| 8 (GR) | Ground | Ground | — | Ignition switch ON | 0 |
| 10 (V) | Ground | Closure motor open signal | Output | Back door Fully open → half → fully close | 0 → Battery voltage → 0 |

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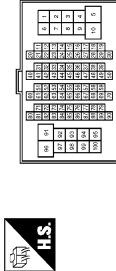


BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

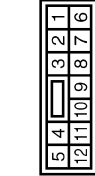
BACK DOOR AUTO CLOSURE SYSTEM

| | |
|----------------|-----------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 74 | V | - |
| 90 | W | - |

| | |
|----------------|--------------|
| Connector No. | B4 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS1ZFW-CS |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 8 | R | - |

| | |
|----------------|--------------|
| Connector No. | B27 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M06MW-LC |



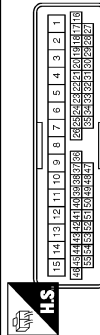
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 5 | R | - |
| 6 | GR | - |

| | |
|----------------|--------------|
| Connector No. | B28 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-NH |



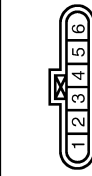
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 11 | W | - |
| 14 | V | - |

| | |
|----------------|--------------|
| Connector No. | D1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15 |



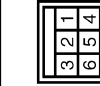
| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | B | - |
| 3 | G | - |

| | |
|----------------|--|
| Connector No. | D15 |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) |
| Connector Type | E06FGY-RS |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 3 | G | - |
| 4 | B | - |

| | |
|----------------|--------------|
| Connector No. | D101 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M06FW-LC |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 5 | SB | - |
| 6 | GR | - |

| | |
|----------------|--------------|
| Connector No. | D102 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 11 | W | - |
| 14 | SB | - |

BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

BACK DOOR AUTO CLOSURE SYSTEM

| | |
|----------------|-------------------------|
| Connector No. | D122 |
| Connector Name | BACK DOOR LOCK ASSEMBLY |
| Connector Type | NS08FW-CS |



| | | | | |
|---|---|---|---|---|
| 1 | 2 | 3 | | |
| 4 | 5 | 6 | 7 | 8 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | G | - |
| 4 | P | - |
| 5 | L | - |
| 6 | O | - |
| 7 | SB | - |
| 8 | B | - |

| | |
|----------------|------------------------|
| Connector No. | D123 |
| Connector Name | BACK DOOR CONTROL UNIT |
| Connector Type | NS10FW-CS |



| | | | | | |
|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | | |
| 5 | 6 | 7 | 8 | 9 | 10 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | CLOSE SW |
| 2 | O | HALF SW |
| 3 | SB | BATTERY |
| 4 | G | MTR CLOSE |
| 5 | P | OPEN SW |
| 6 | W | B'D OPEN |
| 7 | B | AS DOOR SW |
| 8 | GR | GND |
| 10 | V | MTR OPEN |

| | |
|----------------|--------------|
| Connector No. | E104 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12MW-CS |



| | | | | | | |
|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | | |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 8 | SB | - |

| | |
|----------------|-----------------|
| Connector No. | E106 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 96 | W | - |

| | |
|----------------|------------------|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2 |



| | | | | | |
|----|--|----|----|----|----|
| 3A | | 2A | 1A | | |
| 8A | | 7A | 6A | 5A | 4A |

| | |
|----------------|--------------|
| Connector No. | M5 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15 |



| | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

| | |
|----------------|-----------------|
| Connector No. | M6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



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

| | |
|----------------|-----------------|
| Connector No. | M7 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7A | R | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 3 | SB | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 96 | W | - |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 74 | LG | - |
| 90 | W | - |

JCKWM1468GB

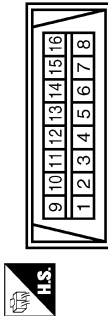
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BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

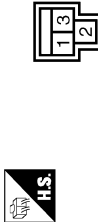
BACK DOOR AUTO CLOSURE SYSTEM

| | |
|----------------|---------------------|
| Connector No. | M24 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |



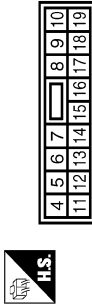
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6 | L | - |
| 14 | P | - |

| | |
|----------------|---------------------------|
| Connector No. | M118 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | M03FB-LC |



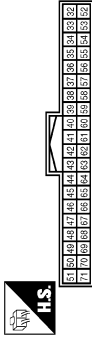
| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1 | W | BAT (F/L) |

| | |
|----------------|---------------------------|
| Connector No. | M119 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS16FW-CS |



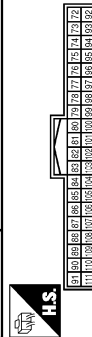
| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 11 | R | BAT (FUSE) |
| 13 | B | GND |

| | |
|----------------|---------------------------|
| Connector No. | M121 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |



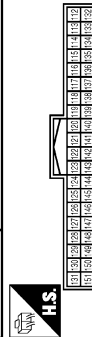
| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 48 | W | BK DOOR OPENER SW OPERATION |
| 66 | LG | BACK DOOR SW |

| | |
|----------------|---------------------------|
| Connector No. | M122 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 90 | P | CAN-L |
| 91 | L | CAN-H |

| | |
|----------------|---------------------------|
| Connector No. | M123 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |



| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 119 | SB | DR DOOR UNLOCK SENSOR |

JCKWM1469GB

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Diagnosis Procedure

INFOID:000000003843050

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-67. "BCM \(BODY CONTROL MODULE\) : Diagnosis Procedure"](#) (BCM).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-72. "DRIVER SIDE : Component Function Check"](#) (driver side).

Refer to [DLK-72. "PASSENGER SIDE : Component Function Check"](#) (passenger side).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to [DLK-74. "DRIVER SIDE : Component Function Check"](#).

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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000003843051

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to [DLK-74. "DRIVER 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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000003843052

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).

Refer to [DLK-75. "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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Diagnosis Procedure

INFOID:000000003843053

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear LH).

Refer to [DLK-76. "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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Diagnosis Procedure

INFOID:000000003843054

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear RH).

Refer to [DLK-76. "REAR RH : 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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

Diagnosis Procedure

INFOID:000000003843055

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-183, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to [DLK-81, "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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000003843056

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-8, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in the OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000003843057

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to [DLK-189, "Description"](#).

2.CHECK “LOCK/UNLOCK BY I-KEY” SETTING IN “WORK SUPPORT”

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

3.CHECK DOOR REQUEST SWITCH

Check door request switch (driver side).

Refer to [DLK-88, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver side).

Refer to [DLK-94, "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?

YES >> Check Intermittent Incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000003843058

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-8, "Work Flow"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in the OFF position.
- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000003843059

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to [DLK-189. "Description"](#).

2.CHECK “LOCK/UNLOCK BY I-KEY” SETTING IN “WORK SUPPORT”

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

Refer to [DLK-54. "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

3.CHECK DOOR REQUEST SWITCH

Check door request switch (passenger side).

Refer to [DLK-88. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger side).

Refer to [DLK-94. "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?

YES >> Check Intermittent Incident. Refer to [GI-35. "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR

BACK DOOR : Description

INFOID:000000003843060

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-8. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in the OFF position.
- No Intelligent Keys are inside the vehicle.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

BACK DOOR : Diagnosis Procedure

INFOID:000000003843061

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to [DLK-189, "Description"](#).

2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"

Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

3.CHECK BACK DOOR OPENER REQUEST SWITCH

Check back door opener request switch (back door).

Refer to [DLK-90, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (back door).

Refer to [DLK-94, "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?

YES >> Check Intermittent Incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:000000003843062

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent key is removed from key slot.
- All doors are closed.

Diagnosis Procedure

INFOID:000000003843063

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-183. "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-83. "Component Function Check"](#).

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-99. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK KEY SLOT

Check key slot.

Refer to [DLK-101. "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?

YES >> Check intermittent incident. Refer to [GI-35. "Intermittent Incident"](#).

NO >> GO TO 1.

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SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:000000003843064

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in the OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000003843065

1.CHECK DOOR LOCK FUNCTION

Check door lock function by door request switch.

Does door lock/unlock with door request switch?

YES >> GO TO 2.

- NO >> • Go to [DLK-186, "DRIVER SIDE : Description"](#) (driver side).
• Go to [DLK-186, "PASSENGER SIDE : Description"](#) (passenger side).
• Go to [DLK-187, "BACK DOOR : Description"](#) (back door).

2.CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:000000003843066

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-8, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent key is removed from key slot.
- All doors are closed.

Diagnosis Procedure

INFOID:000000003843067

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-183, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK “DOOR LOCK-UNLOCK SET” SETTING IN “WORK SUPPORT”

Check “DOOR LOCK-UNLOCK SET” setting in “WORK SUPPORT”.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set “DOOR LOCK-UNLOCK SET” of “WORK SUPPORT”.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000003843068

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Go to [DLK-183, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK VEHICLE SPEED SIGNAL

Check combination meter.

Refer to [SEC-58, "DTC Logic"](#).

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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000003843069

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Go to [DLK-183, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK BCM

Check DTC for BCM.

Refer to [DLK-175, "DTC Index"](#).

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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000003843070

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Go to [DLK-183, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK TCM

Check DTC for TCM.

Refer to [TM-353, "DTC Index"](#).

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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000003843071

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).

Diagnosis Procedure

INFOID:000000003843072

1.CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"

Check "AUTO LOCK SET" setting in "WORK SUPPORT".

Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTO LOCK SET" setting in "WORK SUPPORT".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

WELCOME LIGHT FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

WELCOME LIGHT FUNCTION DOES NOT OPERATE

Description

INFOID:000000003843076

NOTE:

- Before performing the diagnosis following procedure, check “Work Flow”. Refer to [DLK-8, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Intelligent Key system (door lock function) is normal.
- All operation conditions are satisfied. Refer to [DLK-33, "WELCOME LIGHT FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000003843077

1.CHECK WELCOME LIGHT FUNCTION SETTING

Check “WELCOME LIGHT OP SET” and “WELCOME LIGHT SELECT” setting in “WORK SUPPORT”. Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the function active?

YES >> GO TO 2.

NO >> Set “WELCOME LIGHT OP SET” and “WELCOME LIGHT SELECT” setting in “WORK SUPPORT”.

2.CHECK DOOR LOCK FUNCTION

Check Intelligent Key system (door lock function).

Does the door lock/unlock using door request switch (driver side)?

YES >> GO TO 3.

NO >> Go to [DLK-186, "DRIVER SIDE : Description"](#).

3.CHECK INTERIOR ROOM LAMP CONTROL SYSTEM

Check interior room lamp control system. Refer to [INL-6, "System Description"](#).

Does the room lamp and puddle lamp turn ON?

YES >> GO TO 4.

NO >> Go to [INL-166, "Symptom Table"](#).

4.REPLACE BCM

Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

>> GO TO 5.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> INSPECTION END

NO >> GO TO 1.

PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

PANIC ALARM FUNCTION DOES NOT OPERATE

Description

INFOID:000000003843078

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Ignition switch is in the OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:000000003843079

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to [DLK-189, "Description"](#).

2.CHECK VEHICLE SECURITY ALARM OPERATION

Check vehicle security alarm operation.

Does alarm (headlamp and horn) activate?

YES >> GO TO 3.

NO >> Go to [DLK-189, "Description"](#).

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

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

Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

HAZARD AND HORN REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD AND HORN REMINDER DOES NOT OPERATE

Description

INFOID:000000003843080

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Ignition switch is in the OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:000000003843081

1.CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

Refer to [DLK-54. "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

2.CHECK "HORN WITH KEYLESS LOCK" SETTING IN "WORK SUPPORT".

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

Refer to [DLK-54. "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "HORN WITH KEYLESS LOCK" setting in "WORK SUPPORT".

3.CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to [DLK-110. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK HORN

Check horn.

Refer to [DLK-105. "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?

YES >> Check intermittent incident. Refer to [GI-35. "Intermittent Incident"](#).

NO >> GO TO 1.

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Description

INFOID:000000003843082

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in the OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000003843083

1.CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "HAZARD ANSWER BACK" in "WORK SUPPORT".

2.CHECK "ANS BACK I-KEY LOCK" SETTING IN "WORK SUPPORT"

Check "ANS BACK I-KEY LOCK" setting in "WORK SUPPORT".

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "ANS BACK I-KEY LOCK" in "WORK SUPPORT".

3.CHECK "ANS BACK I-KEY UNLOCK" SETTING IN "WORK SUPPORT"

Check "ANS BACK I-KEY UNLOCK" setting in "WORK SUPPORT".

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT".

4.CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to [DLK-110. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-97. "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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

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KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:000000003843084

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-8, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-36, "KEY REMINDER FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000003843085

1.CHECK “ANTI KEY LOCK IN FUNCTI” SETTING IN “WORK SUPPORT”

Check “ANTI KEY LOCK IN FUNCTI” setting in “WORK SUPPORT”.

Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “ANTI KEY LOCK IN FUNCTI” setting in “WORK SUPPORT”.

2.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-69, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61, "DTC Logic"](#) (instrument center).

Refer to [DLK-63, "DTC Logic"](#) (console).

Refer to [DLK-65, "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-92, "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?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

KEY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY WARNING DOES NOT OPERATE

Description

INFOID:000000003843086

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000003843087

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-108. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR SWITCH

Check door switch (driver side).

Refer to [DLK-69. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK KEY SLOT

Check key slot.

Refer to [DLK-101. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-107. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-103. "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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

OFF POSITION WARNING DOES NOT OPERATE

Description

INFOID:000000003843088

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000003843089

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [DLK-175, "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-108, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-97, "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 (driver side).

Refer to [DLK-69, "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?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

P POSITION WARNING DOES NOT OPERATE

Description

INFOID:000000003843090

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000003843091

1.CHECK TRANSMISSION RANGE SWITCH

Check DTC for BCM.

Refer to [DLK-175. "DTC Index"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-97. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

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 (driver side).

Refer to [DLK-69. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61. "DTC Logic"](#) (instrument center).

Refer to [DLK-63. "DTC Logic"](#) (console).

Refer to [DLK-65. "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-107. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

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P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

7. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).
NO >> GO TO 1.

ACC WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ACC WARNING DOES NOT OPERATE

Description

INFOID:000000003843092

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000003843093

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [DLK-175. "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-108. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.

Refer to [DLK-107. "Component Function Check"](#).

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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

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TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

TAKE AWAY WARNING DOES NOT OPERATE

DOOR IS OPEN

DOOR IS OPEN : Description

INFOID:000000003843094

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

DOOR IS OPEN : Diagnosis Procedure

INFOID:000000003843095

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [DLK-175, "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-108, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-107, "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 (driver side).

Refer to [DLK-69, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-97, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61, "DTC Logic"](#) (instrument center).

Refer to [DLK-63, "DTC Logic"](#) (console).

Refer to [DLK-65, "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

7.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-103, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

ANY DOOR OPEN TO ALL DOORS CLOSED

ANY DOOR OPEN TO ALL DOORS CLOSED : Description

INFOID:000000003843096

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

ANY DOOR OPEN TO ALL DOORS CLOSED : Diagnosis Procedure

INFOID:000000003843097

1.CHECK DOOR SWITCH

Check door switch (driver side).

Refer to [DLK-69, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-107, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61, "DTC Logic"](#) (instrument center).

Refer to [DLK-63, "DTC Logic"](#) (console).

Refer to [DLK-65, "DTC Logic"](#) (luggage room).

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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH OPERATION

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH OPERATION : Description

INFOID:000000003843098

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

PUSH-BUTTON IGNITION SWITCH OPERATION : Diagnosis Procedure

INFOID:000000003843099

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [DLK-175, "DTC Index"](#).

2.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to [PCS-64, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

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 COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-107, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61, "DTC Logic"](#) (instrument center).

Refer to [DLK-63, "DTC Logic"](#) (console).

Refer to [DLK-65, "DTC Logic"](#) (luggage room).

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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Description

INFOID:000000003843102

NOTE:

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Diagnosis Procedure

INFOID:000000003843103

1.CHECK KEY SLOT

Check key slot.

Refer to [DLK-101. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-107. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61. "DTC Logic"](#) (instrument center).

Refer to [DLK-63. "DTC Logic"](#) (console).

Refer to [DLK-65. "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-103. "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?

YES >> Check intermittent incident. Refer to [GI-35. "Intermittent Incident"](#).

NO >> GO TO 1.

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INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:000000003843104

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000003843105

1.CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT"

Check "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT".

Refer to [DLK-54, "INTELLIGENT KEY : CONSULT-III Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT".

2.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-99, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-107, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61, "DTC Logic"](#) (instrument center).

Refer to [DLK-63, "DTC Logic"](#) (console).

Refer to [DLK-65, "DTC Logic"](#) (luggage room).

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?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:000000003843106

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39. "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000003843107

1.CHECK DOOR LOCK FUNCTION

Check door lock function by door request switch.

Does door lock/unlock with door request switch?

YES >> GO TO 2.

- NO >> • Go to [DLK-186. "DRIVER SIDE : Description"](#) (driver side).
• Go to [DLK-186. "PASSENGER SIDE : Description"](#) (passenger side).
• Go to [DLK-187. "BACK DOOR : Description"](#) (back door).

2.CHECK DOOR SWITCH

Check door switch (driver side).

Refer to [DLK-69. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-97. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-61. "DTC Logic"](#) (instrument center).

Refer to [DLK-63. "DTC Logic"](#) (console).

Refer to [DLK-65. "DTC Logic"](#) (luggage room).

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?

YES >> Check intermittent incident. Refer to [GI-35. "Intermittent Incident"](#).

NO >> GO TO 1.

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KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY ID WARNING DOES NOT OPERATE

Description

INFOID:000000003843108

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000003843109

1.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-99, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.

Refer to [DLK-107, "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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Description

INFOID:000000003843112

NOTE:

Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-8. "Work Flow"](#).

Diagnosis Procedure

INFOID:000000003843113

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.

Refer to [DLK-118. "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-35. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

BACK DOOR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

BACK DOOR DOES NOT OPERATE

OPEN/CLOSURE FUNCTION

OPEN/CLOSURE FUNCTION : Diagnosis Procedure

INFOID:000000003940369

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-67, "BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to [DLK-117, "Diagnosis Procedure"](#).

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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

OPEN FUNCTION

OPEN FUNCTION : Diagnosis Procedure

INFOID:000000003911592

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-86, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR OPENER SWITCH OPERATION SIGNAL CIRCUIT

Check back door opener switch operation signal circuit.

Refer to [DLK-79, "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-35, "Intermittent Incident"](#).

NO >> GO TO 1.

CLOSURE FUNCTION

CLOSURE FUNCTION : Diagnosis Procedure

INFOID:000000003940368

1.CHECK HALF LATCH SWITCH

Check half latch switch.

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

Is the inspection result normal?

BACK DOOR DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

A

2.CHECK OPEN SWITCH

Check open switch.

Refer to [DLK-111, "Diagnosis Procedure"](#).

B

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

C

3.CHECK CLOSE SWITCH

Check close switch.

Refer to [DLK-113, "Diagnosis Procedure"](#).

D

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

E

4.CHECK CLOSURE MOTOR

Check closure door motor.

Refer to [DLK-117, "Diagnosis Procedure"](#).

F

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

G

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-35, "Intermittent Incident"](#).
NO >> GO TO 1.

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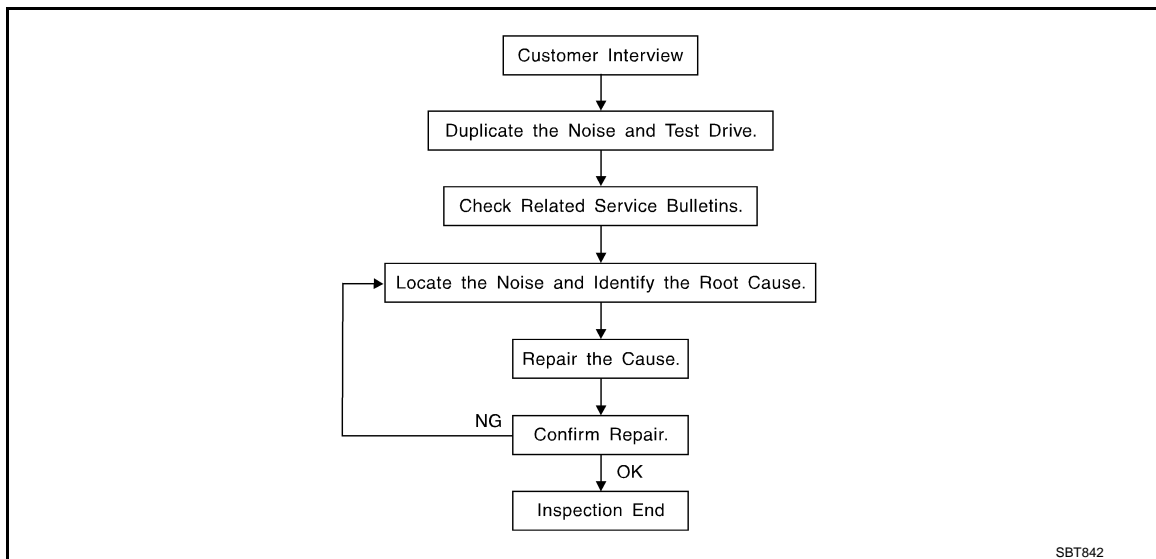
SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000004041322



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 [DLK-220, "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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T 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-218. "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.

NOTE:

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

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

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)

INSULATOR (Foam blocks)

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

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

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

68370-4B000: 15 × 25 mm (0.59 × 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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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:000000004041323

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
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

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

DOORS

Pay attention to the following:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. 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
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

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

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

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

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

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:000000004041324



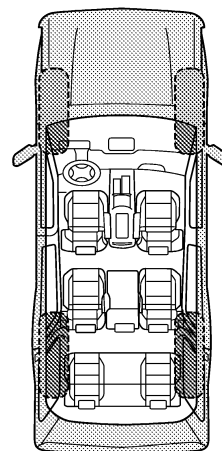
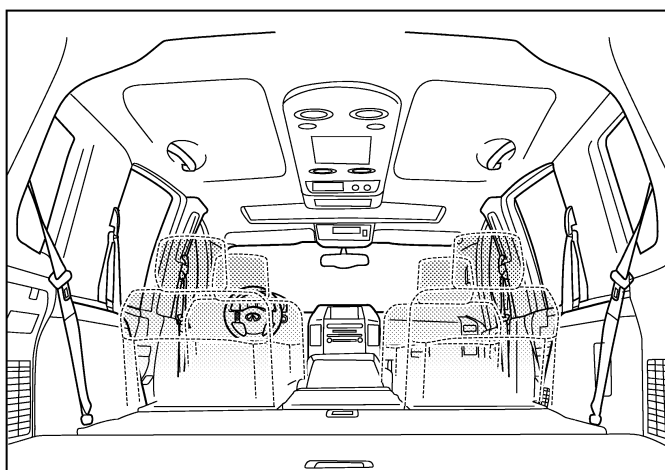
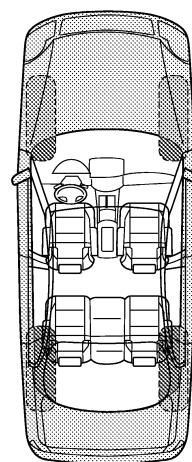
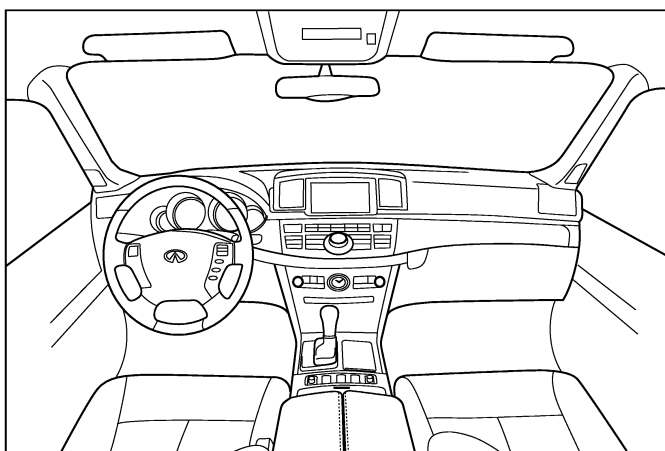
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti 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 consultant 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.

PIIB8741E

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003960591

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:

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

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000003960590

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, 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. Turn the push-button ignition switch to ACC position.
(At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

PRECAUTIONS

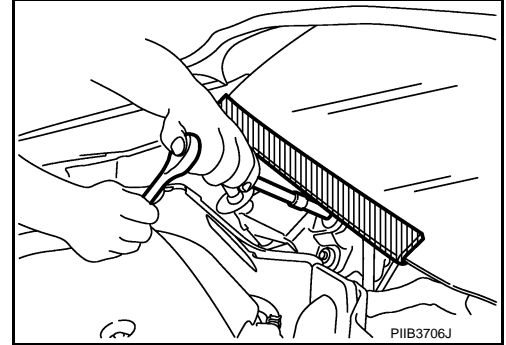
< PRECAUTION >

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Procedure without Cowl Top Cover

INFOID:000000004019333

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



INFOID:000000003843120

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.

DLK

PREPARATION

< PREPARATION >

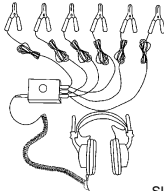
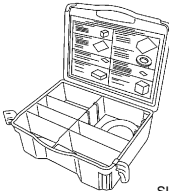
PREPARATION

PREPARATION

Special Service Tools

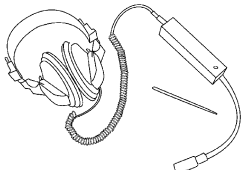
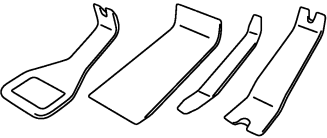

INFOID:000000003843121

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

| Tool number (Kent-Moore No.) Tool name | Description |
|--|----------------------------|
| <p>(J-39570) Chassis ear</p>  <p>SIIA0993E</p> | Locates the noise |
| <p>(J-43980) NISSAN Squeak and Rattle Kit</p>  <p>SIIA0994E</p> | Repairs the cause of noise |

Commercial Service Tools

INFOID:000000003843122

| Tool name | Description |
|--|---|
| <p>Engine ear</p>  <p>SIIA0995E</p> | Locates the noise |
| <p>Remover tool</p>  <p>PIIB7923J</p> | Removes the clips, pawls, and metal clips |
| <p>Power tool</p>  <p>PIIB1407E</p> | |

HOOD

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

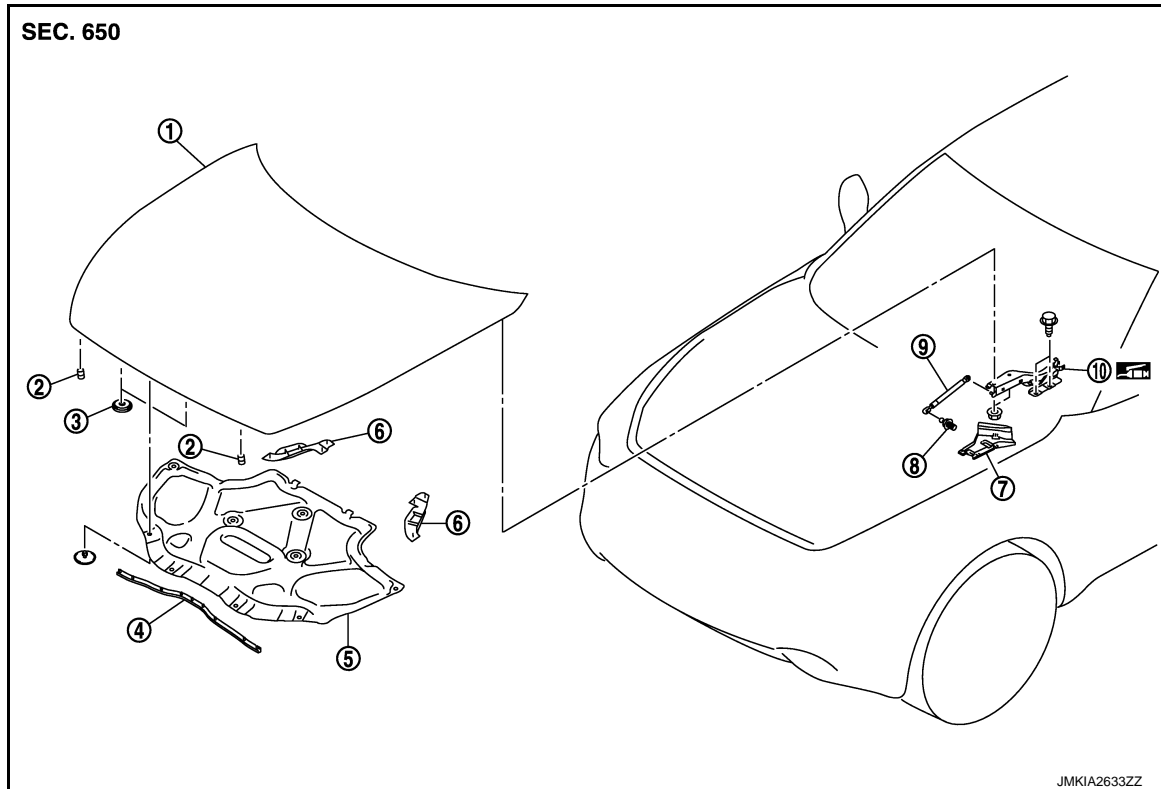
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000003843123

REMOVAL



- | | | |
|-----------------------|-----------------------|----------------|
| 1. Hood assembly | 2. Hood bumper rubber | 3. Seal |
| 4. Radiator core seal | 5. Hood insulator | 6. Inner cover |
| 7. Hood hinge cover | 8. Stud ball | 9. Hood stay |
| 10. Hood hinge | | |

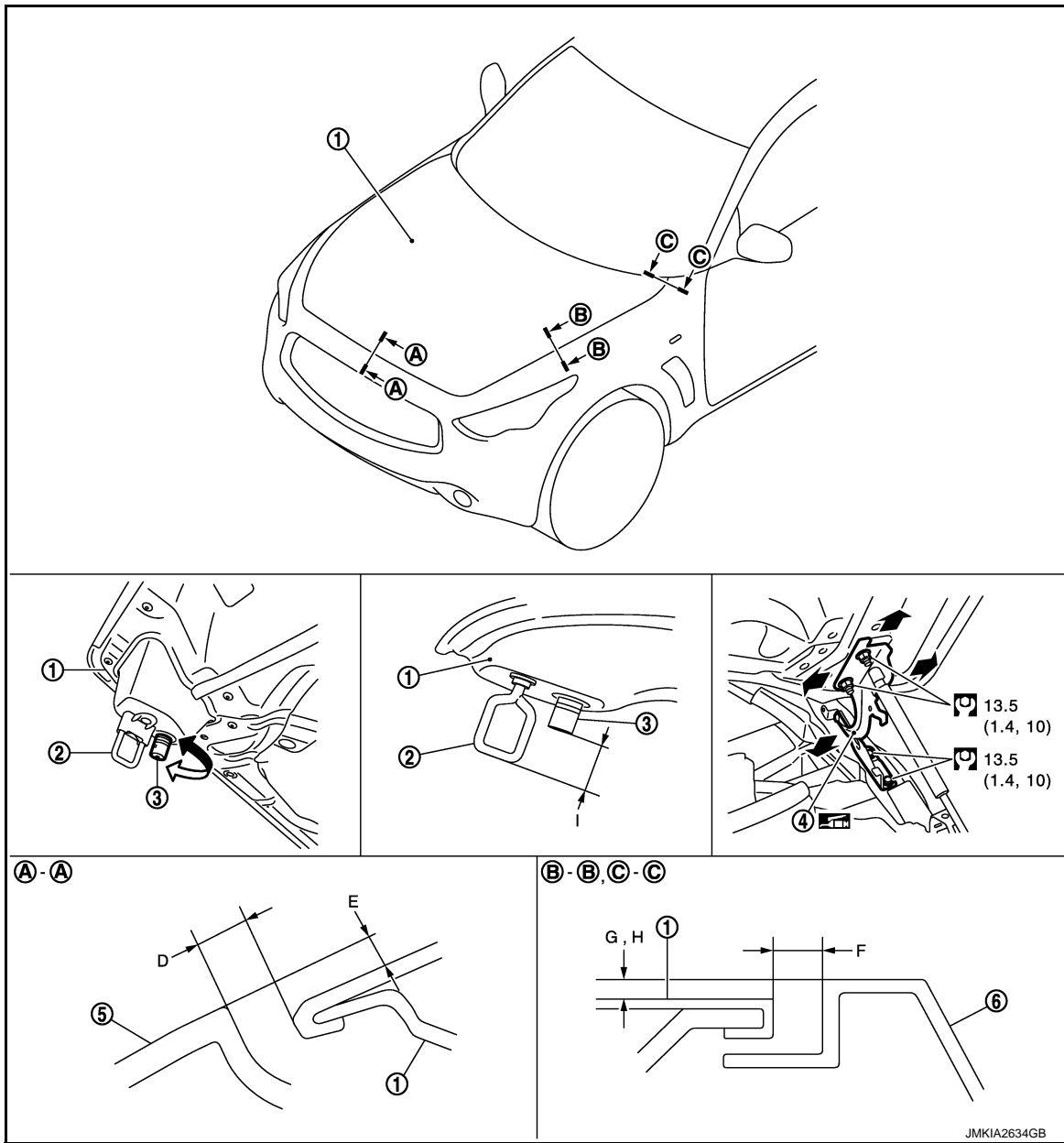
Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

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HOOD

< REMOVAL AND INSTALLATION >



- | | | |
|------------------|------------------------|-----------------------|
| 1. Hood assembly | 2. Hood striker | 3. Hood bumper rubber |
| 4. Hood hinge | 5. Front bumper fascia | 6. Front fender |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000003843124

CAUTION:

- Operate with two workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

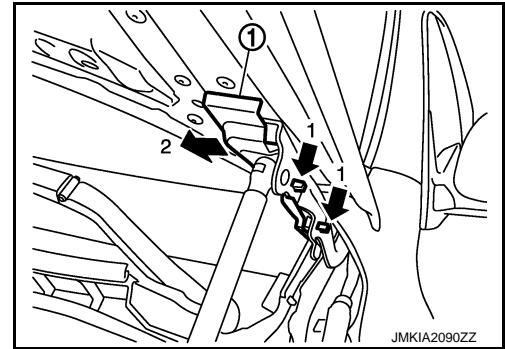
HOOD

< REMOVAL AND INSTALLATION >

1. Remove hood hinge cover (LH/RH) (1).

NOTE:

While pushing the pawls, pull hood hinge cover in the direction of the arrow.

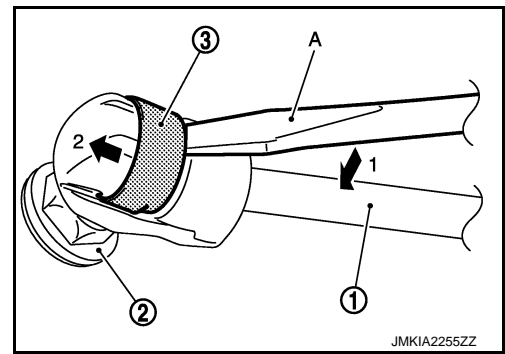


2. Remove washer nozzle and washer tube. Refer to [WW-111, "Inspection and Adjustment"](#).
3. Support hood assembly with a proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

4. Remove the metal clip (3) located on the connection between the hood stay (1) and the stud ball (2) (hood side), by using a flat-bladed screwdriver (A).
5. Disengage the stud ball from the hood stay (hood side).



6. Remove hood hinge mounting nuts on the hood to remove the hood assembly.
7. Remove the following parts after removing the hood assembly.
 - Radiator core seal
 - Hood insulator
 - Hood bumper rubber
 - Inner cover
 - Hood striker
 - Secondary latch

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check hood open/close, lock/unlock operation.
- After installation, adjust the following parts.
 - Hood: Refer to [DLK-227, "HOOD ASSEMBLY : Adjustment"](#).
 - Washer nozzle and washer tube: Refer to [WW-111, "Inspection and Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of hood hinge mounting bolts and nuts.

HOOD ASSEMBLY : Adjustment

INFOID:000000003843125

Check the clearance and the surface height between hood and each part by seeing and touching. Fitting standard dimension in the table below should be satisfied.

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

HOOD

< REMOVAL AND INSTALLATION >

Unit: mm (in)

| Portion | | | | Standard | Difference (LH/RH, MAX) |
|------------------------------|-------|---|-------------------|--------------------------------|----------------------------|
| Hood – Front bumper fascia | A – A | D | Clearance | 2.6 – 5.6 (0.102 – 0.220) | — |
| | | E | Surface height | –2.0 – 0.5 (–0.079 – 0.020) | — |
| Hood – Front fender | B – B | F | Clearance | 2.5 – 4.5 (0.098 – 0.177) | 2.0 (0.079) |
| | | G | Surface height | –.0 – 0.0 (–0.118 – 0.000) | — |
| | C – C | H | Surface height | –1.0 – 1.0 (–0.039 – 0.039) | — |
| Hood striker – Bumper rubber | — | I | Height difference | 32.3 – 33.3 (1.272 – 1.311) | — |

1. Remove striker and adjust the surface height of hood, front bumper fascia and front fender according to the fitting standard dimension, by rotating hood bumper rubber.
2. Adjust the height difference of striker, hood bumper rubber according to the fitting standard dimension.
3. Loosen hood hinge mounting nuts on the hood.
4. Adjust the clearance of hood, front bumper fascia and front fender according to the fitting standard dimension, for the hood.
5. Check that hood lock primary latch is securely engaged with striker by dropping hood from approximately 200 mm (7.874 in) height or pressing lightly on the hood.

CAUTION:

Never drop hood from a height of 300 mm (11.811 in) or more.

6. Install as static closing force of hood is 94 – 490 N (9.6 – 50.0 kg, 21.1 – 110 lb).

NOTE:

- Exercise vertical force on right side and left side of hood lock.
- Do not simultaneously press both sides.

7. After adjustment, tighten hood hinge mounting nuts to the specified torque.

CAUTION:

- Before installing hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, apply touch-up paint (the body color) onto the head of hood hinge mounting bolts and nuts.

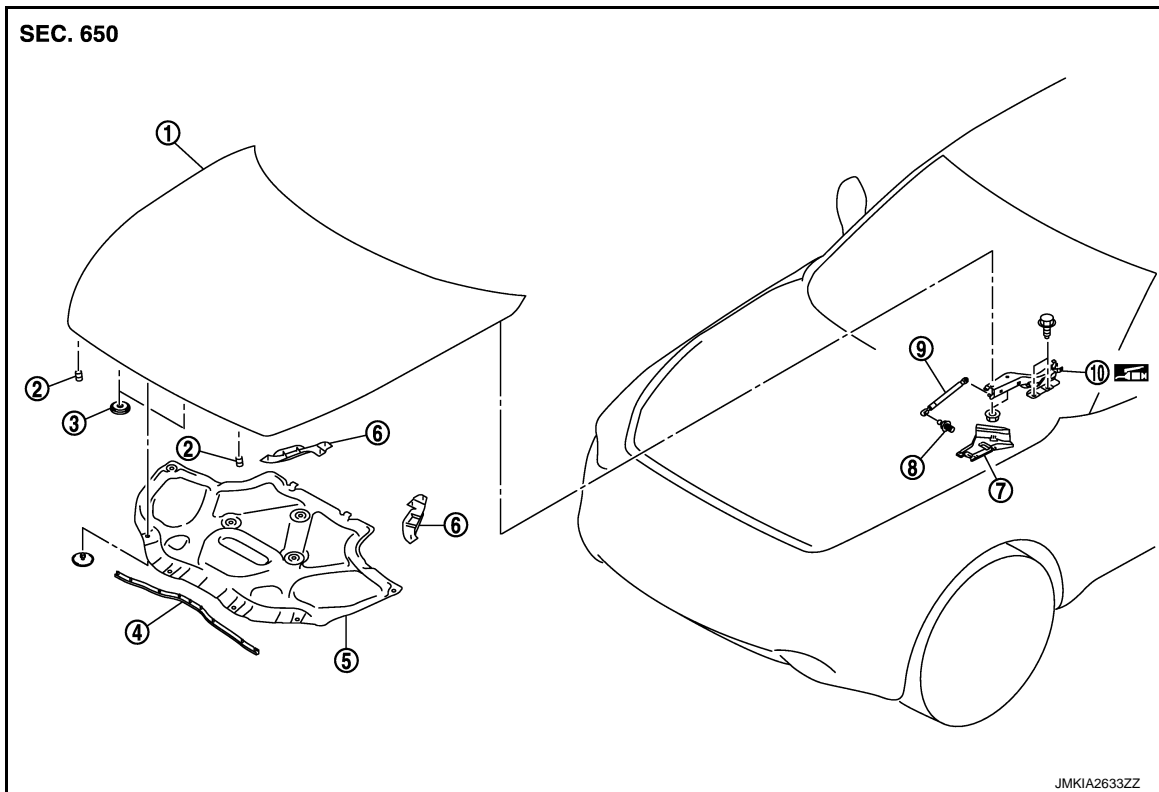
HOOD HINGE

HOOD

< REMOVAL AND INSTALLATION >

HOOD HINGE : Exploded View

INFOID:000000003843126



- | | | |
|-----------------------|-----------------------|----------------|
| 1. Hood assembly | 2. Hood bumper rubber | 3. Seal |
| 4. Radiator core seal | 5. Hood insulator | 6. Inner cover |
| 7. Hood hinge cover | 8. Stud ball | 9. Hood stay |
| 10. Hood hinge | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

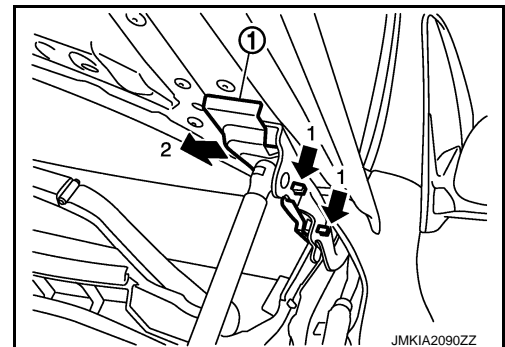
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REMOVAL

1. Remove hood hinge cover (LH/RH) (1).

NOTE:

While pushing the pawls, pull hood hinge cover in the direction of the arrow.



2. Remove hood assembly. Refer to [DLK-226, "HOOD ASSEMBLY : Removal and Installation"](#).
3. Remove front fender. Refer to [DLK-234, "Removal and Installation"](#).
4. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.

HOOD

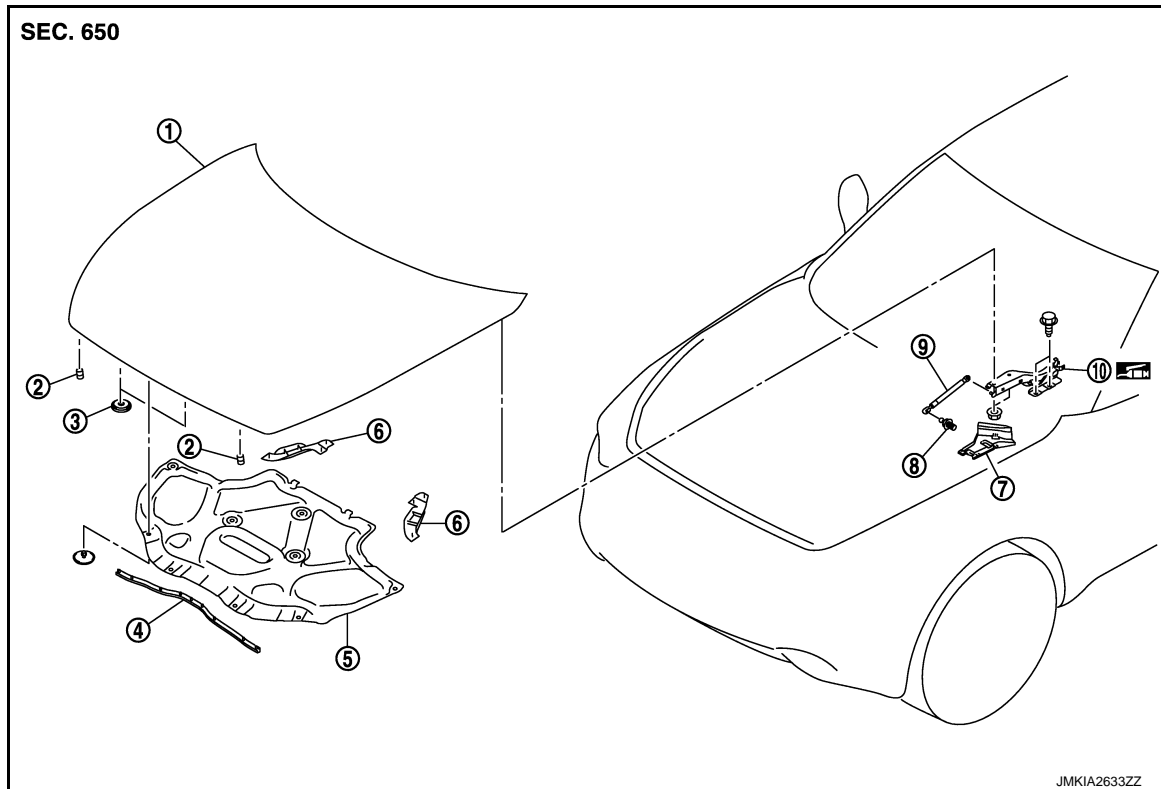
< REMOVAL AND INSTALLATION >

- Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check hood open/close, lock/unlock operation.
- After installation, apply touch-up paint (the body color) onto the head of hood hinge mounting bolts and nuts.
- After installation, perform the fitting adjustment. Refer to [DLK-227, "HOOD ASSEMBLY : Adjustment"](#).

HOOD STAY

HOOD STAY : Exploded View

INFOID:000000003940557



- | | | |
|-----------------------|-----------------------|----------------|
| 1. Hood assembly | 2. Hood bumper rubber | 3. Seal |
| 4. Radiator core seal | 5. Hood insulator | 6. Inner cover |
| 7. Hood hinge cover | 8. Stud ball | 9. Hood stay |
| 10. Hood hinge | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD STAY : Removal and Installation

INFOID:000000003843129

REMOVAL

1. Support hood assembly with a proper material to prevent it from falling.

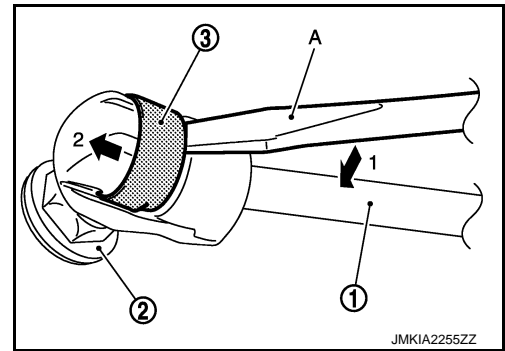
WARNING:

Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

HOOD

< REMOVAL AND INSTALLATION >

2. Remove the metal clip (3) located on the connection between the hood stay (1) and the stud ball (2) (hood side), by using a flat-bladed screwdriver (A).
3. Disengage the stud ball from the hood stay (hood side).
4. Repeat the same operation to disengage the stud ball from the hood stay (body side), then remove the hood stay.



INSTALLATION

Install in the reverse order of removal.

A
B
C
D
E
F
G
H
I
J
L
M
N
O
P

DLK

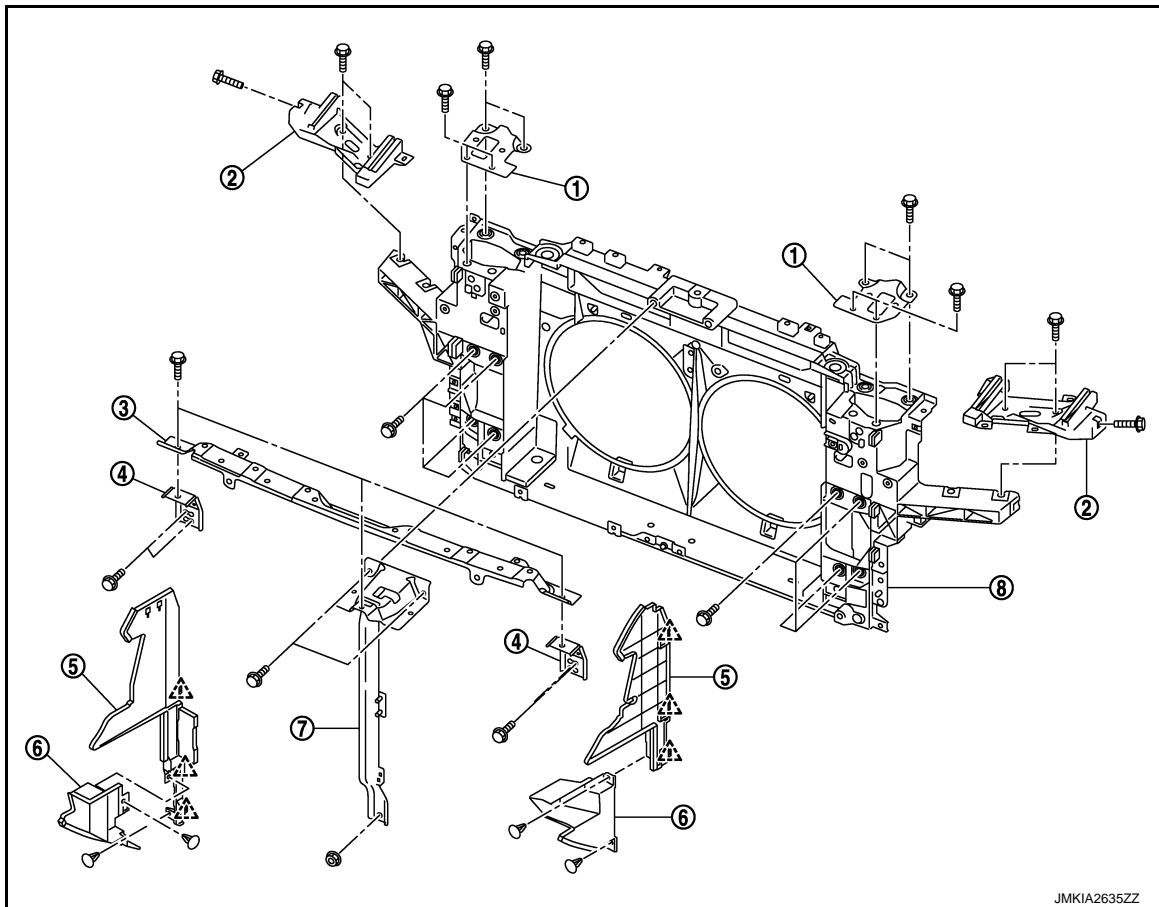
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000003843130



- | | | |
|---------------------------------------|------------------------------|--------------------------------|
| 1. Hood lock bracket (LH/RH) | 2. Head lamp bracket (LH/RH) | 3. Front bumper upper retainer |
| 4. Front bumper side retainer (LH/RH) | 5. Air guide upper (LH/RH) | 6. Air guide lower (LH/RH) |
| 7. Hood lock stay | 8. Radiator core support | |

△ : Pawl

Removal and Installation

INFOID:000000003843131

REMOVAL

1. Use refrigerant collecting equipment to discharge the refrigerant. Refer to [HA-25, "Collection and Charge"](#).
2. Remove floor under cover. Refer to [EXT-31, "Removal and Installation"](#).
3. Remove front bumper fascia, front bumper fascia lower, energy absorber and bumper reinforcement. Refer to [EXT-13, "Removal and Installation"](#).
4. Drain engine coolant from radiator.
 - VQ35HR models: Refer to [CO-8, "Draining"](#).
 - VK50VE models: Refer to [CO-33, "Draining"](#).
5. Remove engine coolant reservoir tank. Refer to [CO-14, "Exploded View"](#).
6. Remove air guide lower (LH/RH).
7. Remove air guide upper (LH/RH).
8. Remove front combination lamp (LH/RH). Refer to [EXL-201, "Exploded View"](#).
9. Disconnect hood lock switch connector from head lamp bracket (RH).
10. Remove mounting bolts and then remove head lamp bracket (LH/RH).

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

11. Remove mounting bolts and then remove hood lock bracket assembly (LH/RH).
 12. Remove washer tank and washer tank inlet. Refer to [WW-108, "Exploded View"](#).
 13. Remove ambient sensor. Refer to [HAC-180, "Exploded View"](#).
 14. Remove GAS sensor (with intelligent A/C). Refer to [HAC-185, "Exploded View"](#).
 15. Disconnect harness clamp from hood lock stay.
 16. Remove mounting bolt and nut, and remove hood lock stay.
 17. Remove horn (HIGH/LOW). Refer to [HRN-6, "Exploded View"](#).
 18. Remove ICC sensor integrated unit (with intelligent cruise control model). Refer to [CCS-180, "Exploded View"](#).
 19. Remove intelligent key warning buzzer. Refer to [DLK-273, "Removal and Installation"](#).
 20. Remove power steering oil cooler.
 - VQ35HR models: Refer to [ST-47, "VQ35HR : Exploded View"](#).
 - VK50VE models: Refer to [ST-48, "VK50VE : Exploded View"](#).
 21. Disconnect harness connector of refrigerant pressure sensor. Refer to [HAC-186, "Exploded View"](#).
 22. Remove condenser assembly and condenser pipe assembly. Refer to [HA-47, "CONDENSER : Removal and Installation"](#).
 23. Disconnect A/T fluid cooler hose (upper/lower) from fan shroud and remove A/T fluid cooler hose (upper/lower) from radiator.
 - VQ35HR, 2WD models: Refer to [TM-194, "2WD : Exploded View"](#).
 - VQ35HR, AWD models: Refer to [TM-196, "AWD : Exploded View"](#).
 - VK50VE models: Refer to [TM-381, "Exploded View"](#).
 24. Remove radiator upper hose and lower hose at radiator side.
 - VQ35HR models: Refer to [CO-24, "Exploded View"](#).
 - VK50VE models: Refer to [CO-46, "Exploded View"](#).
 25. Remove radiator.
 - VQ35HR models: Refer to [CO-14, "Removal and Installation"](#).
 - VK50VE models: Refer to [CO-39, "Removal and Installation"](#).
 26. Remove crash zone sensor. Refer to [SR-15, "Removal and Installation"](#).
 27. Disconnect harness connector of cooling fan.
 - VQ35HR models: Refer to [CO-17, "Exploded View"](#).
 - VK50VE models: Refer to [CO-42, "Exploded View"](#).
 28. Disconnect all harness clip from radiator core support assembly.
 29. Remove mounting bolts, and then remove radiator core support assembly.
- CAUTION:**
Operate with two workers, because of its heavy weight.
30. Remove the following parts after removing radiator core support assembly.
 - Cooling fan (LH/RH)
 - VQ35HR models: Refer to [CO-17, "Exploded View"](#).
 - VK50VE models: Refer to [CO-42, "Exploded View"](#).
 - Front bumper side retainer (LH/RH)

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, replenish the following parts.
- Refrigerant: Refer to [HA-25, "Collection and Charge"](#) (VQ35HR models) or [HA-81, "Collection and Charge"](#) (VK50VE models).
- Engine coolant: Refer to [CO-9, "Refilling"](#) (VQ35HR models) or [CO-34, "Refilling"](#) (VK50VE models).
- A/T fluid: Refer to [TM-176, "Changing"](#) (VQ35HR models) or [TM-363, "Changing"](#) (VK50VE models).
- Power steering oil: Refer to [ST-11, "Inspection"](#).
- After installation, adjust the following parts.
- ICC sensor integrated unit (with intelligent cruise control model): Refer to [CCS-13, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(ICC SENSOR INTEGRATED UNIT\) : Special Repair Requirement"](#).
- Front combination lamp: Refer to [EXL-198, "Aiming Adjustment Procedure"](#).
- Perform camera image calibration. Refer to [AV-614, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

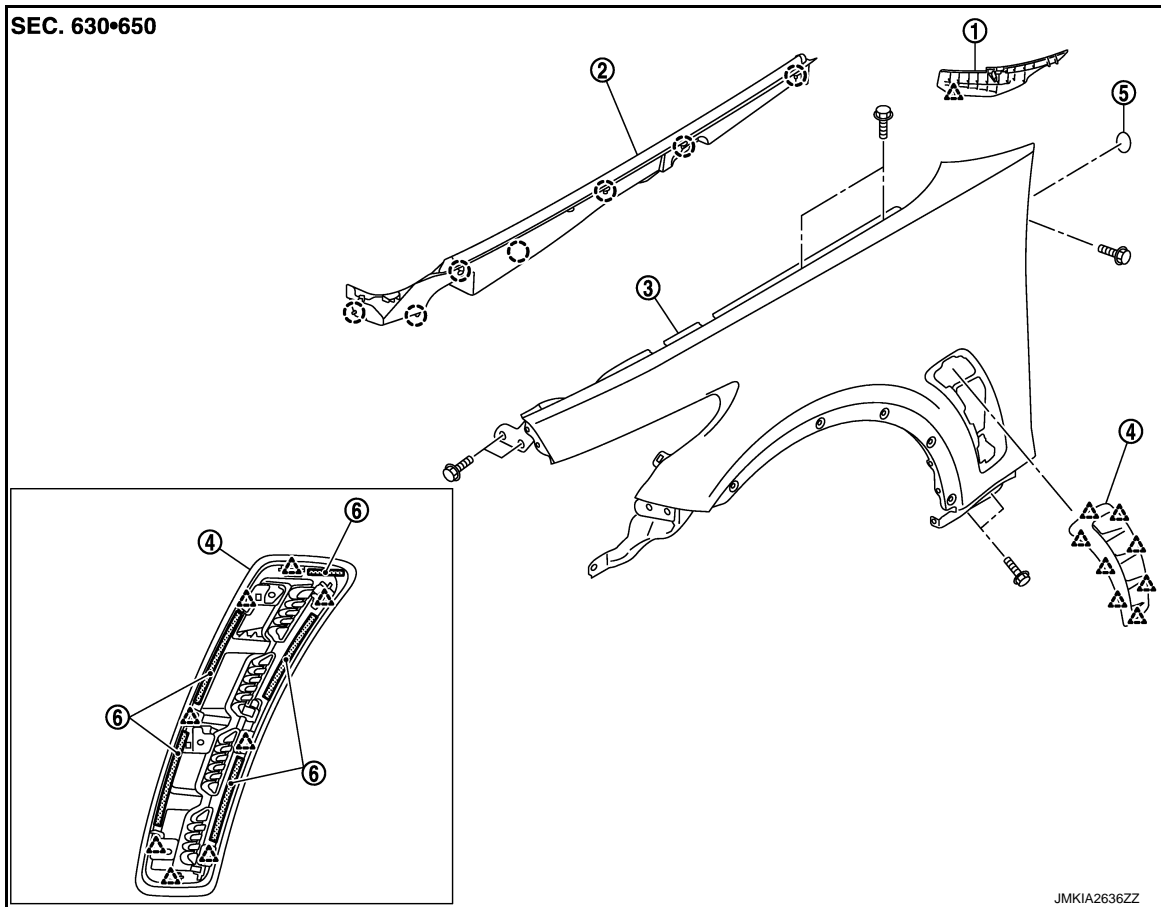
FRONT FENDER

< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

INFOID:000000003843132



- | | | |
|-------------------------------|------------------------------|--|
| 1. Front fender cover | 2. Hood seal assembly (side) | 3. Front fender |
| 4. Front fender duct assembly | 5. Seal | 6. Double-faced adhesive tape (t: 0.8 mm, 0.031 in) |

○ : Clip

△ : Pawl

Removal and Installation

INFOID:000000003843133

CAUTION:

Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Remove clips of hood seal assembly (side) on front fender.
2. Remove fillet molding. Refer to [EXT-32, "Removal and Installation"](#).
3. Remove fender protector. Refer to [EXT-25, "FENDER PROTECTOR : Removal and Installation"](#).
4. Remove front bumper fascia. Refer to [EXT-13, "Removal and Installation"](#).
5. Remove center mud guard. Refer to [EXT-29, "Removal and Installation"](#).
6. Remove front combination lamp. Refer to [EXL-202, "Removal and Installation"](#).
7. Remove front fender cover.
8. Remove mounting bolts and remove front fender.

CAUTION:

FRONT FENDER

< REMOVAL AND INSTALLATION >

A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.
- After installation, adjust the following part.
 - Hood assembly: Refer to [DLK-227, "HOOD ASSEMBLY : Adjustment"](#).
 - Front door: Refer to [DLK-238, "DOOR ASSEMBLY : Adjustment"](#).
 - Front combination lamp: Refer to [EXL-198, "Aiming Adjustment Procedure"](#).
 - Perform camera image calibration. Refer to [AV-614, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

Disassembly and Assembly

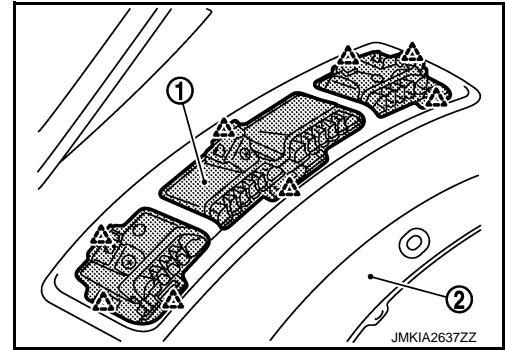
INFOID:000000003940572

1. Remove fender protector (front). Refer to [EXT-25, "FENDER PROTECTOR : Removal and Installation"](#).
2. Disengage pawls of front fender duct (1) assembly from front fender (2) to remove.

CAUTION:

When removing front fender duct assembly, peel off the double-faced adhesive tape at a time, and carefully to remove it.

△ : Pawl



DLK

FRONT DOOR

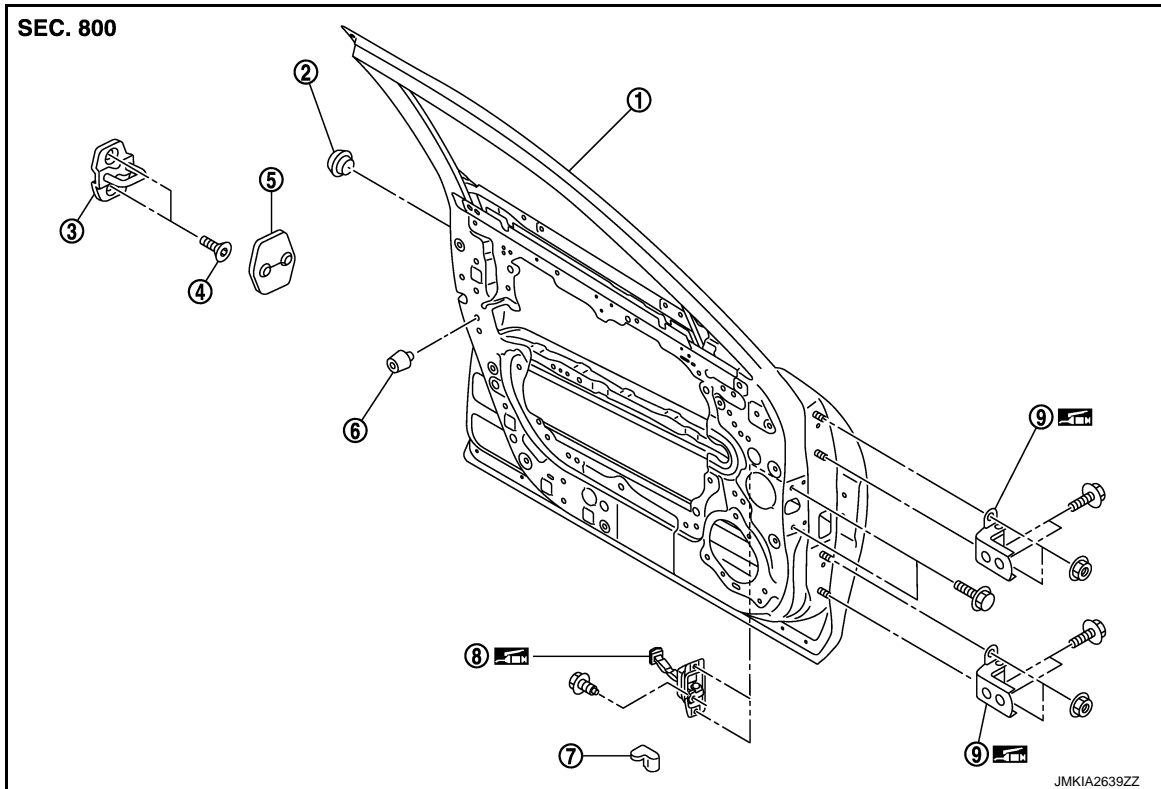
< REMOVAL AND INSTALLATION >

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000003843134

REMOVAL



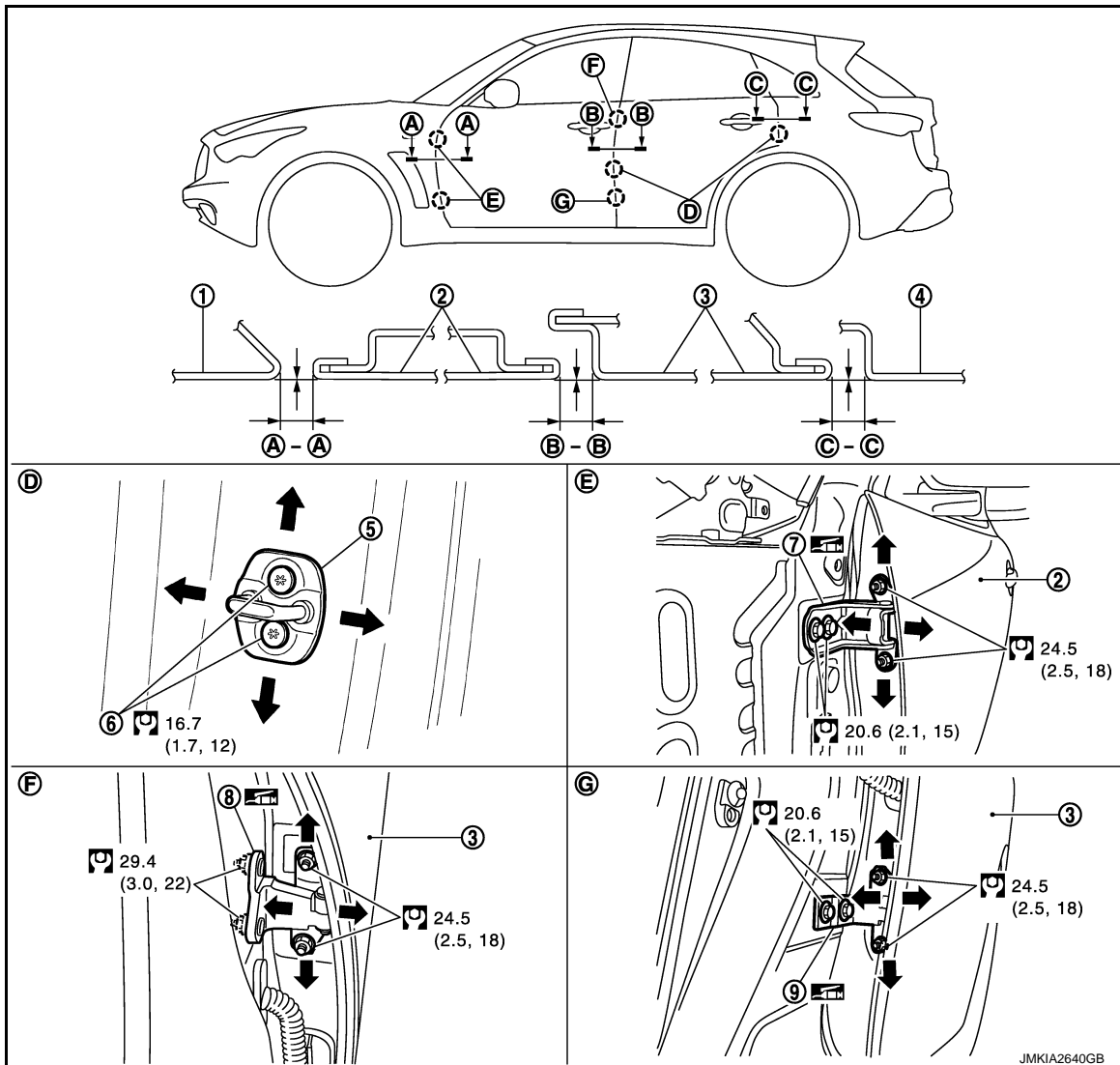
- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

FRONT DOOR

< REMOVAL AND INSTALLATION >



- | | | |
|-----------------------------------|----------------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Door striker | 6. TORX bolt |
| 7. Front door hinge (upper/lower) | 8. Rear door hinge (upper) | 9. Rear door hinge (lower) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000003843135

CAUTION:

- Operate with two workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Disconnect front door harness connector.
3. Remove door hinge mounting nuts (door side), and then remove front door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.

FRONT DOOR

< REMOVAL AND INSTALLATION >

- After installation, perform the fitting adjustment. Refer to [DLK-238, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000003843136

Check the clearance and surface height between front door and each part by seeing and touching.

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

Unit: mm (in)

| Portion | | Clearance | Surface height |
|---------------------------|-------|---------------------------|-----------------------------|
| Front fender – Front door | A – A | 3.0 – 5.0 (0.118 – 0.197) | –1.0 – 1.0 (–0.039 – 0.039) |
| Front door – Rear door | B – B | 3.0 – 5.0 (0.118 – 0.197) | –1.0 – 1.0 (–0.039 – 0.039) |

1. Remove front fender. Refer to [DLK-234, "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. Tighten each bolts and nuts to the specified torque.
CAUTION:
 - Apply anticorrosive agent onto the mounting surface.
 - Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - After installation, check door open/close, lock/unlock operation.
 - After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.
8. Install front fender. Refer to [DLK-234, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

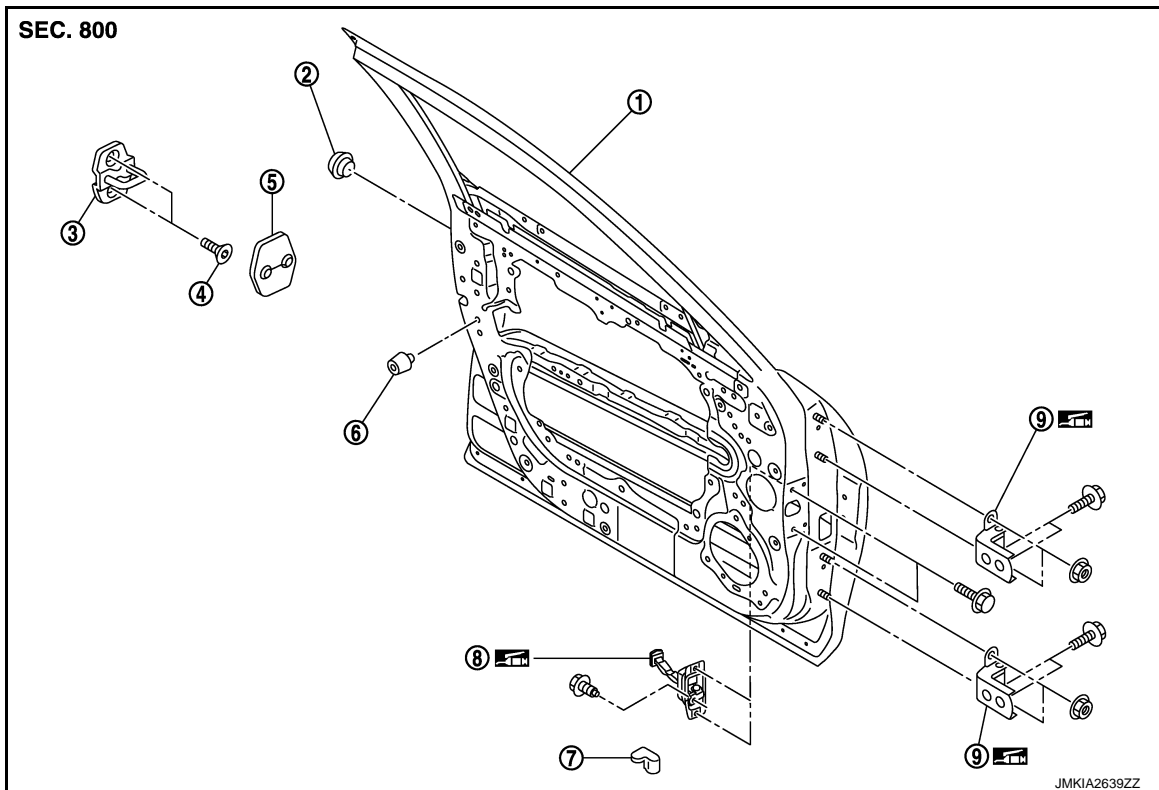
DOOR STRIKER

FRONT DOOR

< REMOVAL AND INSTALLATION >

DOOR STRIKER : Exploded View

INFOID:000000003843137



- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000003843138

REMOVAL

1. Remove door striker cover.
2. Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply genuine high strength locking sealant or equivalent onto TORX bolts.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-238. "DOOR ASSEMBLY : Adjustment"](#).

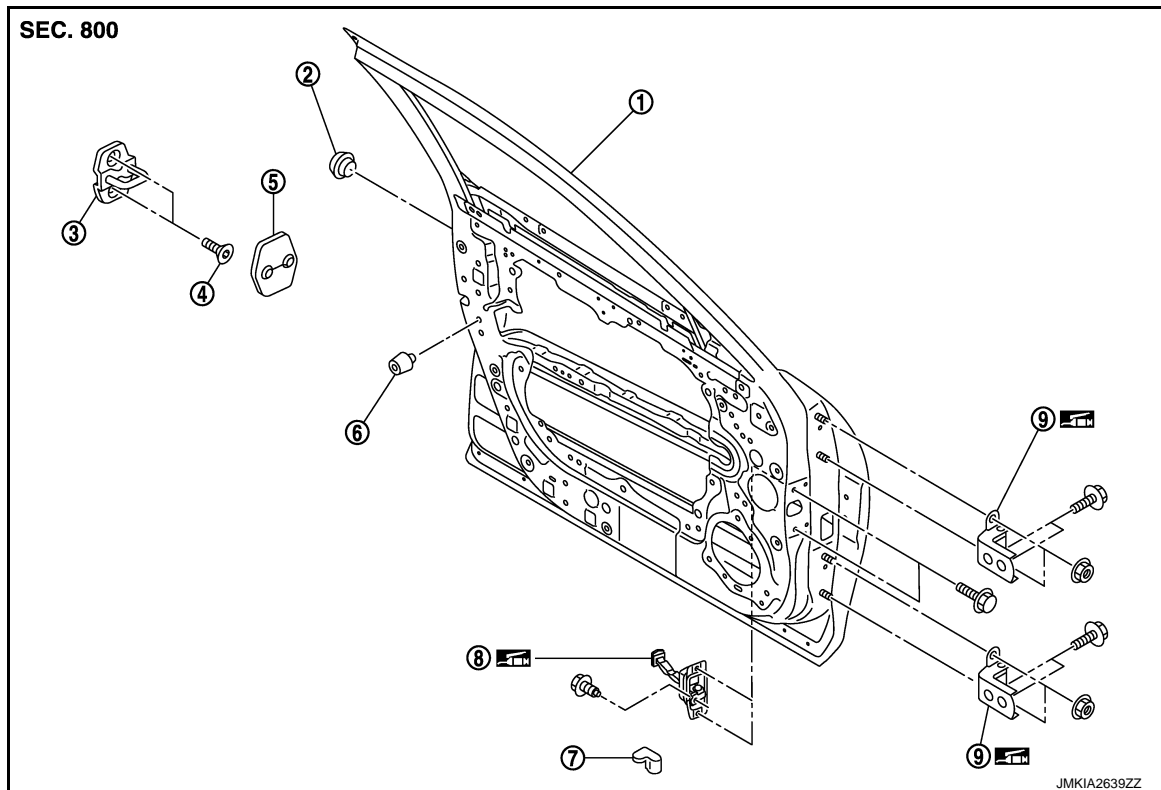
DOOR HINGE

FRONT DOOR

< REMOVAL AND INSTALLATION >

DOOR HINGE : Exploded View

INFOID:000000003940558



- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000003843140

REMOVAL

1. Remove front fender. Refer to [DLK-234, "Removal and Installation"](#).
2. Remove front door assembly. Refer to [DLK-237, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove front door hinge mounting bolts, and then remove front door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-238, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

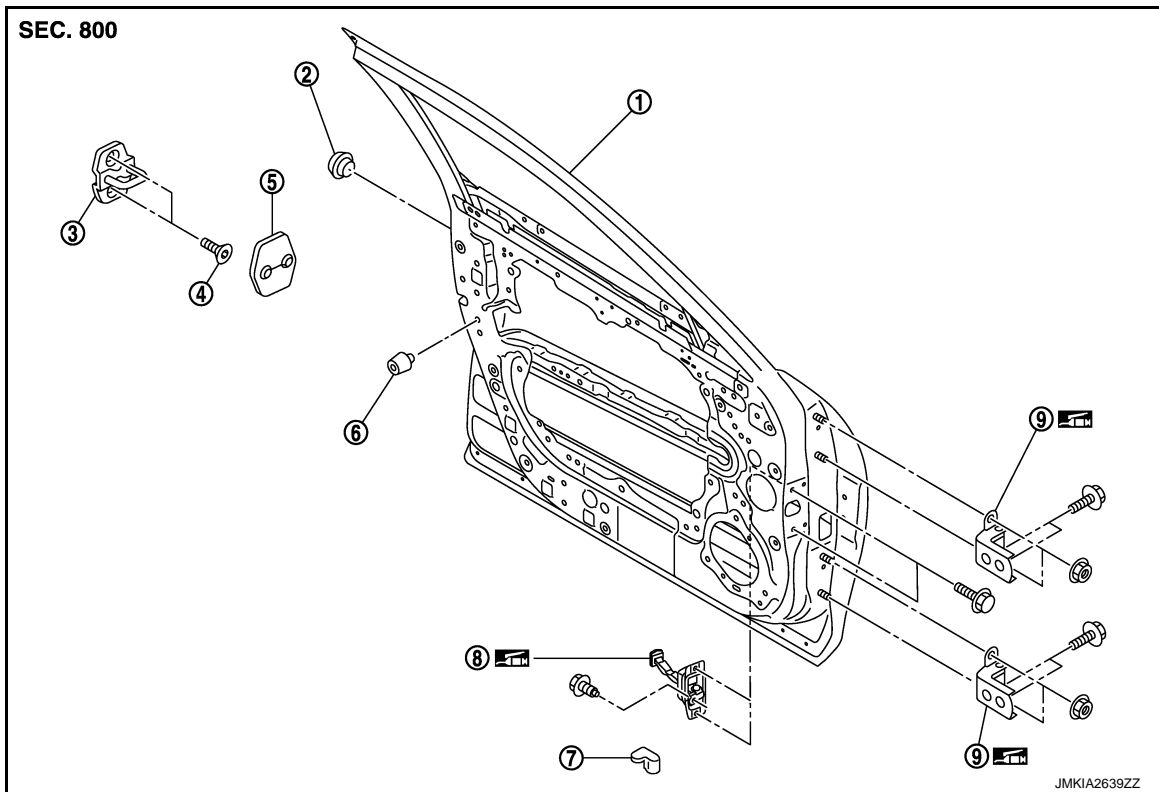
DOOR CHECK LINK

FRONT DOOR

< REMOVAL AND INSTALLATION >

DOOR CHECK LINK : Exploded View

INFOID:000000003940559



- | | | |
|--------------------------|-----------------------|-----------------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Bumper rubber |
| 7. Door check link cover | 8. Door check link | 9. Door hinge (upper/lower) |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000003843142

DLK

REMOVAL

1. Remove front door finisher. Refer to [INT-11. "Removal and Installation"](#).
2. Fully close the front door window.
3. Remove front door speaker. Refer to [AV-253. "Removal and Installation"](#) (without navigation) or [AV-581. "Removal and Installation"](#) (single monitor navigation) or [AV-1050. "Removal and Installation"](#) (twin monitor navigation).
4. Remove door check link cover.
5. Remove mounting bolts of door check link on the vehicle.
6. Remove mounting bolts of door check link on door panel.
7. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, check door open/close operation.

REAR DOOR

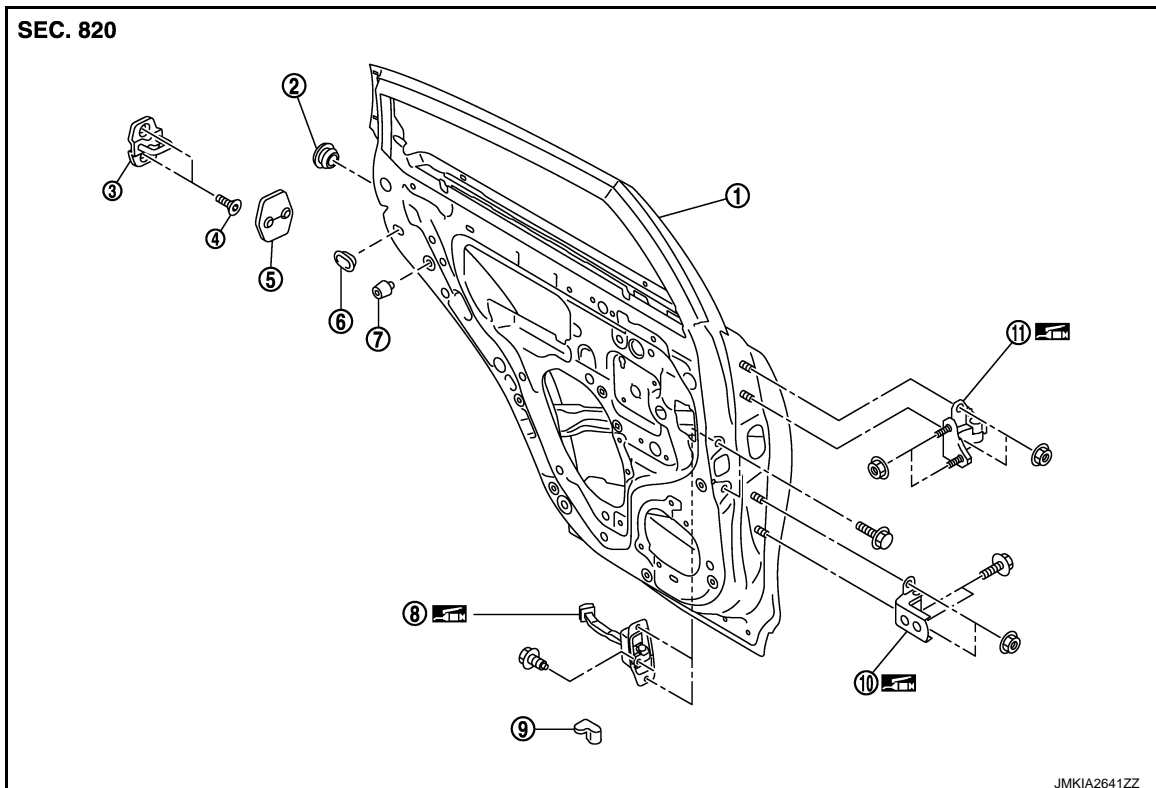
< REMOVAL AND INSTALLATION >

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000003843143

REMOVAL



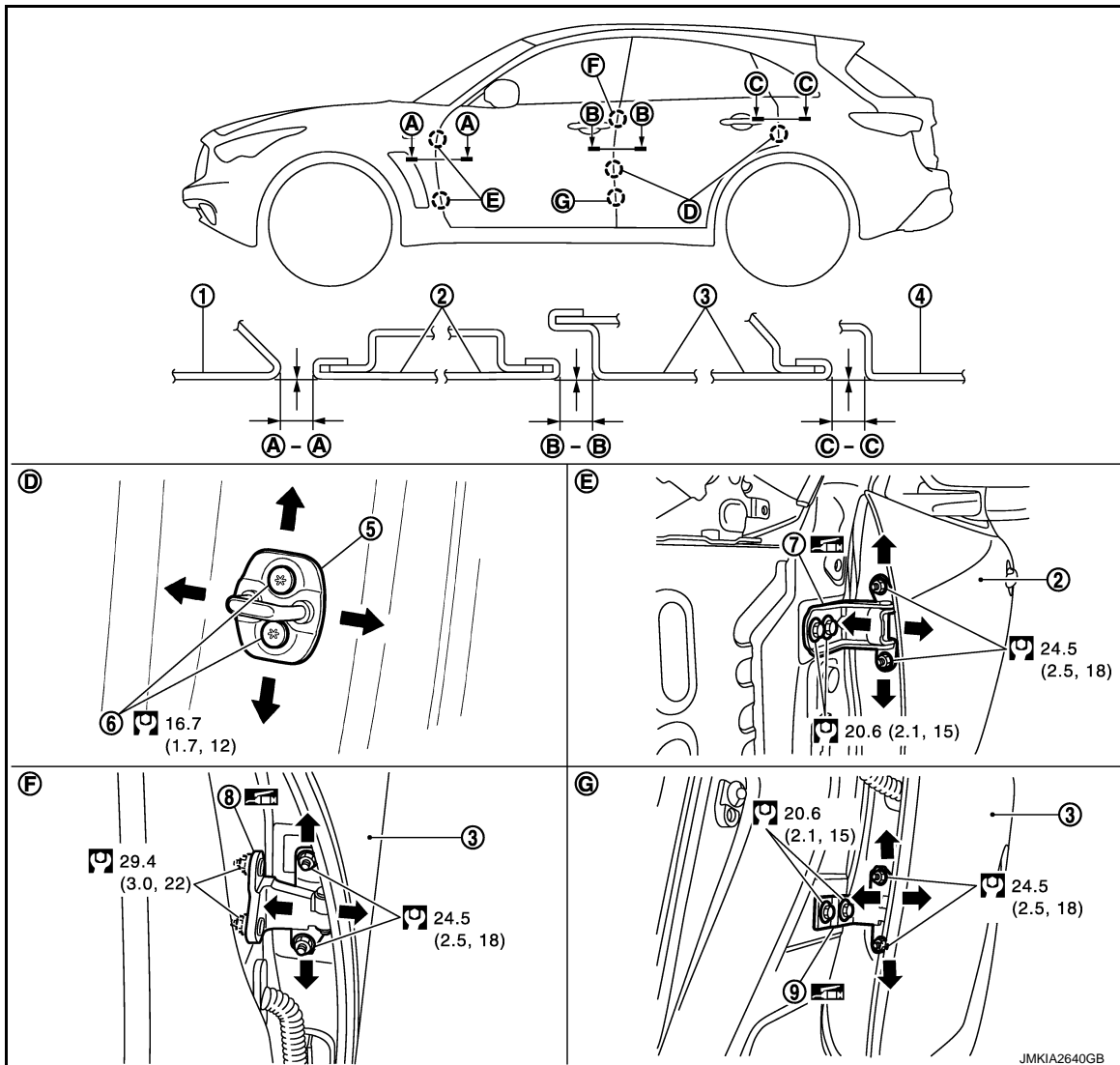
- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

REAR DOOR

< REMOVAL AND INSTALLATION >



- | | | |
|-----------------------------------|----------------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Door striker | 6. TORX bolt |
| 7. Front door hinge (upper/lower) | 8. Rear door hinge (upper) | 9. Rear door hinge (lower) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000003843144

CAUTION:

- Operate with two workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Disconnect rear door harness connector.
3. Remove door hinge mounting nuts (door side), and then remove rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.

REAR DOOR

< REMOVAL AND INSTALLATION >

- After installation, perform the fitting adjustment. Refer to [DLK-244, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000003843145

Check the clearance and surface height between rear door and each part by seeing and touching.
If the clearance and surface height 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 | 3.0 – 5.0 (0.118 – 0.197) | –1.0 – 1.0 (–0.039 – 0.039) |
| Rear door – Body side outer | C – C | 3.0 – 5.0 (0.118 – 0.197) | –1.0 – 1.0 (–0.039 – 0.039) |

1. Remove center pillar lower garnish. Refer to [INT-17, "Removal and Installation"](#).
2. 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 the rear door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
8. Install center pillar lower garnish. Refer to [INT-17, "Removal and Installation"](#).

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

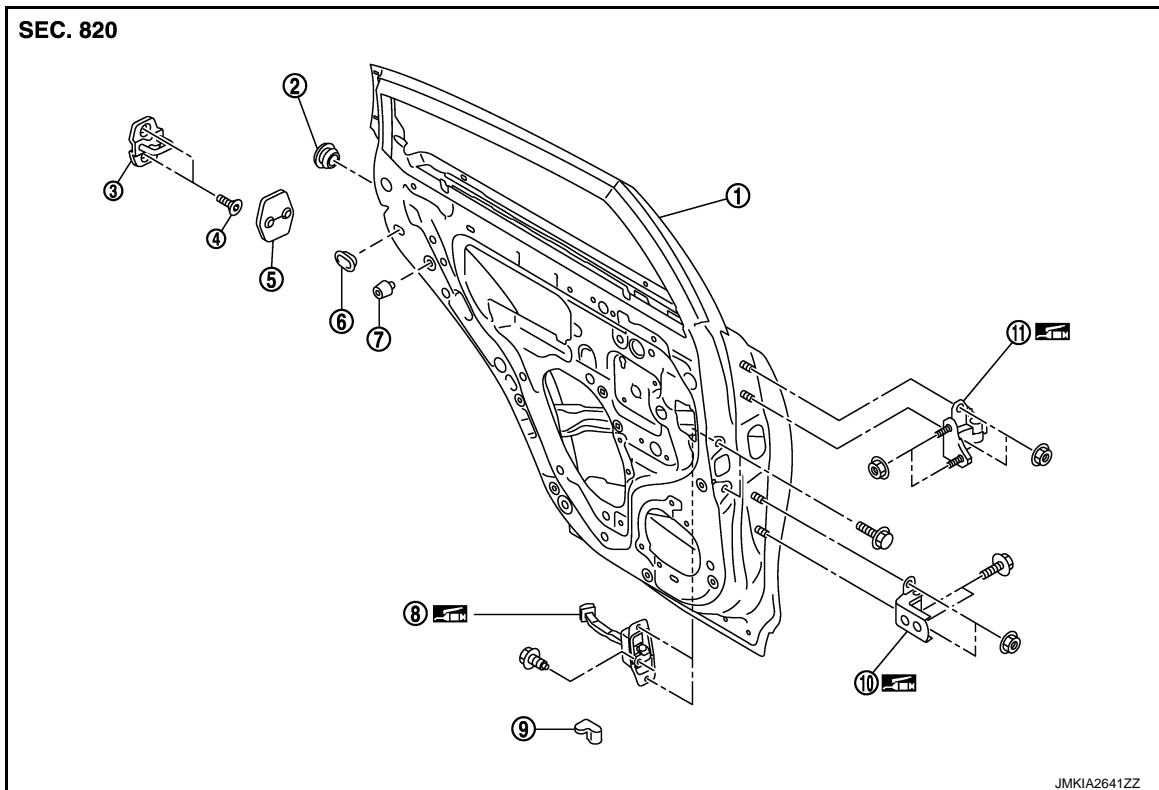
DOOR STRIKER

REAR DOOR

< REMOVAL AND INSTALLATION >

DOOR STRIKER : Exploded View

INFOID:000000003843146



- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000003843147

REMOVAL

1. Remove door striker cover.
2. Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply genuine high strength locking sealant or equivalent onto TORX bolts.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-244. "DOOR ASSEMBLY : Adjustment"](#).

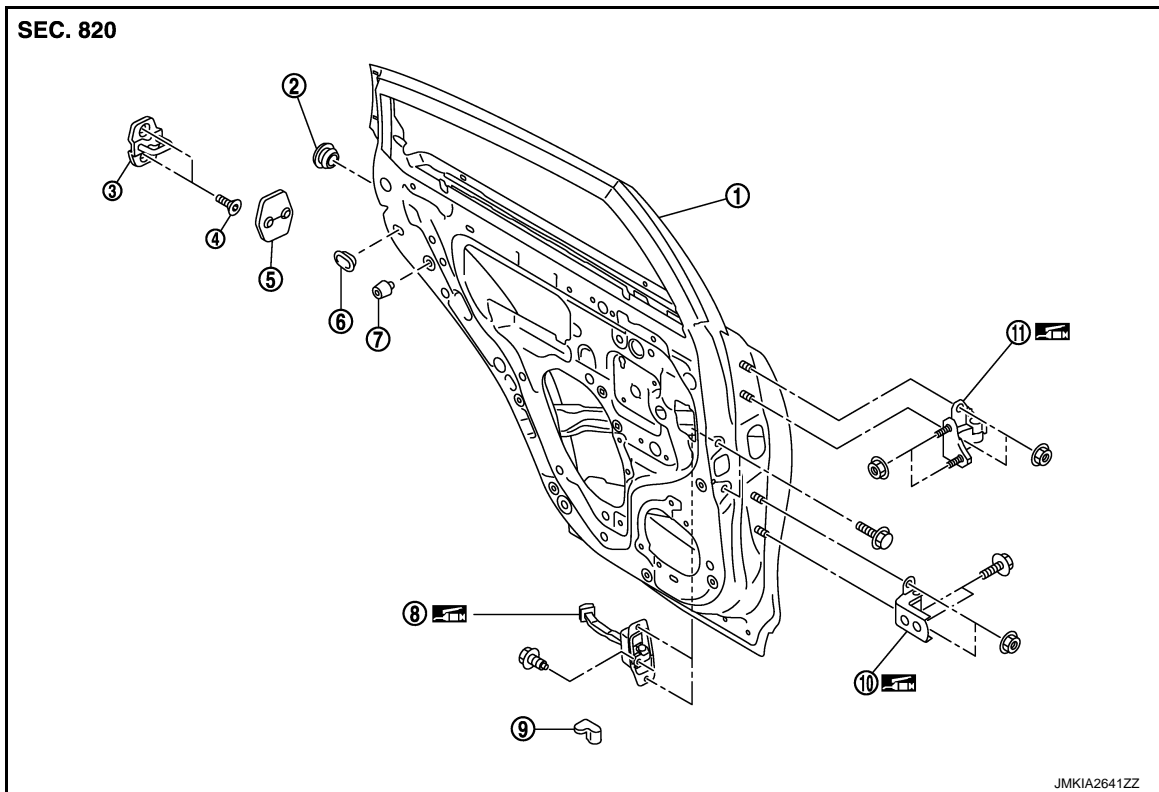
DOOR HINGE

REAR DOOR

< REMOVAL AND INSTALLATION >

DOOR HINGE : Exploded View

INFOID:000000003940560



- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000003843149

REMOVAL

1. Remove center pillar lower garnish. Refer to [INT-17, "Removal and Installation"](#).
2. Remove rear door assembly. Refer to [DLK-243, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-244, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

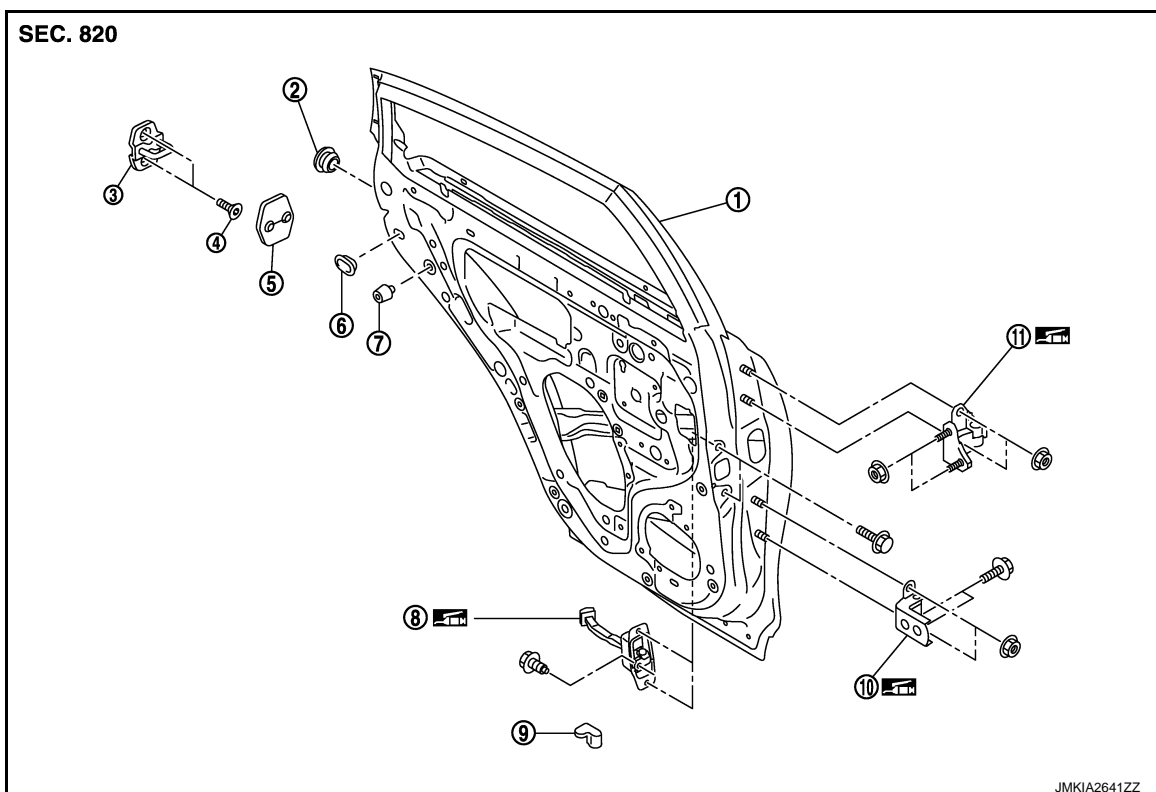
DOOR CHECK LINK

REAR DOOR

< REMOVAL AND INSTALLATION >

DOOR CHECK LINK : Exploded View

INFOID:000000003940561



- | | | |
|------------------------|------------------------|--------------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Door striker cover | 6. Grommet |
| 7. Bumper rubber | 8. Door check link | 9. Door check link cover |
| 10. Door hinge (lower) | 11. Door hinge (upper) | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000003843151

REMOVAL

1. Remove rear door finisher. Refer to [INT-14, "Removal and Installation"](#).
2. Fully close the rear door window.
3. Remove rear door speaker. Refer to [AV-254, "Removal and Installation"](#) (without navigation) or [AV-582, "Removal and Installation"](#) (single monitor navigation) or [AV-1051, "Removal and Installation"](#) (twin monitor navigation).
4. Remove door check link cover
5. Remove mounting bolts of door check link on the vehicle.
6. Remove mounting bolts of door check link on door panel.
7. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, check door open/close operation.

BACK DOOR

< REMOVAL AND INSTALLATION >

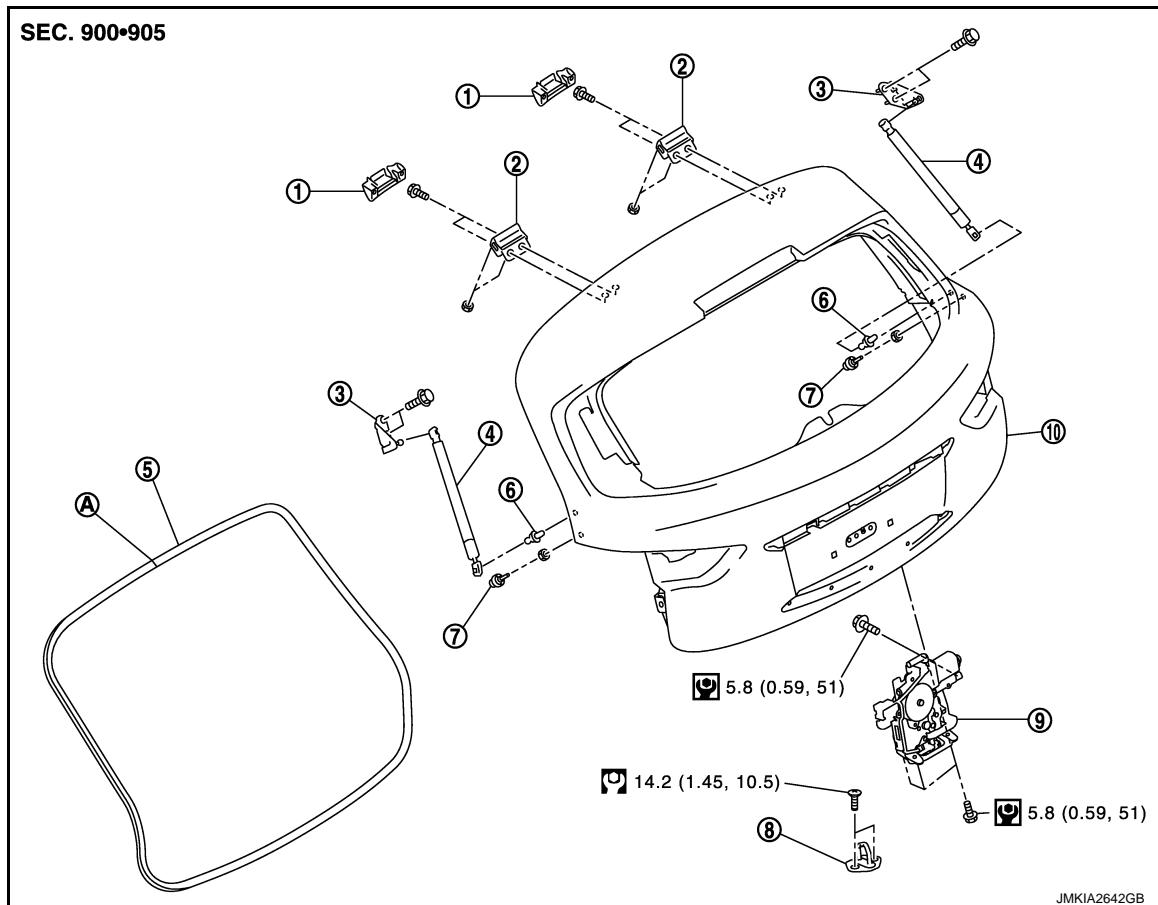
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000003843152

REMOVAL



- | | | |
|----------------------------------|----------------------------|-----------------------------------|
| 1. Back door hinge cover (LH/RH) | 2. Back door hinge (LH/RH) | 3. Back door stay bracket (LH/RH) |
| 4. Back door stay (LH/RH) | 5. Back door weather-strip | 6. Stud ball (LH/RH) |
| 7. Bumper rubber (LH/RH) | 8. Back door striker | 9. Back door lock assembly |
| 10. Back door assembly | | |

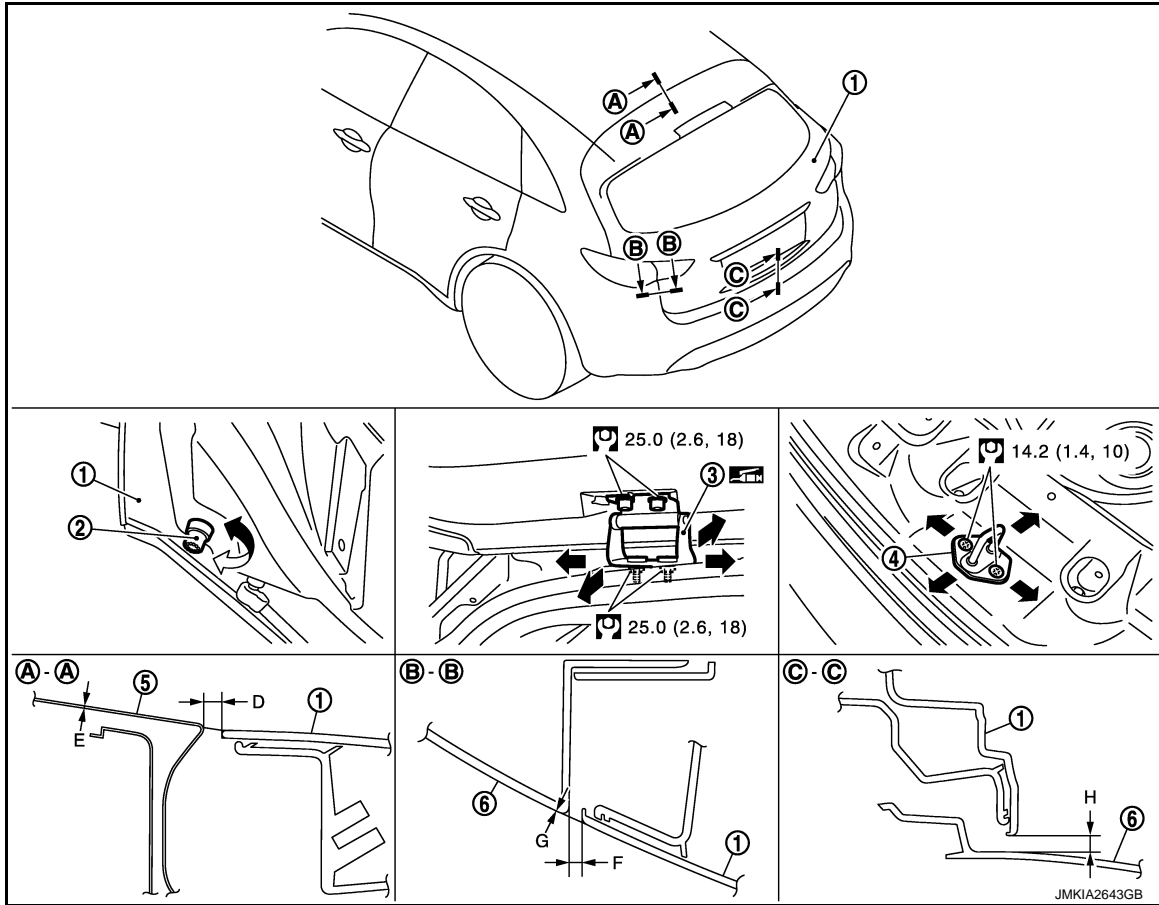
A : Center mark

Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

BACK DOOR

< REMOVAL AND INSTALLATION >



- | | | |
|-----------------------|------------------|-----------------------|
| 1. Back door assembly | 2. Bumper rubber | 3. Back door hinge |
| 4. Back door striker | 5. Roof | 6. Rear bumper fascia |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000003843153

CAUTION:

- Operate with two workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

NOTE:

The back door harness constitute the back door assembly.

REMOVAL

1. Remove back door finisher inner, back door plate and back door hinge cover. Refer to [INT-32, "Removal and Installation"](#).
2. Remove clips of headlining at rear end. Refer to [INT-24, "Removal and Installation"](#).
3. Disconnect connectors and bolts of back door harness.
4. Remove back door grommet (LH), and then pull harness out of vehicle at roof panel hole.
5. Remove back door plate, and then disconnect washer tube. Refer to [INT-32, "Exploded View"](#) and [WW-123, "Removal and Installation"](#).
6. Pull washer tube out of back door.
7. Support back door lock with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

8. Remove back door stay. Refer to [DLK-253, "BACK DOOR STAY : Removal and Installation"](#).
9. Remove back door hinge mounting bolts on back door and remove back door assembly.

BACK DOOR

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-250, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, perform the camera image calibration. Refer to [AV-279, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#) (single monitor) or [AV-614, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#) (twin monitor).

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000003843154

Check the clearance and the surface height between back door and each part by seeing and touching.

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

Unit: mm (in)

| Portion | | | | Standard |
|--------------------------------|-------|---|----------------|-----------------------------|
| Back door – Roof | A – A | D | Clearance | 5.0 – 9.0 (0.197 – 0.354) |
| | | E | Surface height | –0.4 – 3.6 (–0.016 – 0.142) |
| Back door – Rear bumper fascia | B – B | F | Clearance | 3.0 – 7.0 (0.118 – 0.276) |
| | | G | Surface height | –2.1 – 2.1 (–0.083 – 0.083) |
| | C – C | H | Clearance | 5.0 – 9.0 (0.197 – 0.354) |

1. Remove back door hinge cover. Refer to [INT-32, "Removal and Installation"](#).
2. Loosen back door hinge mounting bolts (back door side).
3. Loosen bumper rubber.
4. Remove luggage rear plate mask. Refer to [INT-29, "Removal and Installation"](#).
5. Loosen back door striker mounting bolts.
6. 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.
7. Check the clearance and surface height.
8. Finally tighten back door hinge, bumper rubber, and back door striker.

CAUTION:

- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
 - After installation, check back door open/close, lock/unlock operation.
9. Install back door hinge cover and luggage rear plate mask. Refer to [INT-32, "Removal and Installation"](#) and [INT-29, "Removal and Installation"](#).

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

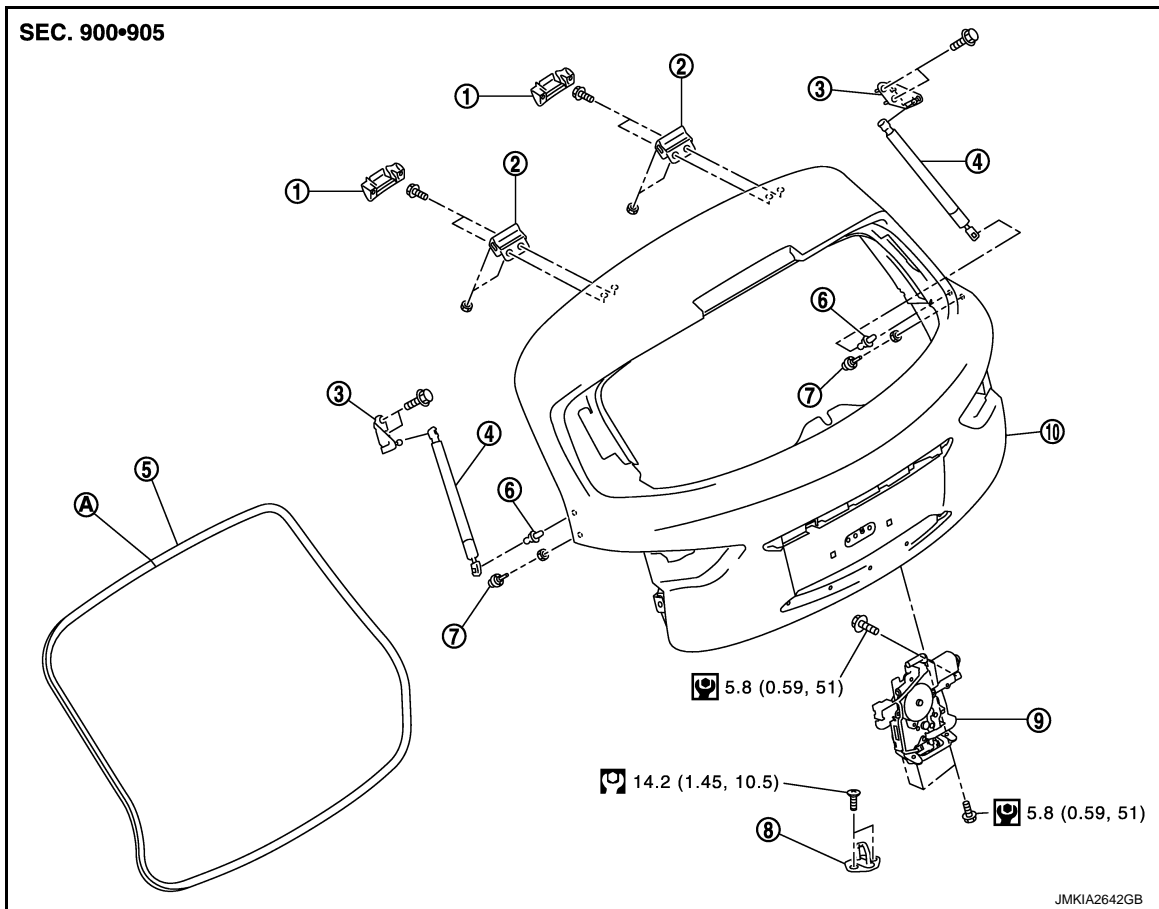
BACK DOOR STRIKER

BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR STRIKER : Exploded View

INFOID:000000003843155



- | | | |
|----------------------------------|----------------------------|-----------------------------------|
| 1. Back door hinge cover (LH/RH) | 2. Back door hinge (LH/RH) | 3. Back door stay bracket (LH/RH) |
| 4. Back door stay (LH/RH) | 5. Back door weather-strip | 6. Stud ball (LH/RH) |
| 7. Bumper rubber (side) (LH/RH) | 8. Back door striker | 9. Back door lock assembly |
| 10. Back door assembly | | |

A : Center mark

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000003843156

REMOVAL

1. Remove luggage rear plate mask. Refer to [INT-29, "Removal and Installation"](#).
2. Remove mounting bolts, and then remove back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-250, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR HINGE

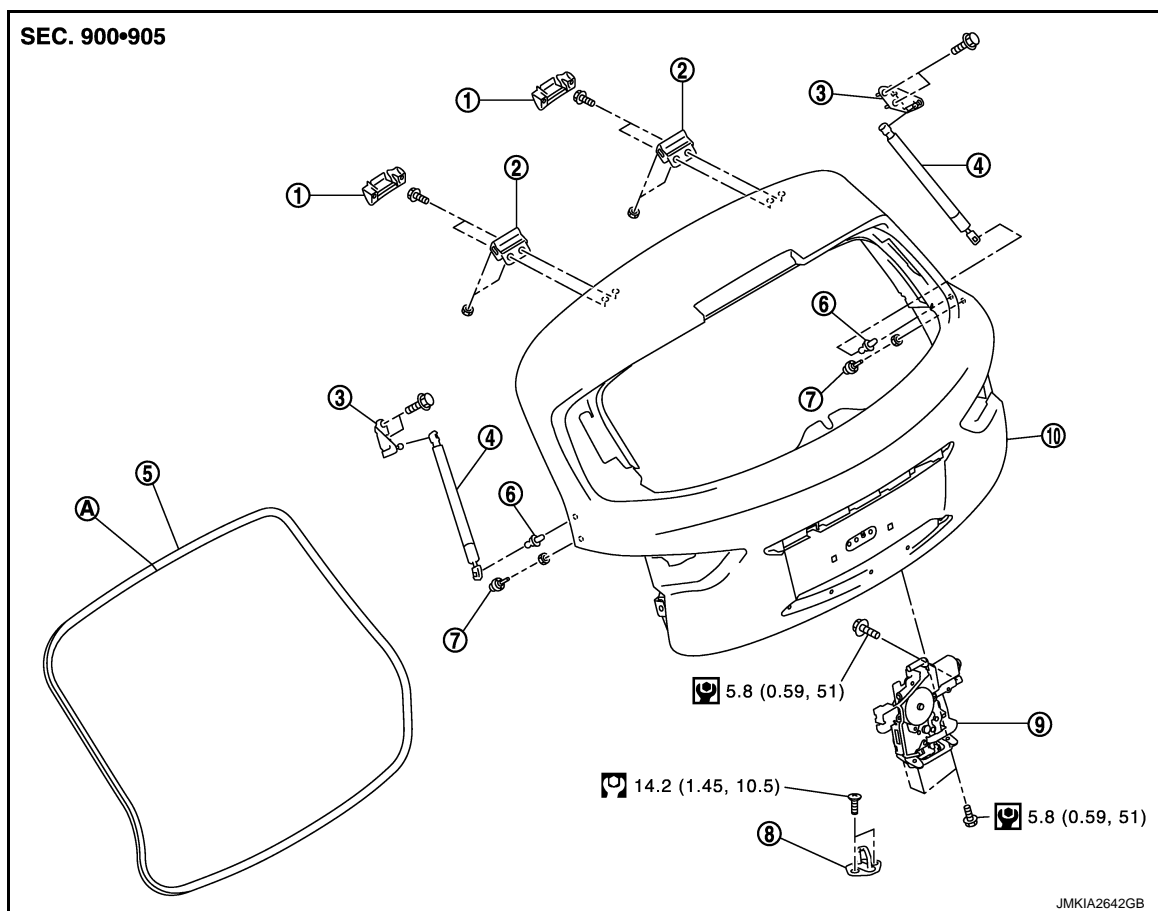
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BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR HINGE : Exploded View

INFOID:000000003940562



- | | | |
|----------------------------------|----------------------------|-----------------------------------|
| 1. Back door hinge cover (LH/RH) | 2. Back door hinge (LH/RH) | 3. Back door stay bracket (LH/RH) |
| 4. Back door stay (LH/RH) | 5. Back door weather-strip | 6. Stud ball (LH/RH) |
| 7. Bumper rubber (side) (LH/RH) | 8. Back door striker | 9. Back door lock assembly |
| 10. Back door assembly | | |

A : Center mark

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000003843158

REMOVAL

1. Remove luggage side lower finisher and luggage side upper finisher. Refer to [INT-29, "Removal and Installation"](#).
2. Using a remover tool, remove headlining clip at the rear side of headlining, and then remove rear side of headlining. Refer to [INT-24, "Removal and Installation"](#).
3. Remove back door assembly. Refer to [DLK-249, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
4. 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 hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the fitting adjustment. Refer to [DLK-250, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR

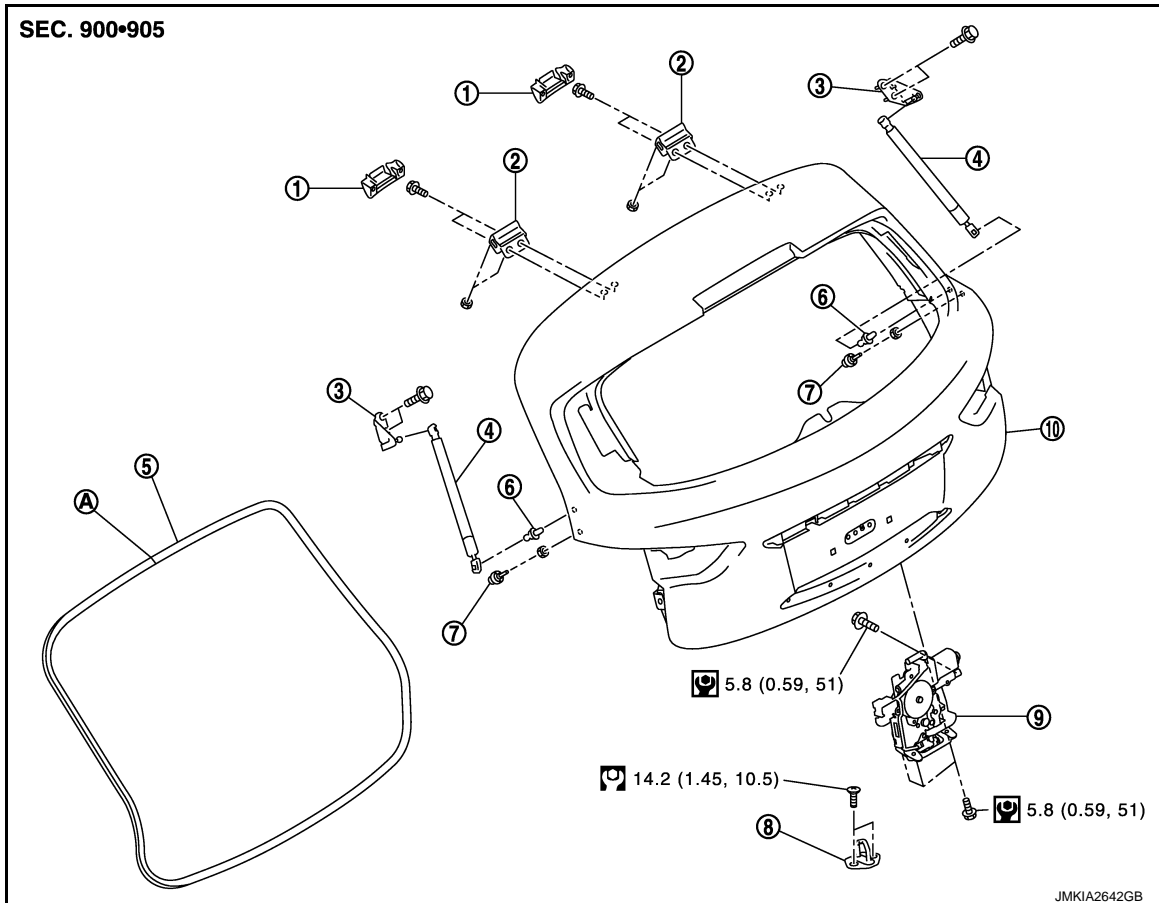
< REMOVAL AND INSTALLATION >

- After installation, perform the camera image calibration. Refer to [AV-279, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#) (single monitor) or [AV-614, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#) (twin monitor).

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000003940563



- | | | |
|----------------------------------|----------------------------|-----------------------------------|
| 1. Back door hinge cover (LH/RH) | 2. Back door hinge (LH/RH) | 3. Back door stay bracket (LH/RH) |
| 4. Back door stay (LH/RH) | 5. Back door weather-strip | 6. Stud ball (LH/RH) |
| 7. Bumper rubber (side) (LH/RH) | 8. Back door striker | 9. Back door lock assembly |
| 10. Back door assembly | | |

A : Center mark

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000003843160

REMOVAL

- Support back door lock with the proper material to prevent it from falling.

WARNING:

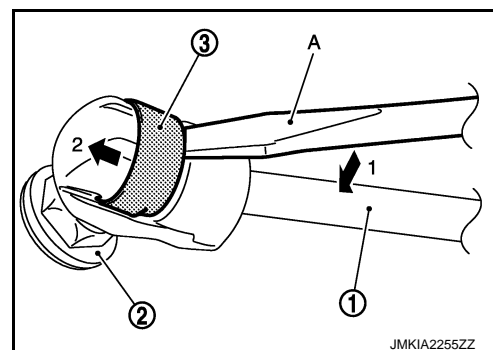
Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- Remove mounting bolts of back door stay (body side).

BACK DOOR

< REMOVAL AND INSTALLATION >

3. Remove the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side) by using a flat-bladed screwdriver (A).
4. Remove back door stay (back door side).



JMKIA2255ZZ

5. Remove mounting bolts of back door stay bracket, and then remove stud ball assembly.

INSTALLATION

Install in the reverse order of removal.

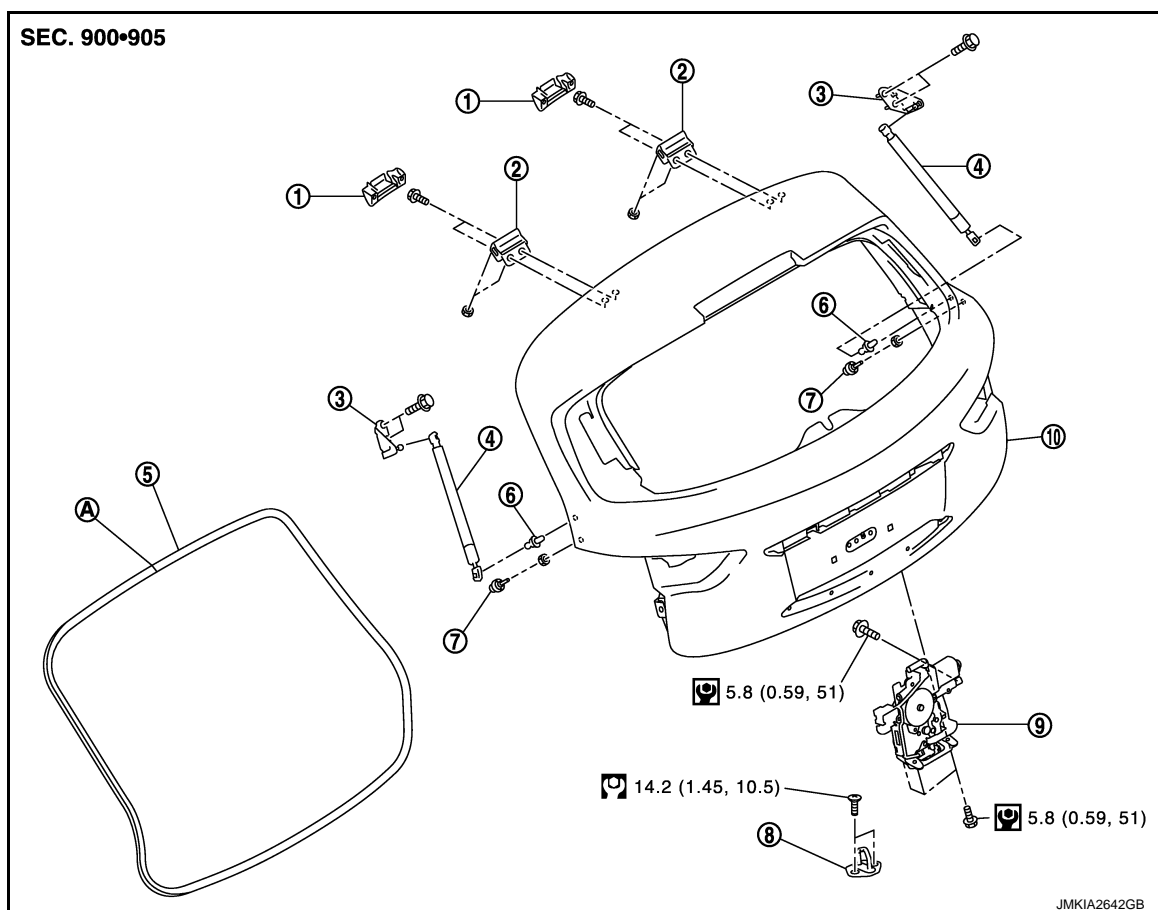
CAUTION:

After installation, check back door open/close operation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:000000003940564



JMKIA2642GB

- | | | |
|----------------------------------|----------------------------|-----------------------------------|
| 1. Back door hinge cover (LH/RH) | 2. Back door hinge (LH/RH) | 3. Back door stay bracket (LH/RH) |
| 4. Back door stay (LH/RH) | 5. Back door weather-strip | 6. Stud ball (LH/RH) |
| 7. Bumper rubber (side) (LH/RH) | 8. Back door striker | 9. Back door lock assembly |
| 10. Back door assembly | | |

A : Center mark

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000003843162

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on weather-strip.

INSTALLATION

- 1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
- 2. Pull weather-strip gently to ensure that there is no loose section.

NOTE:

Check that weather-strip fits tightly in each corner and luggage rear plate.

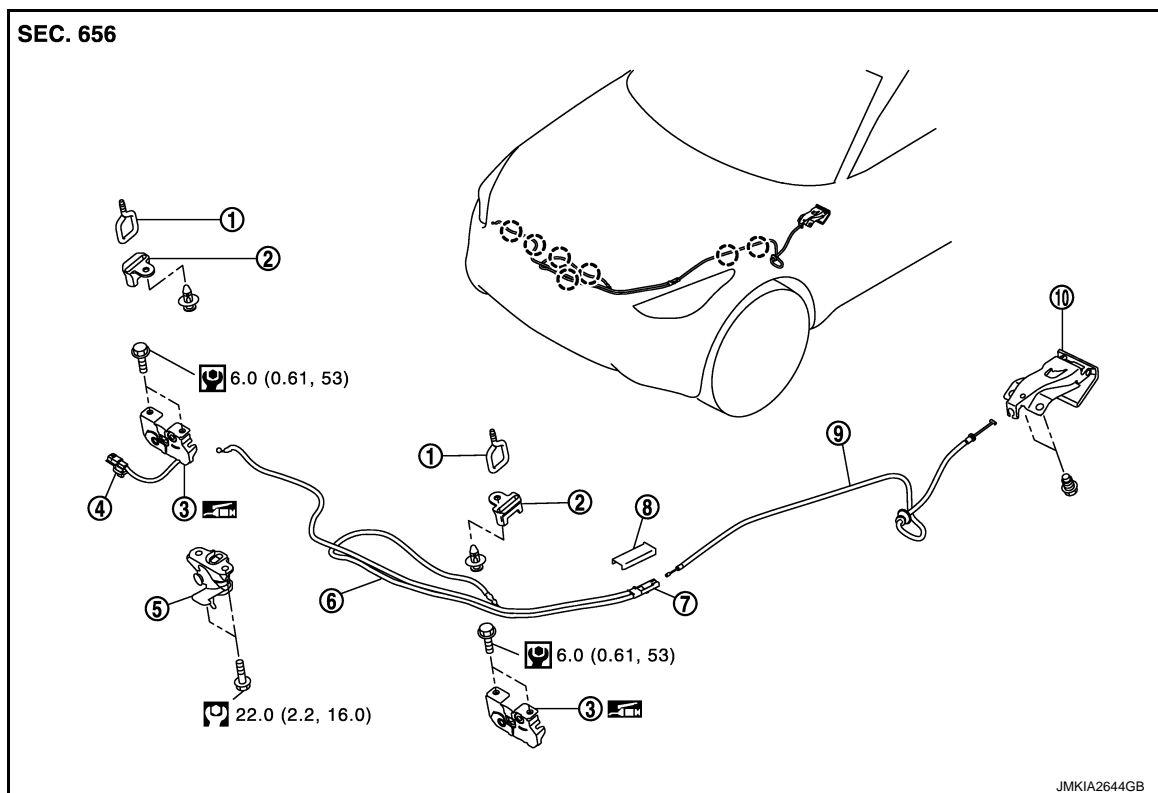
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DLK

HOOD LOCK

Exploded View

INFOID:0000000003843163



- | | | |
|--------------------------------------|--|------------------------------------|
| 1. Hood striker (LH/RH) | 2. Hood lock cover (LH/RH) | 3. Hood lock (LH/RH) |
| 4. Hood switch | 5. Secondary latch | 6. Hood lock control cable (front) |
| 7. Hood lock control cable protector | 8. Hood lock control cable protector cover | 9. Hood lock control cable (rear) |
| 10. Hood lock opener | | |

 : Clip

Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

INFOID:0000000003843164

REMOVAL

CAUTION:

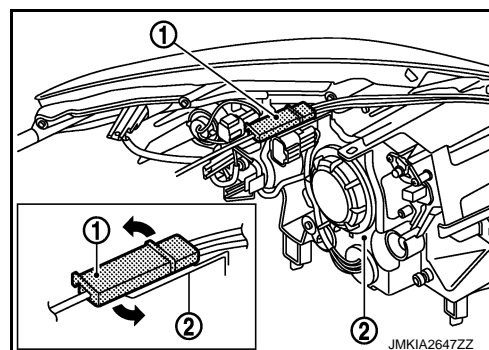
Before removal, confirm how the hood lock control cable is allocated and connected.

1. Remove air duct (inlet). Refer to [EM-29, "Exploded View"](#).
2. Remove engine room cover (LH/RH) (VK50VE models). Refer to [EM-175, "Removal and Installation"](#).
3. Remove air cleaner case assembly (RH). Refer to [EM-29, "Removal and Installation"](#).
4. Disconnect hood switch connector from head lamp bracket (RH).
5. Remove mounting bolts and remove hood lock bracket (LH/RH).
6. Disconnect hood lock control cable (front) from hood lock (LH/RH).
7. Disassembly hood lock from hood lock bracket (LH/RH).
8. Remove fender protector (LH). Refer to [EXT-25, "FENDER PROTECTOR : Removal and Installation"](#).
9. Remove clips of hood seal assembly (side) (LH) at the front side.

HOOD LOCK

< REMOVAL AND INSTALLATION >

10. Rotate hood lock control cable protector (1) toward the arrow direction, then remove it from front combination lamp assembly (2).



11. Remove hood lock control cable protector cover from hood lock control cable protector.
12. Disconnect hood lock control cable (rear) from hood lock control cable protector.
13. Remove mounting bolts and remove hood lock opener.
14. Remove grommet on the lower dash, pull hood lock control cable (rear) toward the passenger compartment.

CAUTION:

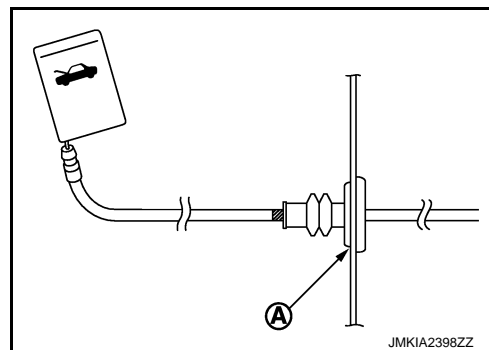
While pulling, never damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Never bend cable too much. Keep the radius 100 mm (3.937 in) or more.**
- **Check cable is not offset from the positioning grommet, and apply the sealant to the grommet (A) properly.**



- **Check hood lock control cable is properly engaged with hood lock.**
- **After installation, perform the fitting adjustment. Refer to [DLK-227, "HOOD ASSEMBLY : Adjustment"](#).**
- **After installation, perform the inspection. Refer to [DLK-257, "Inspection"](#).**

Inspection

INFOID:000000003843165

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 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 less.
4. Install so that static closing force of hood is 94 – 490 N (9.6 – 50.0 kg, 21.1 – 110 lb).

NOTE:

- Exert vertical force on right side and left side of hood lock.
- Do not simultaneously press both sides.

5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

FRONT DOOR LOCK

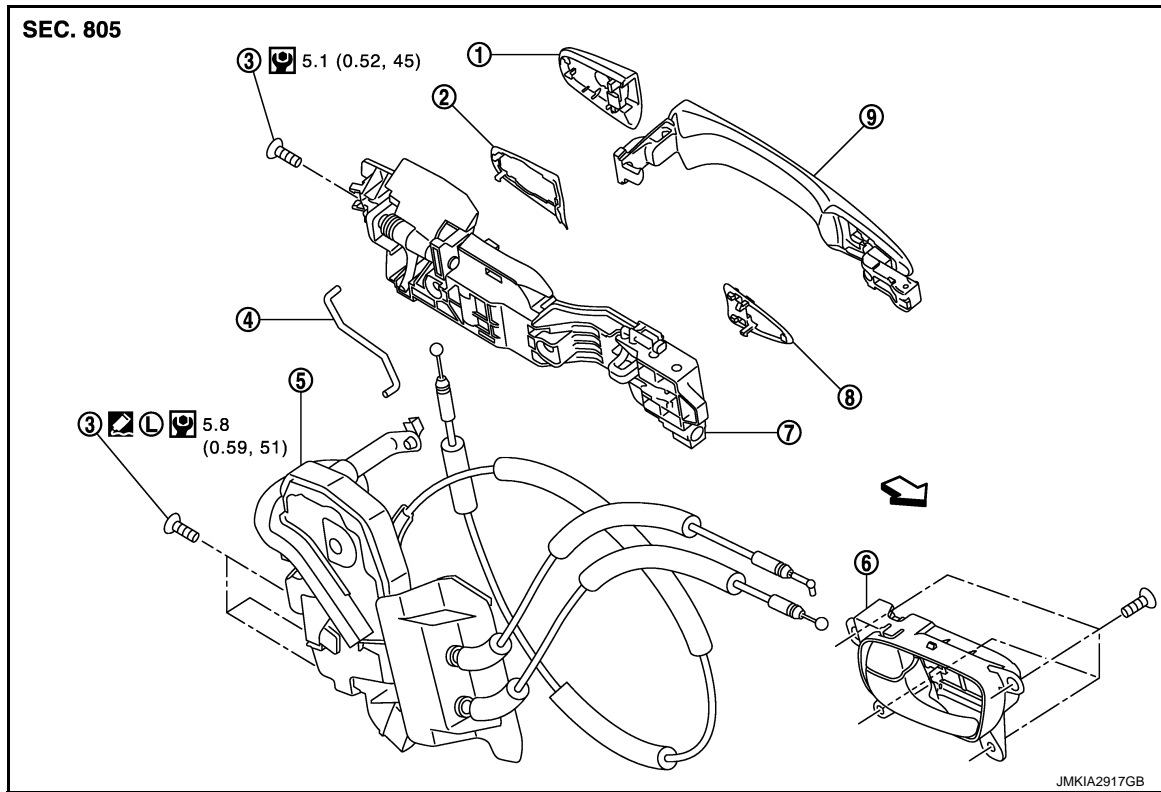
< REMOVAL AND INSTALLATION >

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000003843166



- | | | |
|---|-----------------------|-------------------|
| 1. Door key cylinder assembly (driver side) | 2. Rear gasket | 3. TORX bolt |
| Outside handle escutcheon (passenger side) | | |
| 4. Key rod (driver side) | 5. Door lock assembly | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |

↔ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000003843167

REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Removal and Installation"](#).
2. Remove front door glass. Refer to [GW-18, "Removal and Installation"](#).
3. Remove front door module assembly. Refer to [GW-21, "Removal and Installation"](#).
4. Remove door key cylinder assembly (outside handle escutcheon), outside handle, outside handle bracket, rear gasket and front gasket. Refer to [DLK-260, "OUTSIDE HANDLE : Removal and Installation"](#).
5. Remove door lock assembly TORX bolts.
6. Disconnect door lock actuator connector, and then remove door lock assembly.
7. Remove key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle and outside handle.

FRONT DOOR LOCK

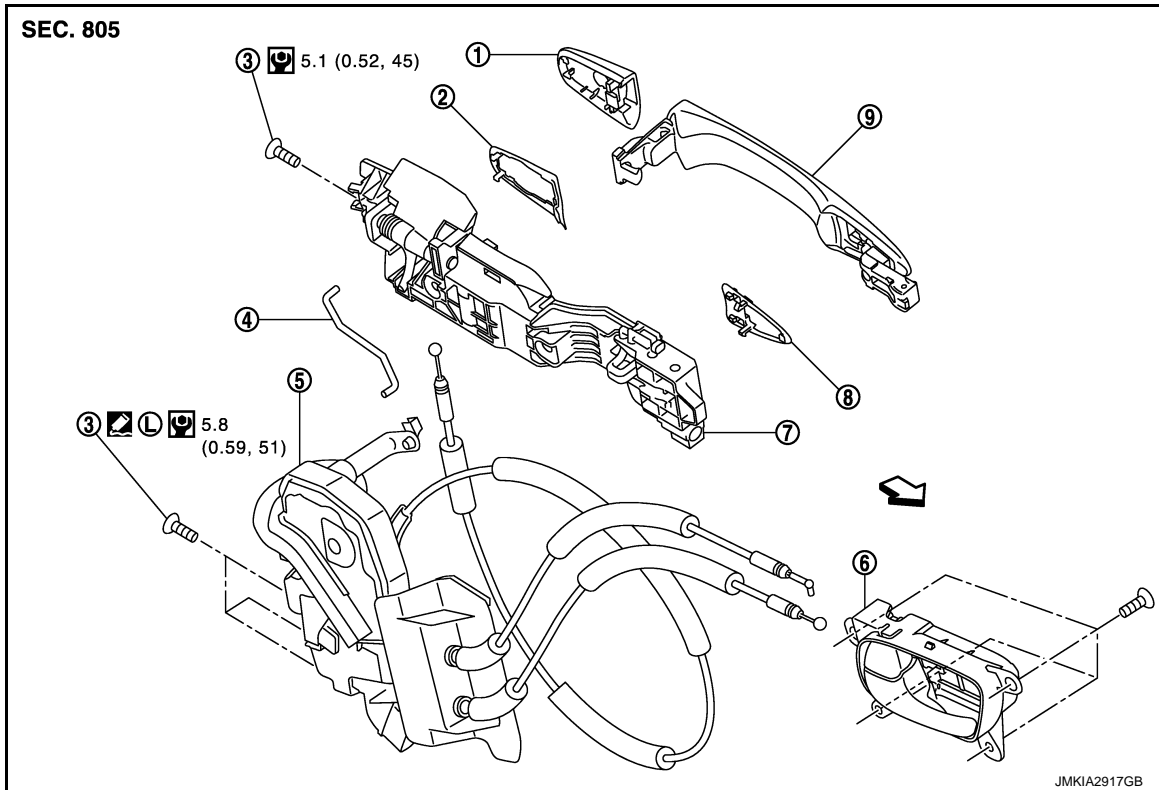
< REMOVAL AND INSTALLATION >

- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door open/close, lock/unlock operation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000003940566



- | | | |
|---|-----------------------|-------------------|
| 1. Door key cylinder assembly (driver side) Outside handle escutcheon (passenger side) | 2. Rear gasket | 3. TORX bolt |
| 4. Key rod (driver side) | 5. Door lock assembly | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |

↶ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000003843169

REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Removal and Installation"](#).
2. Disconnect door lock cables from inside handle.
3. Remove inside handle mounting screws, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle.
- After installation, check door open/close, lock/unlock operation.

OUTSIDE HANDLE

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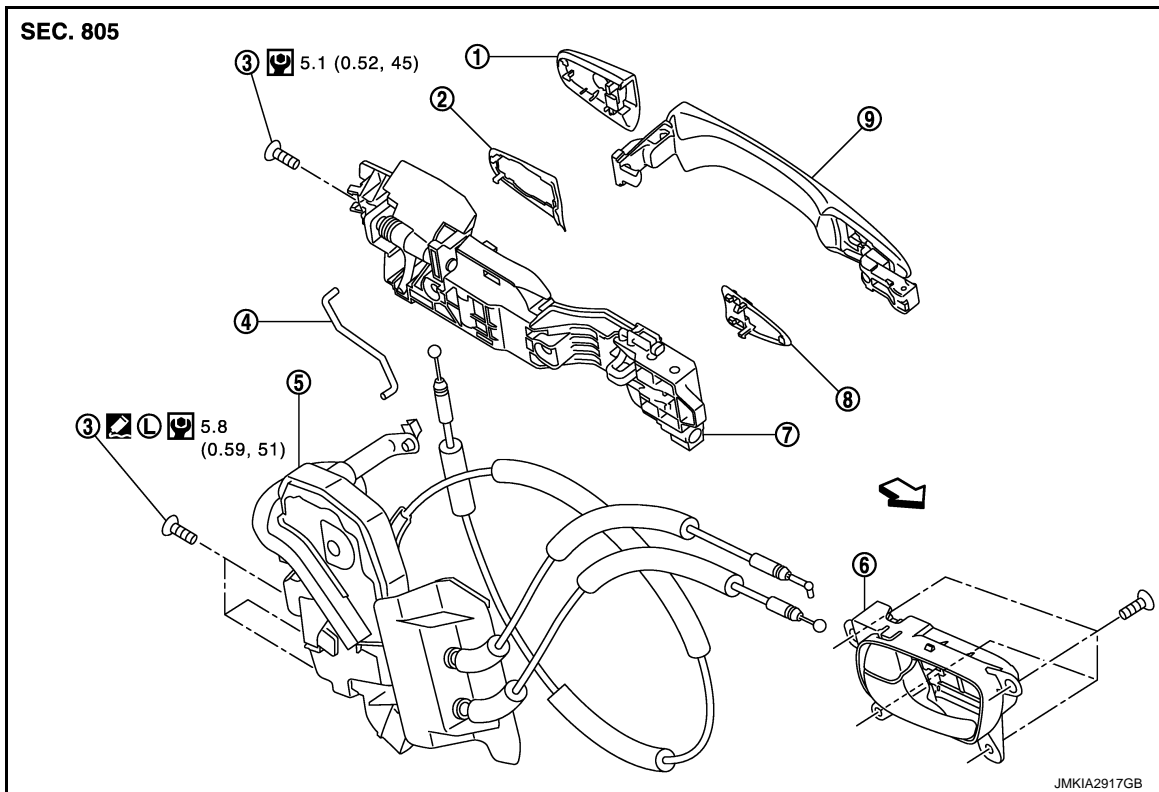
P

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

OUTSIDE HANDLE : Exploded View

INFOID:000000003940567



- | | | |
|---|-----------------------|-------------------|
| 1. Door key cylinder assembly (driver side) | 2. Rear gasket | 3. TORX bolt |
| Outside handle escutcheon (passenger side) | | |
| 4. Key rod (driver side) | 5. Door lock assembly | 6. Inside handle |
| 7. Outside handle bracket | 8. Front gasket | 9. Outside handle |

➡ : Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

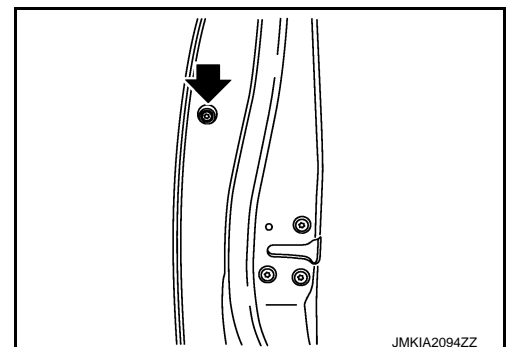
OUTSIDE HANDLE : Removal and Installation

INFOID:000000003843171

REMOVAL

1. Remove front door finisher. Refer to [INT-11. "Removal and Installation"](#).
2. Remove front door glass. Refer to [GW-18. "Removal and Installation"](#).
3. Remove front door module assembly. Refer to [GW-21. "Removal and Installation"](#).
4. Disconnect door antenna and door request switch connector, and then remove harness clamp (models with Intelligent Key system) on outside handle bracket.
5. Remove door side grommet, and loosen TORX bolt from grommet hole.

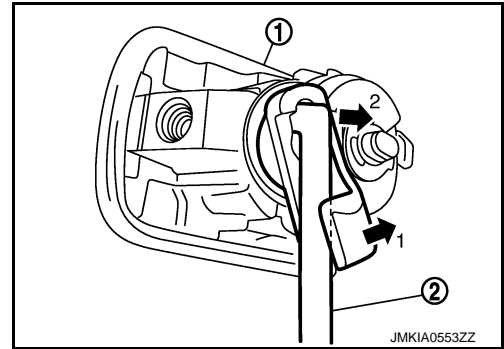
⬅ : TORX bolt



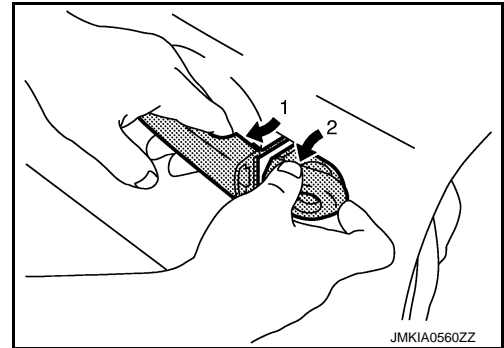
FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

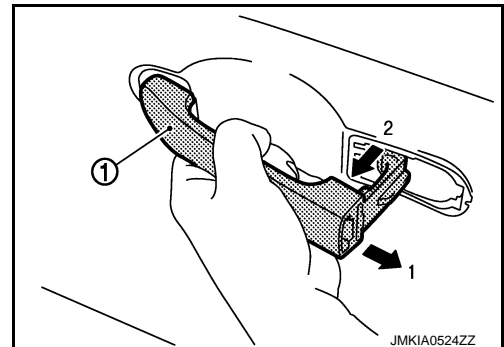
6. Reach in to separate key rod (2) connection [on the door key cylinder assembly (1)] (driver side).



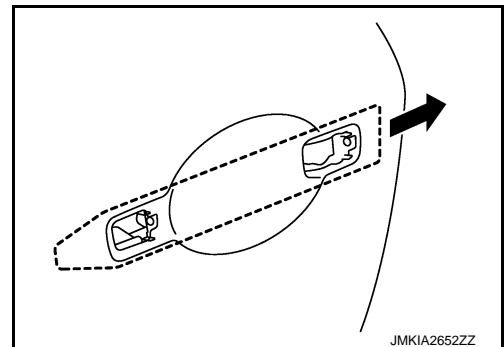
7. While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



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



9. Remove front gasket and rear gasket.
10. Slide toward rear of vehicle to remove outside handle bracket.



11. Disconnect door lock cable from outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When installing key rod, rotate key rod holder until a click is felt.
- Check door lock cable is properly engaged with outside handle bracket.
- After installation, check door open/close, lock/unlock operation.

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REAR DOOR LOCK

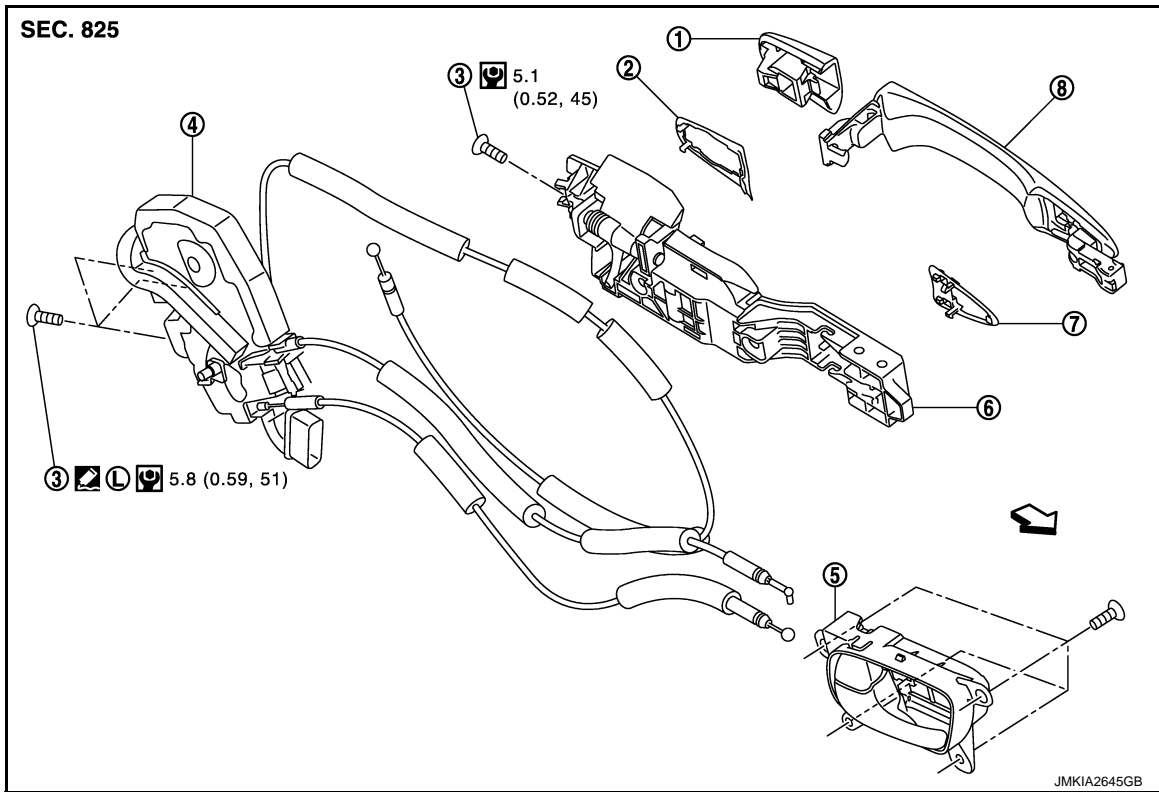
< REMOVAL AND INSTALLATION >

REAR DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000003843172



- | | | |
|------------------------------|-------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. TORX bolt |
| 4. Door lock assembly | 5. Inside handle | 6. Outside handle bracket |
| 7. Front gasket | 8. Outside handle | |

◀ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000003843173

REMOVAL

1. Remove outside handle escutcheon, outside handle, rear gasket and front gasket. Refer to [DLK-264, "OUTSIDE HANDLE : Removal and Installation"](#).
2. Remove rear door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Remove sealing screen, rear door glass and rear door sash. Refer to [GW-24, "Removal and Installation"](#).
4. Remove outside handle bracket. Refer to [DLK-264, "OUTSIDE HANDLE : Exploded View"](#).
5. Remove door lock assembly TORX bolts.
6. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle and outside handle.
- After installation, check door open/close, lock/unlock operation.

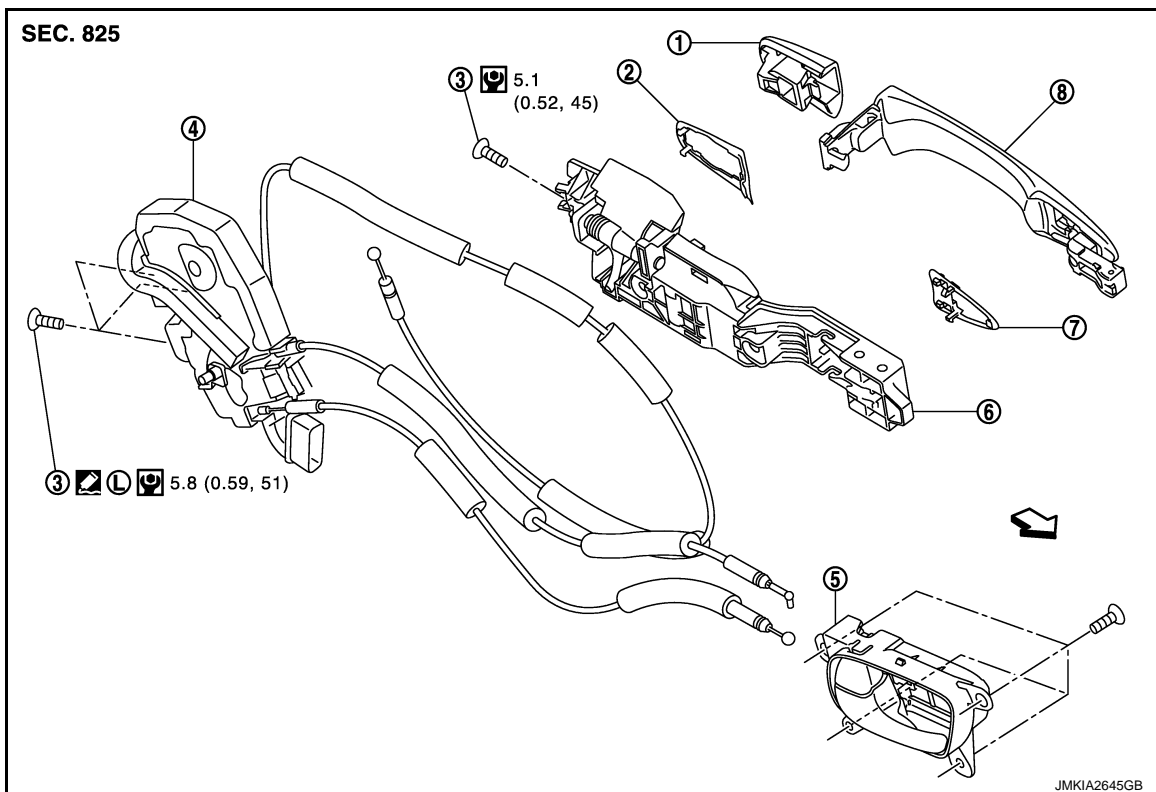
INSIDE HANDLE

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

INSIDE HANDLE : Exploded View

INFOID:000000003940568



- | | | |
|------------------------------|-------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. TORX bolt |
| 4. Door lock assembly | 5. Inside handle | 6. Outside handle bracket |
| 7. Front gasket | 8. Outside handle | |

↶ : Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000003843175

REMOVAL

1. Remove rear door finisher. Refer to [INT-14. "Removal and Installation"](#).
2. Disconnect door lock cables from inside handle.
3. Remove inside handle mounting screws, and then remove inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cables are properly engaged with inside handle.
- After installation, check door open/close, lock/unlock operation.

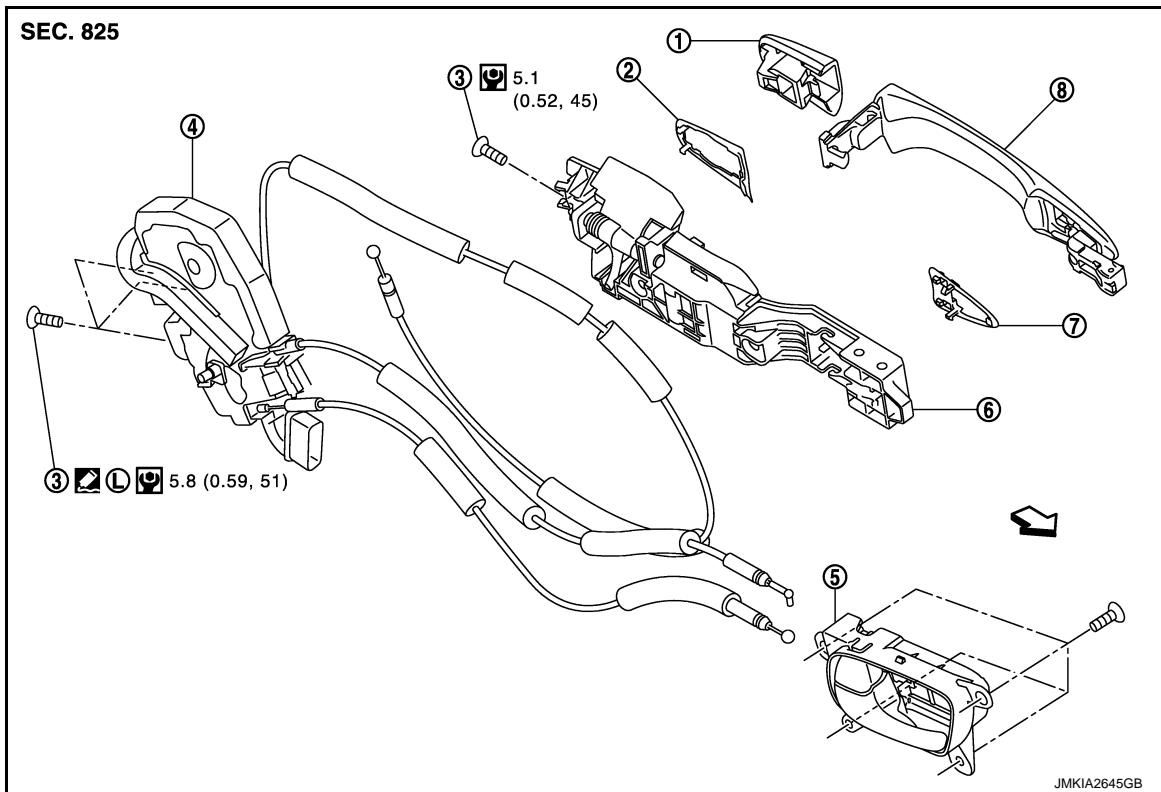
OUTSIDE HANDLE

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

OUTSIDE HANDLE : Exploded View

INFOID:000000003940569



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|------------------------------|-------------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. TORX bolt |
| 4. Door lock assembly | 5. Inside handle | 6. Outside handle bracket |
| 7. Front gasket | 8. Outside handle | |

↙ : Vehicle front

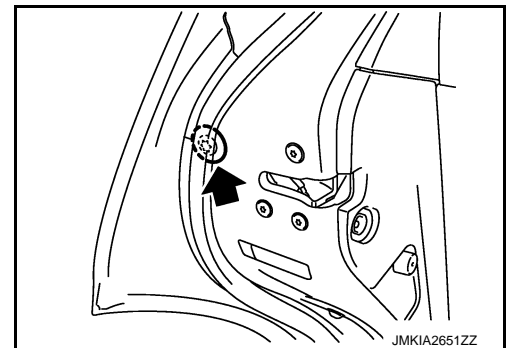
Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000003843177

REMOVAL

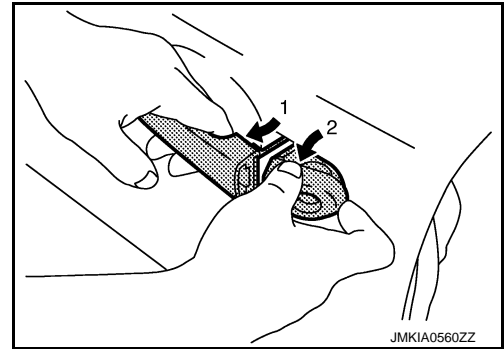
1. Disconnect rear door weather-strip to see door side grommet.
2. Remove door side grommet, and loosen TORX bolt from grommet hole.



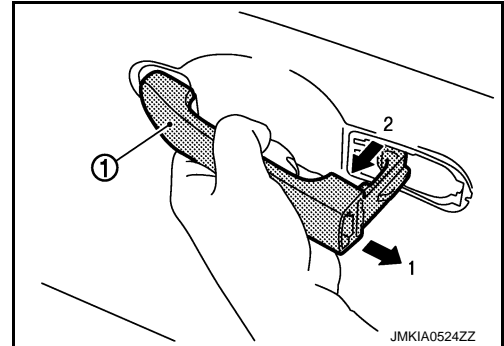
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

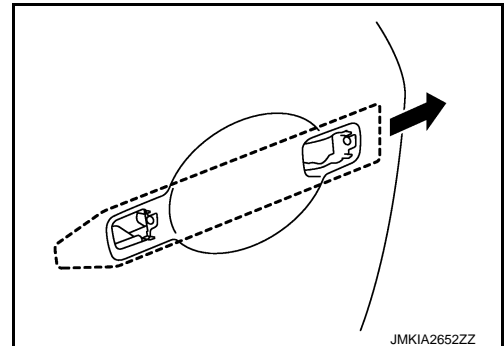
3. While pulling outside handle, remove outside handle escutcheon.



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



5. Remove rear door finisher. Refer to [INT-14, "Removal and Installation"](#).
6. Remove sealing screen. Refer to [GW-24, "Removal and Installation"](#).
7. Fully close rear door glass.
8. Remove front gasket and rear gasket.
9. Slide toward rear of vehicle to remove outside handle bracket.



10. Disconnect door lock cable from outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check door lock cable is properly engaged with outside handle bracket.
- After installation, check door open/close, lock/unlock operation.

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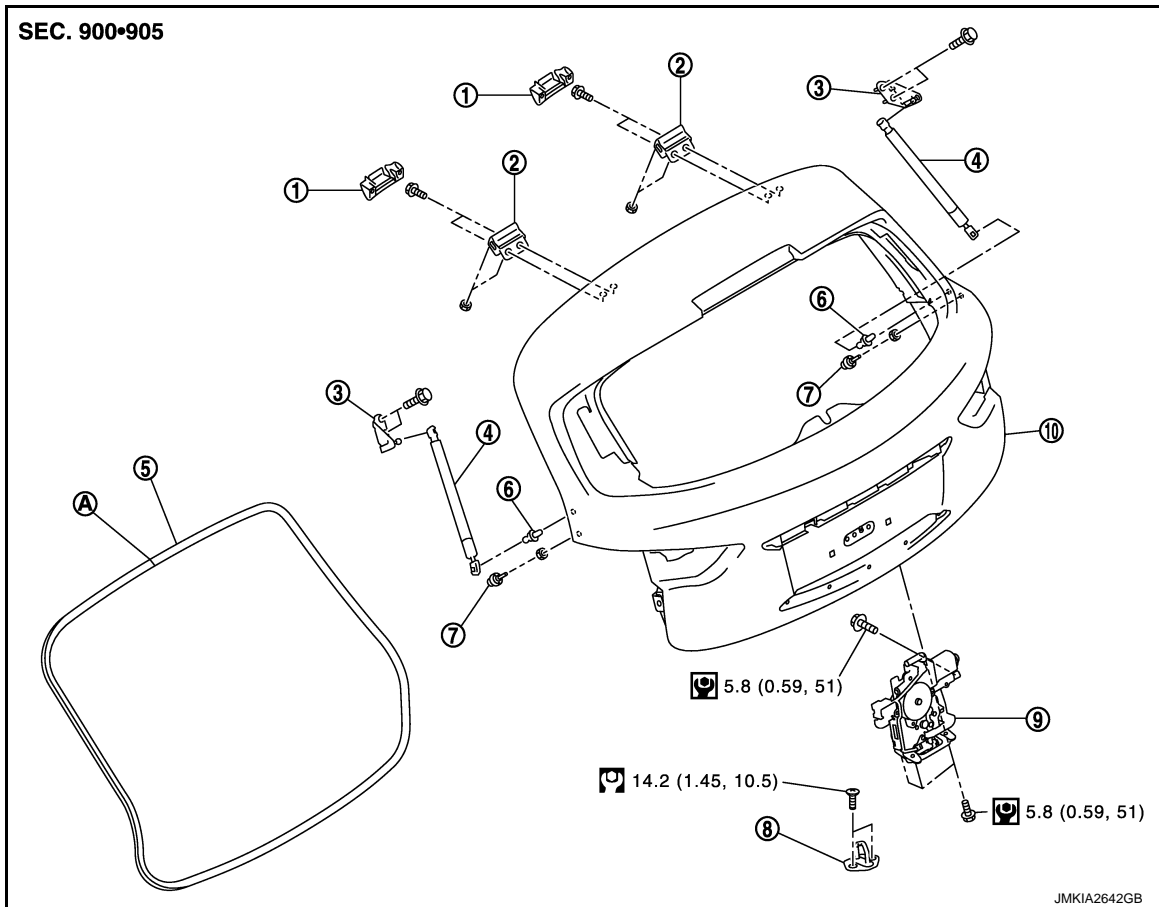
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

BACK DOOR LOCK

Exploded View

INFOID:000000003940565



- | | | |
|----------------------------------|----------------------------|-----------------------------------|
| 1. Back door hinge cover (LH/RH) | 2. Back door hinge (LH/RH) | 3. Back door stay bracket (LH/RH) |
| 4. Back door stay (LH/RH) | 5. Back door weather-strip | 6. Stud ball (LH/RH) |
| 7. Bumper rubber (side) (LH/RH) | 8. Back door striker | 9. Back door lock assembly |
| 10. Back door assembly | | |

A : Center mark

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003843179

REMOVAL

1. Remove back door finisher inner. Refer to [INT-32, "Removal and Installation"](#).
2. Disconnect back door lock assembly connectors.
3. Remove back door lock mounting bolts, and then remove back door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

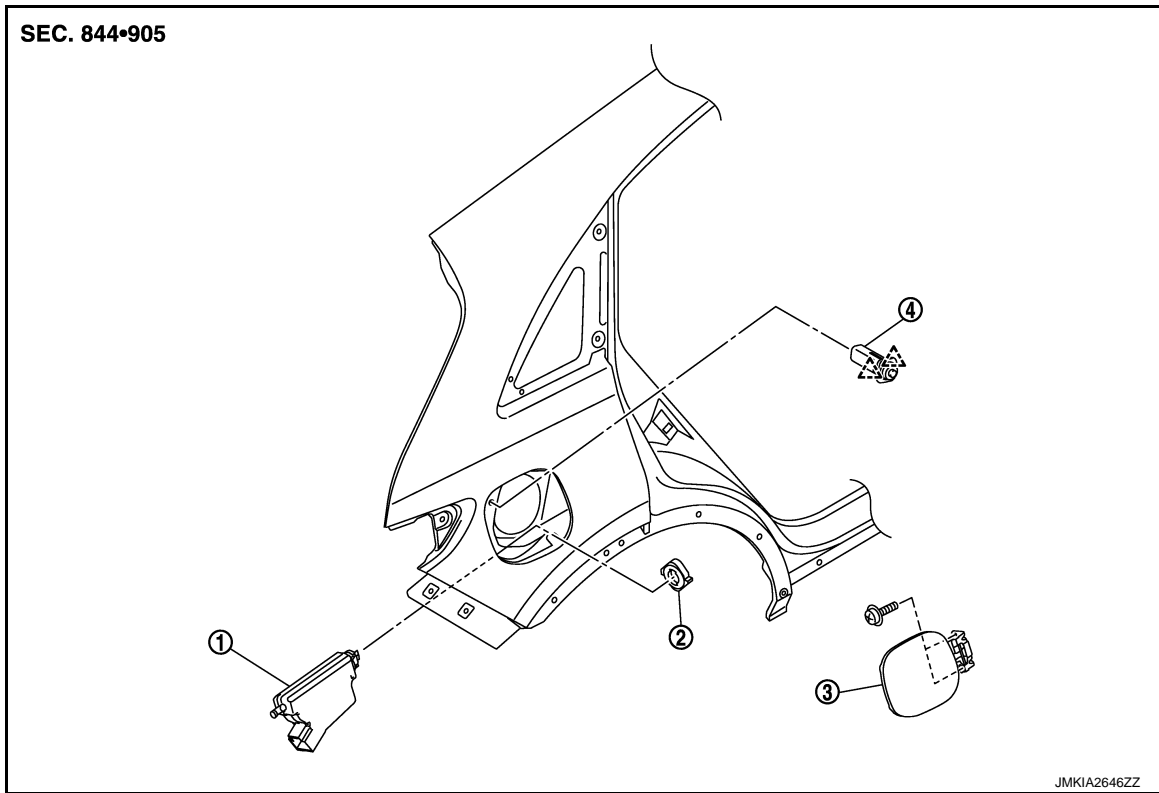
FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

FUEL FILLER LID OPENER

Exploded View

INFOID:000000003843180



- 1. Fuel filler lid lock actuator
- 2. Lock nut
- 3. Fuel filler lid assembly
- 4. Lock & cable assembly

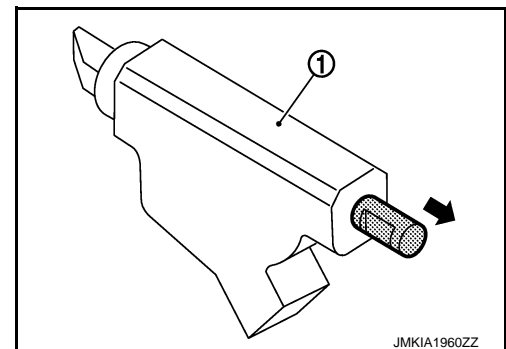
△ : Pawl

Removal and Installation

INFOID:000000003843181

NOTE:

When fuel filler lid lock actuator (1) is a defective operation, pull the rod to open fuel filler lid.



REMOVAL

1. Remove luggage side finisher lower (RH). Refer to [INT-29, "Removal and Installation"](#).
2. Pull and remove lock & cable assembly forward, while pushing the pawls.
3. Rotate lock nut counterclockwise, and then remove lock nut.
4. Push fuel filler lid lock actuator behind the vehicle, while pushing the pawl.
5. Disconnect harness connector and remove fuel filler lid lock actuator.
6. Remove mounting screws, and then remove fuel filler lid.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, apply touch-up paint (the body color) onto the head of fuel filler lid mounting screws.

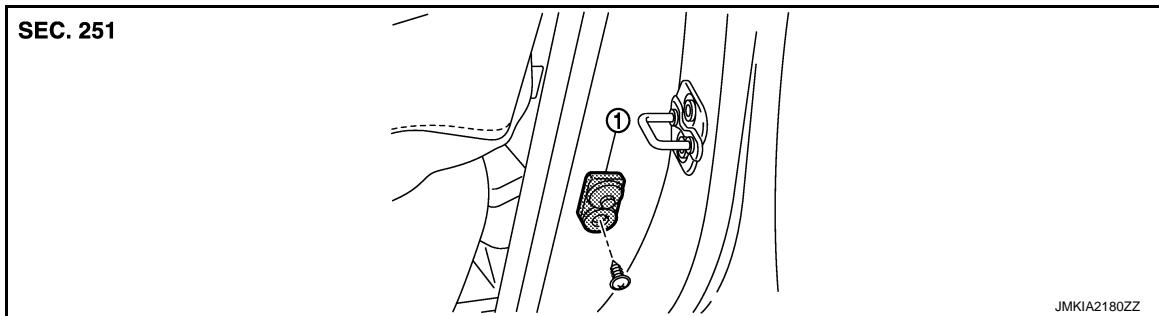
DOOR SWITCH

< REMOVAL AND INSTALLATION >

DOOR SWITCH

Exploded View

INFOID:000000003843182



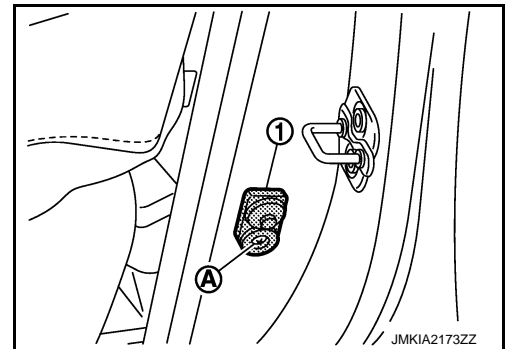
1. Door switch

Removal and Installation

INFOID:000000003843183

REMOVAL

1. Remove the door switch mounting screw (A), and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

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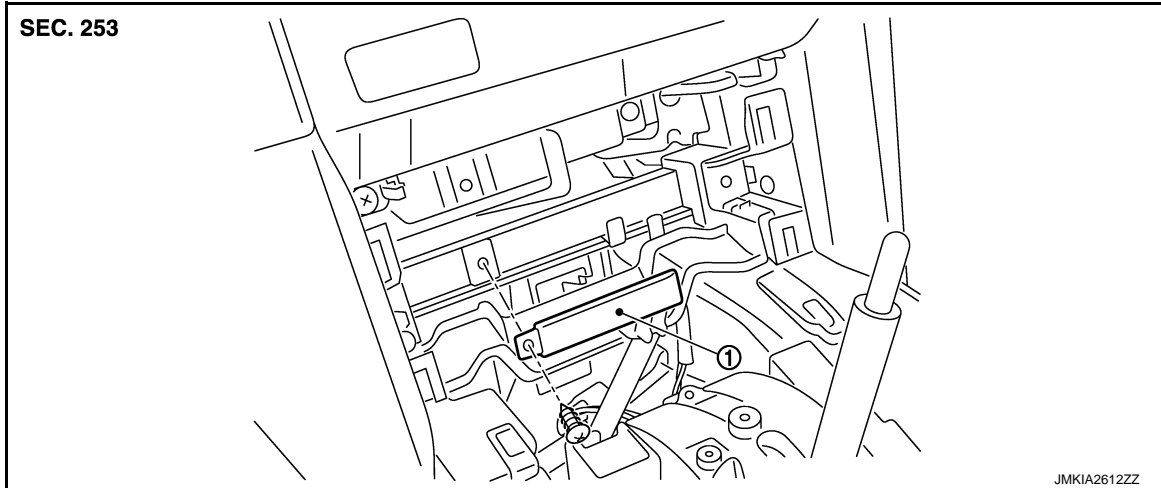
INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:000000003843184



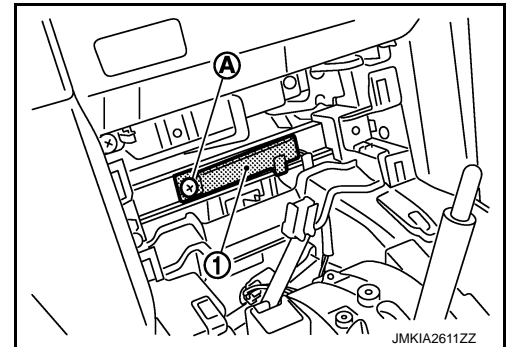
1. Inside key antenna (instrument center)

INSTRUMENT CENTER : Removal and Installation

INFOID:000000003843185

REMOVAL

1. Remove the console finisher assembly. Refer to [IP-22. "Removal and Installation"](#).
2. Remove the key antenna mounting screw (instrument center) (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

CONSOLE

CONSOLE : Exploded View

INFOID:000000003843186

Refer to [IP-22. "Exploded View"](#).

CONSOLE : Removal and Installation

INFOID:000000003843187

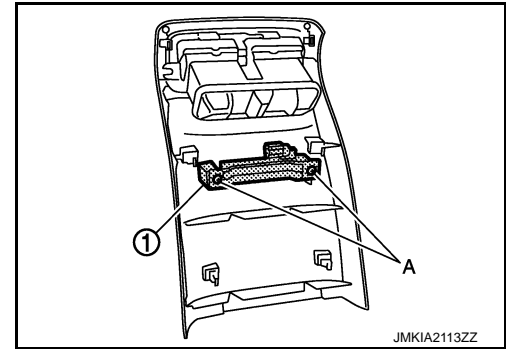
REMOVAL

1. Remove the console pocket and rear finisher. Refer to [IP-22. "Removal and Installation"](#).

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

2. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1).



INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM : Exploded View

INFOID:000000003843188

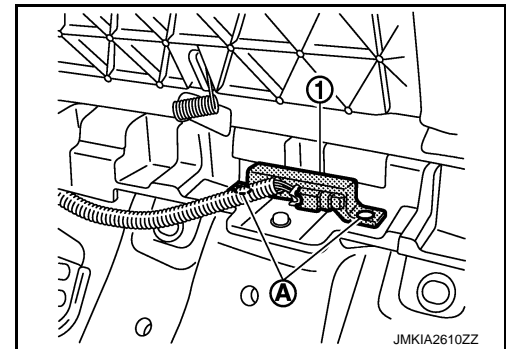
Refer to [INT-28. "Exploded View"](#).

LUGGAGE ROOM : Removal and Installation

INFOID:000000003843189

REMOVAL

1. Remove the luggage floor finisher front. Refer to [INT-29. "Removal and Installation"](#).
2. Remove the inside key antenna (luggage room) mounting clip (A), and then remove inside key antenna (luggage room) (1).



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000003843190

Refer to [DLK-260, "OUTSIDE HANDLE : Exploded View"](#).

DRIVER SIDE : Removal and Installation

INFOID:000000003843191

REMOVAL

Remove the front outside handle LH. Refer to [DLK-260, "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:000000003843192

Refer to [DLK-260, "OUTSIDE HANDLE : Exploded View"](#).

PASSENGER SIDE : Removal and Installation

INFOID:000000003843193

REMOVAL

Remove the front outside handle RH. Refer to [DLK-260, "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

BACK DOOR

BACK DOOR : Exploded View

INFOID:000000003843194

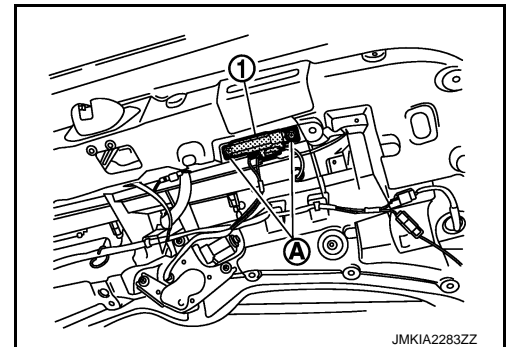
Refer to [INT-32, "Exploded View"](#).

BACK DOOR : Removal and Installation

INFOID:000000003843195

REMOVAL

1. Remove the back door finisher inner. Refer to [EXT-49, "Removal and Installation"](#).
2. Remove the outside key antenna (back door) mounting bolts (A), and then remove outside key antenna (back door) (1).



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INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:000000003843196

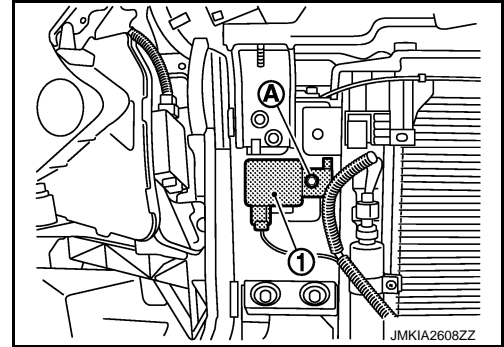
Refer to [EXT-12, "Exploded View"](#).

Removal and Installation

INFOID:000000003843197

REMOVAL

1. Remove the fender protector. Refer to [EXT-25, "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION

Install in the reverse order of removal.

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DLK

BACK DOOR CONTROL UNIT

< REMOVAL AND INSTALLATION >

BACK DOOR CONTROL UNIT

Exploded View

INFOID:000000003970734

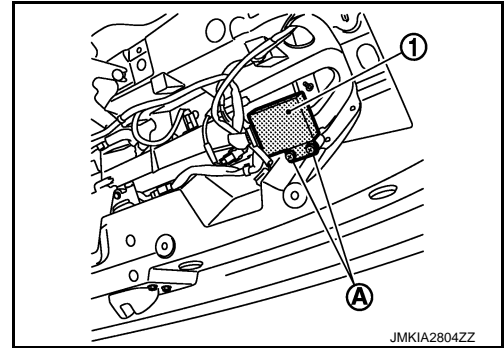
Refer to [DLK-266, "Exploded View"](#).

Removal and Installation

INFOID:000000003970735

REMOVAL

1. Remove the back door finisher inner. Refer to [EXT-49, "Removal and Installation"](#).
2. Remove the back door control unit mounting bolts (A), and then remove back door control unit (1).



INSTALLATION

Install in the reverse order of removal.

KEY SLOT

< REMOVAL AND INSTALLATION >

KEY SLOT

Exploded View

INFOID:000000003843198

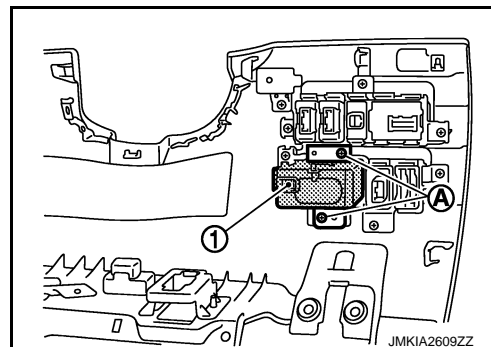
Refer to [IP-11, "Exploded View"](#).

Removal and Installation

INFOID:000000003843199

REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-12, "Removal and Installation"](#).
2. Disconnect the key slot connector.
3. Remove the mounting screw (A), and then remove the key slot (1).



INSTALLATION

Install in the reverse order of removal.

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DLK

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:000000003843200

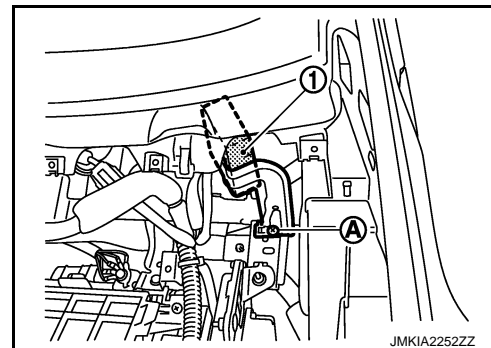
Refer to [IP-11, "Exploded View"](#).

Removal and Installation

INFOID:000000003843201

REMOVAL

1. Remove the instrument lower panel RH. Refer to [IP-12, "Removal and Installation"](#).
2. Remove the remote keyless entry receiver mounting screw (A), and then remove remote keyless entry receiver (1).



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY BATTERY

Removal and Installation

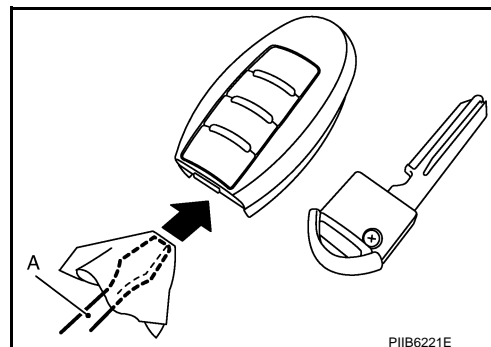
INFOID:000000003843202

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

2. Insert a flat-bladed screwdriver (A) wrapped in a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Never touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



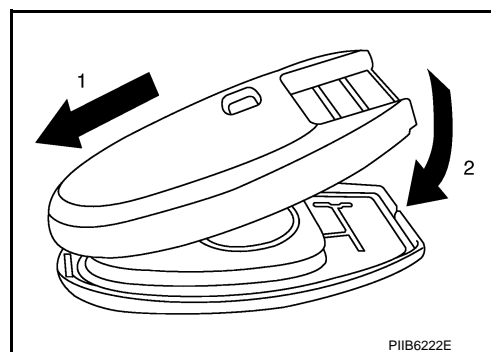
3. Replace the battery with new one.

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 matter off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



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