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DOOR LOCK : Removal and Installation 486

INSIDE HANDLE **488**
INSIDE HANDLE : Exploded View 489
INSIDE HANDLE : Removal and Installation 489

OUTSIDE HANDLE **489**
OUTSIDE HANDLE : Exploded View 490
OUTSIDE HANDLE : Removal and Installation ... 490

REAR DOOR LOCK **493**

DOOR LOCK **493**
DOOR LOCK : Exploded View 493
DOOR LOCK : Removal and Installation 493

INSIDE HANDLE **494**
INSIDE HANDLE : Exploded View 495
INSIDE HANDLE : Removal and Installation 495

OUTSIDE HANDLE **495**
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OUTSIDE HANDLE : Removal and Installation ... 496

BACK DOOR LOCK **498**

DOOR LOCK **498**
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DOOR LOCK : Removal and Installation 498

DOOR SWITCH **499**
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BACK DOOR OPENER SWITCH **500**
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KEYFOB BATTERY **501**
Exploded View 501
Removal and Installation 501

REMOTE KEYLESS ENTRY RECEIVER **502**
Exploded View 502
Removal and Installation 502

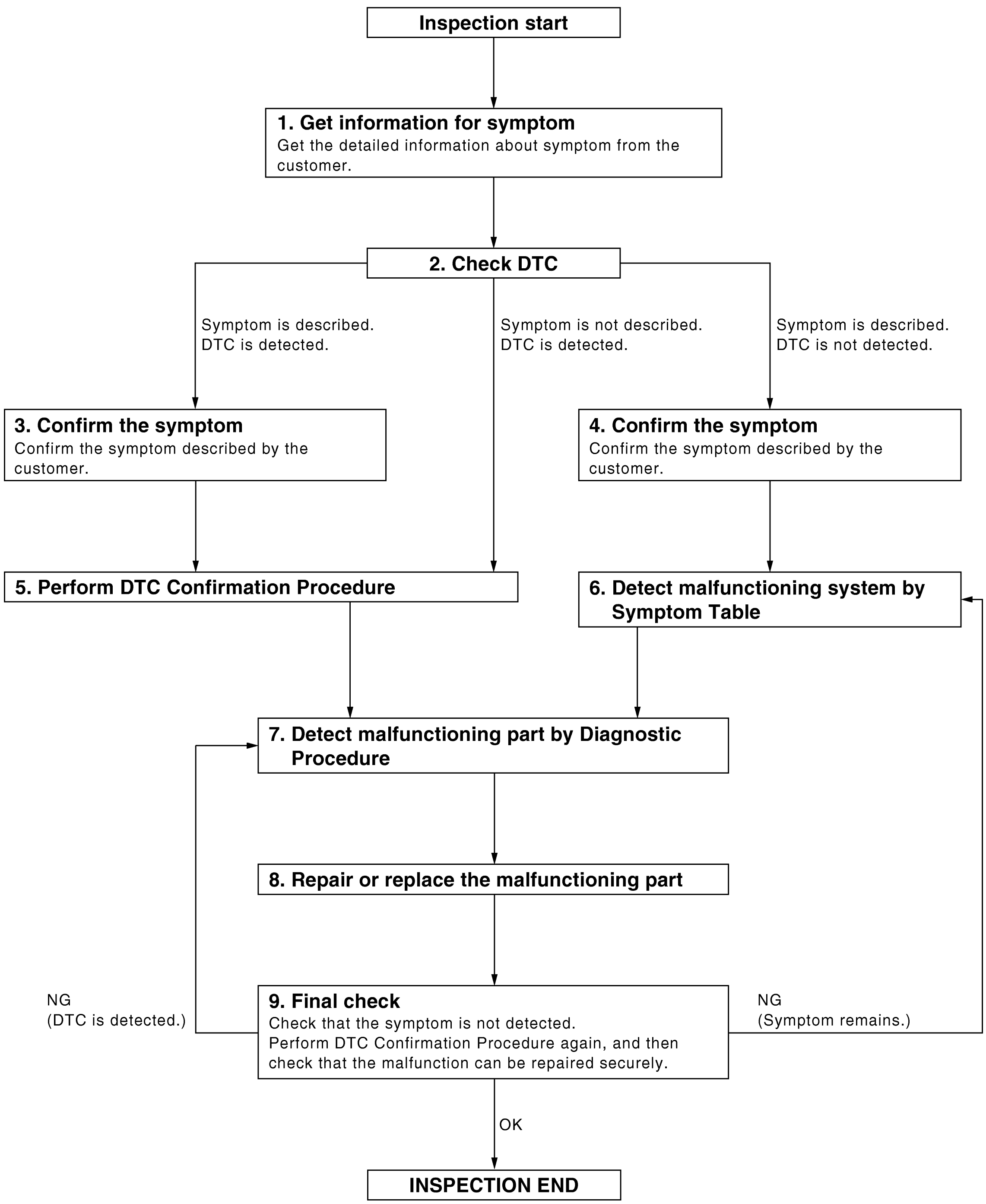
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000001729251

OVERALL SEQUENCE



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DETAILED FLOW

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 Intelligent Key unit and BCM.
2. Perform the following procedure if DTC is displayed.
- 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.
If two or more DTCs are detected, refer to DLK-146, "DTC Inspection Priority Chart" (Intelligent Key unit), DLK-186, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 7.
NO >> Refer to GI-41, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.
NOTE:
The Diagnostic Procedure is described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

>> GO TO 8.

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 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.
When symptom was described by the customer, refer to the confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7.
NO (Symptom remains)>>GO TO 6.
YES >> **INSPECTION END**

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000003214852

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000003214853

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

ECM RE-COMMUNICATING FUNCTION

ECM RE-COMMUNICATING FUNCTION : Description

INFOID:0000000003214854

Performing following procedure can automatically perform re-communication of ECM and BCM, but only when the ECM has been replaced with a new one (*1).
*1: New one means a virgin ECM which has never been energized on-board.
(In this step, initialization procedure by CONSULT-III is not necessary)
NOTE:
- **When registering new Key IDs or replacing the ECM that is not brand new, refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.**
- **If multiple keys are attached to the key holder, separate them before work.**
- **Distinguish keys with unregistered key ID from those with registered ID.**

ECM RE-COMMUNICATING FUNCTION : Special Repair Requirement

INFOID:0000000003214855

1.PERFORM ECM RE-COMMUNICATING FUNCTION

1. Install ECM.
2. Insert the registered Intelligent Key (*2), turn ignition switch to “ON”.
   *2: To perform this step, use the key that has been used before performing ECM replacement.
3. Maintain ignition switch in “ON” position for at least 5 seconds.
4. Turn ignition switch to “OFF”.
5. Start engine.

Can engine be started?

YES >> Procedure is completed.
NO >> Initialize control unit. Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.

FUNCTION DIAGNOSIS

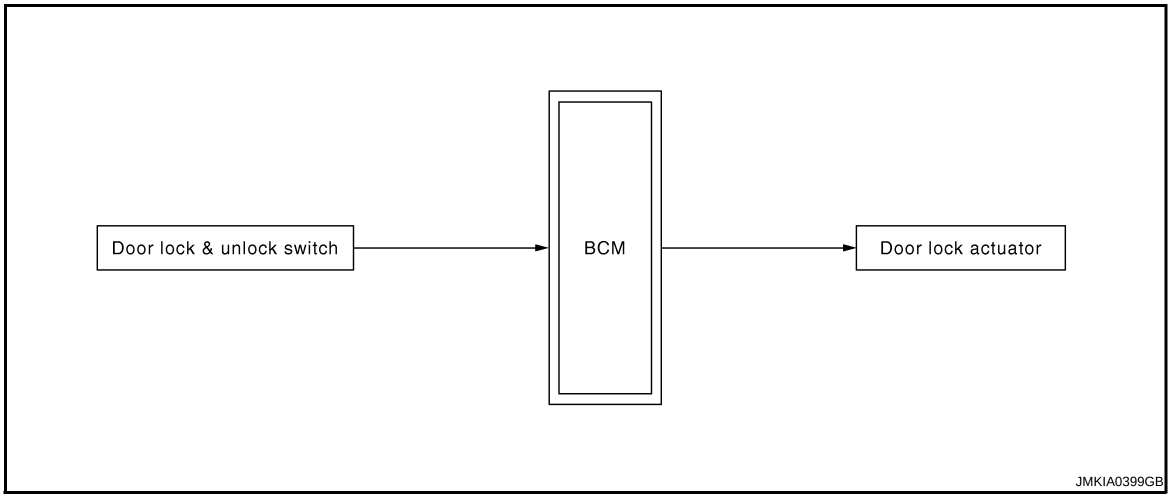
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : System Diagram

INFOID:0000000001848705

DOOR LOCK AND UNLOCK SWITCH OPERATION



DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:0000000001848706

Switch	Input/output signal to BCM	BCM function	Actuator
Power window main switch (Door lock and unlock switch)	Door lock/unlock signal	Door lock/unlock control	Door lock actuator
Front power window switch (Door lock and unlock switch) (Passenger side)			
Door key cylinder switch			

DOOR LOCK FUNCTION

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

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

Functions Available by Operating the Key Cylinder Switch on Driver Door

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

Selective Unlock Operation

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

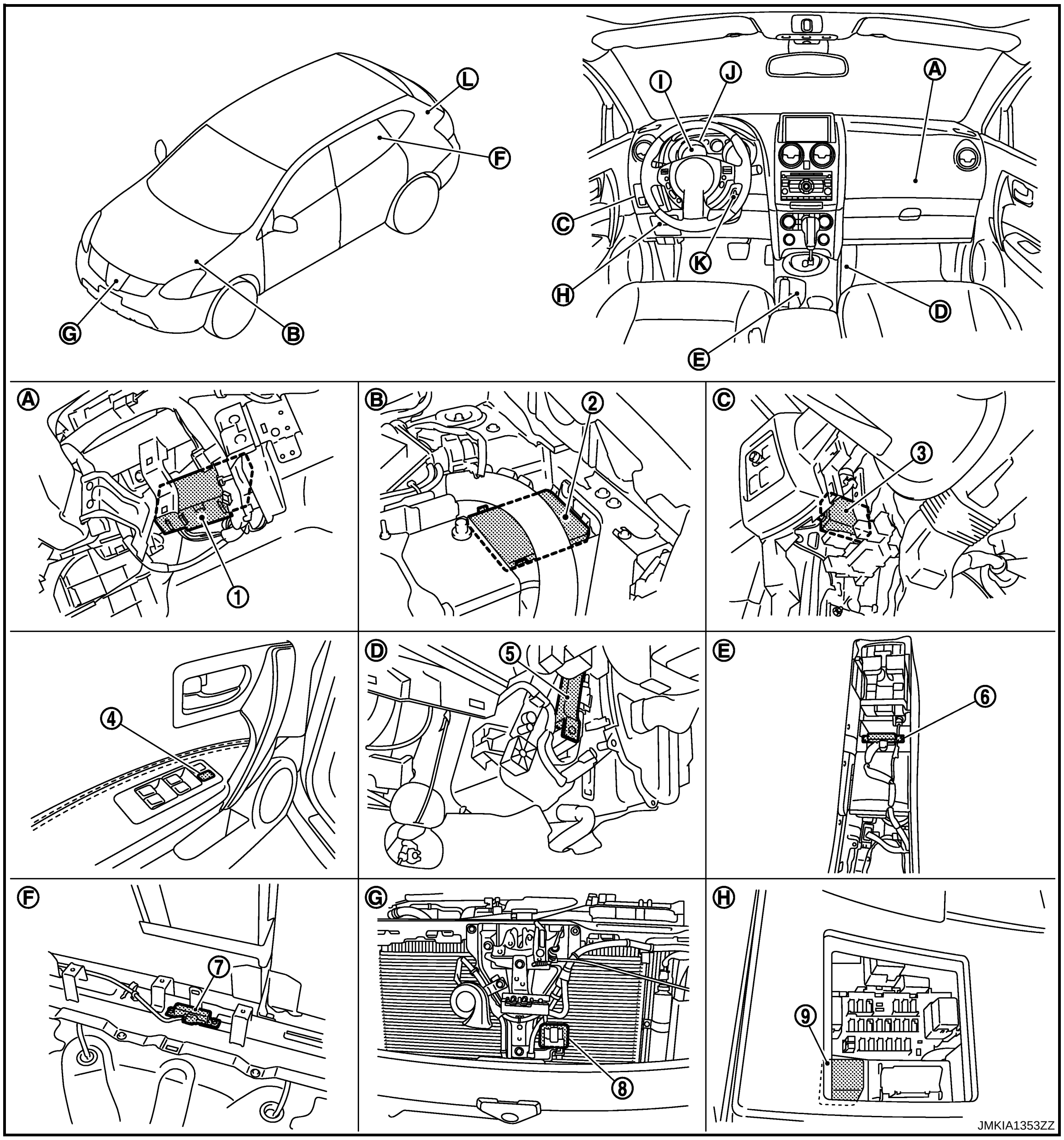
Select unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to DLK-43, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Key Reminder System

Refer to DLK-27, "KEY REMINDER : System Description".

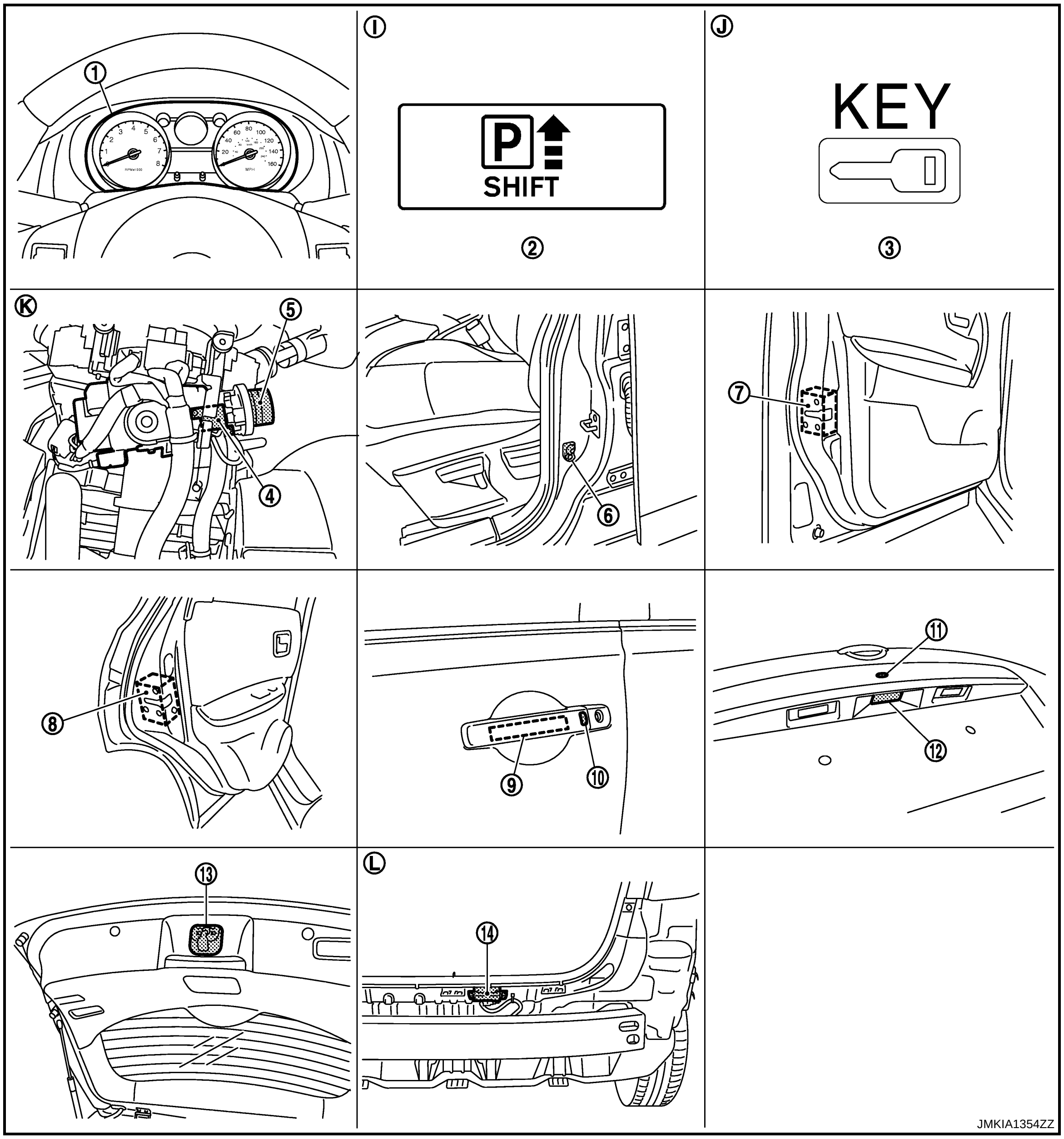
DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:0000000001848708



1. BCM M65, M66, M67
2. IPDM E/R E11, E13, E15
3. Intelligent key unit M40
4. Power window main switch (door lock and unlock switch) D5, D6
5. Inside key antenna (instrument center) M56
6. Inside key antenna (console) M252
7. Inside key antenna (rear seat) B45
8. Intelligent key warning buzzer E25
9. Selective unlock relay M90

A. Over the glove box
B. Engine room LH
C. Over the instrument lower panel (driver side)
D. View with lower instrument cover remove
E. View with center console removed
F. View with luggage floor spacer (LH) removed
G. View with front bumper removed
H. View with fuse box lid removed



1. Combination meter M34
2. P-SHIFT warning lamp
3. Key warning lamp
4. Ignition knob switch, key switch and key lock solenoid (key switch) M25
5. Ignition knob switch, key switch and key lock solenoid (ignition knob switch) M25
6. Front door switch (driver side) B34
7. Front door lock assembly (driver side) D9
8. Rear door lock actuator LH D85
9. Outside handle assembly (outside key antenna) (driver side) D13
10. Outside handle assembly (front door request switch) (driver side) D13
11. Back door opener switch assembly (request switch) D197
12. Back door opener switch assembly (opener switch) D197
13. Back door lock assembly D190
14. Out side key antenna (back door) B83

I. Inside the combination meter
J. Inside the combination meter
K. view with steering column cover removed
L. View with rear bumper fascia removed

DOOR LOCK AND UNLOCK SWITCH : Component Description

INFOID:0000000001848709

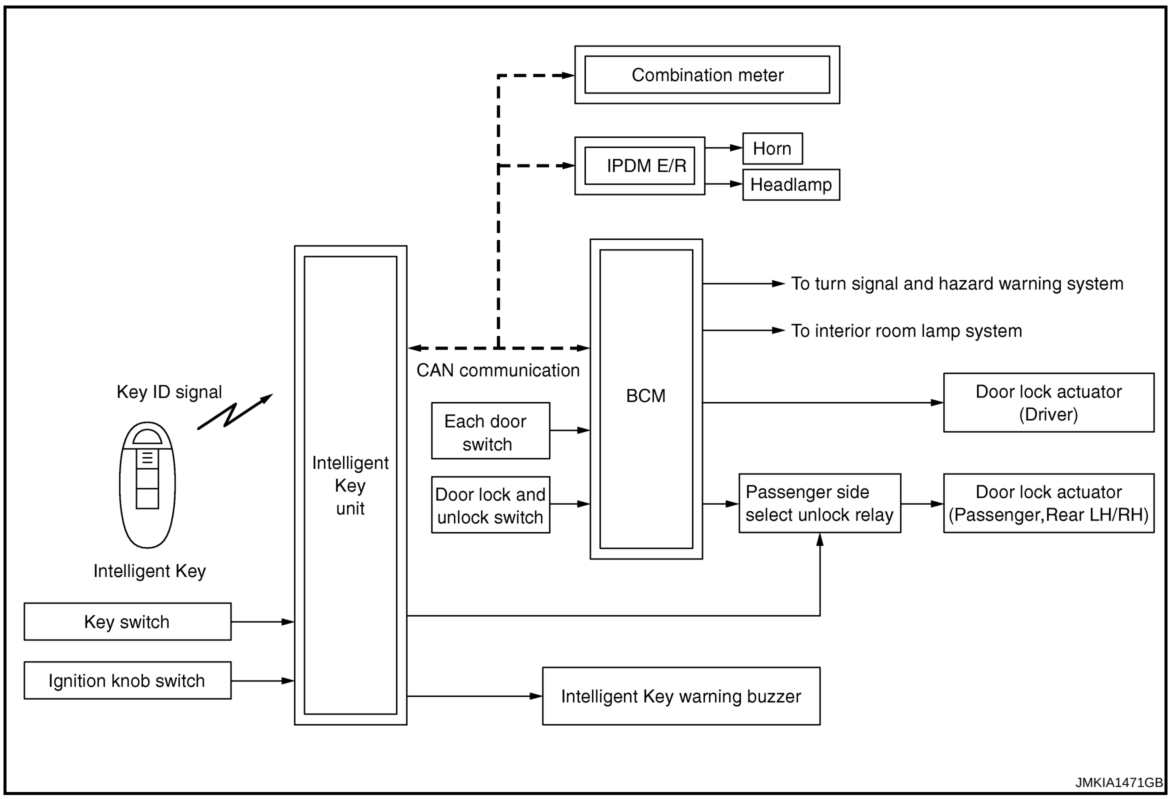
Item	Function
BCM	Controls the door lock and unlock function.
Door switch	Detects door state (open or closed).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM.
Door lock actuator	Receives door lock and unlock signal from BCM and locks and unlocks each door.

INTELLIGENT KEY

INTELLIGENT KEY : System Diagram

INFOID:0000000001729258

INTELLIGENT KEY OPERATION



INTELLIGENT KEY : System Description

INFOID:0000000001729259

INTELLIGENT KEY OPERATION

The Intelligent Key has the same functions as the remote keyless entry system. Therefore, it can be used in the same manner as the keyfob by operating the door lock/unlock button.
This function can be set to OFF with CONSULT-III. For the setting information, refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK FUNCTION

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

OPERATION CONDITION

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

OPERATION AREA

To ensure that the Intelligent Key works effectively, use within a 100 cm range of each door, however the operable range may differ according to surroundings.

SELECTIVE UNLOCK FUNCTION

When an LOCK signal is transmitted from Intelligent Key, all doors will be locked.
When an UNLOCK signal is transmitted from Intelligent Key once, driver's door will be unlocked.
Then, if an UNLOCK signal is transmitted from Intelligent Key again within 5 seconds, all other door will be unlocked.

HAZARD AND HORN REMINDER

When the doors are locked or unlocked by remote control of Intelligent Key, Intelligent Key unit sends hazard and horn request signal to BCM via CAN communication line.
BCM flashes hazard warning lamps as a reminder and sends horn chirp signal to IPDM E/R. IPDM E/R sounds horn as a reminder.
The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating function of hazard and horn reminder

	C mode		S mode	
Remote control of Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamp flash	Twice	Once	Twice	—
Horn sound	Once	—	—	—

Hazard and horn reminders do not operate if any door switch is ON (door is OPEN) and ignition switch is ON.

How to change hazard and horn reminder mode

With CONSULT-III

Hazard and horn reminder can be changed using “HORN WITH KEYLESS LOCK” and “HAZARD ANSWER BACK” mode in “WORK SUPPORT”. Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Without CONSULT-III

Refer to Owner's Manual for instructions.

AUTO DOOR LOCK OPERATION

Auto lock function signal is sent for operation when any of the following signals are not sent within 60 seconds after the unlock signal is sent from the Intelligent key button.

- when door switch is turned ON for open
- when the key switch is turned ON
- when the lock signal is sent from the Intelligent key button

Auto door lock mode can be changed using “AUTO LOCK SET” mode in “WORK SUPPORT”.
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

PANIC ALARM FUNCTION

When ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), BCM receives PANIC ALARM signal from Intelligent Key.
BCM turns on and off headlamp intermittently and transmits theft warning horn signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.
The headlamp flashes and the horn sounds intermittently.
The alarm automatically turns off:

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

Panic alarm function mode can be changed by “PANIC ALARM SET” mode in “WORK SUPPORT”. Refer to DLK-44, "PANIC ALARM : CONSULT-III Function (BCM - PANIC ALARM)".

ROOM LAMP ILLUMINATION OPERATION

When the following conditions are met:

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

Intelligent Key system turns ON interior lamp by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to INL-5, "System Description".

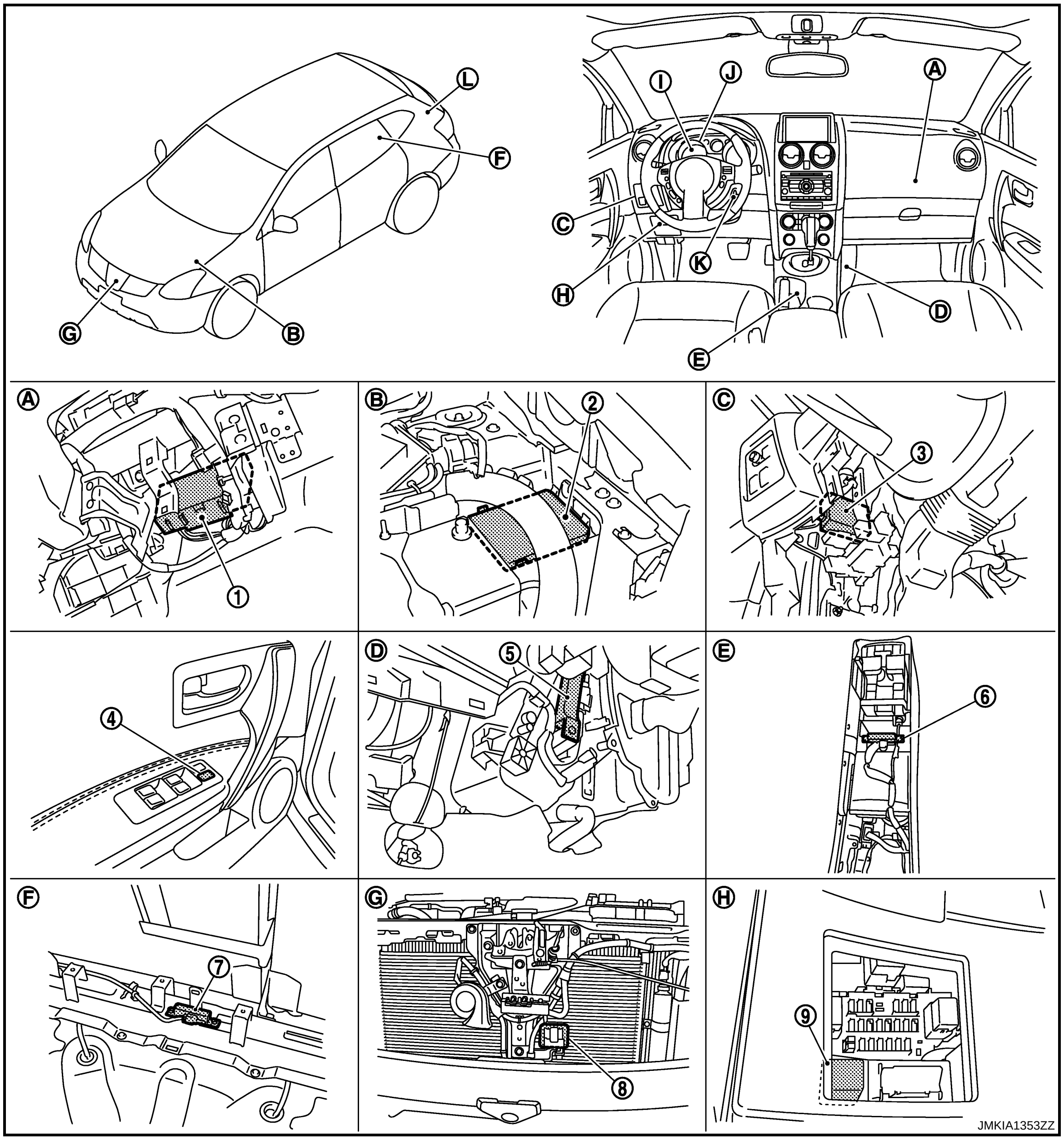
ID CODE ENTRY PROCEDURE

Intelligent KeyID setup WITH CONSULT-III

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

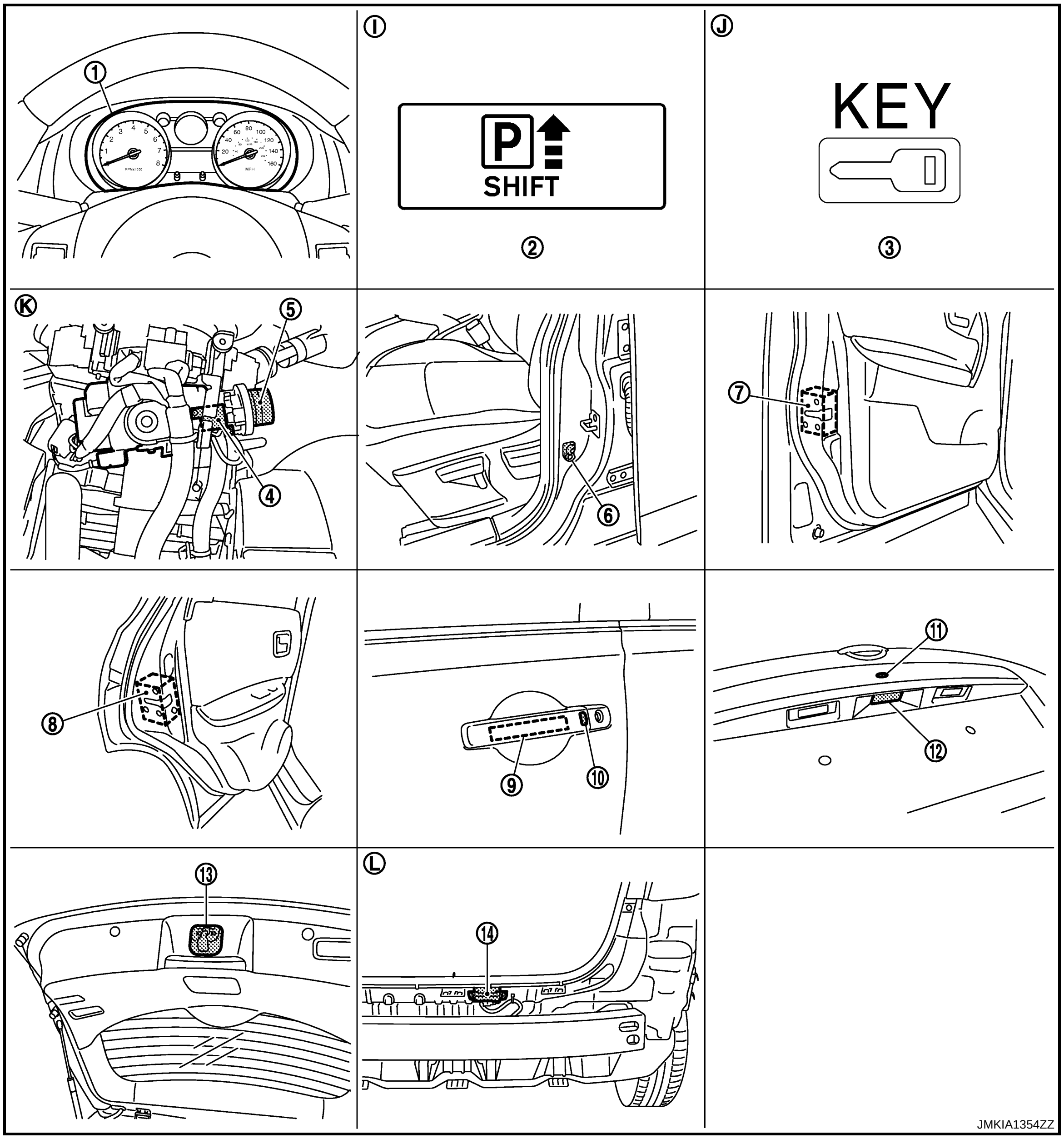
INTELLIGENT KEY : Component Parts Location

INFOID:0000000001888293



1. BCM M65, M66, M67	2. IPDM E/R E11, E13, E15	3. Intelligent key unit M40
4. Power window main switch (door lock and unlock switch) D5, D6	5. Inside key antenna (instrument center) M56	6. Inside key antenna (console) M252
7. Inside key antenna (rear seat) B45	8. Intelligent key warning buzzer E25	9. Selective unlock relay M90

A. Over the glove box	B. Engine room LH	C. Over the instrument lower panel (driver side)
D. View with lower instrument cover remove	E. View with center console removed	F. View with luggage floor spacer (LH) removed
G. View with front bumper removed	H. View with fuse box lid removed	



1. Combination meter M34	2. P-SHIFT warning lamp	3. Key warning lamp
4. Ignition knob switch, key switch and key lock solenoid (key switch) M25	5. Ignition knob switch, key switch and key lock solenoid (ignition knob switch) M25	6. Front door switch (driver side) B34
7. Front door lock assembly (driver side) D9	8. Rear door lock actuator LH D85	9. Outside handle assembly (outside key antenna) (driver side) D13
10. Outside handle assembly (front door request switch) (driver side) D13	11. Back door opener switch assembly (request switch) D197	12. Back door opener switch assembly (opener switch) D197
13. Back door lock assembly D190	14. Out side key antenna (back door) B83	
I. Inside the combination meter	J. Inside the combination meter	K. view with steering column cover removed
L. View with rear bumper fascia removed		

INTELLIGENT KEY : Component Description

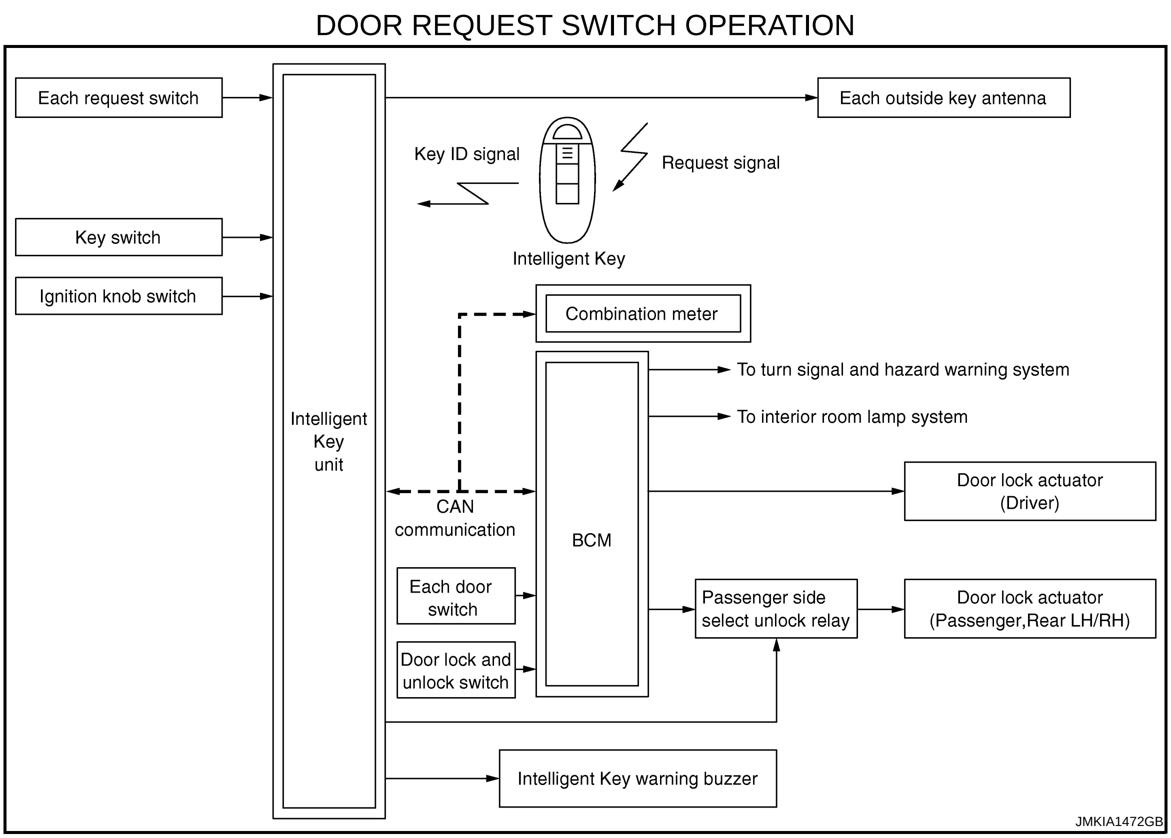
INFOID:0000000001729261

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

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : System Diagram

INFOID:0000000001729262



DOOR REQUEST SWITCH : System Description

INFOID:0000000001729263

DOOR REQUEST SWITCH OPERATION

Only when pressing the request switch, it is possible to lock and unlock the door by carrying the Intelligent Key. The Intelligent Key system is a system that makes it possible to lock and unlock the door by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (Intelligent Key unit).
This function can be set to OFF with CONSULT-III. For the setting information, refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

CAUTION:
The driver should always carry the Intelligent Key

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK

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

OPERATION CONDITION

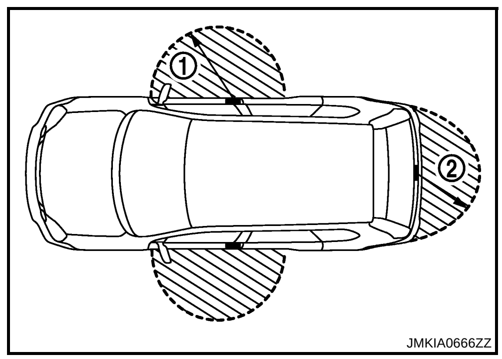
If the following conditions are not satisfied, door lock and unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition
Lock operation	• All doors are closed • Key switch is OFF (Key is removed from ignition key cylinder.) • Ignition knob is OFF or LOCK position • Any Intelligent Key is not inside the vehicle • Intelligent Key is within outside key antenna detection area
Unlock Operation	• Key switch is OFF (Key is removed from ignition key cylinder.) • Ignition knob is OFF or LOCK position • Intelligent Key is not inside 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 and 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 will be locked.
When an UNLOCK signal is sent from door request switch (driver side or passenger side) once, driver's door will be unlocked.
Then, if an UNLOCK signal is sent from door request switch (driver side and passenger side) again within 5 seconds, all other door will be unlocked.

HAZARD AND BUZZER REMINDER FUNCTION

During lock, unlock, or trunk opening operation by each request switch, the hazard warning lamps and Intelligent Key warning buzzer will blink or honk as a reminder.
When doors are locked, unlocked by each request switch, IPDM E/R honks Intelligent Key warning buzzer as a reminder and transmits hazard request signal to BCM via CAN communication line.
BCM flashes hazard warning lamps as a reminder.

Operating function of hazard and buzzer reminder

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

How to change hazard and buzzer reminder mode
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

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

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

Auto door lock mode can be changed by “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

ROOM LAMP OPERATION

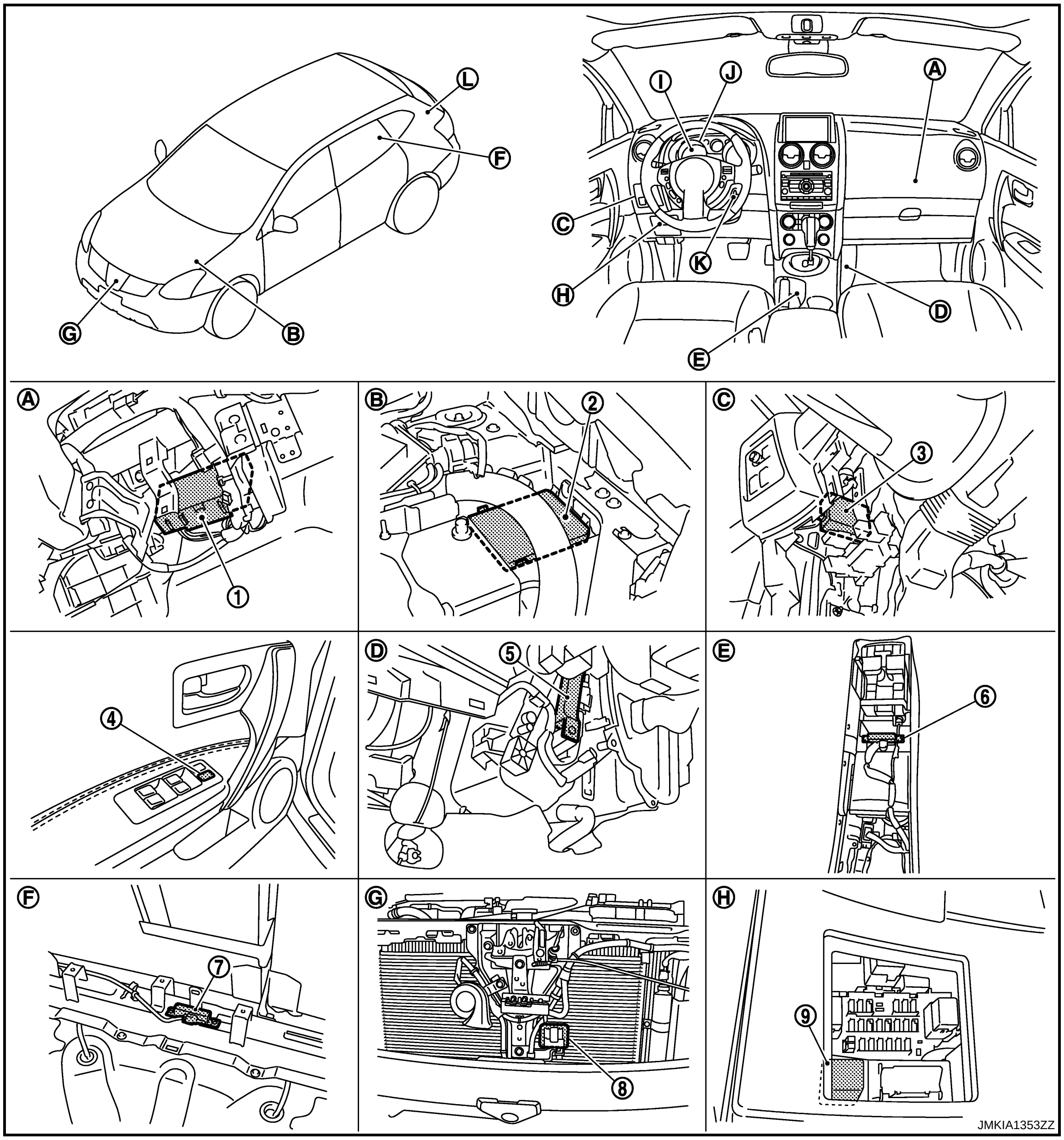
When the following conditions are met:

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

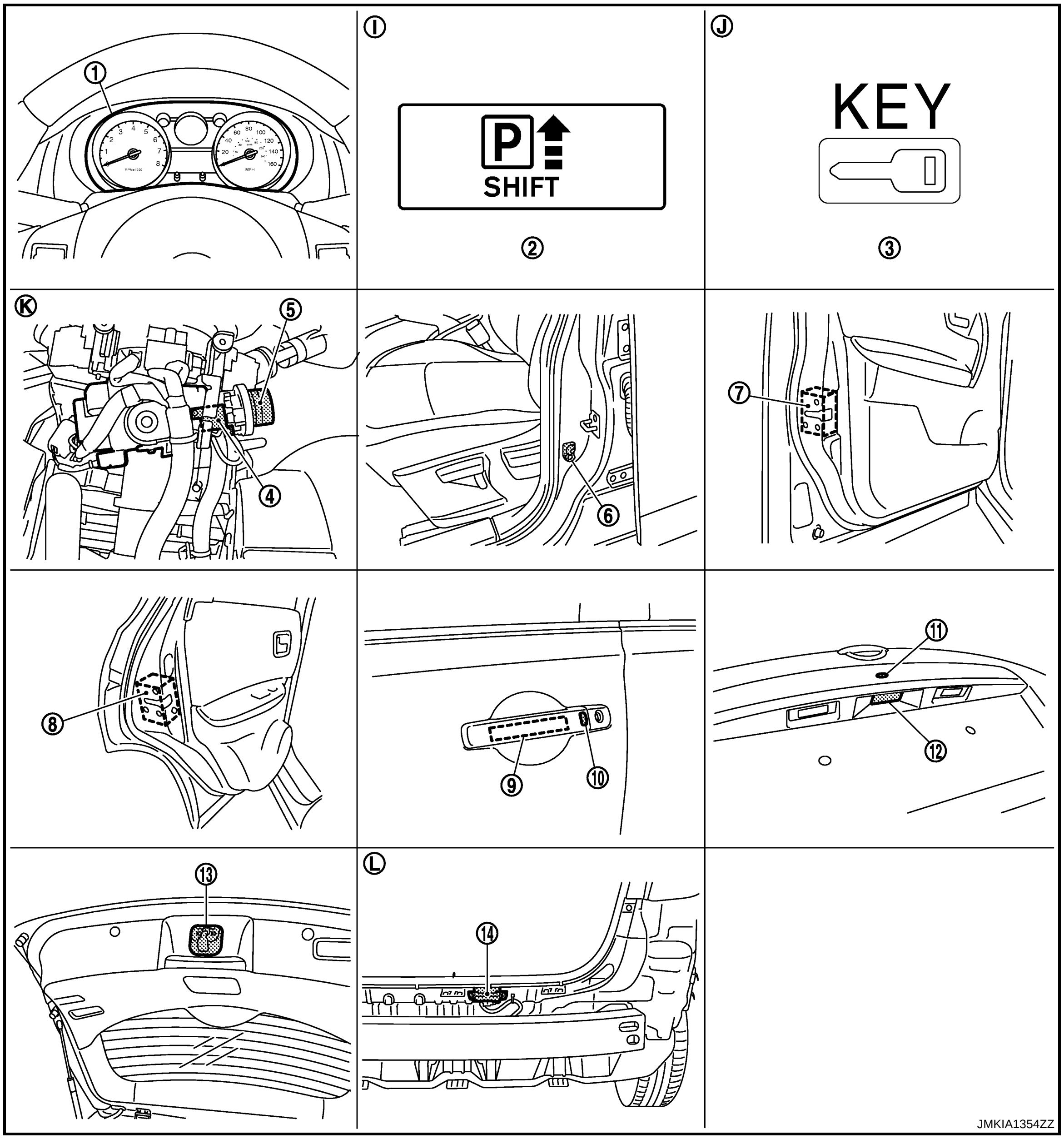
Intelligent Key system turns ON interior lamp by receiving UNLOCK signal from door request switch. For detailed description, refer to INL-5, "System Description".

DOOR REQUEST SWITCH : Component Parts Location

INFOID:0000000001888294



1.	BCM M65, M66, M67	2.	IPDM E/R E11, E13, E15	3.	Intelligent key unit M40
4.	Power window main switch (door lock and unlock switch) D5, D6	5.	Inside key antenna (instrument center) M56	6.	Inside key antenna (console) M252
7.	Inside key antenna (rear seat) B45	8.	Intelligent key warning buzzer E25	9.	Selective unlock relay M90
A.	Over the glove box	B.	Engine room LH	C.	Over the instrument lower panel (driver side)
D.	View with lower instrument cover remove	E.	View with center console removed	F.	View with luggage floor spacer (LH) removed
G.	View with front bumper removed	H.	View with fuse box lid removed		



1.	Combination meter M34	2.	P-SHIFT warning lamp	3.	Key warning lamp
4.	Ignition knob switch, key switch and key lock solenoid (key switch) M25	5.	Ignition knob switch, key switch and key lock solenoid (ignition knob switch) M25	6.	Front door switch (driver side) B34
7.	Front door lock assembly (driver side) D9	8.	Rear door lock actuator LH D85	9.	Outside handle assembly (outside key antenna) (driver side) D13

10. Outside handle assembly (front door request switch) (driver side) D13
11. Back door opener switch assembly (request switch) D197
12. Back door opener switch assembly (opener switch) D197
13. Back door lock assembly D190
14. Out side key antenna (back door) B83

I. Inside the combination meter
J. Inside the combination meter
K. view with steering column cover removed
L. View with rear bumper fascia removed

DOOR REQUEST SWITCH : Component Description

INFOID:0000000001729265

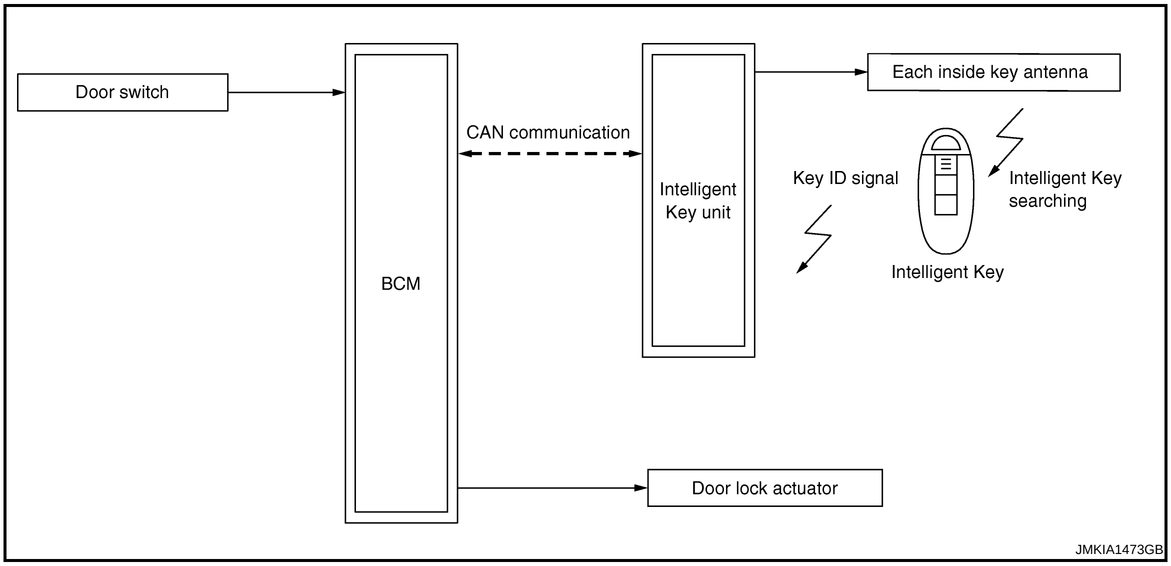
Item	Function
Intelligent Key unit	Controls the door lock/unlock function with BCM
BCM	Controls the door lock/unlock function with Intelligent Key unit
Door request switch	Transmits opertion signal (lock and unlock) to Intelligent Key unit
Door switch	Detects door state (open or closed)
Key switch	Detects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

KEY REMINDER

KEY REMINDER : System Diagram

INFOID:0000000001729266

KEY REMINDER OPERATION



KEY REMINDER : System Description

INFOID:0000000001729267

KEY REMINDER OPERATION

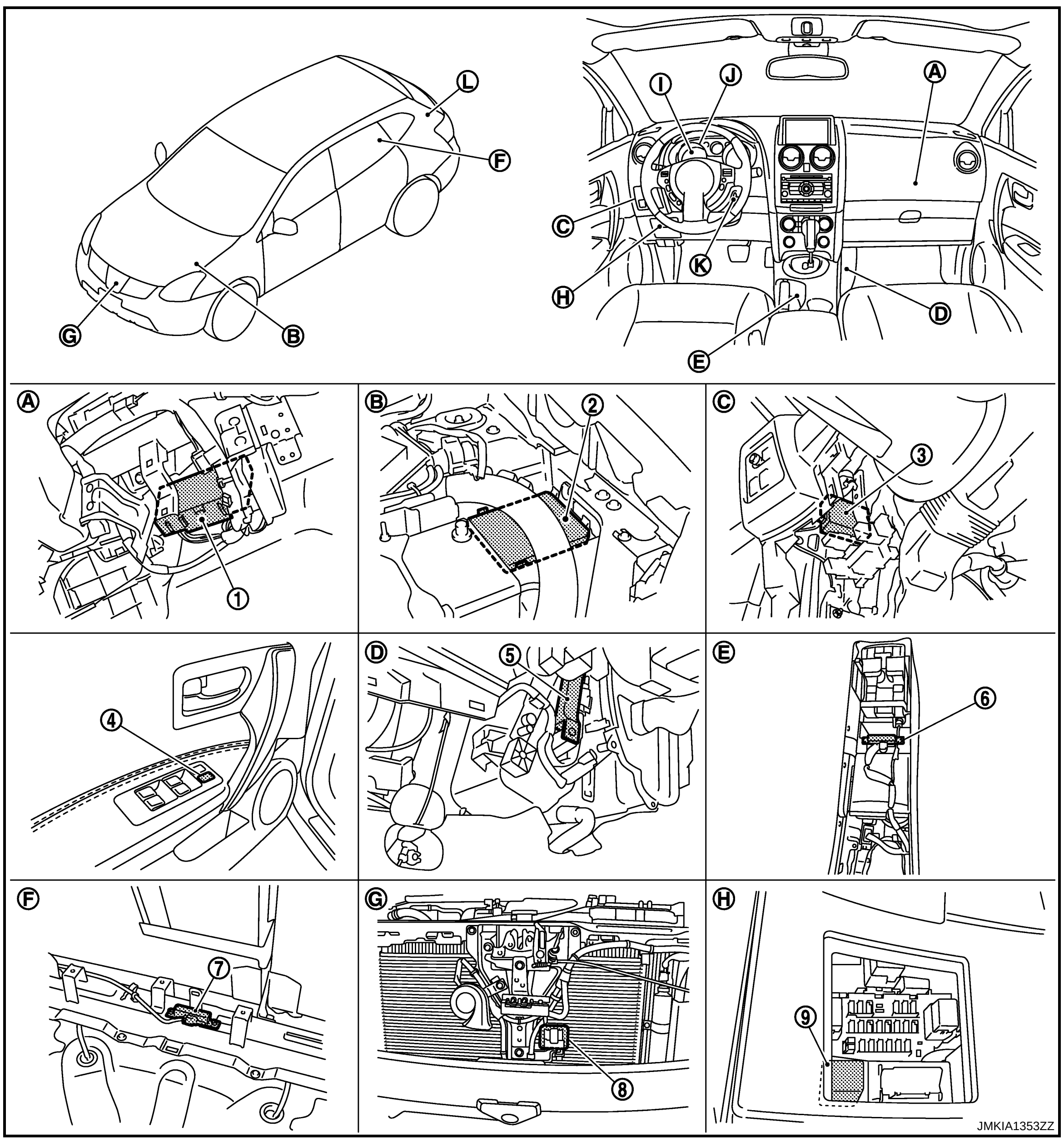
Key reminder have the following 2 functions.

Operation	Operation condition	Operation
Driver door close	Right after driver side door is closed under the following conditions. • Door lock operation. • Driver side door is opened. • Driver side door is in unlock state.	All doors unlock
Any door open to all doors close	Right after all doors are closed under the following conditions. • Intelligent Key is inside the vehicle. • Any door is opened. • All doors are locked by door lock and unlock switch.	• All doors unlock • Active Intelligent Key warning buzzer

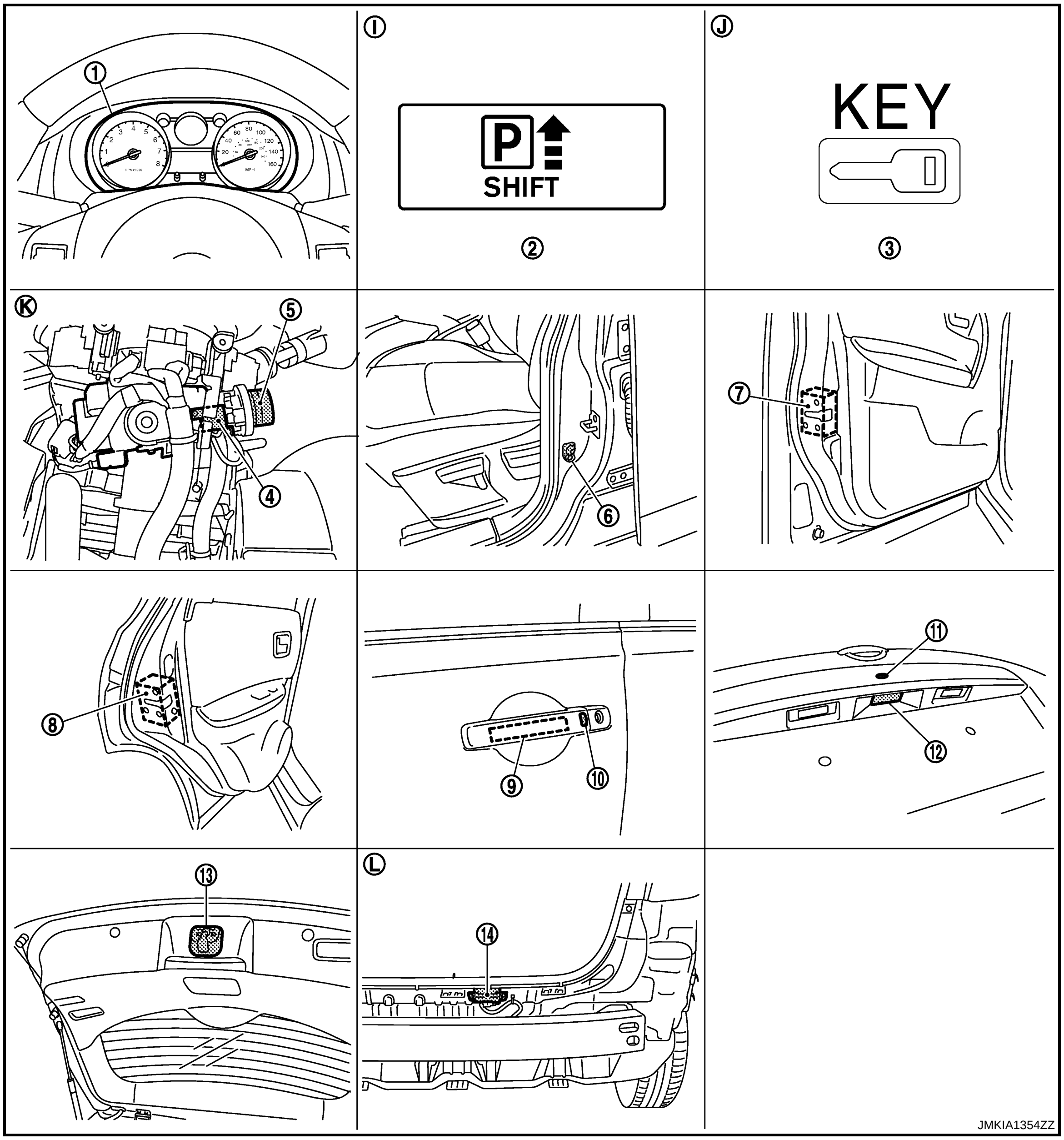
CAUTION:
The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket of an open door.

KEY REMINDER : Component Parts Location

INFOID:0000000001888316



1.	BCM M65, M66, M67	2.	IPDM E/R E11, E13, E15	3.	Intelligent key unit M40
4.	Power window main switch (door lock and unlock switch) D5, D6	5.	Inside key antenna (instrument center) M56	6.	Inside key antenna (console) M252
7.	Inside key antenna (rear seat) B45	8.	Intelligent key warning buzzer E25	9.	Selective unlock relay M90
A.	Over the glove box	B.	Engine room LH	C.	Over the instrument lower panel (driver side)
D.	View with lower instrument cover remove	E.	View with center console removed	F.	View with luggage floor spacer (LH) removed
G.	View with front bumper removed	H.	View with fuse box lid removed		



1.	Combination meter M34	2.	P-SHIFT warning lamp	3.	Key warning lamp
4.	Ignition knob switch, key switch and key lock solenoid (key switch) M25	5.	Ignition knob switch, key switch and key lock solenoid (ignition knob switch) M25	6.	Front door switch (driver side) B34
7.	Front door lock assembly (driver side) D9	8.	Rear door lock actuator LH D85	9.	Outside handle assembly (outside key antenna) (driver side) D13

10. Outside handle assembly (front door request switch) (driver side) D13
11. Back door opener switch assembly (request switch) D197
12. Back door opener switch assembly (opener switch) D197
13. Back door lock assembly D190
14. Out side key antenna (back door) B83

I. Inside the combination meter
J. Inside the combination meter
K. view with steering column cover removed
L. View with rear bumper fascia removed

KEY REMINDER : Component Description

INFOID:0000000001729269

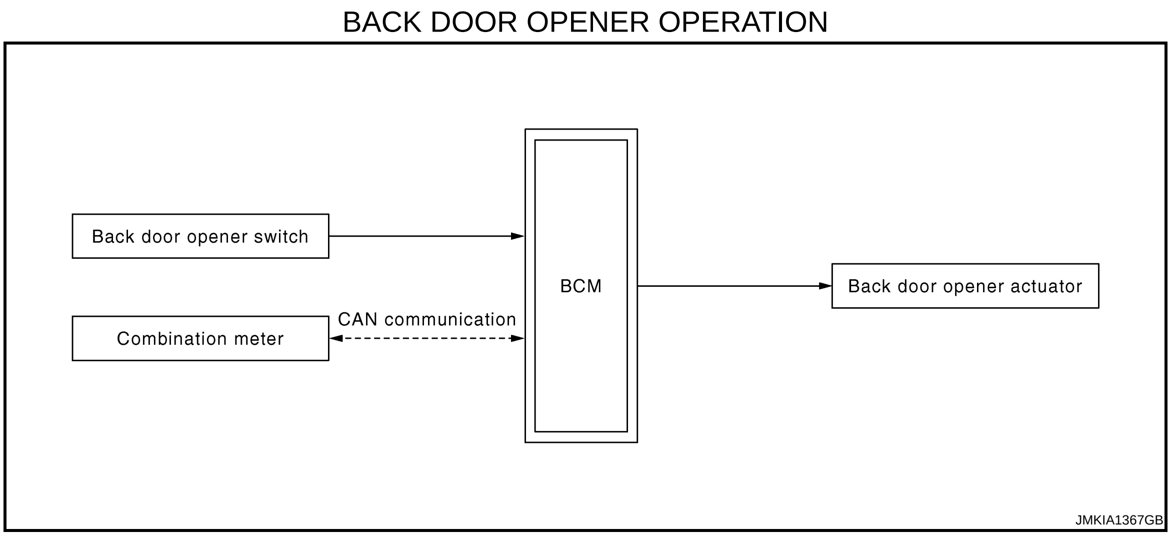
Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock and unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or closed).
Inside key antenna	Detects that Intelligent Key is in detection area of inside key antenna.
Intelligent Key	Transmits key ID to Intelligent Key unit when Intelligent Key is searching.
Door lock actuator	Receives lock and unlock signal from BCM and locks/unlocks each door.

BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:0000000001848710



BACK DOOR OPENER SWITCH : System Description

INFOID:0000000001848711

BACK DOOR OPENER OPERATION

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

NOTE:

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

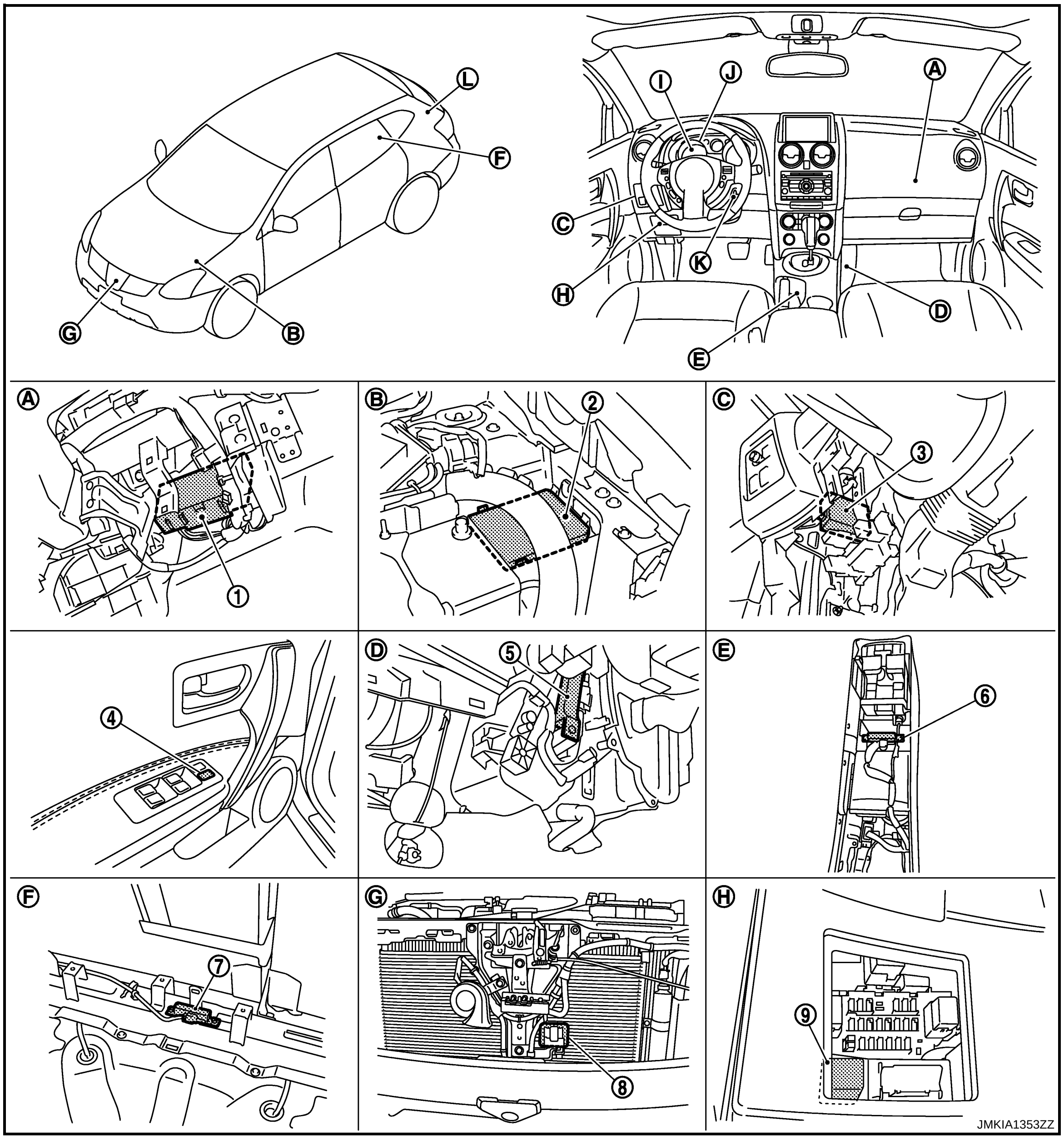
OPERATION CONDITION

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

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

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:0000000001888338



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A. Over the glove box	B. Engine room LH	C. Over the instrument lower panel (driver side)
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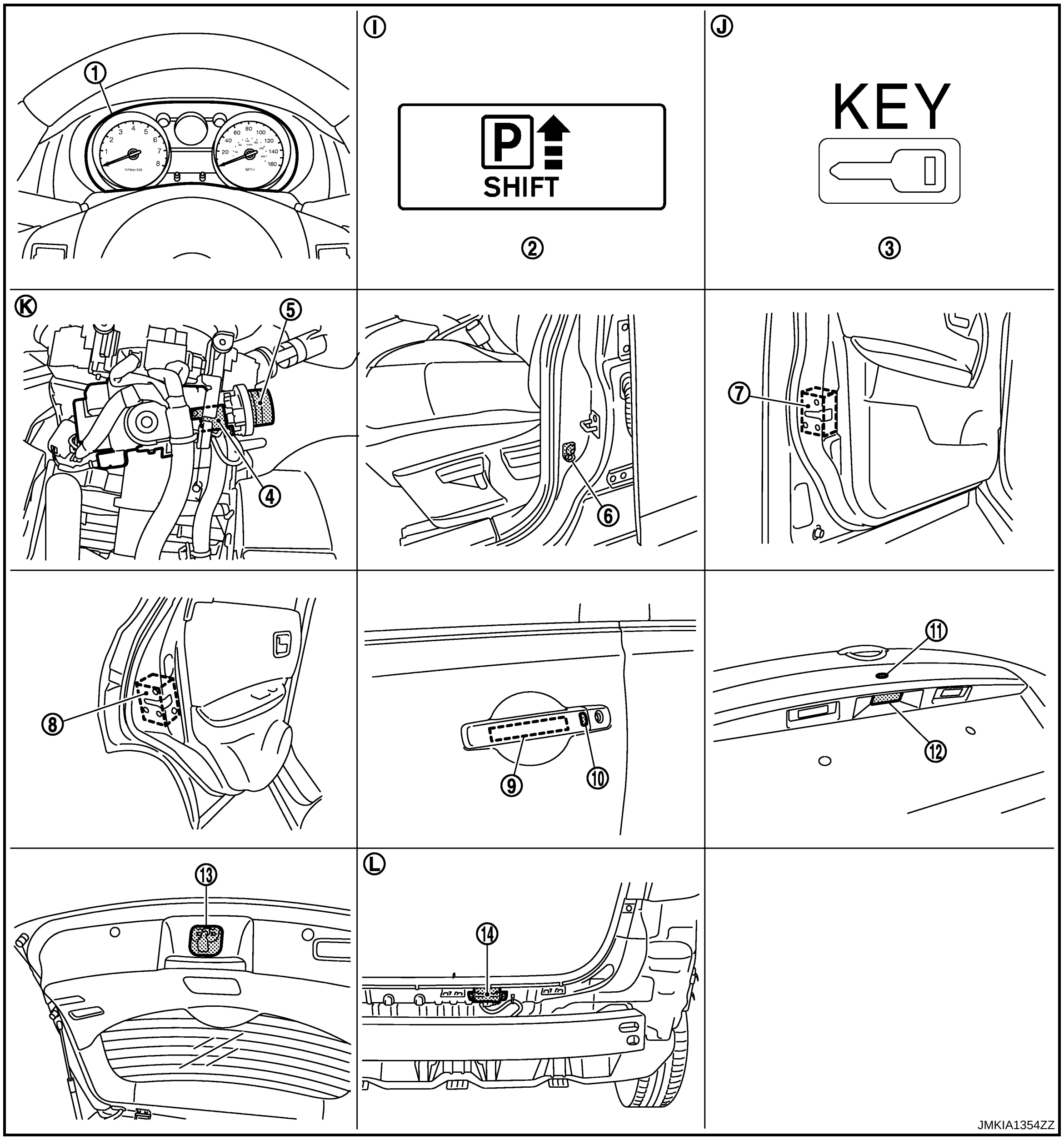

1. Combination meter M34
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8. Rear door lock actuator LH D85
9. Outside handle assembly (outside key antenna) (driver side) D13
10. Outside handle assembly (front door request switch) (driver side) D13
11. Back door opener switch assembly (request switch) D197
12. Back door opener switch assembly (opener switch) D197
13. Back door lock assembly D190
14. Out side key antenna (back door) B83

I. Inside the combination meter
J. Inside the combination meter
K. view with steering column cover removed
L. View with rear bumper fascia removed

BACK DOOR OPENER SWITCH : Component Description

INFOID:0000000001848713

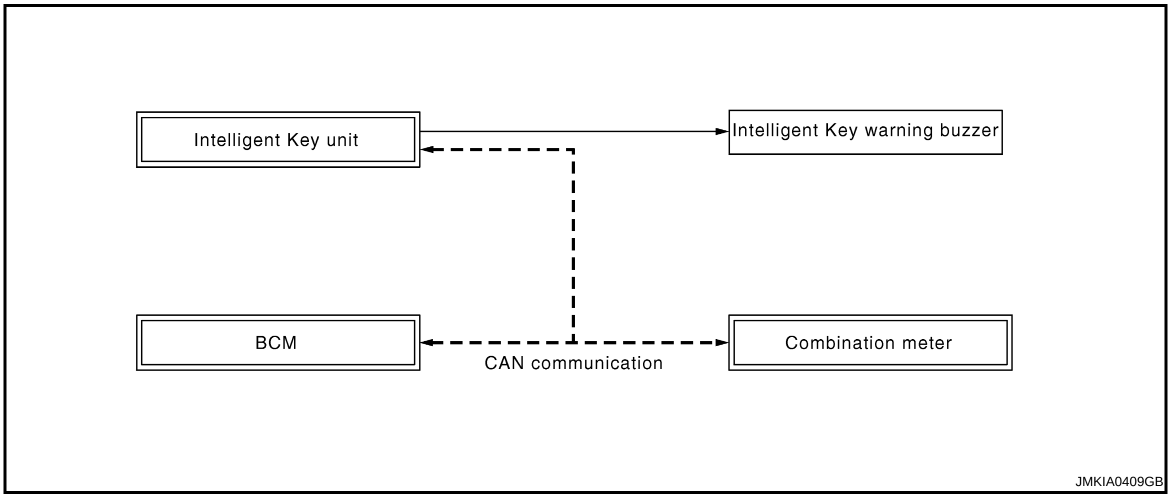
Item	Function
BCM	Controls the back door opener function
Back door opener switch	Transmits back door opener switch operation signal to BCM
Back door lock assembly (Back door opener actuator)	Opens the back door with the back door open signal from BCM
Combination meter	Transmits vehicle speed signal to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

WARNING FUNCTION

System Diagram

INFOID:0000000001729286

INTELLIGENT KEY WARNING OPERATION



System Description

INFOID:0000000001729287

DESCRIPTION

The warning functions are as follows and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, key warning lamps and buzzer (built in combination meter).

INTELLIGENT KEY WARNING OPERATION

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

Warning/Information functions	Operation conditions	Warning lamp	Warning chime	
			Combination meter buzzer	Intelligent Key warning buzz-er
Ignition knob return forgotten warning	When all the conditions below are met • Ignition knob: OFF or LOCK (knob is pressed) • Door switch (driver side): ON (Door is open)	—	(pipipipi, pipipipi···)	—
Ignition key warning (when mechanical key is used)	When all the conditions below are met • Ignition switch: OFF position • Key switch: ON (inserted) • Door switch (driver side): ON (Door is open)	—	(pipipipi, pipipipi···)	—
Forgetting P return warning	When all the conditions below are met • Shift position : Except P position • Engine is running to stopped (Ignition switch is ON to OFF)	“P-SHIFT” (RED blinking)	—	—

Warning/Information functions		Operation conditions	Warning lamp	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
OFF position warning	Inside	When all the conditions below are met. • Ignition switch is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position • 1 seconds in the above state have pressed	—	(pipi, pipi···)	—
	Outside	When all the conditions below are met • Ignition switch is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position • 1 seconds in the above state have pressed • Driver door open→closed	—	—	Active for 10 seconds (pipipi···)
Take away warning	Any door open to all doors closed	When all the conditions below are met • Ignition switch: Except LOCK position. • Door switch: ON to OFF (Door is open to closed) • Intelligent Key cannot be detected inside the vehicle	“KEY” (RED blinking)	—	Active for 3 times (pi, pi, pi)
	Door is open	When all the conditions below are met • Door switch: ON (Door is open) • Key ID verification every 5 seconds when registered Intelligent Key can not be detected inside the vehicle	“KEY” (RED blinking)	—	—
	Take away through window	When all the conditions below are met • Key ID verification: OK • Every 30 seconds when registered Intelligent Key cannot be detected inside the vehicle or result of vehicle speed verification is NG. (The registered Intelligent Key cannot be detected inside the vehicle when ignition switch is ON) • Key switch: OFF (Key is removed from ignition key cylinder)	“KEY” (RED blinking)	Active for 3 seconds (pipipi···)	—
Door lock operation warning	Request switch operation	When request switch is pressed (lock operation) under the following conditions • Door switch: ON (Any door is open) • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserted into ignition key cylinder • Intelligent Key is inside vehicle	—	—	Active for 2 seconds (pipipi···)
	Intelligent Key button operation	When Intelligent Key button is pressed (lock operation) under the following conditions • Door switch: ON (Any door is open) • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserted into ignition key cylinder	—	—	Active for 2 seconds (pipipi···)
Intelligent Key low battery warning		When Intelligent Key battery voltage is low, Intelligent Key unit is detected after ignition switch is turned ON	“KEY” (GREEN blinking for 30 seconds)	—	—

KEY WARNING LAMP & P-SHIFT WARNING LAMP

The key indicator and p-shift indicator Intelligent Key system status.

Operation Condition

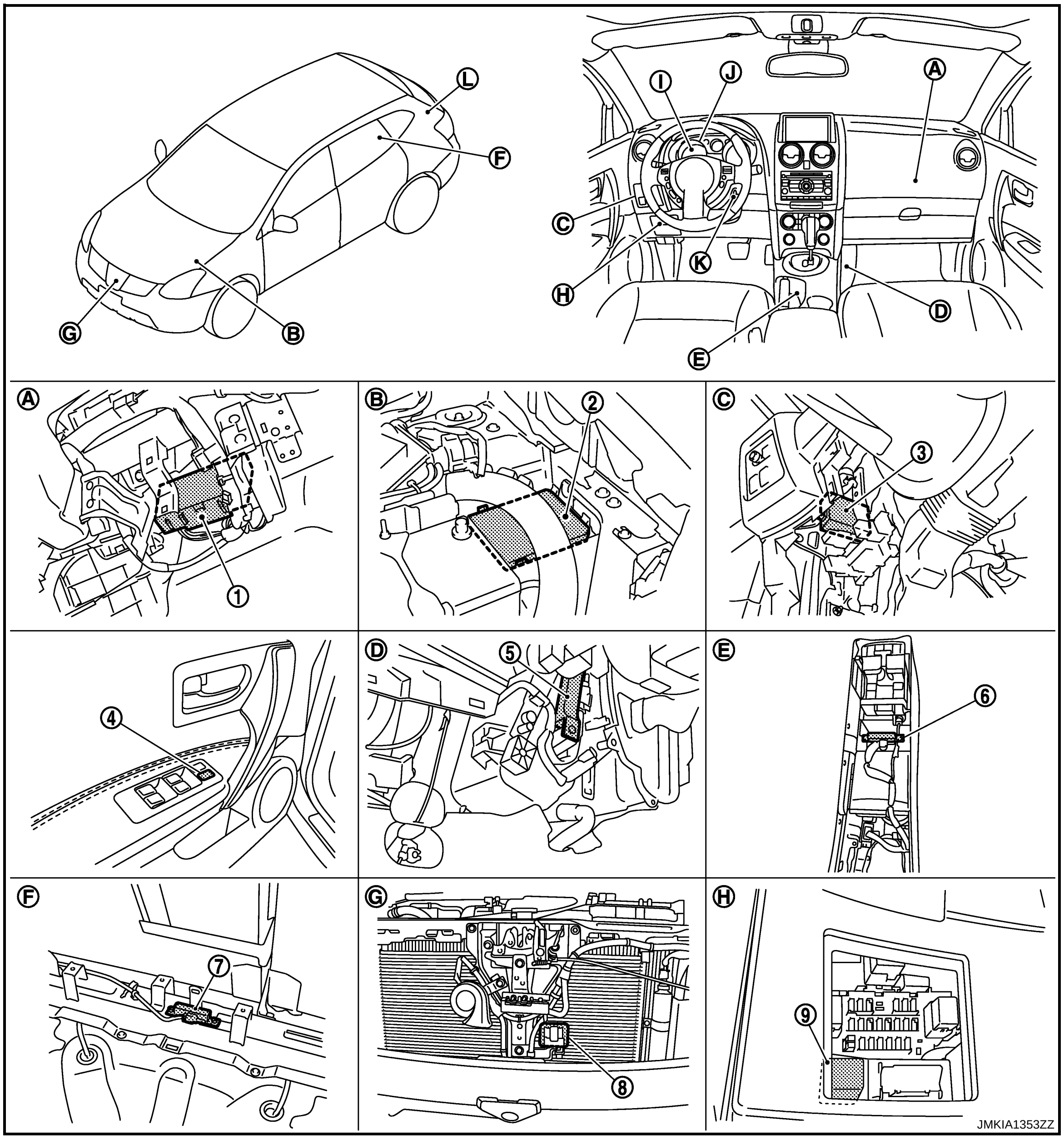
Behavior of lamps			Operation condition
KEY	GREEN	Lighting	All the following conditions are satisfied • Ignition knob is pressed in LOCK position (Ignition knob switch is ON) • Ignition key is removed from ignition key cylinder (Key switch is OFF) • Intelligent Key is detected inside of the vehicle • KEY RED lighting/blinking conditions are not satisfied
		Blinking	while Intelligent Key low battery warning is operating
	RED	Lighting	All the following conditions are satisfied • Ignition knob is pressed (Ignition knob switch is ON) • Ignition key is removed from ignition key cylinder (Key switch is OFF) • Intelligent Key is not detected inside of the vehicle
		Blinking	All the following conditions are satisfied • Take away warning is operating • KEY RED lighting condition is not satisfied
P-SHIFT		Blinking	When selector lever is except for P position, ignition switch is turned from ON to OFF
KEY(RED) and P-SHIFT lighting			All the following conditions are satisfied • Ignition switch is ON • Steering lock ID is NG

KEY REMINDER OPERATION

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

Component Parts Location

INFOID:0000000001888339



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A. Over the glove box
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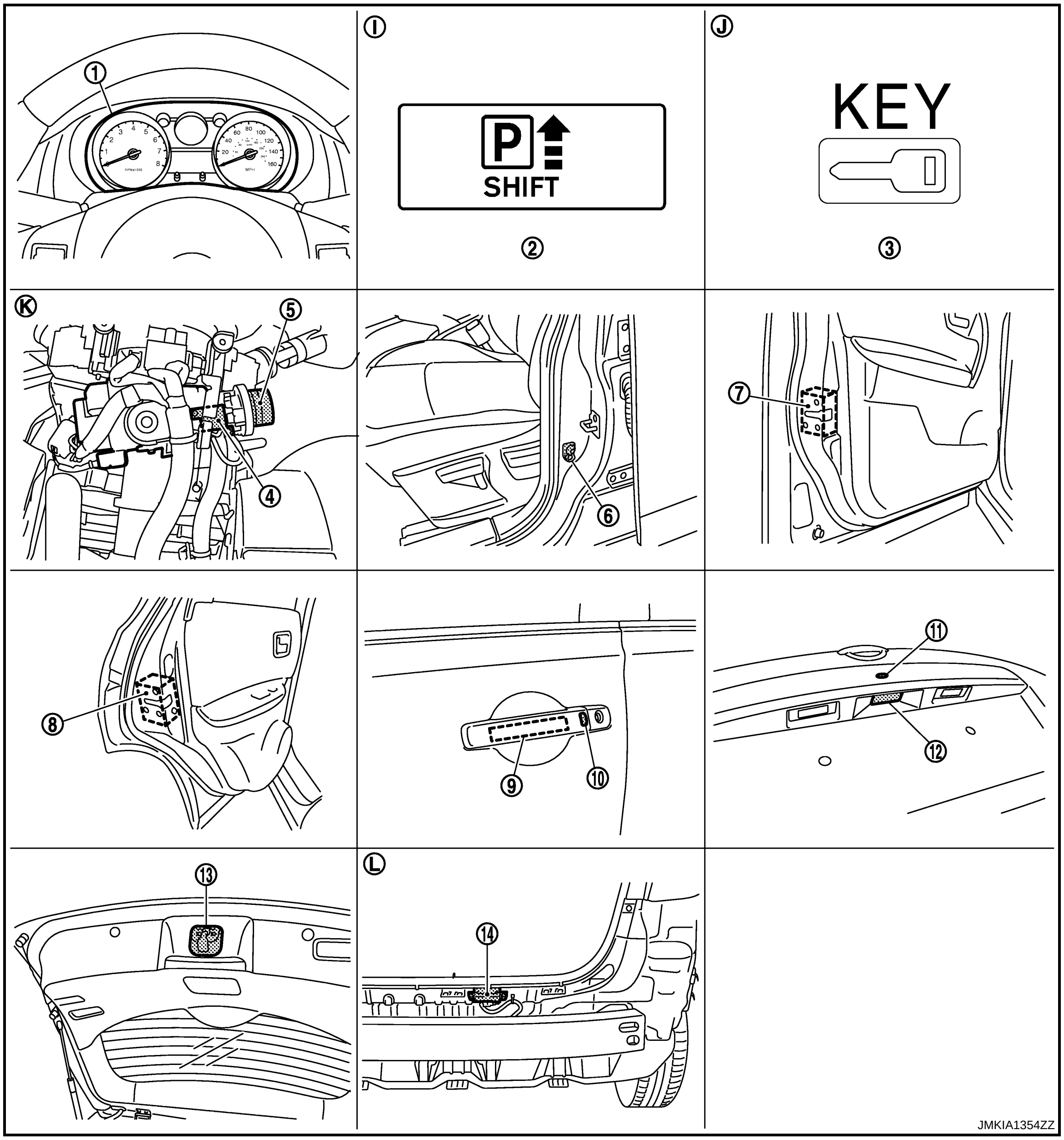

1.	Combination meter M34	2.	P-SHIFT warning lamp	3.	Key warning lamp
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13.	Back door lock assembly D190	14.	Out side key antenna (back door) B83		
I.	Inside the combination meter	J.	Inside the combination meter	K.	view with steering column cover removed
L.	View with rear bumper fascia removed				

Component Description

INFOID:0000000001729289

Item	Function
BCM	Controls the warning function with Intelligent Key unit
Intelligent Key unit	Controls the warning function with BCM
Key switch	Detects that mechanical key is inserted into ignition key cylinder
Door switch	Detects door state (open or closed)
Door lock and unlock switch	Transmits door lock and unlock signal to BCM
Intelligent Key unit	Requests to turn ON hazard warning lamp to BCM and turn signal indicator to combination meter
Combination meter	Turns ON the LOCK indicator, KEY indicator, turn signal indicator and buzzer (built in combination meter) by the request from Intelligent Key unit via CAN communication
Intelligent Key warning buzzer	Sounds by the request from Intelligent Key unit

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000001873246

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

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000003249056

APPLICATION ITEM

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

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-63, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	• Read and save the vehicle specification. • Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT-III 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 control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
—	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
—	FUEL LID*			
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

*: This item is displayed, but is not function.

DOOR LOCK

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

INFOID:0000000001729295

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

DATA MONITOR

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

*1: For the Intelligent Key equipped vehicle.

*2: For the multi remote control system equipped vehicle.

ACTIVE TEST

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

WORK SUPPORT

Test item	Description
DOOR LOCK-UNLOCK SET	Select unlock mode can be changed in this mode. Selects ON-OFF of select unlock mode
ANTI-LOCK OUT SET	Key reminder door mode can be changed in this mode. Selects ON-OFF of Key reminder door mode

INTELLIGENT KEY

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

INFOID:0000000001729296

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

DATA MONITOR

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

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:0000000003175409

APPLICATION ITEM

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 Intelligent Key unit

DATA MONITOR

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

ACTIVE TEST

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

PANIC ALARM

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

INFOID:0000000003175445

APPLICATION ITEM

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

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

ACTIVE TEST

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

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000003230066

Auto active test

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Rear window defogger
- Front wiper (LO, HI)
- Parking lamps
- License plate lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (LO, MID, HI)

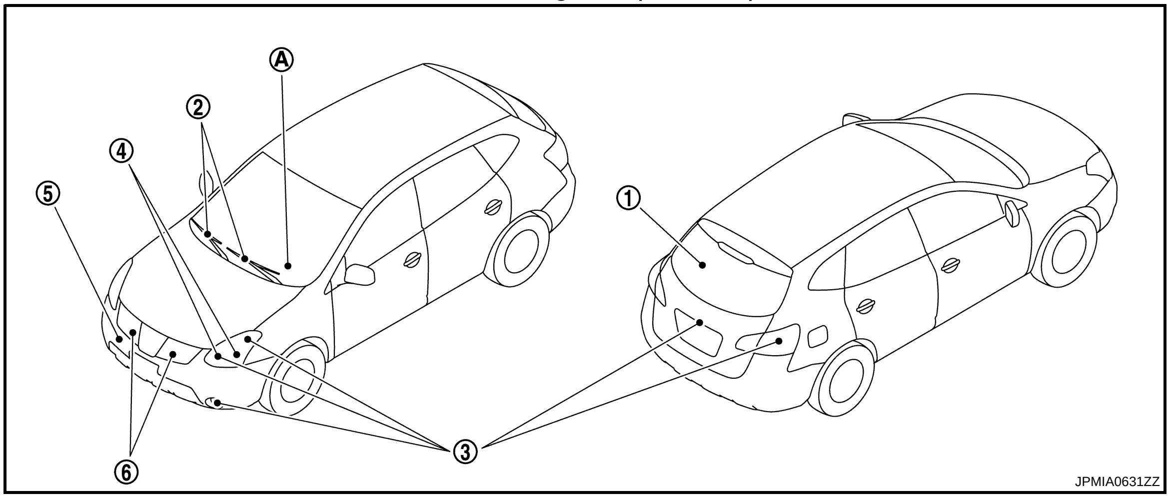
Operation procedure

1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)
   NOTE:
   When auto active test is performed with hood opened, sprinkle water on windshield beforehand.
2. Turn ignition switch OFF.
3. Turn the ignition switch ON, and within 20 seconds, press the driver door switch 10 times. Then turn the ignition switch OFF.
   CAUTION:
   Close passenger door.
4. Turn the ignition switch ON within 10 seconds. Then the horn sounds once and the auto active test starts.
   NOTE:
   Only a vehicle with the vehicle security system, the horn sounds.
5. The oil pressure warning lamp starts blinking when the auto active test starts.
6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:
When auto active test mode has to be cancelled halfway through test, turn ignition switch OFF.
CAUTION:
- **If auto active test mode cannot be actuated, check door switch system.**
- **Never start the engine.**

Inspection in auto active test mode

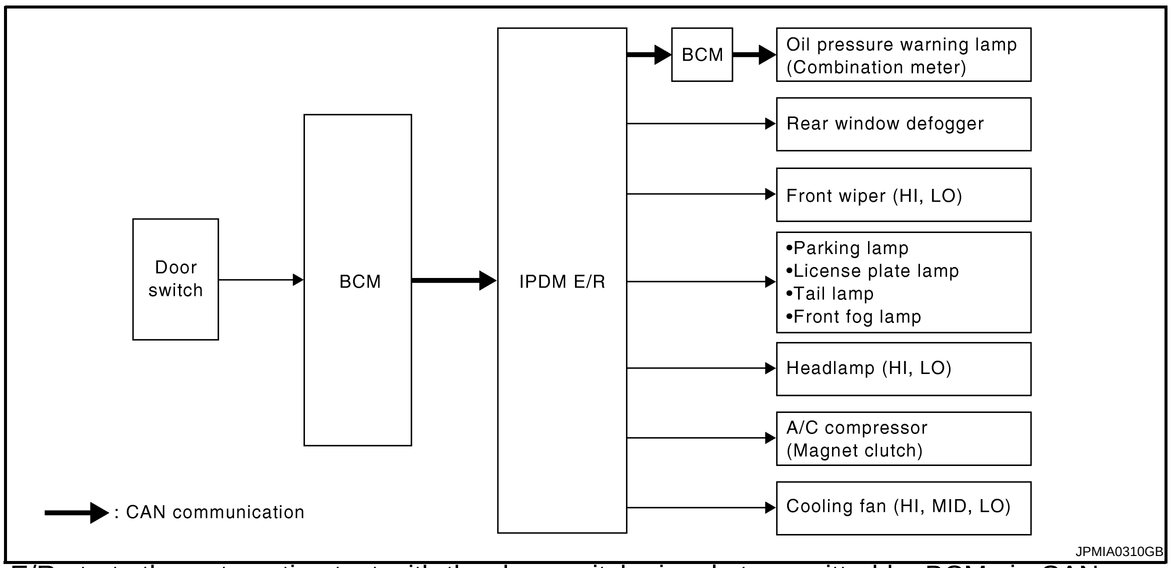
When auto active test mode is actuated, the following 6 steps are repeated 3 times.



Operation sequence	Inspection location	Operation
A	Oil pressure warning lamp	Blinks continuously during operation of auto active test.
1	Rear window defogger	10 seconds
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	• Parking lamps • License plate lamps • Tail lamps • Front fog lamps • Headlamps HI (daytime running light operation)*	10 seconds
4	Headlamps	LO ⇔ HI 5 times
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times
6	Cooling fan	LO for 5 seconds → MID for 3 seconds → HI for 2 seconds

NOTE:
*: With daytime running light system

Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
Rear window defogger does not operate	Perform auto active test. Does the rear window defogger operate?	YES	BCM signal input circuit
		NO	• Rear window defogger • Rear window defogger ground circuit • Harness or connector between IPDM E/R and rear window defogger • IPDM E/R
Any of the following components do not operate • Parking lamps • License plate lamps • Tail lamps • Front fog lamps • Headlamps (HI, LO) • Front wiper (HI, LO)	Perform auto active test. Does the applicable system operate?	YES	BCM signal input circuit
		NO	• Lamp or motor • Lamp or motor ground circuit • Harness or connector between IPDM E/R and applicable system • IPDM E/R

Symptom	Inspection contents		Possible cause
Headlamps HI (daytime running light operation) do not operate	Perform auto active test. Do headlamps HI (daytime running light operation) operate?	YES	• CAN communication signal between ECM and BCM • CAN communication signal between combination meter and BCM • BCM signal input circuit
		NO	• Daytime running light relay power supply circuit • Harness or connector between IPDM E/R and daytime running light relay • Daytime running light relay
A/C compressor does not operate	Perform auto active test. Does the magnet clutch operate?	YES	• BCM signal input circuit • CAN communication signal between BCM and ECM • CAN communication signal between ECM and IPDM E/R
		NO	• Magnet clutch • Harness or connector between IPDM E/R and magnet clutch • IPDM E/R
Oil pressure warning lamp does not operate	Perform auto active test. Does the oil pressure warning lamp blink?	YES	• Harness or connector between IPDM E/R and oil pressure switch • Oil pressure switch • IPDM E/R
		NO	• CAN communication signal between IPDM E/R and BCM • CAN communication signal between BCM and combination meter • Combination meter
Cooling fan does not operate	Perform auto active test. Does the cooling fan operate?	YES	• ECM signal input circuit • CAN communication signal between ECM and IPDM E/R
		NO	• Cooling fan motor-2 power supply circuit • Cooling fan motor-1 ground circuit • Cooling fan relay-4 or cooling fan relay-5 power supply circuit • Cooling fan relay-5 ground circuit • Harness or connector between IPDM E/R and cooling fan motor • Harness or connector between IPDM E/R, and cooling fan relay-4 or cooling fan relay-5 • Harness or connector between cooling fan motor-2, and cooling fan relay-4 or cooling fan relay-5 • Cooling fan relay-4 or cooling fan relay-5 • Cooling fan motor • IPDM E/R

CONSULT-III Function (IPDM E/R)

INFOID:0000000003230067

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with IPDM E/R.

Diagnosis mode	Description
Self Diagnostic Result	Displays the diagnosis results judged by IPDM E/R.
Data Monitor	Displays the real-time input/output data from IPDM E/R input/output data.

Diagnosis mode	Description
Active Test	IPDM E/R can provide a drive signal to electronic components to check their operations.
CAN Diag Support Monitor	The results of transmit/receive diagnosis of CAN communication can be read.

SELF DIAGNOSTIC

Refer to PCS-26, "DTC Index".

DATA MONITOR

Monitor item

Monitor Item [Unit]	MAIN SIGNALS	Description
MOTOR FAN REQ [1 - 4]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication. **NOTE:** This item is monitored only the vehicle with front fog lamp system.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
ST RLY REQ [Off/On]		Displays the status of the starter request signal.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
RR DEF REQ [Off/On]	×	Displays the status of the rear defogger request signal received from BCM via CAN communication.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch judged by IPDM E/R.
DTRL REQ [Off/On]		Displays the status of the daytime running light request signal received from BCM via CAN communication. **NOTE:** This item is monitored only the vehicle with daytime running light system.
HOOD SW [Off/On]		Displays the status of the hood switch judged by IPDM E/R. **NOTE:** This item is monitored only the vehicle for Mexico.
THFT HRN REQ [Off/On]		Displays the status of the horn request signal by vehicle security system or panic alarm system received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn request signal by key fob LOCK operation received from BCM via CAN communication.

ACTIVE TEST

Test item

Test item	Operation	Description
REAR DEFOGGER	Off	OFF
	On	Operates the rear window defogger relay.
FRONT WIPER	Off	OFF
	Lo	Operates the front wiper relay.
	Hi	Operates the front wiper relay and front wiper high relay.
MOTOR FAN	1	OFF
	2	Operates the cooling fan relay (LO operation).
	3	Operates the cooling fan relay (MID operation).
	4	Operates the cooling fan relay (HI operation).
EXTERNAL LAMPS	Off	OFF
	TAIL	Operates the tail lamp relay and the daytime running light relay. **NOTE:** Daytime running light relay is with daytime running light system only.
	Lo	Operates the headlamp low relay.
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 4 seconds intervals.
	Fog	Operates the front fog lamp relay. **NOTE:** This item can test only the vehicle with front fog lamp system.
HORN	On	Operates horn relay for 20 ms.

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

CONSULT-III Function (INTELLIGENT KEY)

INFOID:0000000001729298

APPLICATION ITEM

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

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

WORK SUPPORT

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

SELF-DIAG RESULT

Refer to DLK-146, "DTC Index".

DATA MONITOR

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

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

ACTIVE TEST

Test item	Description
DOOR LOCK/UNLOCK	This test is able to check door lock/unlock operation • ALL UNLK: All door lock actuators are unlocked • DR UNLK: Door lock actuator (driver side) is unlocked • AS UNLK: Door lock actuator (passenger side) is unlocked • BK UNLK: This item is indicated, but inactive • LOCK: All door lock actuator is locked
ANTENNA	This test is able to check Intelligent Key antenna operation. When the following condition are met, LED (on Intelligent Key) blinks • ROOM ANT1: Inside key antenna (console) transmissions can be detected by Intelligent Key, when “ROOM ANT1” is selected • ROOM ANT2: Inside key antenna (instrument center/rear seat) transmissions can be detected by Intelligent Key, when “ROOM ANT2”is selected • DRIVER ANT: Outside key antenna (driver side) transmissions can be detected by Intelligent Key, when “DRIVER ANT” is selected • ASSIST ANT: Outside key antenna (passenger side) transmissions can be detected by Intelligent Key, when “ASSIST ANT” is selected • BK DOOR ANT: Outside key antenna (rear bumper) transmissions can be detected by Intelligent Key, when “BK DOOR ANT” is selected
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation • ON • OFF

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

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000001729299

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.
CAN Communication Signal Chart. Refer to LAN-23, "CAN Communication Signal Chart".

DTC Logic

INFOID:0000000001729300

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000001729301

1.PERFORM SELF DIAGNOSIS

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check “Self Diagnostic Result” of Intelligent Key unit.

Is “CAN COMM CIRCUIT” displayed?

YES >> Refer to LAN-22, "Interview Sheet".
NO >> Refer to GI-41, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

Description

INFOID:0000000001729302

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.
CAN Communication Signal Chart, refer to LAN-23, "CAN Communication Signal Chart".

DTC Logic

INFOID:0000000001729303

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN controller of Intelligent Key unit	Intelligent Key unit

Diagnosis Procedure

INFOID:0000000001729304

1.REPLACE INTELLIGENT KEY UNIT

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

>> Replace Intelligent Key unit.

Special Repair Requirement

INFOID:0000000001729305

1.REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

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

>> WORK END

POWER SUPPLY AND GROUND CIRCUIT

INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT : Diagnosis Procedure

INFOID:0000000001729306

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not blown.

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

Is the fuse blown?

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

2. CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage (V) (Approx.)
Intelligent Key unit			
Connector	Terminal		
M40	11	Ground	Battery voltage
	6		

Is the measurement value normal?

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

3. CHECK GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	12		Exists

Does continuity exist?

YES >> INSPECTION END
NO >> Repair harness or connector.

BCM

BCM : Diagnosis Procedure

INFOID:0000000003159711

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	10 (10A)
70		J (50A)
11	ACC power supply	20 (10A)
38	Ignition power supply	1 (10A)

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Ignition switch position		
BCM			OFF	ACC	ON
Connector	Terminal				
M67	70	Ground	Battery voltage	Battery voltage	Battery voltage
	57				
M65	11		Approx. 0 V	Battery voltage	Battery voltage
	38		Approx. 0 V	Approx. 0 V	Battery voltage

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	67		Exists

Does continuity exist?

YES >> INSPECTION END
NO >> Repair harness or connector.

DOOR SWITCH

Description

INFOID:0000000003159717

Detects door open/closed condition.

Component Function Check

INFOID:0000000003159718

1.CHECK FUNCTION

With CONSULT-III

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

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

Is the inspection result normal?

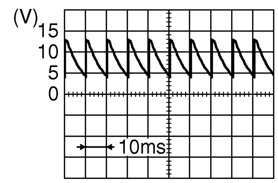
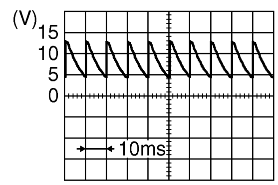
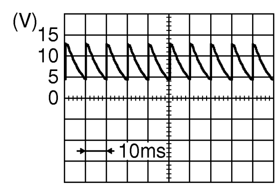
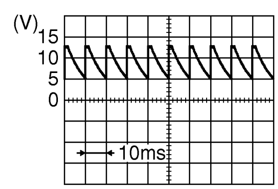
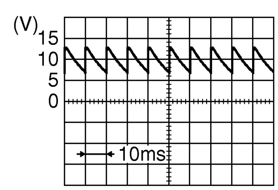
YES >> Door switch is OK.
NO >> Refer to DLK-57, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003159719

1.CHECK DOOR SWITCH INPUT SIGNAL

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

Door switch				Voltage (V) (Approx.)
(+)			(–)	
connector		Terminal		
Front door switch (passenger side)	B27	2	Ground	 JPMIA0586GB
Front door switch (driver side)	B34	2		 JPMIA0587GB
Rear door switch RH	B53	2		 JPMIA0587GB
Rear door switch LH	B71	2		 JPMIA0594GB
Back door lock assembly (back door switch)	D190	3		 JPMIA0593GB

Is the inspection result normal?

YES >> • Back door switch : GO TO 3.
• Door switch : GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM		Door switch		Continuity
connector	Terminal	connector	Terminal	
M65	12	B27	2	Exists
	13	B53		
M66	43	D190	3	
	47	B34	2	
	48	B71		

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M65	12	Ground	Does not exist
	13		
M66	43		
	47		
	48		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK BACK DOOR GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
connector	Terminal		
D190	4		Exist

Is the inspection result normal?

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

4.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-59, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace door switch. Refer to DLK-301, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003159720

1.CHECK DOOR SWITCH

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

Terminal			Condition	Continuity
Each door	2	Ground	Door switch pressed	Exists
			Door switch released	Does not exist

Terminal			Condition	Continuity
Back door	3	4	Back door open	Exists
			Back door close	Does not exist

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace door switch . Refer to DLK-301, "Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000003142982

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000003142983

1. CHECK FUNCTION

With CONSULT-III
Check “CDL LOCK SW ”and “CDL UNLOCK SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

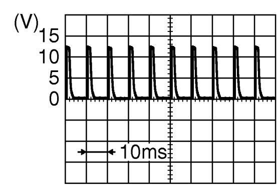
YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-61, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000003142984

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door lock and unlock switch) connectors.
3. Check signal between power window main switch (door lock and unlock switch) harness connector and ground with oscilloscope.

(+)		(–)	Signal (Reference value)
Power window main switch (door lock and unlock switch)			
Connector	Terminal		
D5	6	Ground	 JPMIA0591GB
D6	18		

Is the inspection result normal?

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

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and power window main switch (door lock and unlock switch) harness connector.

BCM		Power window main switch (door lock and unlock switch)		Continuity
Connector	Terminal	Connector	Terminal	
M65	46	D5	6	Exists
	45	D6	18	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M65	46	Ground	Does not exist
	45		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window main switch (door lock and unlock switch) harness connector and ground.

Power window main switch (door lock and unlock switch)		Ground	Continuity
Connector	Terminal		
D6	17	Ground	Exists

Is the inspection result normal?

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

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Check power window main switch (door lock and unlock switch).
Refer to DLK-62, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power window main switch (door lock and unlock switch). Refer to PWC-83, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000003142985

1.CHECK DOOR LOCK AND UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door lock and unlock switch) connector.
3. Check power window main switch (door lock and unlock switch).

Power window main switch (door lock and unlock switch)	Terminal		Condition	Continuity
D5	6	17	LOCK	Exists
D6	18		UNLOCK	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch. Refer to PWC-83, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000003142986

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000003142987

1.CHECK FUNCTION

With CONSULT-III
Check “CDL LOCK SW ”and “CDL UNLOCK SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

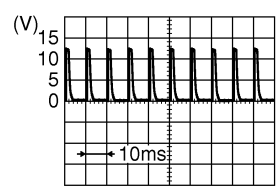
YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-63, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000003142988

1.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Front power window switch (passenger side)			
Connector	Terminal		
D45	1	Ground	
	2		 JPMIA0591GB

Is the inspection result normal?

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

2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

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

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

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M65	46	Ground	Does not exist
	45		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

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

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

Is the inspection result normal?

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

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Check front power window switch (passenger side).
Refer to DLK-64, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front power window switch (passenger side). Refer to PWC-83, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000003142989

1.CHECK DOOR LOCK AND UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect front power window switch (passenger side) (door lock and unlock switch) connector.
3. Check front power window switch (passenger side) (door lock and unlock switch).

Front power window switch (passenger side) (door lock and unlock switch)	Terminal		Condition	Continuity
D45	2	3	LOCK	Exists
	1		UNLOCK	

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace front power window switch (passenger side). Refer to PWC-83, "Removal and Installation".

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001729312

Transmits lock/unlock operation to Intelligent Key unit.

DRIVER SIDE : Component Function Check

INFOID:0000000001729313

1.CHECK FUNCTION

With CONSULT-III

Check door request switch “DR REQ SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Door request switch is OK.
NO >> Refer to DLK-65, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001729314

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

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

2.CHECK DOOR REQUEST SWITCH CIRCUIT

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

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

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	5		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

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

4.CHECK DOOR REQUEST SWITCH

Check outside handle assembly (driver side).
Refer to DLK-66, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace outside handle (driver side). Refer to DLK-292, "OUTSIDE HANDLE : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000001729315

1.CHECK DOOR REQUEST SWITCH

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

Terminal		Door request switch condition	Continuity
Outside handle assembly (driver side)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.
NO >> Replace front outside handle (driver side). Refer to DLK-292, "OUTSIDE HANDLE : Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001729316

Transmits lock/unlock operation to Intelligent Key unit.

PASSENGER SIDE : Component Function Check

INFOID:0000000001729317

1.CHECK FUNCTION

With CONSULT-III
Check door request switch “AS REQ SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Door request switch is OK.
NO >> Refer to DLK-67, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001729318

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

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

2.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

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

3.CHECK DOOR REQUEST SWITCH CIRCUIT

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

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

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	25		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Check outside handle assembly (passenger side).
Refer to DLK-68, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace outside handle (passenger side). Refer to DLK-292, "OUTSIDE HANDLE : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000001729319

1.CHECK DOOR REQUEST SWITCH

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

Terminal		Door request switch condition	Continuity
Outside handle assembly (passenger side)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.
NO >> Replace front outside handle (passenger side). Refer to DLK-292, "OUTSIDE HANDLE : Removal and Installation".

BACK DOOR

BACK DOOR : Description

INFOID:0000000001729320

Transmits lock/unlock operation to Intelligent Key unit.

BACK DOOR : Component Function Check

INFOID:0000000001729321

1.CHECK FUNCTION

With CONSULT-III
Check door request switch “BD/TR REQ SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Door request switch is OK.
NO >> Refer to DLK-68, "BACK DOOR : Diagnosis Procedure".

BACK DOOR : Diagnosis Procedure

INFOID:0000000001729322

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

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

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

Is the inspection result normal?

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

2.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

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

3.CHECK DOOR REQUEST SWITCH CIRCUIT

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

Intelligent Key unit		Back door opener switch (request switch)		Continuity
Connector	Terminal	Connector	Terminal	
M40	29	D197	4	Exists

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	29		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Check back door opener switch assembly (request switch).
Refer to DLK-69, "BACK DOOR : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door opener switch assembly (request switch). Refer to DLK-306, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:0000000001729323

1.CHECK DOOR REQUEST SWITCH

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

Terminal		Door request switch condition	Continuity
Back door opener switch assembly (request switch)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Back door request switch is OK.
NO >> Replace back door opener switch assembly (request switch). Refer to DLK-306, "Removal and Installation".

KEY SWITCH

Description

INFOID:0000000003142978

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

Component Function Check

INFOID:0000000003142979

1.CHECK KEY SWITCH INPUT SIGNAL

Check key switch (“KEY ON SW”) in “Data Monitor” mode with CONSULT-III. Refer to DLK-43, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

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

Is the inspection result normal?

YES >> Key switch is OK.
NO >> Refer to DLK-70, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003142980

1.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK KEY SWITCH SIGNAL CIRCUIT

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

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

2. Check continuity between key switch and ground.

Ignition knob switch, key switch and key lock solenoid		Ground	Continuity
Connector	Terminal		
M25	1		Does not exist

Is the inspection result normal?

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

3.CHECK KEY SWITCH

Check key switch function.
Refer to DLK-71, "Component Inspection".

Is the inspection result normal?

yes >> GO TO 4.
NO >> Replace ignition knob switch, key switch and key lock solenoid.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003142981

COMPONENT INSPECTION

1.CHECK KEY SWITCH

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

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

Is the inspection result normal?

YES >> Key switch is OK.
NO >> Replace ignition knob switch, key switch and key lock solenoid.

KEY CYLINDER SWITCH

Description

INFOID:0000000003142973

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:0000000003142974

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check (“KEY CYL LK-SW”, “KEY CYL UN-SW”) in “DATA MONITOR” mode for “POWER DOOR LOCK SYSTEM” with CONSULT-III. Refer to DLK-43, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

<table>
<tr><th>Monitor item</th><th colspan="2">Condition</th></tr>
<tr><td rowspan="2">KEY CYL LK-SW</td><td>Lock</td><td>: ON</td></tr>
<tr><td>Neutral / Unlock</td><td>: OFF</td></tr>
<tr><td rowspan="2">KEY CYL UN-SW</td><td>Unlock</td><td>: ON</td></tr>
<tr><td>Neutral / Lock</td><td>: OFF</td></tr>
</table>

Is the inspection result normal?

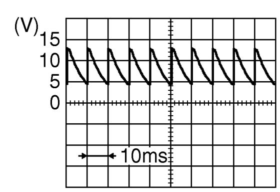
YES >> Key cylinder switch is OK.
NO >> Refer to DLK-72, "Diagnosis Procedure".

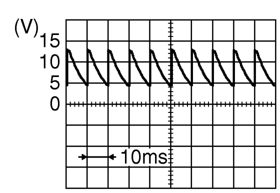
Diagnosis Procedure

INFOID:0000000003142975

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

<table>
<tr><th colspan="2">(+)</th><th rowspan="3">(–)</th><th rowspan="3">Key position</th><th rowspan="3">Voltage (V)
(Approx.)</th></tr>
<tr><th colspan="2">Front door lock assembly (driver side)</th></tr>
<tr><th>Connector</th><th>Terminal</th></tr>
<tr><td rowspan="4">D9</td><td rowspan="2">5</td><td rowspan="4">Ground</td><td>Unlock</td><td>0</td></tr>
<tr><td>Neutral / Unlock</td><td>

JPMIA0587GB</td></tr>
<tr><td rowspan="2">6</td><td>Lock</td><td>0</td></tr>
<tr><td>Neutral / Lock</td><td>

JPMIA0587GB</td></tr>
</table>

Is the inspection result normal?

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

2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. 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	
M65	7	D9	5	Existed
	8		6	

4. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
connector	Terminal		
M65	7		Not existed
	8		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

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

4.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to DLK-73, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door lock assembly (driver side) (key cylinder switch). Refer to DLK-486, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003142976

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

Check front door lock assembly (driver side) (key cylinder switch).

Terminal	Key position	Continuity
Front door lock assembly (driver side) (key cylinder switch) connector		

5	4	Unlock	Existed
		Neutral / Lock	Not existed
6		Lock	Existed
		Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side) (key cylinder switch). Refer to DLK-288, "DOOR LOCK : Removal and Installation".

IGNITION KNOB SWITCH

Description

INFOID:0000000001729348

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

Component Function Check

INFOID:0000000001729349

1.CHECK IGNITION KNOB SWITCH INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Ignition knob switch is OK.
NO >> Refer to DLK-75, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729350

1.CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect ignition knob switch, key switch and key lock solenoid connector.
3. Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Ignition knob switch, key switch and key lock solenoid			
Connector	Terminal		
M25	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK IGNITION KNOB SWITCH SIGNAL CIRCUIT

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

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

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

Ignition knob switch, key switch and key lock solenoid		Ground	Continuity
Connector	Terminal		
M25	3		Does not exist

Is the inspection result normal?

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

3.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

Refer to DLK-76, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace ignition knob switch, key switch and key lock solenoid.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001729351

1.CHECK IGNITION KNOB SWITCH

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

Ignition knob switch, key switch and key lock solenoid		Condition	Continuity
Terminal			
3	4	Ignition knob switch is pressed	Exists
		Ignition knob switch is released	Does not exist

Is the inspection result normal?

YES >> Ignition knob switch is OK.
NO >> Replace ignition knob switch, key switch and key lock solenoid.

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000003142961

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000003142962

1.CHECK FUNCTION

With CONSULT-III
Check “DOOR LOCK/UNLOCK” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.
NO >> Refer to DLK-77, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000003142963

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Front door lock assembly (driver side)				
Connector	Terminal			
D9	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)
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		Door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M67	65	D9	1	Exists
	59		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65		Does not exist
	59		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000003142964

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000003142965

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.
NO >> Refer to DLK-78, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000003142966

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Front door lock actuator (passenger side)				
Connector	Terminal			
D48	2	Ground	Lock	0 → Battery voltage → 0
	1		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace front door lock actuator (passenger side)
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 actuator (passenger side) harness connector.

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65	Ground	Does not exist
	66		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:0000000003142967

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:0000000003142968

1.CHECK FUNCTION

With CONSULT-III
Check “DOOR LOCK/UNLOCK” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Rear door lock actuator LH is OK.
NO >> Refer to DLK-79, "REAR LH : Diagnosis Procedure".

REAR LH : Diagnosis Procedure

INFOID:0000000003142969

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Rear door lock actuator LH				
Connector	Terminal			
D85	1	Ground	Lock	0 → Battery voltage → 0
	2		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT 1

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	66		Does not exist

Is the inspection result normal?

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

3.CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

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

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

Passenger side selective unlock relay		Ground	Continuity
Connector	Terminal		
M90	4		Does not exist

Is the inspection result normal?

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

4.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

1. Check passenger side selective unlock relay.

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger side selective unlock relay.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 4

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

BCM		Passenger side selective unlock relay		Continuity
Connector	Terminal	Connector	Terminal	
M67	65	M90	3	Exists

2. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65		Does not exist

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

REAR RH

REAR RH : Description

INFOID:0000000003142970

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:0000000003142971

1.CHECK FUNCTION

With CONSULT-III
Check “DOOR LOCK/UNLOCK” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Rear door lock actuator RH is OK.
NO >> Refer to DLK-81, "REAR RH : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

INFOID:0000000003142972

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Rear door lock actuator RH				
Connector	Terminal			
D105	2	Ground	Lock	0 → Battery voltage → 0
	1		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT 1

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	66		Does not exist

Is the inspection result normal?

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

3.CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

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

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

Passenger side selective unlock relay		Ground	Continuity
Connector	Terminal		
M90	4		Does not exist

Is the inspection result normal?

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

4.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

1. Check passenger side selective unlock relay.

Selective unlock relay connector	Terminal		Continuity
M90	3	4	Exists

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace passenger side selective unlock relay.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 4

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

BCM		Selective unlock relay		Continuity
Connector	Terminal	Connector	Terminal	
M67	65	M90	3	Exists

2. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65		Does not exist

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

BACK DOOR OPENER ACTUATOR

Description

INFOID:0000000003142958

Opens the back door with the signal from BCM.

Component Function Check

INFOID:0000000003142959

1.CHECK FUNCTION

With CONSULT-III
Check “TRUNK/BACK DOOR” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Back door opener actuator is OK.
NO >> Refer to DLK-83, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003142960

1.CHECK BACK DOOR OPENER ACTUATOR INPUT 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.

(+)		(–)	Condition	Voltage (V) (Approx.)
Back door lock assembly				
Connector	Terminal			
D190	1	Ground	Back door opener switch: Pressed	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

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

BCM		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M66	53	D190	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M66	53		Does not exist

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

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

A
B
C
D
E
F
G
H
I
J
DLK
L
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N
O
P

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D190	2		Exists

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to DLK-498, "DOOR LOCK : Removal and Installation".
NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

Description

INFOID:0000000003142952

Sends the back door opening signal to BCM.

Component Function Check

INFOID:0000000003142954

1.CHECK FUNCTION

With CONSULT-III
Check “TRNK OPNR SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Back door opener switch is OK.
NO >> Refer to DLK-85, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003142956

1.CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Back door opener switch assembly (opener switch)			
Connector	Terminal		
D197	1	Ground	0
			Battery voltage

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

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

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M65	30		Does not exist

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".

NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

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

4.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).
Refer to DLK-86, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door opener switch assembly. Refer to DLK-500, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003142957

1.CHECK BACK DOOR OPENER SWITCH

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

Back door opener switch assembly (opener switch)	Terminal		Back door opener switch condition	Continuity
D197	1	2	Pressed	Exists
			Released	Does not exist

Is the inspection result normal?

YES >> Back door opener switch assembly (opener switch) is OK.
NO >> Replace back door opener switch assembly. Refer to DLK-500, "Removal and Installation".

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001729374

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

DRIVER SIDE : Component Function Check

INFOID:0000000001729375

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check “ANTENNA” in “Active Test” mode with CONSULT-III.
2. Touch “DRIVER ANT”.
3. When Intelligent Key is in outside key antenna (driver side) detection area, LED (on Intelligent Key) blinks.

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

Is the inspection result normal?

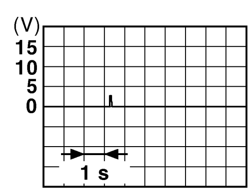
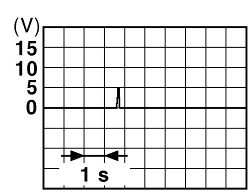
YES >> Outside key antenna (driver side) is OK.
NO >> Refer to DLK-87, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001729376

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

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

Terminals (+) Outside handle assembly (driver side) connector	Terminals (+) Terminal	Terminals (–)	Condition	Signal (Reference value)
D13	1	Ground	Request switch is pressed	 JMKIA0397ZZ
	2			 JMKIA0395ZZ

Is the inspection result normal?

YES >> Replace outside handle assembly (driver side).
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

Intelligent Key unit		Outside handle assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M40	19	D13	1	Exists
	20		2	

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	19		Does not exist
	20		

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness between Intelligent Key unit and outside handle assembly (driver side).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001729377

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

PASSENGER SIDE : Component Function Check

INFOID:0000000001729378

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check “ANTENNA” in “Active Test” mode with CONSULT-III.
2. Touch “ASSIST ANT”.
3. When Intelligent Key is in outside key antenna (passenger side) detection area, LED (on Intelligent Key) blinks.

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

Is the inspection result normal?

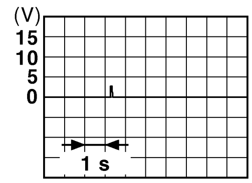
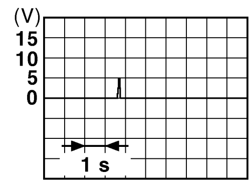
YES >> Outside key antenna (passenger side) is OK.
NO >> Refer to DLK-88, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001729379

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

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

Terminals			Condition	Signal (Reference value)
(+)		(–)		
Outside handle assembly (passenger side) connector	Terminal			
D33	1	Ground	Request switch is pressed	 JMKIA0397ZZ
D33	2	Ground	Request switch is pressed	 JMKIA0395ZZ

Is the inspection result normal?

YES >> Replace outside handle assembly (passenger side).
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

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

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	37		Does not exist
	38		

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness between Intelligent Key unit and outside handle assembly (passenger side).

REAR BUMPER

REAR BUMPER : Description

INFOID:0000000001729380

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

REAR BUMPER : Component Function Check

INFOID:0000000001729381

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check “ANTENNA” in “Active Test” mode with CONSULT-III.
2. Touch “BK DOOR ANT”.
3. When Intelligent Key is in outside key antenna (rear bumper) detection area, LED (on Intelligent Key) blinks.

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

Is the inspection result normal?

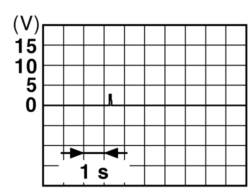
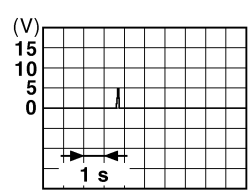
YES >> Outside key antenna (rear bumper) is OK.
NO >> Refer to DLK-90, "REAR BUMPER : Diagnosis Procedure".

REAR BUMPER : Diagnosis Procedure

INFOID:0000000001729382

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

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

Terminal (+) Outside key antenna (rear bumper) connector	Terminal (+) Terminal	Terminal (–)	Condition	Signal (Reference value)
B83	1	Ground	Request switch is pressed	
B83	2	Ground	Request switch is pressed	

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper).
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

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

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	17		Does not exist
	18		

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-308, "Removal and Installation".
NO >> Repair or replace harness between Intelligent Key unit and outside key antenna (rear bumper).

INSIDE KEY ANTENNA

INSTRUMENT CENTER

INSTRUMENT CENTER : Description

INFOID:0000000001729383

Detects whether Intelligent Key is inside the vehicle.

INSTRUMENT CENTER : Component Function Check

INFOID:0000000001729384

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check “ANTENNA” in “Active Test” mode with CONSULT-III.
2. Touch “ROOM ANT 2”.
3. When Intelligent Key is in inside key antenna (instrument center) detection area, LED (on Intelligent Key) blinks.

Test Item		Inside Antenna
ANTENNA	:ROOM ANT 2	Inside key antenna (instrument center)

Is the inspection result normal?

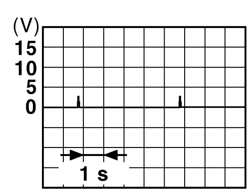
YES >> Inside key antenna (instrument center) is OK.
NO >> Refer to DLK-92, "INSTRUMENT CENTER : Diagnosis Procedure".

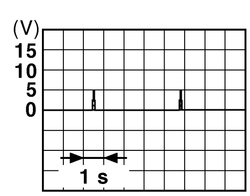
INSTRUMENT CENTER : Diagnosis Procedure

INFOID:0000000001729385

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

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

<table>
<tr><th colspan="3">Terminals</th><th rowspan="3">Condition</th><th rowspan="3">Signal
(Reference value)</th></tr>
<tr><th colspan="2">(+)</th><th rowspan="2">(–)</th></tr>
<tr><th>Inside key antenna (instrument center) connector</th><th>Terminal</th></tr>
<tr><td rowspan="2">M56</td><td>1</td><td rowspan="2">Ground</td><td rowspan="2">Ignition knob switch is pressed</td><td>

JMKIA0393ZZ</td></tr>
<tr><td>2</td><td>

JMKIA0392ZZ</td></tr>
</table>

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center).

NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check continuity between Intelligent Key unit harness connector and inside key antenna (instrument center) harness connector.

Intelligent Key unit		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M40	33	M56	1	Exists
	34		2	

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	33		Does not exist
	34		

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (instrument center).

CONSOLE

CONSOLE : Description

INFOID:0000000001729386

Detects whether Intelligent Key is inside the vehicle.

CONSOLE : Component Function Check

INFOID:0000000001729387

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check “ANTENNA” in “Active Test” mode with CONSULT-III.
2. Touch “ROOM ANT 1”.
3. When Intelligent Key is in inside key antenna (console) detection area, LED (on Intelligent Key) blinks.

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

Is the inspection result normal?

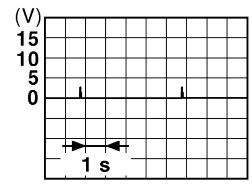
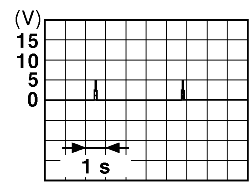
YES >> Inside key antenna (console) is OK.
NO >> Refer to DLK-93, "CONSOLE : Diagnosis Procedure".

CONSOLE : Diagnosis Procedure

INFOID:0000000001729388

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL

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

Terminal			Condition	Signal (Reference value)
(+)		(–)		
Inside key antenna (console) connector	Terminal			
M252	1	Ground	Ignition knob switch is pressed	 JMKIA0393ZZ
	2			 JMKIA0392ZZ

Is the inspection result normal?

YES >> Replace inside key antenna (console).
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

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

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	15		Does not exist
	16		

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (console).

REAR SEAT

REAR SEAT : Description

INFOID:0000000001729389

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check

INFOID:0000000001729390

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check “ANTENNA” in “Active Test” mode with CONSULT-III.

2. Touch “ROOM ANT 2”.
3. When Intelligent Key is in inside key antenna (rear seat) detection area, LED (on Intelligent Key) blinks.

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

Is the inspection result normal?

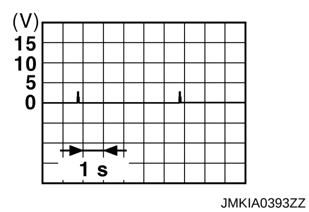
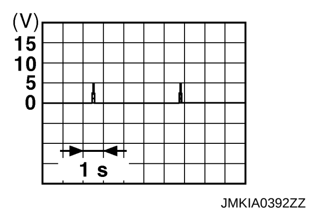
YES >> Inside key antenna (rear seat) is OK.
NO >> Refer to DLK-95, "REAR SEAT : Diagnosis Procedure".

REAR SEAT : Diagnosis Procedure

INFOID:0000000001729391

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL

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

Terminal (+) Intelligent Key unit connector	Terminal (+) Terminal	Terminal (–)	Condition	Signal (Reference value)
B45	1	Ground	Ignition knob switch is pressed	
	2			

Is the inspection result normal?

YES >> Replace inside key antenna (rear seat).
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

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

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

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	13	Ground	Does not exist
	14		

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (rear seat).

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:0000000001729396

Answers back and warns about an inappropriate operation.

Component Function Check

INFOID:0000000001729397

1.CHECK FUNCTION

With CONSULT-III
Check Intelligent Key warning buzzer “OUTSIDE BUZZER” in “Active Test” mode with CONSULT-III.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.
NO >> Refer to DLK-97, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729398

1.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace Intelligent Key warning buzzer power supply circuit.

2.CHECK HARNESS CONTINUITY

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

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

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

Intelligent Key warning buzzer		Ground	Continuity
Connector	Terminal		
E25	3		Does not exist

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between Intelligent Key warning buzzer and Intelligent Key unit.

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-98, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-305, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001729399

1.CHECK INTELLIGENT KEY WARNING BUZZER

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

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

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-305, "Removal and Installation".

BUZZER (COMBINATION METER)

Description

INFOID:0000000001729400

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000001729401

1.CHECK FUNCTION

With CONSULT-III
Check the operation with “INSIDE BUZZER” in “Active Test” with CONSULT-III.

Test item	Condition	
INSIDE BUZZER	TAKE OUT	Take away warning chime sounds
	KNOB	Ignition knob switch warning chime sounds
	KEY	Key warning chime sounds

Is the inspection result normal?

YES >> Warning buzzer in combination meter is OK.
NO >> Refer to DLK-99, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729402

1.CHECK BUZZER (COMBINATION METER) CIRCUIT

Refer to WCS-21, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace buzzer (combination meter) circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

KEY WARNING LAMP

Description

INFOID:0000000001729403

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:0000000001729404

1.CHECK FUNCTION

With CONSULT-III
Check the operation with “INDICATOR” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Key warning lamp in combination meter is OK.
NO >> Refer to DLK-100, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729405

1.CHECK KEY WARNING LAMP CIRCUIT

Refer to MWI-4, "Work flow".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace key warning lamp circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

UNLOCK SENSOR

Description

INFOID:0000000003193400

Detects door lock condition of driver door.

Diagnosis Procedure

INFOID:0000000003193402

1.CHECK UNLOCK SENSOR POWER SUPPLY

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

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

Is the inspection result normal?

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

2.CHECK UNLOCK SENSOR GROUND CIRCUIT

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

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

Is the inspection result normal?

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

3.CHECK UNLOCK SENSOR

Check unlock sensor.
Refer to DLK-102, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door lock assembly (driver side). Refer to DLK-288, "DOOR LOCK : Removal and Installation".

4.CHECK UNLOCK SENSOR CIRCUIT

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

Front door lock assembly (driver side)		Intelligent Key unit		Continuity
Connector	Terminal	Connector	Terminal	
D9	3	M40	28	Exists

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

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D9	3		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".

NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003193403

1.CHECK UNLOCK SENSOR

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace front lock assembly (driver side). Refer to DLK-288, "DOOR LOCK : Removal and Installation".

PARK POSITION SWITCH

Description

INFOID:0000000003194803

Detects park position condition.

Diagnosis Procedure

INFOID:0000000003194804

1.CHECK PARK POSITION SWITCH POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Control device			
Connector	Terminal		
M57	16	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK PARK POSITION SWITCH GROUND CIRCUIT

Check continuity between contol device connector and ground.

Control device		Ground	Continuity
Connector	Terminal		
M57	4		Exist

Is the inspection result normal?

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

3.CHECK PARK POSITION SWITCH

Check park position switch.
Refer to DLK-104, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace park position switch.

4.CHECK PARK POSITION SWITCH CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check continuity between control device harness connector and Intelligent Key unit harness connector.

Control device		Intelligent Key unit		Continuity
Connector	Terminal	Connector	Terminal	
M57	16	M40	10	Exists

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

Control device		Ground	Continuity
Connector	Terminal		
M57	16		Does not exist

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003194805

1.CHECK PARK POSITION SWITCH

1. Turm ignition switch OFF.
2. Disconnect control device connector.
3. check park position switch.

Terminal		Condition	Continuity
Control device			
4	16	Selector lever is in ″P″ position	Existed
		Other than above	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace park position switch.

SELECTIVE UNLOCK RELAY

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000003208541

Receives selective unlock signal from Intelligent Key unit.

PASSENGER SIDE : Component Function Check

INFOID:0000000003208542

1. CHECK FUNCTION

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

Is the inspection result normal?

YES >> Selective unlock relay is OK.
NO >> Refer to DLK-105, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000003208543

1. CHECK FUSE

Check that the following fuse are not fusing.

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

Is the inspection result normal?

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

2. CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

Check voltage between Intelligent Key unit harness connector and ground.

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

Is the inspection result normal?

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

3. CHECK PASSENGER SIDE SELECTIVE UNLOCK RELAY

Check passenger side selective unlock relay.
Refer to DLK-106, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace passenger side selective unlock relay.

4. CHECK PASSENGER SIDE SELECTIVE RELAY CIRCUIT

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

Passenger side selective unlock relay		Intelligent Key unit		Continuity
Connector	Terminal	Connector	Terminal	
M90	1	M40	40	Exists

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

Passenger side selective unlock relay		Ground	Continuity
Connector	Terminal		
M90	1		Does not exist

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5.CHECK PASSENGER SIDE SELECTIVE RELAY INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Replace passenger side selective unlock relay.
NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000003208544

1.CHECK SELECTIVE UNLOCK RELAY

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

Passenger side selective unlock relay			Condition	Continuity
Connector	Terminal			
M90	4	3	Battery voltage direct current supply between terminals 1 and 2	Does not exist
			Other than above	Exists

Is the inspection result normal?

YES >> Passenger side selective unlock relay is OK.
NO >> Replace passenger side selective unlock relay.

HAZARD FUNCTION

Description

INFOID:0000000003142946

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

Component Function Check

INFOID:0000000003142947

1.CHECK FUNCTION

Check hazard warning lamp “FLASHER” in Active Test with CONSULT-III.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.
NO >> Refer to DLK-107, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003142948

1.CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-42, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace hazard warning switch circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

HORN FUNCTION

EXCEPT FOR MEXICO

EXCEPT FOR MEXICO : Description

INFOID:0000000003161422

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

EXCEPT FOR MEXICO : Component Function Check

INFOID:0000000003161423

1.CHECK FUNCTION

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

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

Is the operation normal?

YES >> INSPECTION END
NO >> Refer to DLK-108, "EXCEPT FOR MEXICO : Diagnosis Procedure".

EXCEPT FOR MEXICO : Diagnosis Procedure

INFOID:0000000003161424

1.CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

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

2.CHECK HORN RELAY CIRCUIT

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

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

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E15	57		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-28, "Removal and Installation".
NO >> Repair or replace harness.

FOR MEXICO

FOR MEXICO : Description

INFOID:0000000003161425

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

FOR MEXICO : Component Function Check

INFOID:0000000003161426

1.CHECK FUNCTION

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

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

Is the operation normal?

YES >> INSPECTION END
NO >> Refer to DLK-109, "FOR MEXICO : Diagnosis Procedure".

FOR MEXICO : Diagnosis Procedure

INFOID:0000000003161427

1.CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

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

2.CHECK HORN RELAY CIRCUIT

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

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

4. Check continuity between IPDM E/R harness connector and theft warning horn relay harness connector.

IPDM E/R		Theft warning horn relay		Continuity
Connector	Terminal	Connector	Terminal	
E15	57	E70	1	Existed

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E15	57		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-28, "Removal and Installation".
NO >> Repair or replace harness.

INTELLIGENT KEY BATTERY

Description

INFOID:0000000001729415

The following functions are available when having and carrying electronic ID.
- Door lock and unlock
- Engine start

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

Component Function Check

INFOID:0000000001729416

1.CHECK INTELLIGENT KEY FUNCTION

Check door lock and unlock operation with Intelligent Key switch.

Is the inspection result normal?

YES >> Intelligent Key is OK.
NO >> Refer to DLK-110, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729417

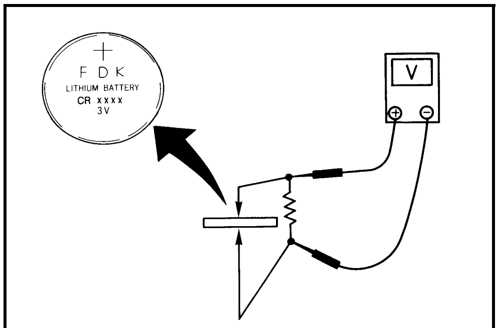
1.CHECK INTELLIGENT KEY BATTERY

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-110, "Component Function Check".



OCC0607D

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:0000000003222640

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:0000000003222641

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-111, "Diagnosis Procedure".

3.CHECK TRANSMITTER

Check transmitter with Tool*.
*:For details, refer to Technical Service Bulletin.

Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.
NO >> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to MIR-18, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000003222642

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.)
R9	10	Ground	Ignition switch position: LOCK	Battery voltage
	6		Ignition switch position: ON	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following.
- 10A fuse [No. 1 located in the fuse block (J/B)]
- 10A fuse [No. 8 located in the fuse block (J/B)]
- Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink universal transceiver).

2.CHECK GROUND CIRCUIT

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

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

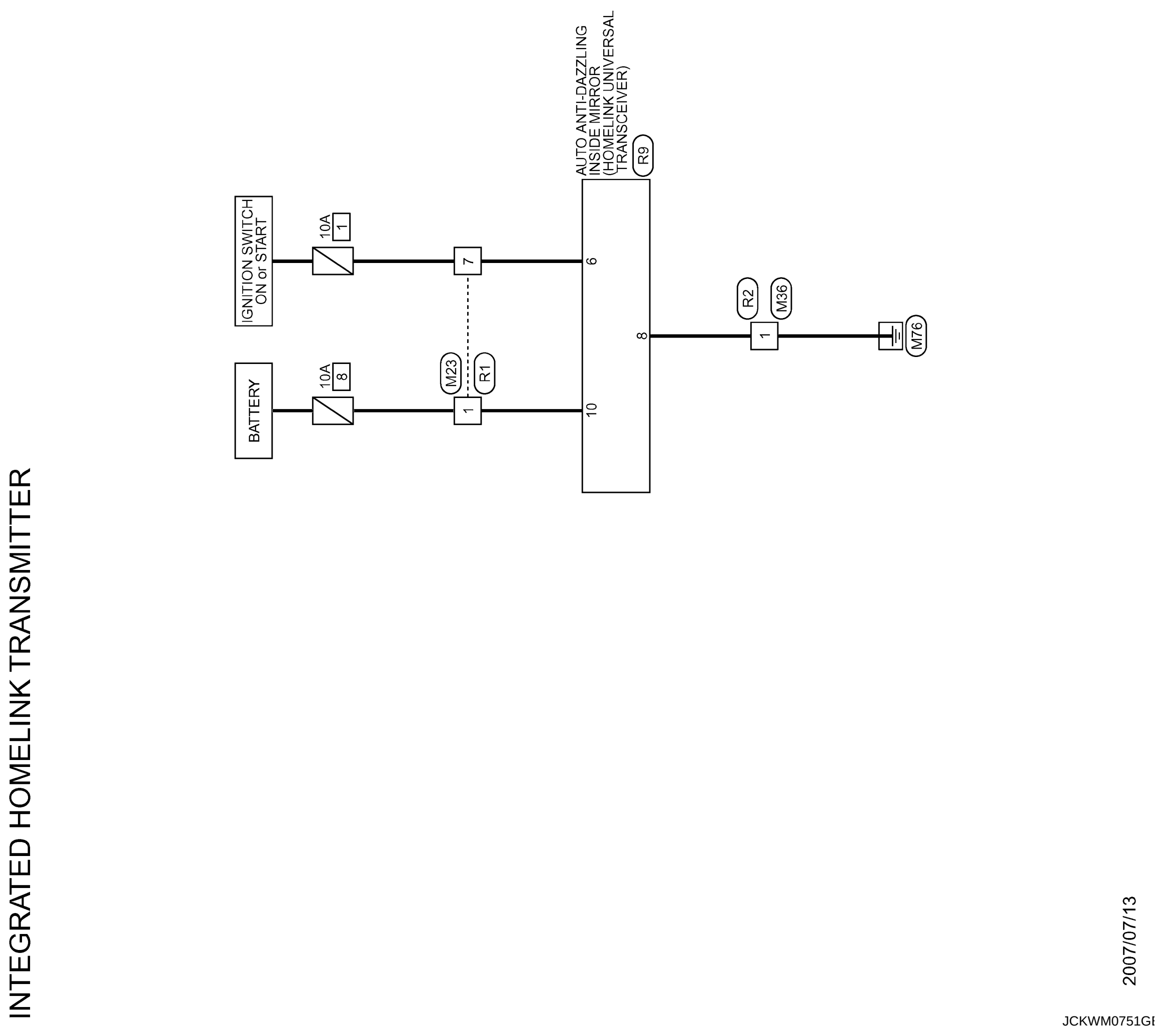
Is the inspection result normal?

YES >> Replace auto anti-dazzling inside mirror.
NO >> Repair or replace harness.

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM -

INFOID:0000000003223006

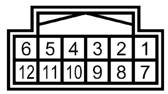


JCKWM0751GB

INTEGRATED HOMELINK TRANSMITTER

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

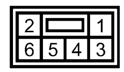
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
7	P	–

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	NS06FBR-CS

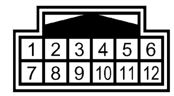
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH

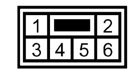
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	B/Y	–
7	B/R	–

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	NS06MBR-CS

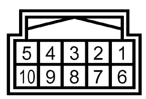
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–

Connector No.	R9
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	B/R	–
8	B	–
10	B/Y	–

JCKWM0752GI

ECU DIAGNOSIS

INTELLIGENT KEY UNIT

Reference Value

INFOID:0000000001729418

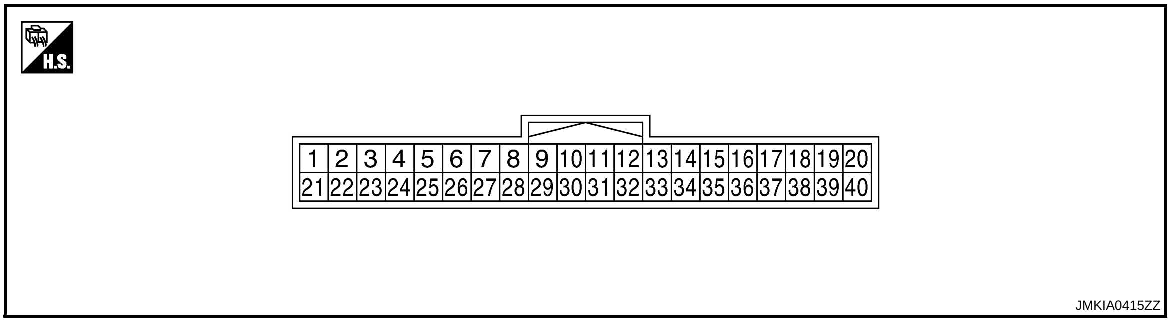
VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition		Value/Status
PUSH SW	Ignition knob	Release	OFF
		Press	ON
KEY SW	Mechanical key	Removed	OFF
		Inserted	ON
DR REQ SW	Door request switch (driver)	Release	OFF
		Press	ON
AS REQ SW	Door request switch (passenger)	Release	OFF
		Press	ON
BD/TR REQ SW	Door request switch (back door)	Release	OFF
		Press	ON
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
ACC SW	Ignition switch	Other than ACC or ON position	OFF
		ACC or ON position	ON
STOP LAMP SW	Brake pedal	Press	OFF
		Release	ON
P RANGE SW	Shift position	P position	ON
		Other than P position	OFF
BD OPEN SW	The item is indicated, but not monitored.		
TR CANCEL SW	The item is indicated, but not monitored.		
DOOR LOCK SIG	Lock button of Intelligent Key	Release	OFF
		Press	ON
DOOR UNLOCK SIG	Unlock button of Intelligent Key	Release	OFF
		Press	ON
KEYLESS TRUNK	The item is indicated, but not monitored.		
KEYLESS PANIC	PANIC button of key fob	Release	OFF
		Press	ON
KEYLESS PSD LH	The item is indicated, but not monitored.		
KEYLESS PSD RH	The item is indicated, but not monitored.		
KEYLESS PBD SIG	The item is indicated, but not monitored.		
DOOR SW DR	Door (driver side)	Close	OFF
		Open	ON
DOOR SW AS	Door (passenger side)	Close	OFF
		Open	ON
DOOR SW RR	Door (rear RH)	Close	OFF
		Open	ON
DOOR SW RL	Door (rear LH)	Close	OFF
		Open	ON

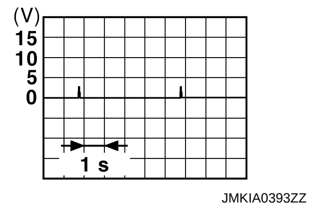
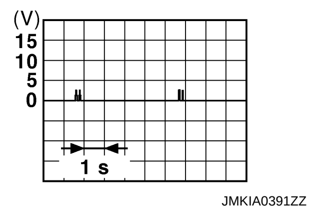
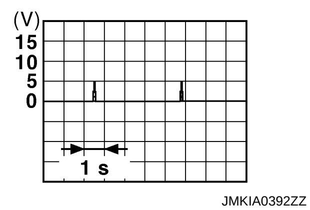
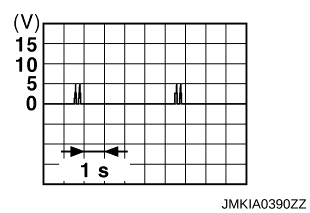
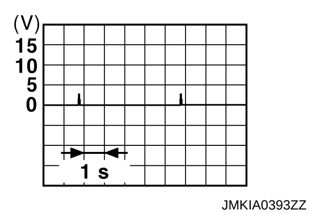
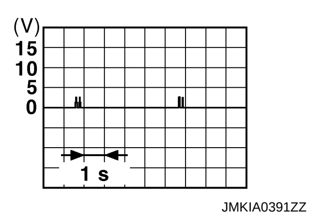
Monitor Item	Condition		Value/Status
DOOR BK SW	Back door	Close	OFF
		Open	ON
TRUNK SW	The item is indicated, but not monitored.		
VEHICLE SPEED	While driving		Equivalent to speedometer reading

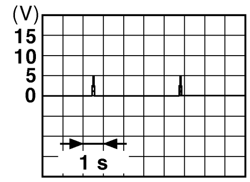
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color) +	Terminal No. (wire color) –	Description: Signal name	Description: Input/Output	Condition		Value [V] (Approx.)
1 (GR)	Ground	Steering lock unit power supply	Output	—		5
2 (L)	Ground	CAN - H	Input/Output	—		—
3 (P)	Ground	CAN - L	Input/Output	—		—
4 (O)	Ground	Intelligent Key warning buzzer	Output	Intelligent Key warning buzzer	Sounding	0
					Not sounding	Battery voltage
5 (Y)	Ground	Front door request switch (driver side)	Input	Front door request switch (driver side)	ON (Pressed)	0
					OFF (Released)	5
6 (W)	Ground	Ignition switch power supply	Input	Ignition switch	OFF or ACC	0
					ON or START	Battery voltage
7 (LG)	Ground	Key switch	Input	When ignition key is inserted into ignition key cylinder		Battery voltage
				When ignition key is not inserted into ignition key cylinder		0
10 (SB)	Ground	Park position switch	Input	Shift lever in park position		0
				Other than above		Battery voltage
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON		0

Terminal No. (wire color) +	Terminal No. (wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value [V] (Approx.)
13 (Y)	Ground	Inside key antenna (+) (rear seat)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	 JMKIA0393ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0391ZZ
14 (BR)	Ground	Inside key antenna (-) (rear seat)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	 JMKIA0392ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0390ZZ
15 (R)	Ground	Inside key antenna (+) (console)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	 JMKIA0393ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0391ZZ

<table>
<tr><th colspan="2">Terminal No. (wire color)</th><th colspan="2">Description</th><th colspan="2" rowspan="2">Condition</th><th rowspan="2">Value [V] (Approx.)</th></tr>
<tr><th>+</th><th>–</th><th>Signal name</th><th>Input/ Output</th></tr>
<tr><td rowspan="2">16 (G)</td><td rowspan="2">Ground</td><td rowspan="2">Inside key antenna (-) (console)</td><td rowspan="2">Output</td><td rowspan="2">Ignition knob is pressed.</td><td>When Intelligent Key is in the antenna detection area</td><td>
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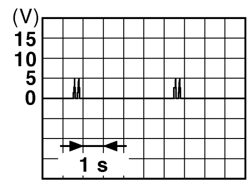
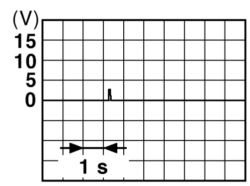
<tr><td>When Intelligent Key is not in the antenna detection area</td><td>
JMKIA0390ZZ</td></tr>
<tr><td rowspan="2">17 (W)</td><td rowspan="2">Ground</td><td rowspan="2">Outside key antenna (+) (rear bumper)</td><td rowspan="2">Output</td><td rowspan="2">When the back door request switch is operated with ignition switch OFF</td><td>When Intelligent Key is in the antenna detection area</td><td>
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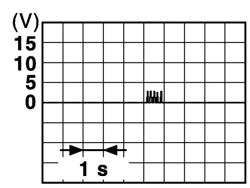
<tr><td>When Intelligent Key is not in the antenna detection area</td><td>
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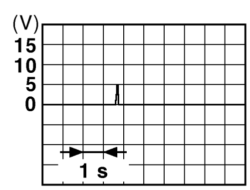
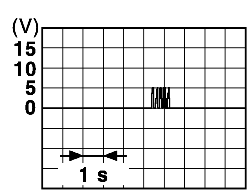
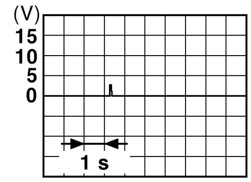
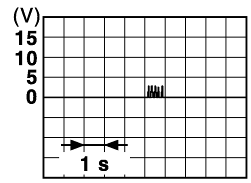
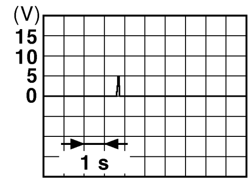
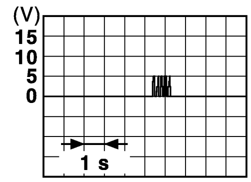
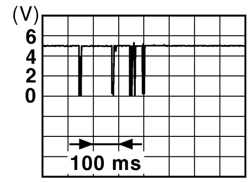
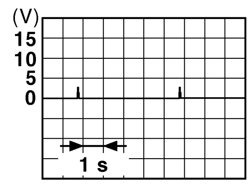
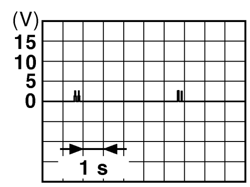
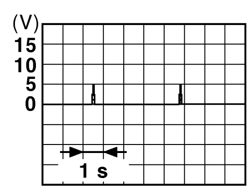
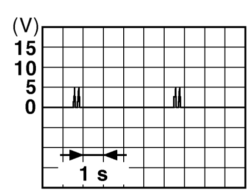
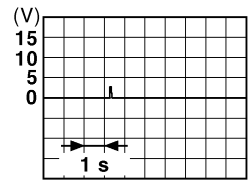
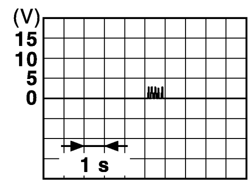
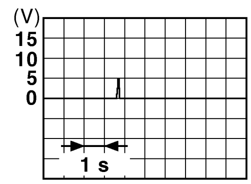
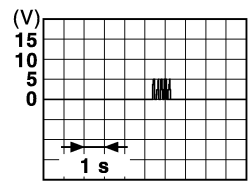
<tr><td rowspan="2">18 (R)</td><td rowspan="2">Ground</td><td rowspan="2">Outside key antenna (-) (rear bumper)</td><td rowspan="2">Output</td><td rowspan="2">When the back door request switch is operated with ignition switch OFF</td><td>When Intelligent Key is in the antenna detection area</td><td>
JMKIA0395ZZ</td></tr>
<tr><td>When Intelligent Key is not in the antenna detection area</td><td>
JMKIA0515ZZ</td></tr>
</table>

Terminal No. (wire color) +	Terminal No. (wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value [V] (Approx.)
19 (BR)	Ground	Outside key antenna (+) (driver side)	Output	When the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0397ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0514ZZ
20 (O)	Ground	Outside key antenna (-) (driver side)	Output	When the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0395ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0515ZZ
25 (BR)	Ground	Front door request switch (passenger side)	Input	Front door request switch (passenger side)	ON (Pressed)	0
					OFF (Released)	5
26 (B)	Ground	Stop lamp switch	Input	Depress the brake pedal		Battery voltage
				Release the brake pedal		0
27 (G)	Ground	Ignition knob switch	Input	Ignition switch OFF	When ignition knob switch is pressed	Battery voltage
					When ignition knob switch is released	0
28 (W)	Ground	Unlock sensor	Input	Lock (ON)		5
				Unlock (OFF)		0
29 (SP)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed)	0
					OFF (Released)	5
31 (L)	Ground	Steering lock unit ground	—	—	—	0

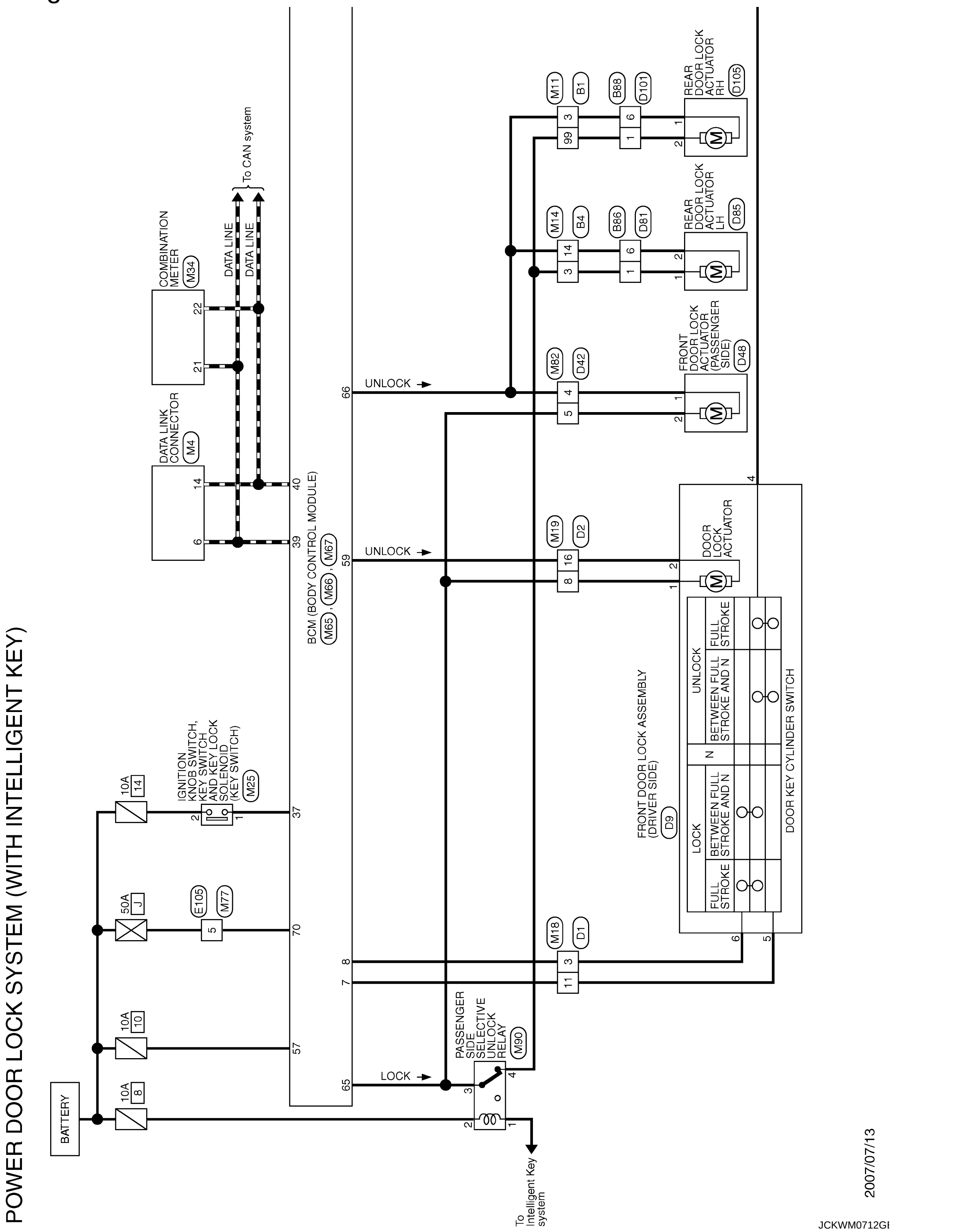
Terminal No. (wire color) +	Terminal No. (wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value [V] (Approx.)
32 (P)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	5
					LOCK or UNLOCK	 JMKIA0433ZZ
33 (L)	Ground	Inside key antenna (+) (instrument center)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	 JMKIA0393ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0391ZZ
34 (P)	Ground	Inside key antenna (-) (instrument center)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	 JMKIA0392ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0390ZZ

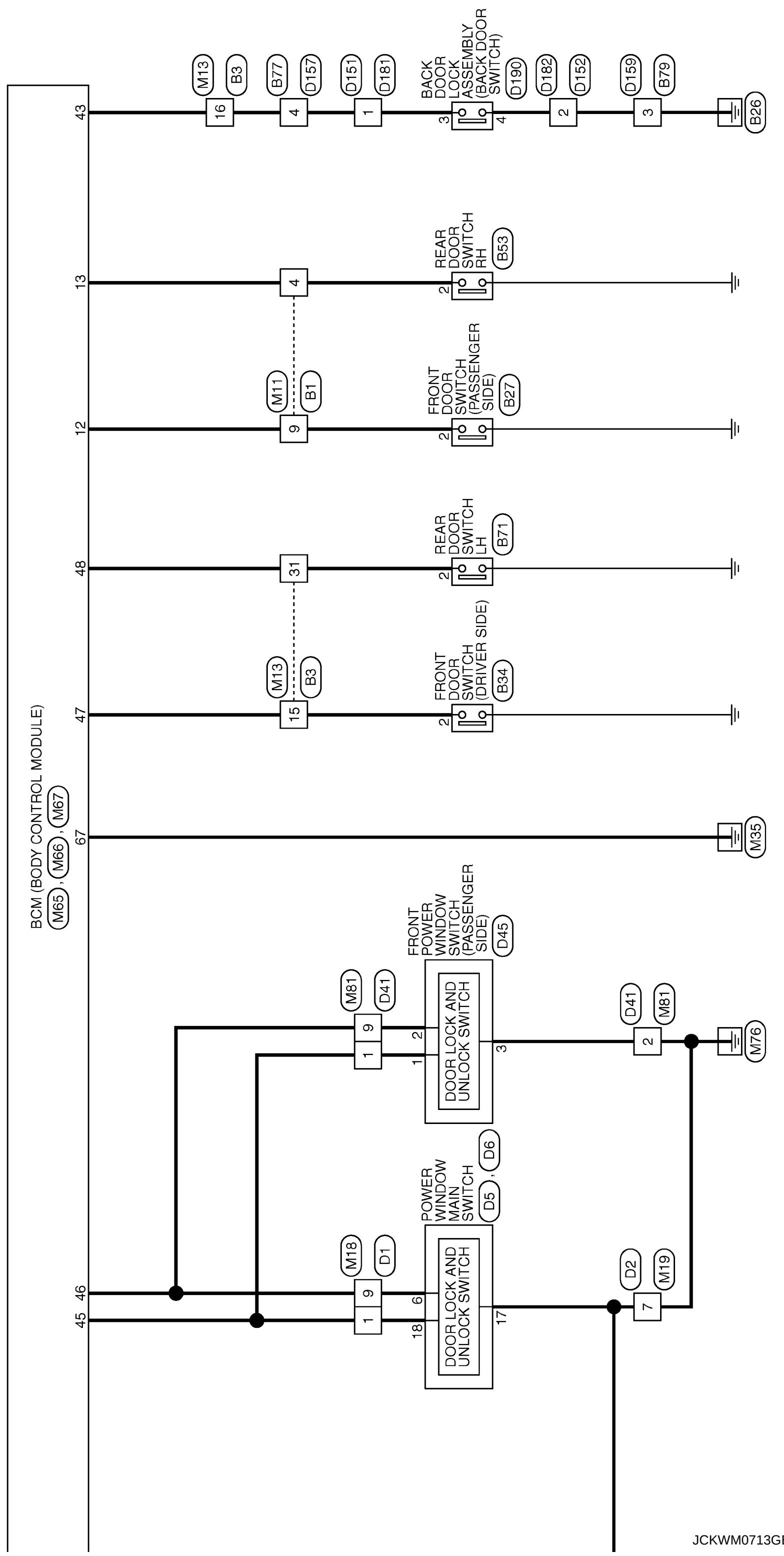
Terminal No. (wire color) +	Terminal No. (wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value [V] (Approx.)
37 (V)	Ground	Outside key antenna (+) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0397ZZ
					When Intelligent Key is in the antenna detection area	 JMKIA0514ZZ
38 (P)	Ground	Outside key antenna (-) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0395ZZ
					When Intelligent Key is not in the antenna detection area	 JMKIA0515ZZ
40 (V)	Ground	Passenger side selective unlock relay	Input	Press front door request switch (passenger side)	Anti-hijack operation	Battery voltage → 0 → Battery voltage
					Other than above	Battery voltage

A B C D E F G H I J DLK L M N O P

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

INFOID:0000000001729419



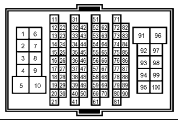


A
B
C
D
E
F
G
H
I
J
DLK
L
M
N
O
P

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

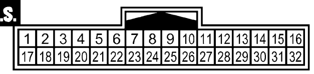
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

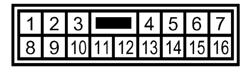
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	–
16	W	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

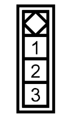
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

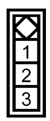
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

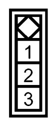
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

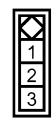
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW

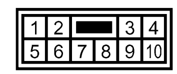
H.S.



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.



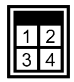
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

JCKWM0714GI

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

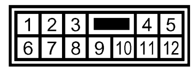
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

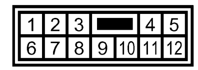
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

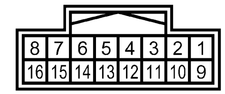
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

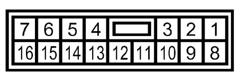
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	W	–
9	BR	–
11	L	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

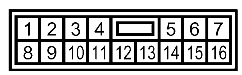
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS

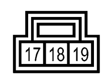
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	–

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

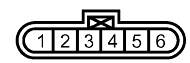
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	–
18	P	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

H.S.



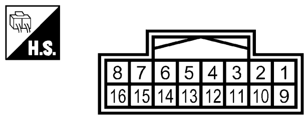
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
4	B	–
5	L	–
6	W	–

JCKWM0715GI

A B C D E F G H I J DLK L M N O P

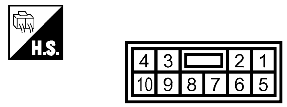
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



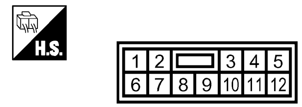
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	B	–
9	BR	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



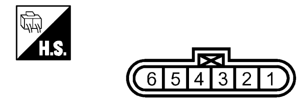
Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



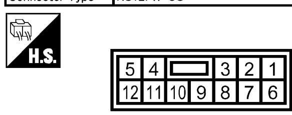
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	BR	–
3	B	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS



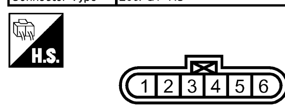
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



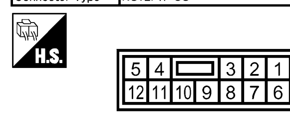
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS



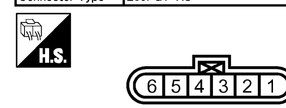
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	G	–

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS

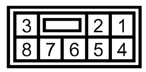


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	V	–

JCKWM0716GI

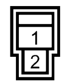
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



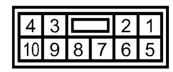
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC



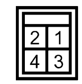
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



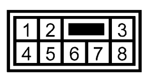
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

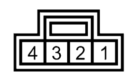


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

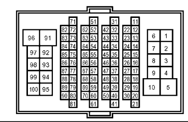
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

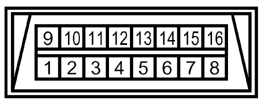


Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0717GB

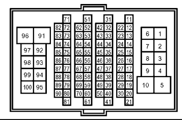
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



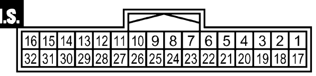
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



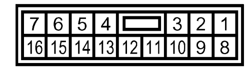
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



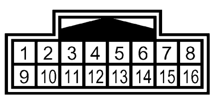
Terminal No.	Color of Wire	Signal Name [Specification]
15	W	–
16	V	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



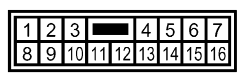
Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



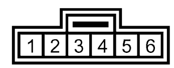
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	R	–
9	BR	–
11	L	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



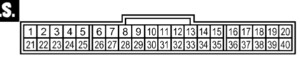
Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



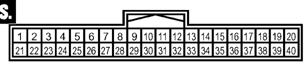
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

JCKWM0718GI

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

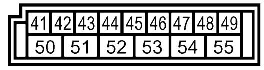
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	L	KEY CYC UNLOCK
8	R	KEY CYL LOCK SW
12	P	DR SW AS
13	LG	DR SW RR
37	LG	KEY SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

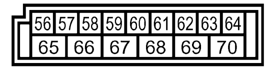
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
45	P	CDLLOCKSW
46	BR	CDLUNLOCKSW
47	W	DR SW DR
48	GR	DR SW RL

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

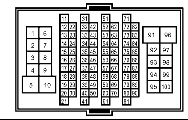
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
59	L	D/L UNLOCK DR
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

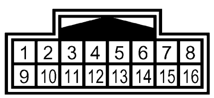
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

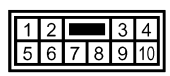
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
9	O	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

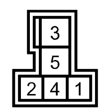
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

Connector No.	M90
Connector Name	PASSENGER SIDE SELECTIVE UNLOCK RELAY
Connector Type	MS03FB-M2-LC

H.S.



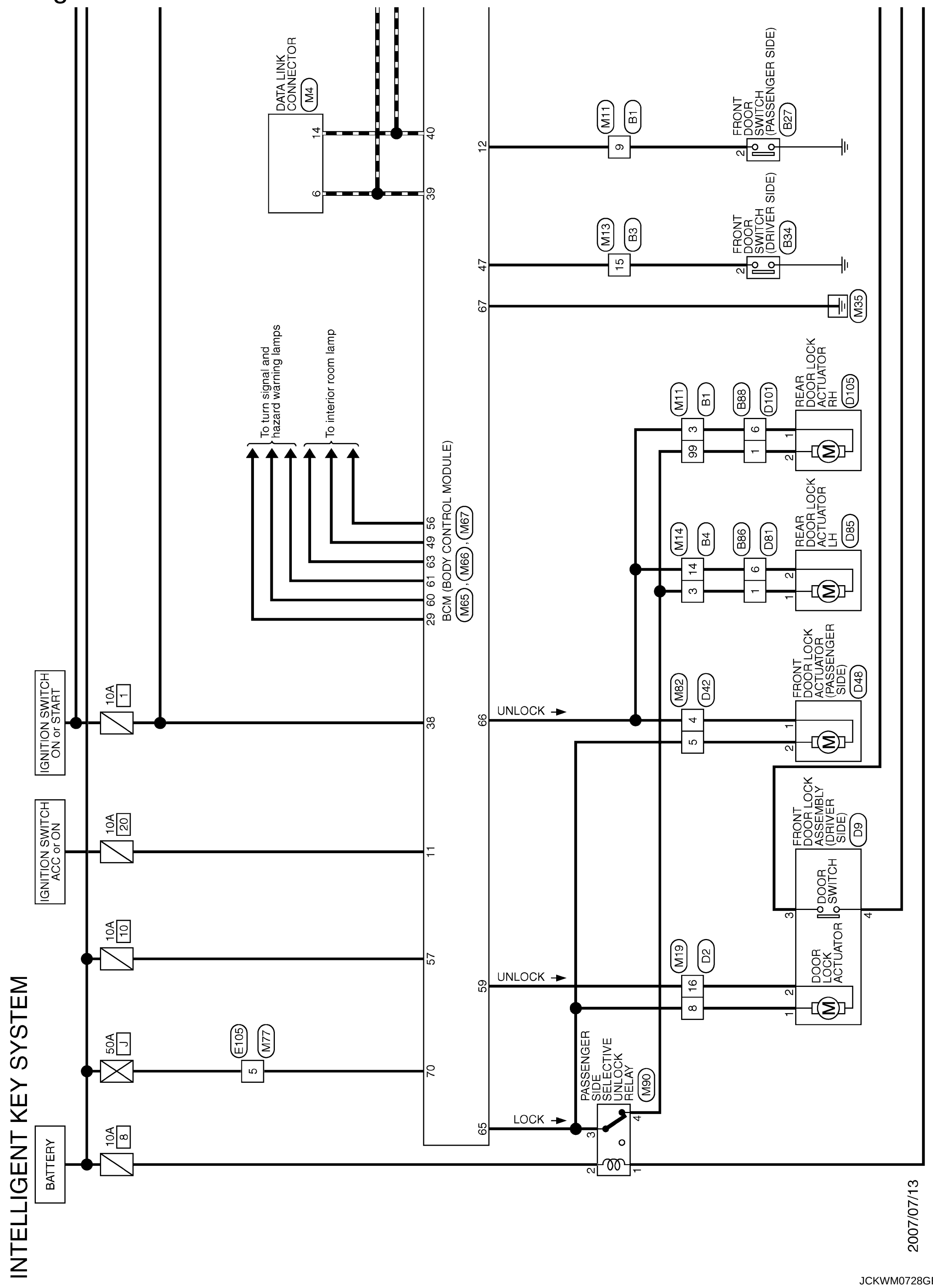
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	LG	–
3	V	–
4	R	–

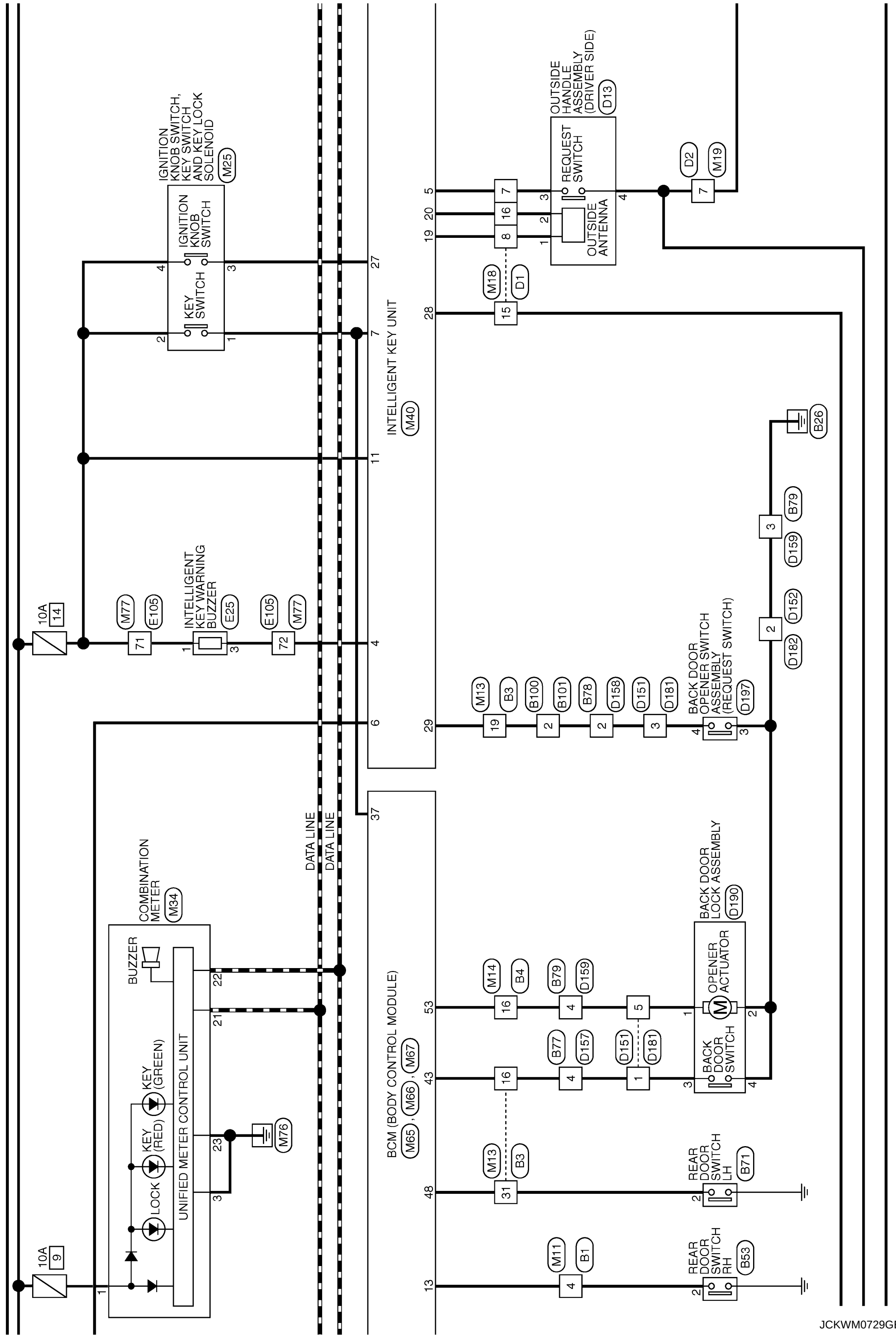
JCKWM0719GB

A B C D E F G H I J DLK L M N O P

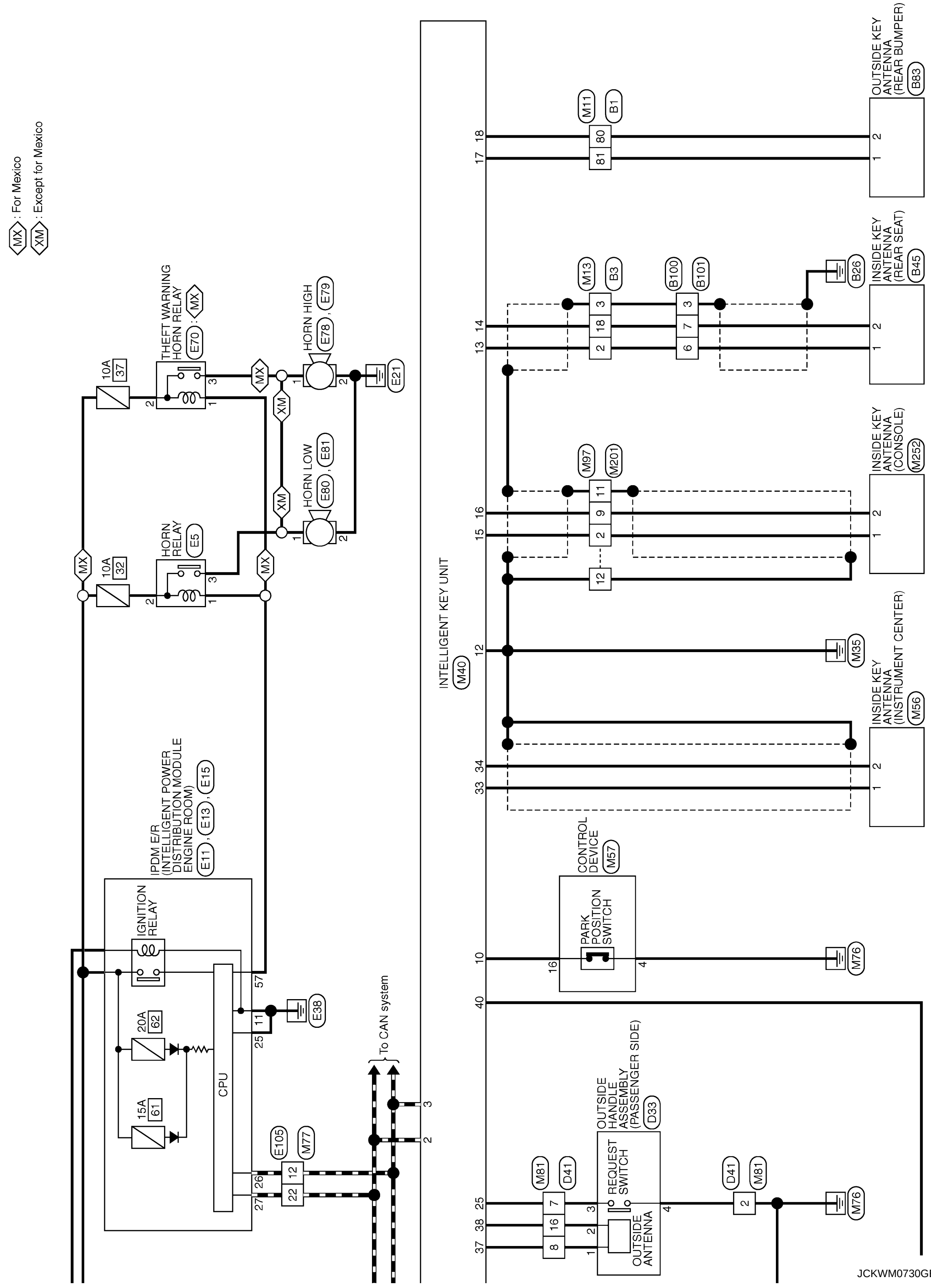
Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

INFOID:0000000001729420





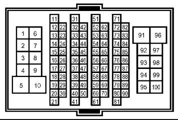
IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
M25
IGNITION KNOB SWITCH
KEY SWITCH
OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
D13
REQUEST SWITCH
OUTSIDE ANTENNA
INTELLIGENT KEY UNIT
M40
INTELLIGENT KEY WARNING BUZZER
E25
10A
14
10A
9
BACK DOOR OPENER SWITCH ASSEMBLY (REQUEST SWITCH)
D197
BACK DOOR LOCK ASSEMBLY
D190
OPENER ACTUATOR
BACK DOOR SWITCH
DATA LINE
DATA LINE
COMBINATION METER
M34
BUZZER
UNIFIED METER CONTROL UNIT
LOCK
KEY (RED)
KEY (GREEN)
M76
BCM (BODY CONTROL MODULE)
M65, M66, M67
REAR DOOR SWITCH LH
B71
REAR DOOR SWITCH RH
B53
B26
JCKWM0729GB



MX : For Mexico
XM : Except for Mexico
THEFT WARNING HORN RELAY E70 : MX
HORN HIGH E78, E79
HORN LOW E80, E81
HORN RELAY E5
E21
10A 37
10A 32
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E11, E13, E15
IGNITION RELAY
20A 62
15A 61
CPU
E38
To CAN system
E105
M77
INTELLIGENT KEY UNIT M40
CONTROL DEVICE M57
PARK POSITION SWITCH
OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE) D33
REQUEST SWITCH
OUTSIDE ANTENNA
M81
D41
M76
OUTSIDE KEY ANTENNA (REAR BUMPER) B83
M11
B1
INSIDE KEY ANTENNA (REAR SEAT) B45
B26
M13
B3
B100
B101
INSIDE KEY ANTENNA (CONSOLE) M252
M97
M201
INSIDE KEY ANTENNA (INSTRUMENT CENTER) M56
M35
JCKWM0730GB

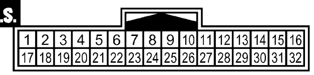
INTELLIGENT KEY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



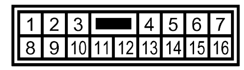
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
80	R	–
81	W	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



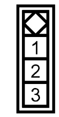
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	–
3	B	–
15	P	–
16	W	–
18	R	–
19	SB	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



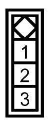
Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–
16	W	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

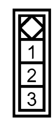


Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02FGY

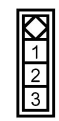
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	R	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



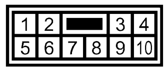
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

JCKWM0731GB

INTELLIGENT KEY SYSTEM

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

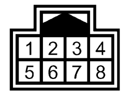
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH

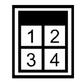
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

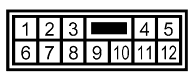
Connector No.	B83
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	R	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

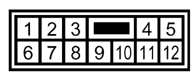
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

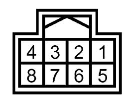
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B100
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH

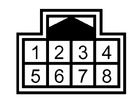
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–
3	B	–
6	G	–
7	R	–

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH

H.S.

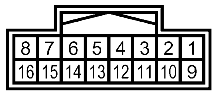


Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–
3	SHIELD	–
6	G	–
7	R	–

JCKWM0732GI

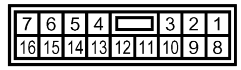
INTELLIGENT KEY SYSTEM

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



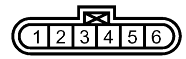
Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	–
8	BR	–
15	G	–
16	O	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



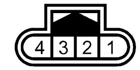
Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS



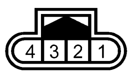
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
3	G	–
4	B	–

Connector No.	D13
Connector Name	OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH04MB



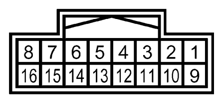
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
2	O	–
3	GR	–
4	B	–

Connector No.	D33
Connector Name	OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04MB



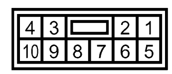
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	P	–
3	BR	–
4	B	–

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



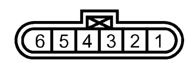
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
7	BR	–
8	V	–
16	P	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS



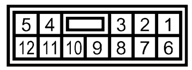
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

JCKWM0733GI

INTELLIGENT KEY SYSTEM

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

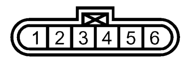
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS

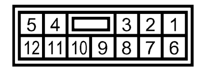
H.S.



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

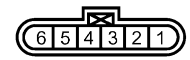
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS

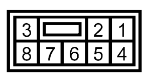
H.S.



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

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

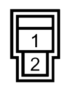
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
3	SB	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

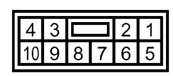
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

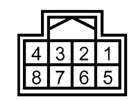
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D158
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH

H.S.



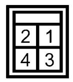
Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–

JCKWM0734GI

INTELLIGENT KEY SYSTEM

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

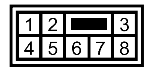
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
3	SB	–
5	V	–

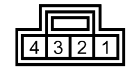
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

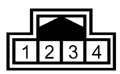
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH

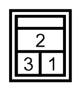
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	SB	–

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	–

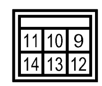
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	P	–
3	G	–

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

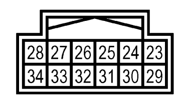
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
25	B	–
26	P	–
27	L	–

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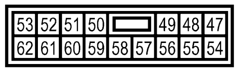
INTELLIGENT KEY SYSTEM

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

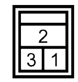


Terminal No.	Color of Wire	Signal Name [Specification]
57	V	–

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
3	LG	–

Connector No.	E70
Connector Name	THEFT WARNING HORN RELAY
Connector Type	M03FW-R-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	R	–
3	G	–

Connector No.	E78
Connector Name	HORN HIGH
Connector Type	P01FB-A

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

Connector No.	E79
Connector Name	HORN HIGH
Connector Type	P01FB-A

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

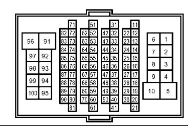
Connector No.	E80
Connector Name	HORN LOW
Connector Type	P01FB-A

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

Connector No.	E81
Connector Name	HORN LOW
Connector Type	P01FB-A

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



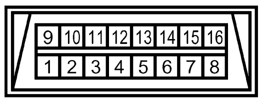
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
12	P	–
22	L	–
71	O	–
72	LG	–

JCKWM0736GI

INTELLIGENT KEY SYSTEM

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

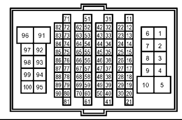
H.S.



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

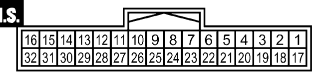
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
80	R	–
81	W	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

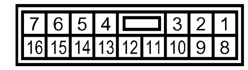
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–
3	SHIELD	–
15	W	–
16	V	–
18	BR	–
19	SB	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

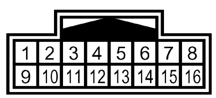
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–
16	V	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

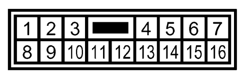
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	–
8	BR	–
15	W	–
16	O	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

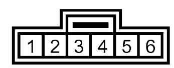
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY

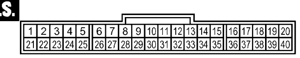
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	R	–
3	G	–
4	P	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	BAT
3	B	GND2(POWER)
21	L	CAN-H
22	P	CAN-L
23	B	GND3(CIRCUIT)

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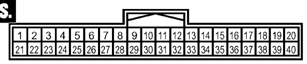
INTELLIGENT KEY SYSTEM

Connector No.	M40
Connector Name	INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN H
3	P	CAN L
4	O	BUZZER
5	Y	REQUEST SW (DR)
6	W	IGNSW
7	LG	KEY SW
10	SB	P RANGE IMPUT SW
11	R	BATT+
12	B	GND
13	Y	REAR SEAT (+)
14	BR	REAR SEAT (−)
15	R	CONSOLE(+)
16	G	CONSOLE(−)
17	W	BACK DOOR (+)
18	R	BACK DOOR (−)
19	BR	DRIVER DOOR (+)
20	O	DRIVER DOOR (−)
25	BR	REQUEST SW (AS)
27	G	KNOB SW
28	W	DR LOCK STATE SW
29	SB	REQUEST SW (BD)
33	L	INSTRUMENT (+)
34	P	INSTRUMENT (−)
37	V	PASSENGER DOOR (+)
38	P	PASSENGER DOOR (−)
40	V	AS ANTI HIJACK

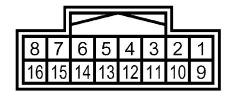
Connector No.	M56
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	−
2	P	−

Connector No.	M57
Connector Name	CONTROL DEVICE
Connector Type	TH16FW-NH

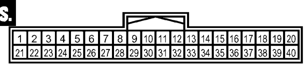
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	B	−
16	SB	−

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

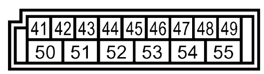
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	SB	ACC
12	P	DR SW AS
13	LG	DR SW RR
29	W	HAZARD SW
37	LG	KEY SW
38	G	IGN
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

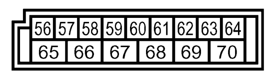
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
47	W	DR SW DR
48	GR	DR SW RL
49	L	LUGGAGE LAMP OUTPUT
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

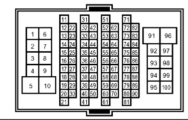
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
56	Y	BATTERYSAVEROUTPUT
57	G	BAT FUSE
59	L	D/L UNLOCK DR
60	BR	FLASHER OUT PUT (LEFT)
61	GR	FLASHER OUT PUT (RIGHT)
63	R	ROOMLAMPOUTPUT
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	−
12	P	−
22	L	−
71	P	−
72	O	−

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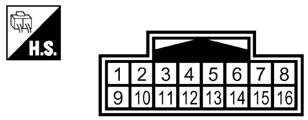
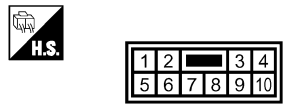
INTELLIGENT KEY SYSTEM

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



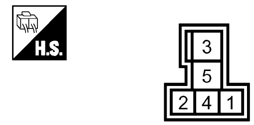
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
7	BR	–
8	V	–
16	P	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



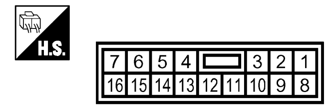
Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

Connector No.	M90
Connector Name	PASSENGER SIDE SELECTIVE UNLOCK RELAY
Connector Type	MS03FB-M2-LC



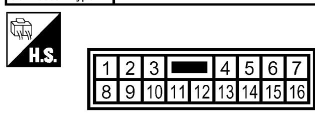
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	LG	–
3	V	–
4	R	–

Connector No.	M97
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



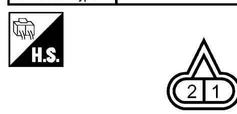
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
9	G	–
11	SHIELD	–
12	B	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
9	G	–
11	SHIELD	–
12	SHIELD	–

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY

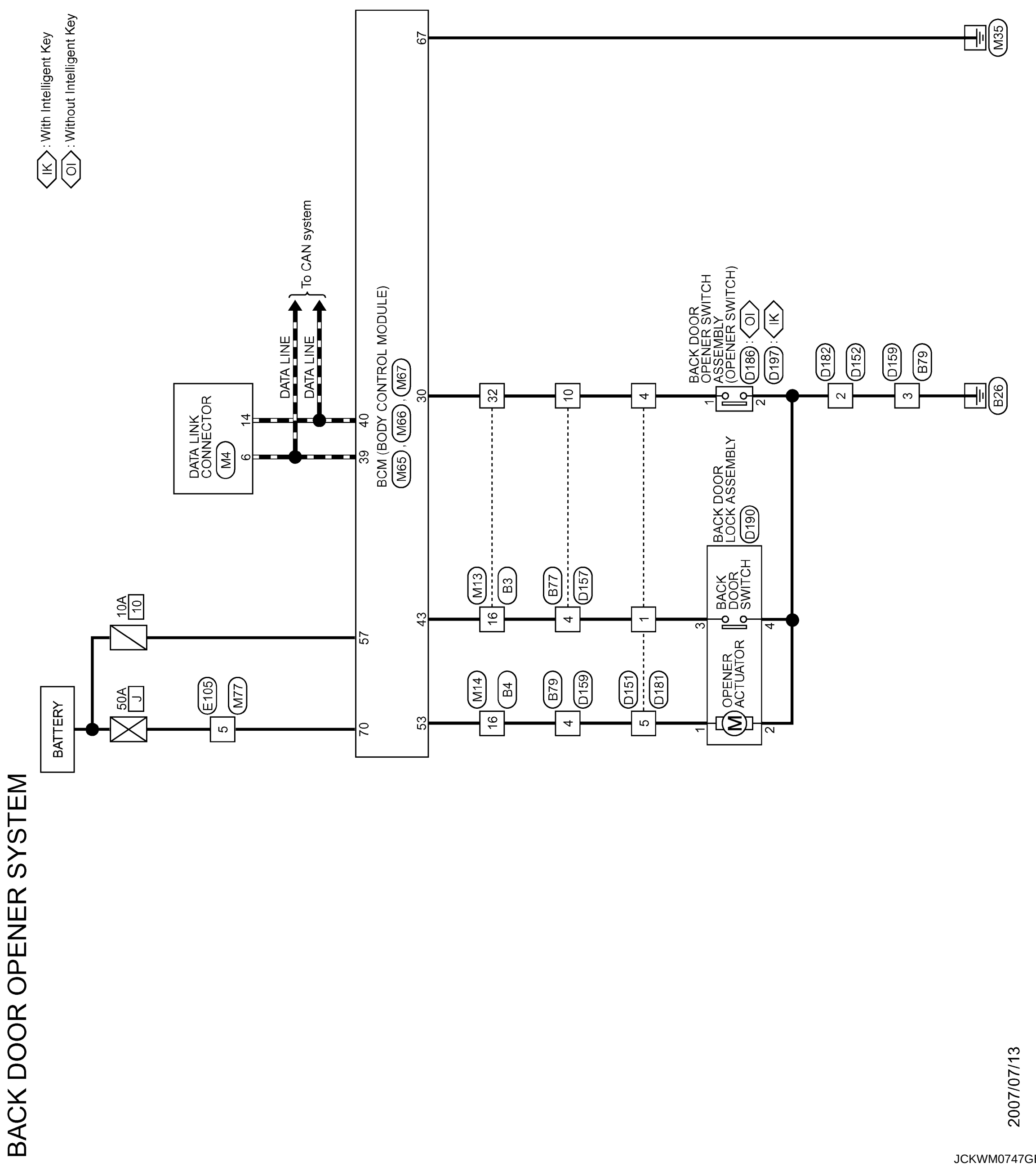


Terminal No.	Color of Wire	Signal Name [Specification]
1	R	–
2	G	–

JCKWM0739GB

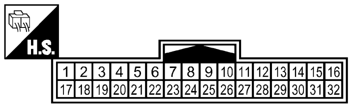
Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:0000000001729421



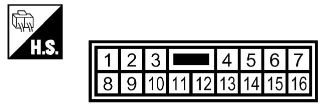
BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



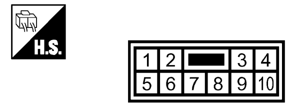
Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–
32	LG	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

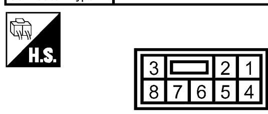


Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

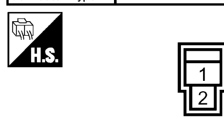
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



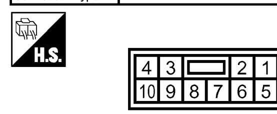
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC



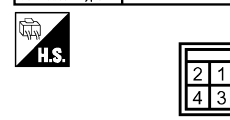
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

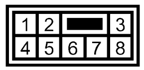


Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

JCKWM0748GB

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

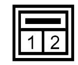


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

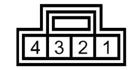
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK02MBR-P



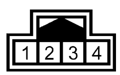
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



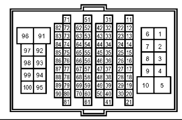
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH



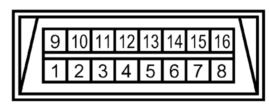
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



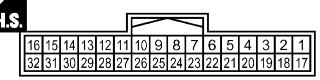
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



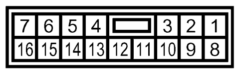
Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–
32	G	–

JCKWM0749GB

BACK DOOR OPENER SYSTEM

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

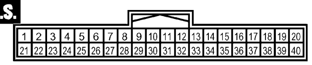
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

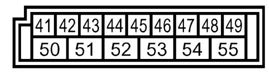
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
30	G	BACK DOOR OPEN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

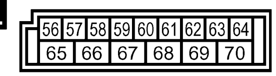
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

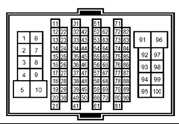
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0750GB

A B C D E F G H I J DLK L M N O P

Fail Safe

INFOID:0000000001729422

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

DTC Inspection Priority Chart

INFOID:0000000001729423

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

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

DTC Index

INFOID:0000000001729424

NOTE:

Details of time display

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

CONSULT display	Detection condition	Fail-safe	Diagnosis
No DTC is detected. further testing may be required.	—	—	—
U1000: CAN COMM CIRCUIT	Intelligent Key unit cannot receive CAN communication signal continuously for 2 seconds or more	—	Check CAN communication system. Refer to DLK-53
U1010: CONTROL UNIT (CAN)	Intelligent Key unit detects internal CAN communication circuit malfunction	—	Replace Intelligent Key unit.
B2013: STRG COMM 1	The ID verification result between Intelligent key unit and steering lock unit are NG. Or Intelligent Key unit cannot communicate with steering lock unit	×	Perform steering lock unit ID registration with CONSULT-III
B2552: INTELLIGENT KEY	Intelligent Key unit internal malfunction	×	Replace Intelligent Key unit.
B2590: ID DISCORD BCM-I-KEY	The ID verification result between Intelligent key unit and BCM are NG. Or Intelligent Key unit cannot communicate with BCM	×	Check NATS Refer to SEC-43

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000003229376

VALUES ON THE DIAGNOSIS TOOL

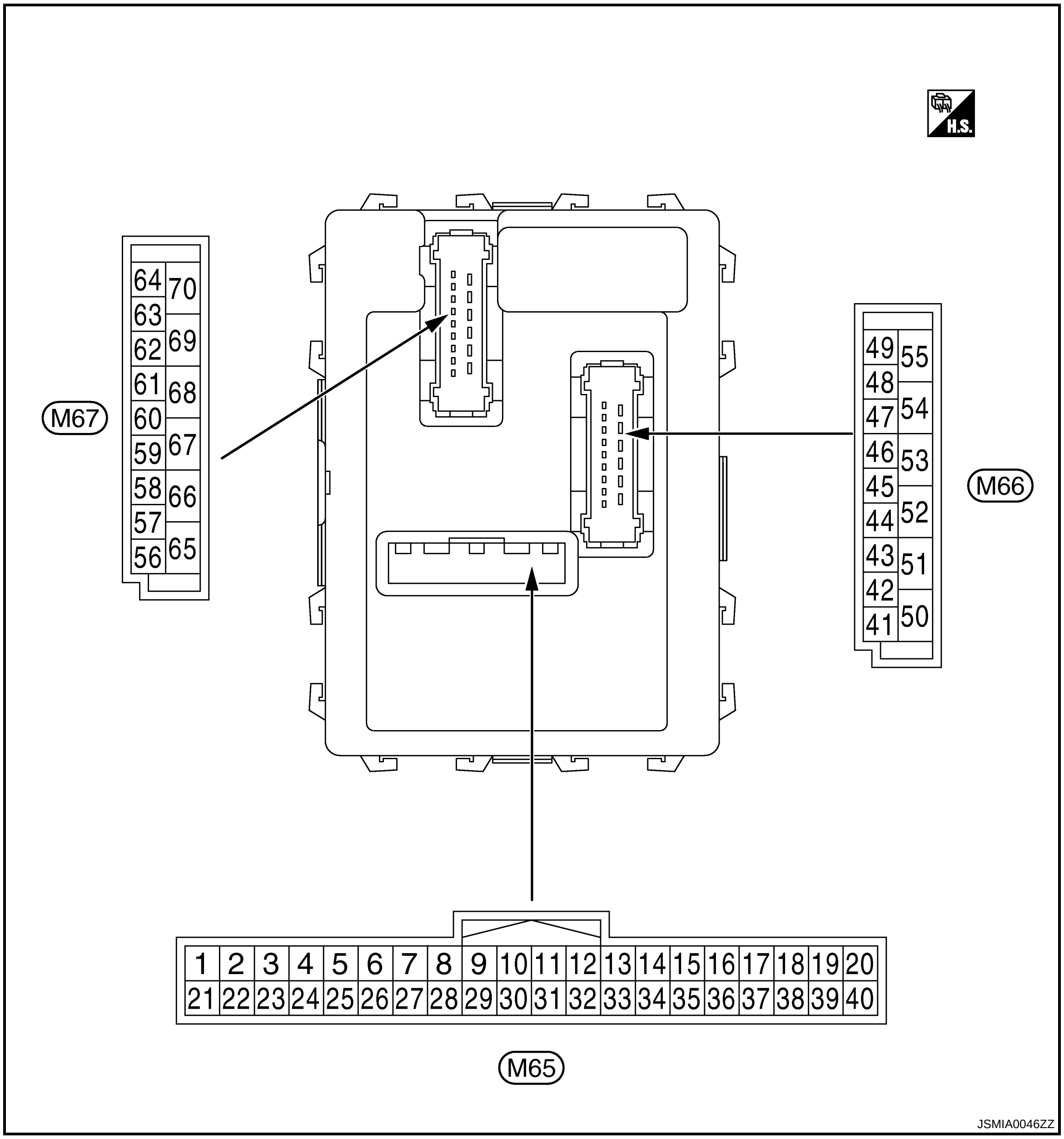
Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
	"UNLOCK" button of key fob is pressed	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
ACC ON SW	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
LIGHT SW 1ST	Lighting switch OFF	Off
	Lighting switch 1ST	On

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
	PANIC button of key fob is pressed	On
KEYLESS TRUNK	**NOTE:** The item is indicated, but not monitored.	Off
TRNK OPN MNTR	**NOTE:** The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
RKE KEEP UNLK	UNLOCK button of key fob is not pressed	Off
	UNLOCK button of key fob is pressed and held	On
HI BEAM SW	Lighting switch OFF	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
AUTO LIGHT SW	**NOTE:** The item is indicated, but not monitored.	Off
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	**NOTE:** The item is indicated, but not monitored.	Off
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
ENGINE RUN	Engine stopped	Off
	Engine running	On
PKB SW	Parking brake switch is OFF	Off
	Parking brake switch is ON	On
CARGO LAMP SW	**NOTE:** The item is indicated, but not monitored.	Off
OPTICAL SENSOR	**NOTE:** The item is indicated, but not monitored.	0 V
IGN SW CAN	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
FR WIPER HI	Front wiper switch OFF	Off
	Front wiper switch HI	On
FR WIPER LOW	Front wiper switch OFF	Off
	Front wiper switch LO	On

Monitor Item	Condition	Value/Status
FR WIPER INT	Front wiper switch OFF	Off
	Front wiper switch INT	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper stop position	Off
	Other than rear wiper stop position	On
RR WIPER STP2	**NOTE:** The item is indicated, but not monitored.	Off
H/L WASH SW	**NOTE:** The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
I-KEY TRUNK	**NOTE:** The item is indicated, but not monitored.	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed and held	On
I-KEY PANIC	PANIC button of Intelligent Key is not pressed	Off
	PANIC button of Intelligent Key is pressed	On
PUSH SW	Return to ignition switch to “LOCK” position	Off
	Press ignition switch	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
	When back door opener switch is pressed	On
TRUNK CYL SW	**NOTE:** The item is indicated, but not monitored.	Off
HOOD SW	Close the hood **NOTE:** Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On

Monitor Item	Condition	Value/Status
OIL PRESS SW	• Ignition switch OFF or ACC • Engine running	Off
	Ignition switch ON	On
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT

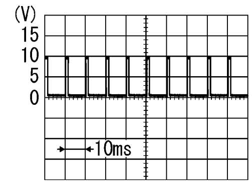
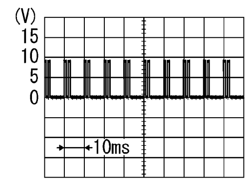
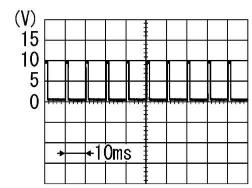
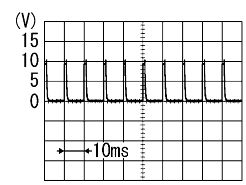
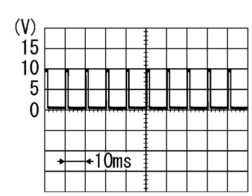


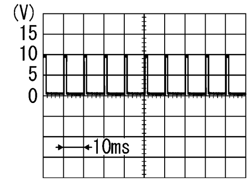
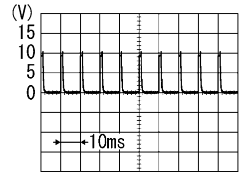
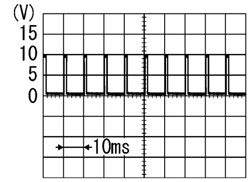
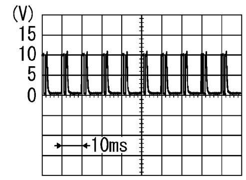
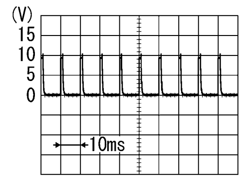
PHYSICAL VALUES

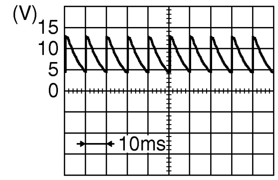
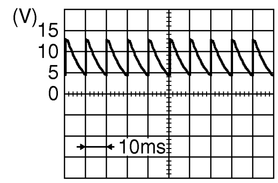
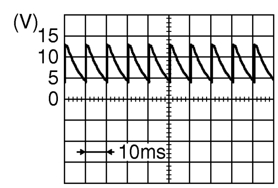
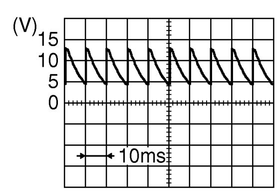
CAUTION:

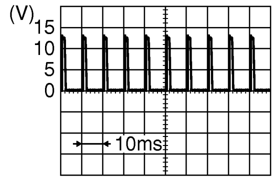
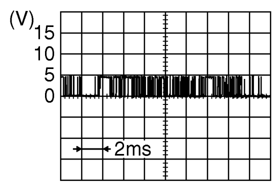
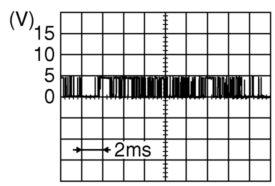
- **Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.**
- **Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to BCS-26, "COMB SW : CONSULT-III Function (BCM - COMB SW)".**
- **BCM reads the status of the combination switch at 10 ms internal normally. Refer to BCS-9, "System Diagram".**

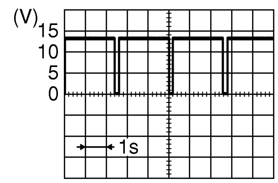
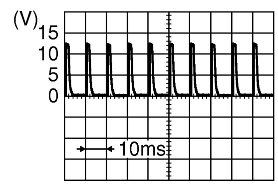
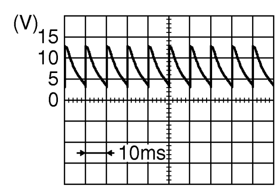
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (V)	Ground	Ignition key hole illumination control	Output	Ignition key hole illumination	OFF	Battery voltage
					ON	0 V

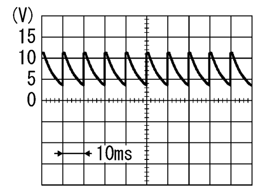
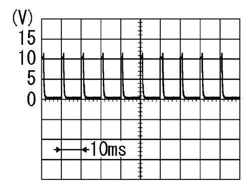
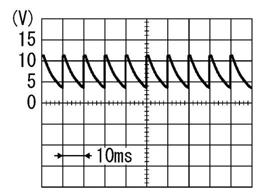
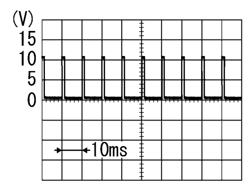
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Turn signal switch RH	 PKIB4959J 1.0 V
					Lighting switch HI	
					Lighting switch 1ST	
					Lighting switch 2ND	 PKIB4953J 2.0 V
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Turn signal switch LH	 PKIB4959J 1.0 V
					Lighting switch PASS	
					Lighting switch 2ND	
					Front fog lamp switch ON	 PKIB4955J 0.8 V
4 (W)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Front wiper switch LO	 PKIB4959J 1.0 V
					Front wiper switch MIST	
					Front wiper switch INT	

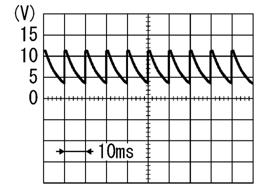
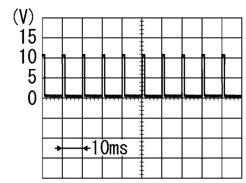
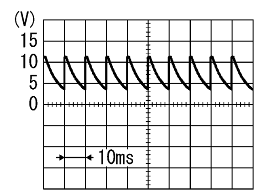
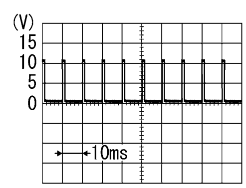
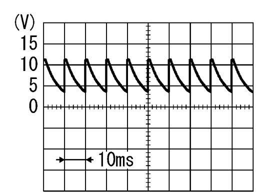
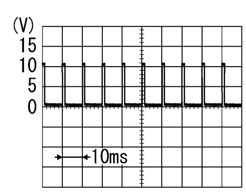
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	 PKIB4959J 1.0 V
					Rear washer ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	
					Rear wiper switch ON (Wiper intermittent dial 4)	 PKIB4955J 0.8 V
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	 PKIB4959J 1.0 V
					Rear wiper switch INT (Wiper intermittent dial 4)	
					Wiper intermittent dial 3 (All switch OFF)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	 PKIB4952J 1.7 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	 PKIB4955J 0.8 V

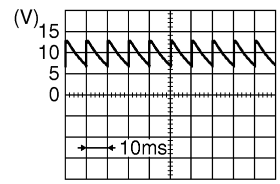
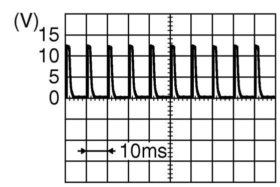
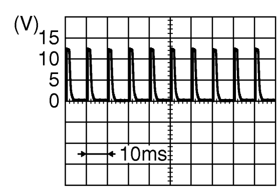
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK signal	Input	Door key cylinder switch	NEUTRAL position	 JPMIA0587GB 8.0 - 8.5 V
					UNLOCK position	0 V
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylinder switch	NEUTRAL position	 JPMIA0587GB 8.0 - 8.5 V
					LOCK position	0 V
9 (R)	Ground	Stop lamp switch	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
10 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	Battery voltage
					Pressed	0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch OFF		0 V
				Ignition switch ACC or ON		Battery voltage
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 JPMIA0586GB 7.5 - 8.0 V
					ON (When passenger door opened)	0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 JPMIA0587GB 8.0 - 8.5 V
					ON (When rear door RH opened)	0 V

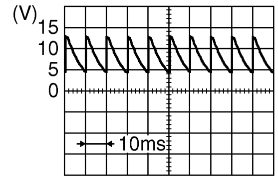
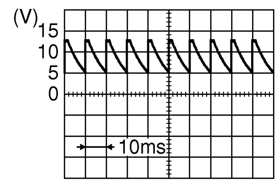
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
15*1 (O)	Ground	TPMS mode trigger switch	Input	Ignition switch OFF		 JPMIA0588GB 1.5 V
18*1 (O)	Ground	Remote keyless entry receiver ground	Input	Ignition switch ON		0 V
19*1 (V)	Ground	Remote keyless entry receiver power supply	Input	Without Intelligent Key system	At any condition	5 V
				With Intelligent Key system	• Ignition switch OFF • For 3 seconds after ignition switch OFF to ON	0 V
					3 seconds or later after ignition switch OFF to ON	5 V
20*1 (GR)	Ground	Remote keyless entry receiver signal	Input	Without Intelligent Key system	At any condition	 JPMIA0589GB **NOTE:** The wave form changes according to signal-receiving condition.
				With Intelligent Key system	• Ignition switch OFF • For 3 seconds after ignition switch OFF to ON	0 V
					3 seconds or later after ignition switch OFF to ON	 JPMIA0589GB **NOTE:** The wave form changes according to signal-receiving condition.
21 (G)	Ground	Immobilizer antenna signal (Clock)	Input/ Output	Ignition switch OFF		Battery voltage

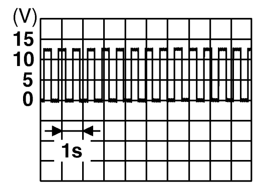
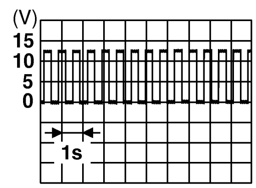
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
23 (B)	Ground	Security indicator signal	Input	Security indicator	ON	0 V
					Blinking (Ignition switch OFF)	 JPMIA0590GB 12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer antenna signal (Rx, Tx)	Input/ Output	Ignition switch OFF		Battery voltage
27 (Y)	Ground	A/C switch	Input	Ignition switch OFF		 JPMIA0591GB 1.6 V
				Ignition switch ON	A/C switch OFF	
					A/C switch ON	0 V
28 (LG)	Ground	Blower fan switch	Input	Ignition switch OFF		 JPMIA0592GB 7.0 - 7.5 V
				Ignition switch ON	Blower fan switch OFF	
					Blower fan switch ON	0 V
29 (W)	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
					ON	0 V
30 (G)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	Battery voltage
					Pressed	0 V

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
32 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	 PKIB4960J 7.2 V
					Front fog lamp switch ON (Wiper intermittent dial 4)	 PKIB4956J 1.0 V
					Rear wiper switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	
33 (GR)	Ground	Combination switch OUTPUT 4	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	 PKIB4960J 7.2 V
					Lighting switch 1ST (Wiper intermittent dial 4)	 PKIB4958J 1.2 V
					Rear wiper switch INT (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	 PKIB4960J 7.2 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 PKIB4958J 1.2 V
					Lighting switch HI (Wiper intermittent dial 4)	
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	
35 (B)	Ground	Combination switch OUTPUT 2	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	 PKIB4960J 7.2 V
					Lighting switch 2ND	 PKIB4958J 1.2 V
					Lighting switch PASS	
					Front wiper switch INT	
					Front wiper switch HI	
36 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	 PKIB4960J 7.2 V
					Turn signal switch RH	 PKIB4958J 1.2 V
					Turn signal switch LH	
					Front wiper switch LO (Front wiper switch MIST)	
					Front washer switch ON	

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
37 (LG)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder		Battery voltage
				Remove mechanical key from ignition key cylinder		0 V
38 (G)	Ground	Ignition switch ON	Input	Ignition switch OFF or ACC		0 V
				Ignition switch ON or START		Battery voltage
39 (L)	Ground	CAN-H	Input/Output	—		—
40 (P)	Ground	CAN-L	Input/Output	—		—
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	 JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44 (B)	Ground	Rear wiper auto stop	Input	Ignition switch ON	Rear wiper stop position	0 V
					Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	 JPMIA0591GB 1.6 V
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK signal	Input	Door lock and unlock switch	NEUTRAL position	 JPMIA0591GB 1.6 V
					UNLOCK position	0 V

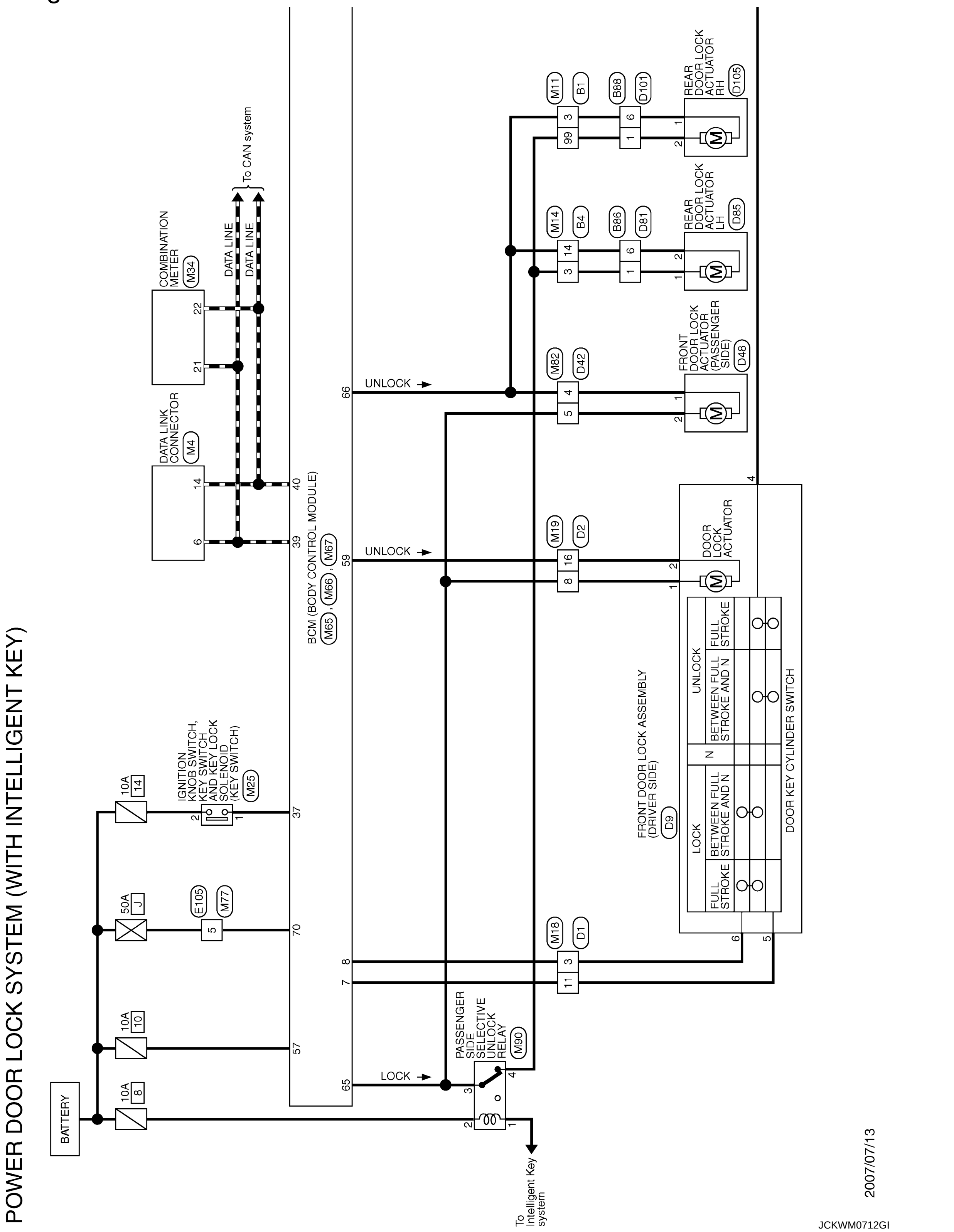
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	 JPMIA0594GB 8.5 - 9.0 V
					ON (When rear door LH opened)	0 V
49 (L)	Ground	Back door lamp con-trol	Output	Back door lamp switch DOOR position	Back door is closed (Back door lamp turns OFF)	Battery voltage
					Back door is opened (Back door lamp turns ON)	0 V
53 (V)	Ground	Back door open	Output	Back door opener switch	Not pressed (Back door actuator is ac-tivated)	0 V
					Pressed (Back door actuator is ac-tivated)	Battery voltage
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF	0 V
					Rear wiper switch ON	Battery voltage
56 (Y)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0 V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
57 (G)	Ground	Battery power sup-ply	Input	Ignition switch OFF		Battery voltage
59 (L)	Ground	Driver door UN-LOCK	Output	Driver door	UNLOCK (Actuator is acti-vated)	Battery voltage
					Other then UNLOCK (Ac-tuator is not activated)	0 V

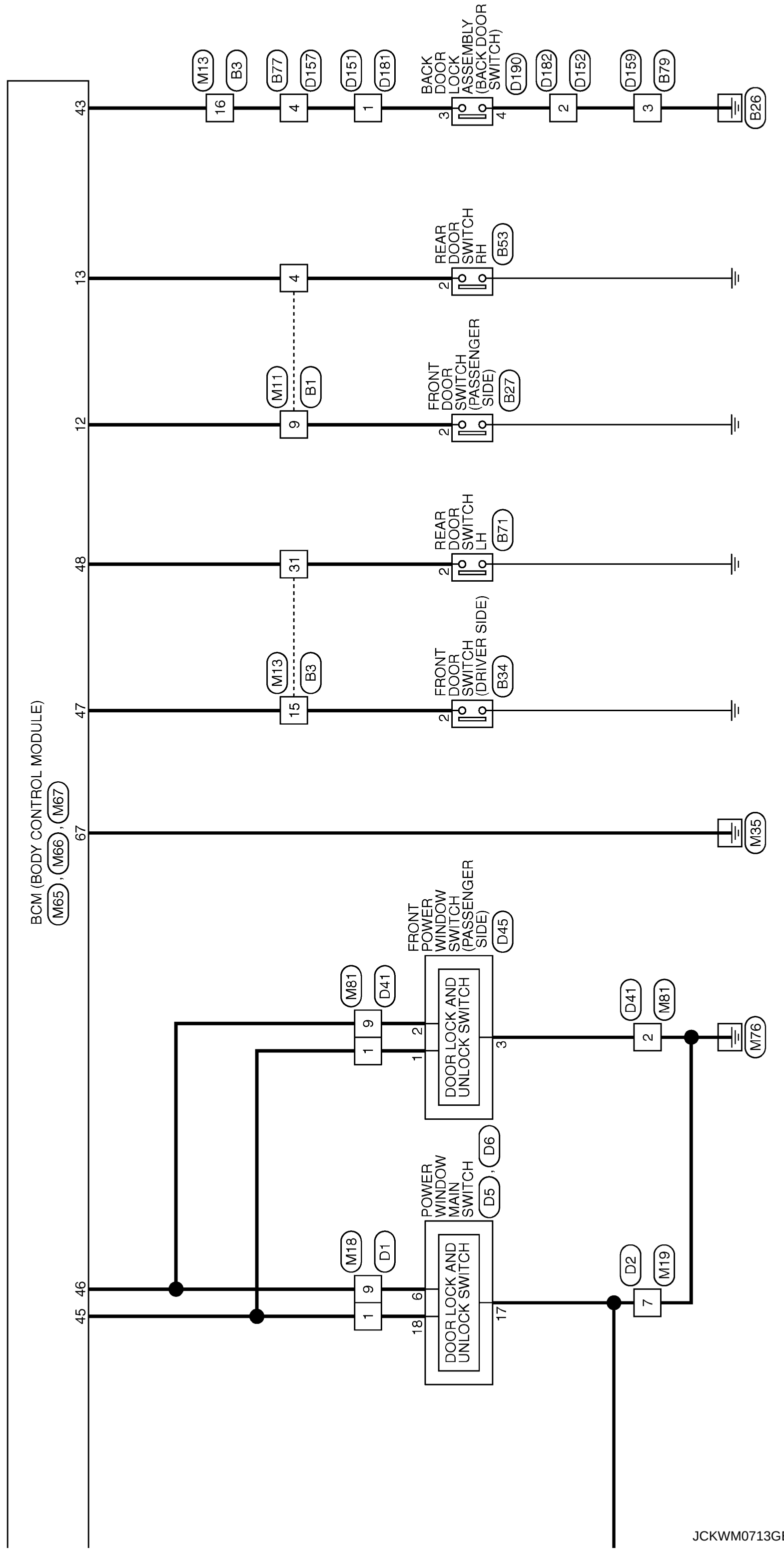
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKIC6370E 6.0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKIC6370E 6.0 V
63 (R)	Ground	Interior room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
65 (V)	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
					Other then LOCK (Actuator is not activated)	0 V
66 (G)	Ground	Passenger door and rear door UNLOCK	Output	Passenger door and rear door	UNLOCK (Actuator is activated)	Battery voltage
					Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch ON		0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (R)*2 (P)*3	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
70 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage

NOTE:
- *1: Except for Mexico
- *2: Without anti-pinch system
- *3: With anti-pinch system

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

INFOID:0000000003223011

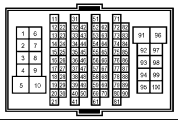



BCM (BODY CONTROL MODULE)
M65, M66, M67
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH)
D190
REAR DOOR SWITCH RH
B53
FRONT DOOR SWITCH (PASSENGER SIDE)
B27
REAR DOOR SWITCH LH
B71
FRONT DOOR SWITCH (DRIVER SIDE)
B34
FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
D45
DOOR LOCK AND UNLOCK SWITCH
POWER WINDOW MAIN SWITCH
D5, D6
DOOR LOCK AND UNLOCK SWITCH
M13
B3
B77
D157
D151
D181
D182
D152
D159
B79
B26
M11
B1
M35
M81
D41
M76
M18
D1
D2
M19
JCKWM0713GB

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

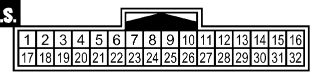
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

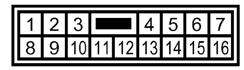
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	–
16	W	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

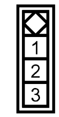
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

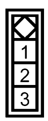
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

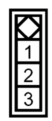
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

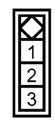
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW

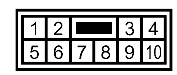
H.S.



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.



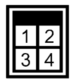
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

JCKWM0714GI

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

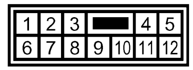
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

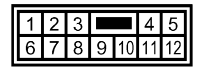
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

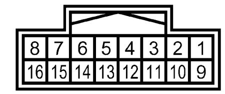
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

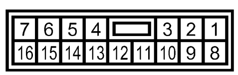
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	W	–
9	BR	–
11	L	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

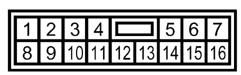
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS

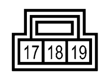
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	–

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

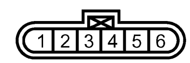
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	–
18	P	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
4	B	–
5	L	–
6	W	–

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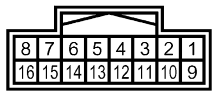
A B C D E F G H I J DLK L M N O P

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

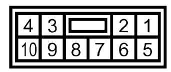
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	B	–
9	BR	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

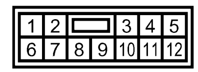
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS

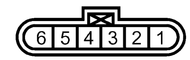
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	BR	–
3	B	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS

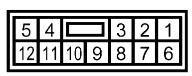
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

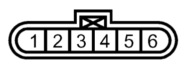
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS

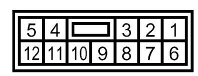
H.S.



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

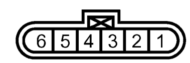
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS

H.S.



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

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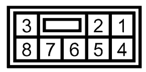
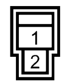
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



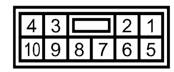
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC



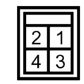
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



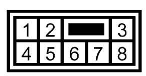
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

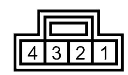


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

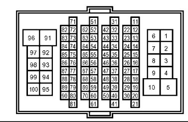
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

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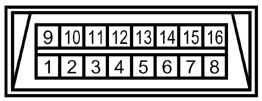
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

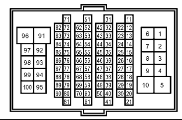
H.S.



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

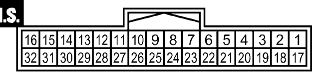
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

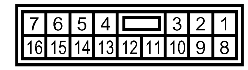
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	W	–
16	V	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

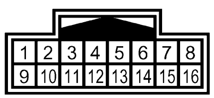
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

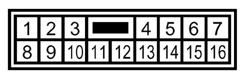
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	R	–
9	BR	–
11	L	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

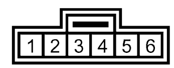
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY

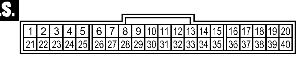
H.S.



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.



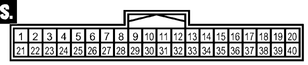
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

JCKWM0718GI

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

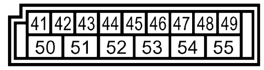
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	L	KEY CYC UNLOCK
8	R	KEY CYL LOCK SW
12	P	DR SW AS
13	LG	DR SW RR
37	LG	KEY SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

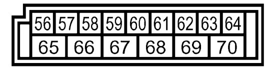
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
45	P	CDLLOCKSW
46	BR	CDLUNLOCKSW
47	W	DR SW DR
48	GR	DR SW RL

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

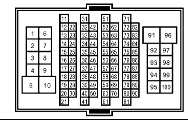
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
59	L	D/L UNLOCK DR
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

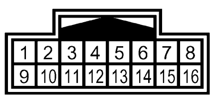
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

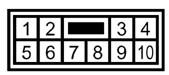
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
9	O	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

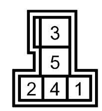
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

Connector No.	M90
Connector Name	PASSENGER SIDE SELECTIVE UNLOCK RELAY
Connector Type	MS03FB-M2-LC

H.S.

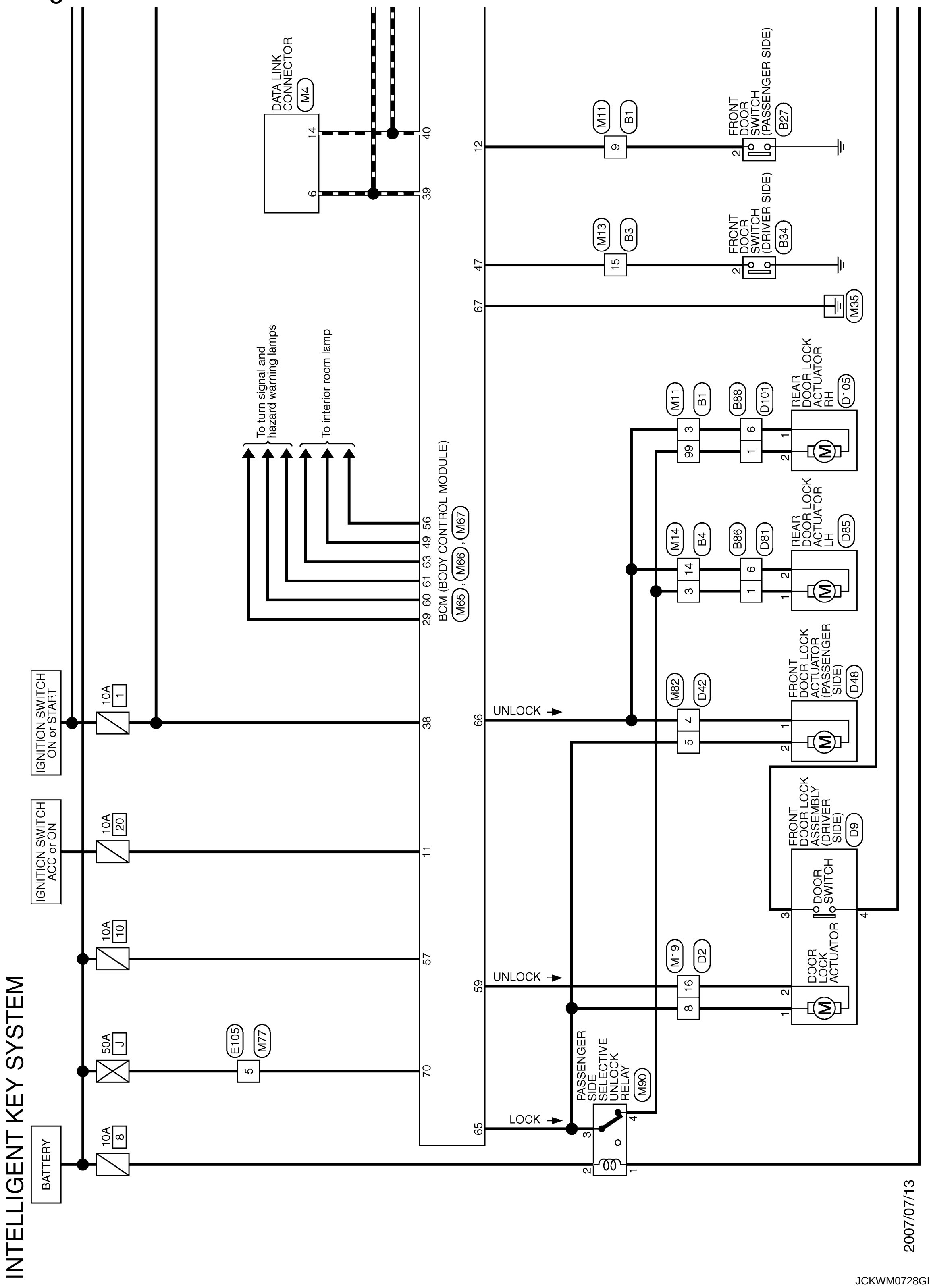


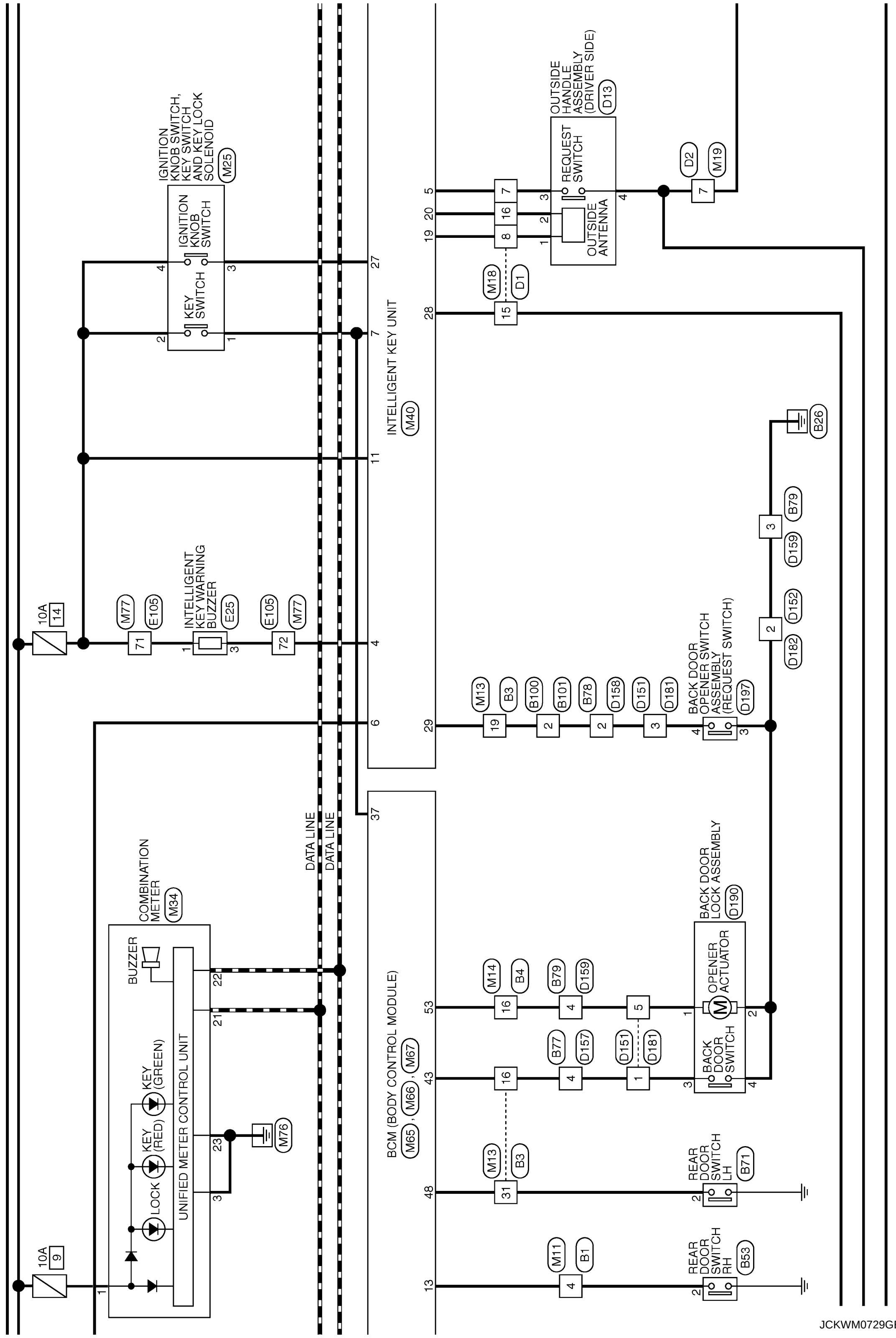
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	LG	–
3	V	–
4	R	–

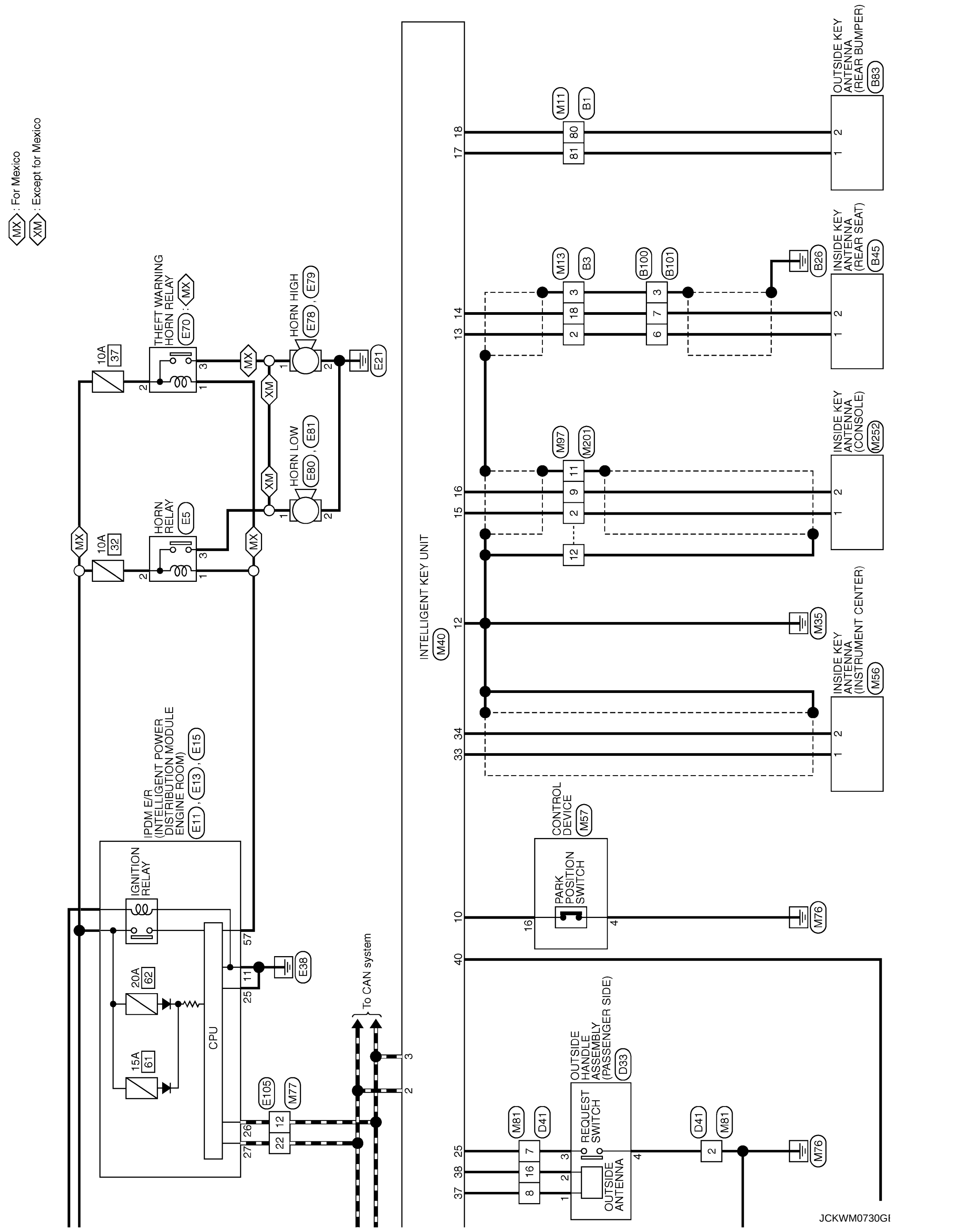
JCKWM0719GI

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

INFOID:0000000003223012



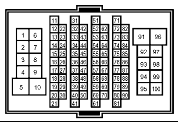

IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
M25
IGNITION KNOB SWITCH
KEY SWITCH
OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
D13
REQUEST SWITCH
OUTSIDE ANTENNA
INTELLIGENT KEY UNIT
M40
INTELLIGENT KEY WARNING BUZZER
E25
10A
BACK DOOR OPENER SWITCH ASSEMBLY (REQUEST SWITCH)
D197
B26
DATA LINE
DATA LINE
COMBINATION METER
M34
BUZZER
UNIFIED METER CONTROL UNIT
LOCK
KEY (RED)
KEY (GREEN)
M76
BCM (BODY CONTROL MODULE)
M65, M66, M67
BACK DOOR LOCK ASSEMBLY
D190
OPENER ACTUATOR
BACK DOOR SWITCH
REAR DOOR SWITCH LH
B71
REAR DOOR SWITCH RH
B53
JCKWM0729GB


MX : For Mexico
XM : Except for Mexico
THEFT WARNING HORN RELAY E70 : MX
HORN HIGH E78, E79
HORN LOW E80, E81
HORN RELAY E5
10A 37
10A 32
E21
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E11, E13, E15
IGNITION RELAY
20A 62
15A 61
CPU
E38
To CAN system
E105
M77
INTELLIGENT KEY UNIT M40
OUTSIDE KEY ANTENNA (REAR BUMPER) B83
INSIDE KEY ANTENNA (REAR SEAT) B45
INSIDE KEY ANTENNA (CONSOLE) M252
INSIDE KEY ANTENNA (INSTRUMENT CENTER) M56
M11
B1
M13
B3
B100
B101
B26
M97
M201
M35
CONTROL DEVICE M57
PARK POSITION SWITCH
M76
OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE) D33
REQUEST SWITCH
OUTSIDE ANTENNA
M81
D41
JCKWM0730GB

INTELLIGENT KEY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

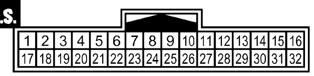
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
80	R	–
81	W	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

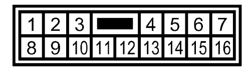
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	G	–
3	B	–
15	P	–
16	W	–
18	R	–
19	SB	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

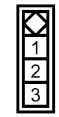
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–
16	W	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

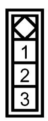
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

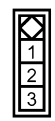
Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	R	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

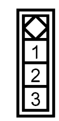
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW

H.S.

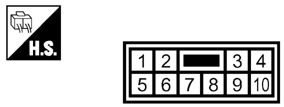


Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

JCKWM0731GB

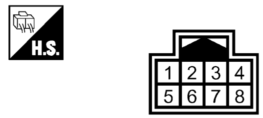
INTELLIGENT KEY SYSTEM

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–

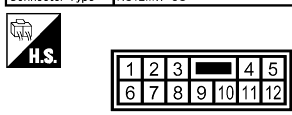
Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

Connector No.	B83
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY

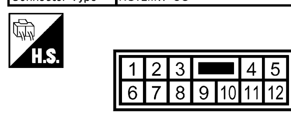
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	R	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



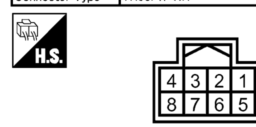
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



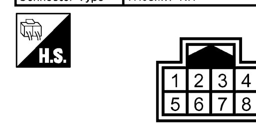
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B100
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–
3	B	–
6	G	–
7	R	–

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–
3	SHIELD	–
6	G	–
7	R	–

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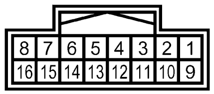
INTELLIGENT KEY SYSTEM

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

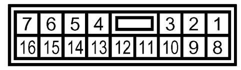
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	–
8	BR	–
15	G	–
16	O	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

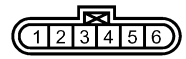
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

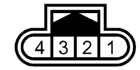
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
3	G	–
4	B	–

Connector No.	D13
Connector Name	OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH04MB

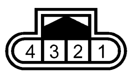
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
2	O	–
3	GR	–
4	B	–

Connector No.	D33
Connector Name	OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04MB

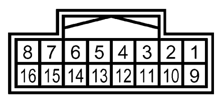
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	P	–
3	BR	–
4	B	–

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

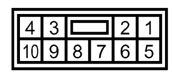
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
7	BR	–
8	V	–
16	P	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

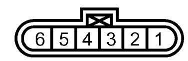
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

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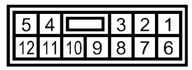
A B C D E F G H I J DLK L M N O P

INTELLIGENT KEY SYSTEM

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

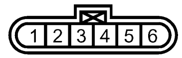
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS

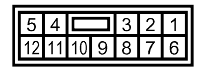
H.S.



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

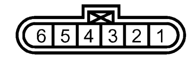
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS

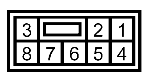
H.S.



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

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

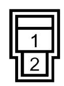
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
3	SB	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

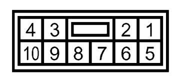
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

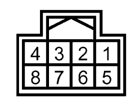
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D158
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–

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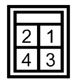
INTELLIGENT KEY SYSTEM

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

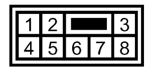
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
3	SB	–
5	V	–

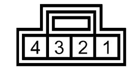
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

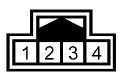
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH

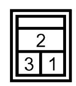
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	SB	–

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	–

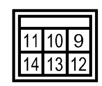
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	P	–
3	G	–

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

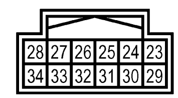
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
25	B	–
26	P	–
27	L	–

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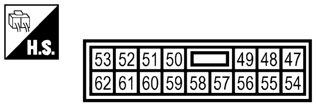
INTELLIGENT KEY SYSTEM

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
57	V	–

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
3	LG	–

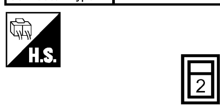
Connector No.	E70
Connector Name	THEFT WARNING HORN RELAY
Connector Type	M03FW-R-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	R	–
3	G	–

Connector No.	E78
Connector Name	HORN HIGH
Connector Type	P01FB-A

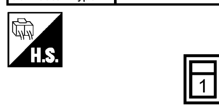
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–

Connector No.	E79
Connector Name	HORN HIGH
Connector Type	P01FB-A



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

Connector No.	E80
Connector Name	HORN LOW
Connector Type	P01FB-A

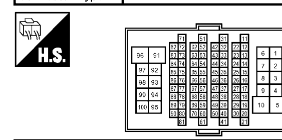


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–

Connector No.	E81
Connector Name	HORN LOW
Connector Type	P01FB-A

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
12	P	–
22	L	–
71	O	–
72	LG	–

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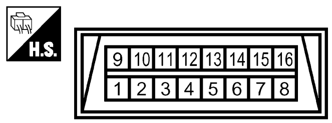
INTELLIGENT KEY SYSTEM

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

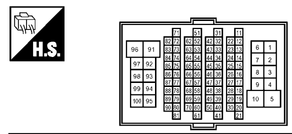
H.S.



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

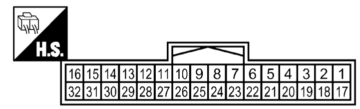
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
80	R	–
81	W	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

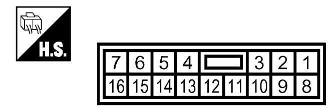
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–
3	SHIELD	–
15	W	–
16	V	–
18	BR	–
19	SB	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

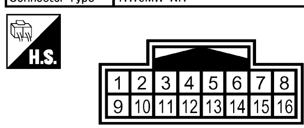
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–
16	V	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

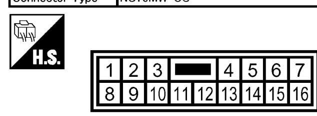
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	–
8	BR	–
15	W	–
16	O	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

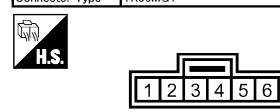
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY

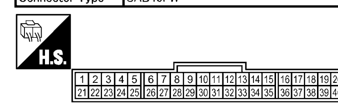
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	R	–
3	G	–
4	P	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.



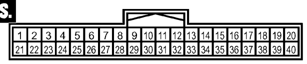
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	BAT
3	B	GND2(POWER)
21	L	CAN-H
22	P	CAN-L
23	B	GND3(CIRCUIT)

JCKWM0737GB

INTELLIGENT KEY SYSTEM

Connector No.	M40
Connector Name	INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN H
3	P	CAN L
4	O	BUZZER
5	Y	REQUEST SW (DR)
6	W	IGNSW
7	LG	KEY SW
10	SB	P RANGE IMPUT SW
11	R	BATT+
12	B	GND
13	Y	REAR SEAT (+)
14	BR	REAR SEAT (−)
15	R	CONSOLE(+)
16	G	CONSOLE(−)
17	W	BACK DOOR (+)
18	R	BACK DOOR (−)
19	BR	DRIVER DOOR (+)
20	O	DRIVER DOOR (−)
25	BR	REQUEST SW (AS)
27	G	KNOB SW
28	W	DR LOCK STATE SW
29	SB	REQUEST SW (BD)
33	L	INSTRUMENT (+)
34	P	INSTRUMENT (−)
37	V	PASSENGER DOOR (+)
38	P	PASSENGER DOOR (−)
40	V	AS ANTI HIJACK

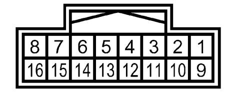
Connector No.	M56
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	−
2	P	−

Connector No.	M57
Connector Name	CONTROL DEVICE
Connector Type	TH16FW-NH

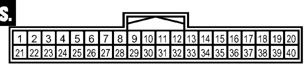
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	B	−
16	SB	−

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

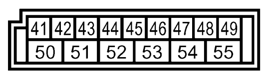
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	SB	ACC
12	P	DR SW AS
13	LG	DR SW RR
29	W	HAZARD SW
37	LG	KEY SW
38	G	IGN
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

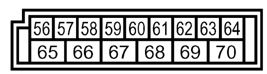
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
47	W	DR SW DR
48	GR	DR SW RL
49	L	LUGGAGE LAMP OUTPUT
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

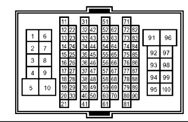
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
56	Y	BATTERYSAVEROUTPUT
57	G	BAT FUSE
59	L	D/L UNLOCK DR
60	BR	FLASHER OUT PUT (LEFT)
61	GR	FLASHER OUT PUT (RIGHT)
63	R	ROOMLAMPOUTPUT
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

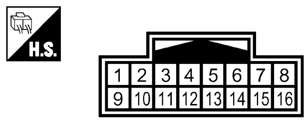


Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	−
12	P	−
22	L	−
71	P	−
72	O	−

JCKWM0738GB

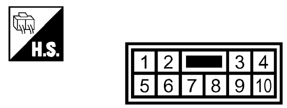
INTELLIGENT KEY SYSTEM

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



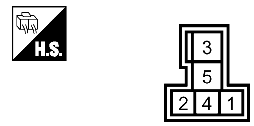
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
7	BR	–
8	V	–
16	P	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



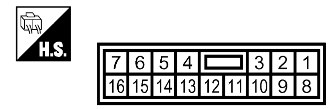
Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

Connector No.	M90
Connector Name	PASSENGER SIDE SELECTIVE UNLOCK RELAY
Connector Type	MS03FB-M2-LC



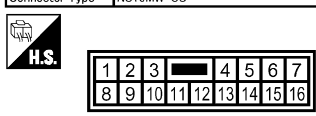
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	LG	–
3	V	–
4	R	–

Connector No.	M97
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



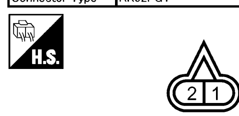
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
9	G	–
11	SHIELD	–
12	B	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
9	G	–
11	SHIELD	–
12	SHIELD	–

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY

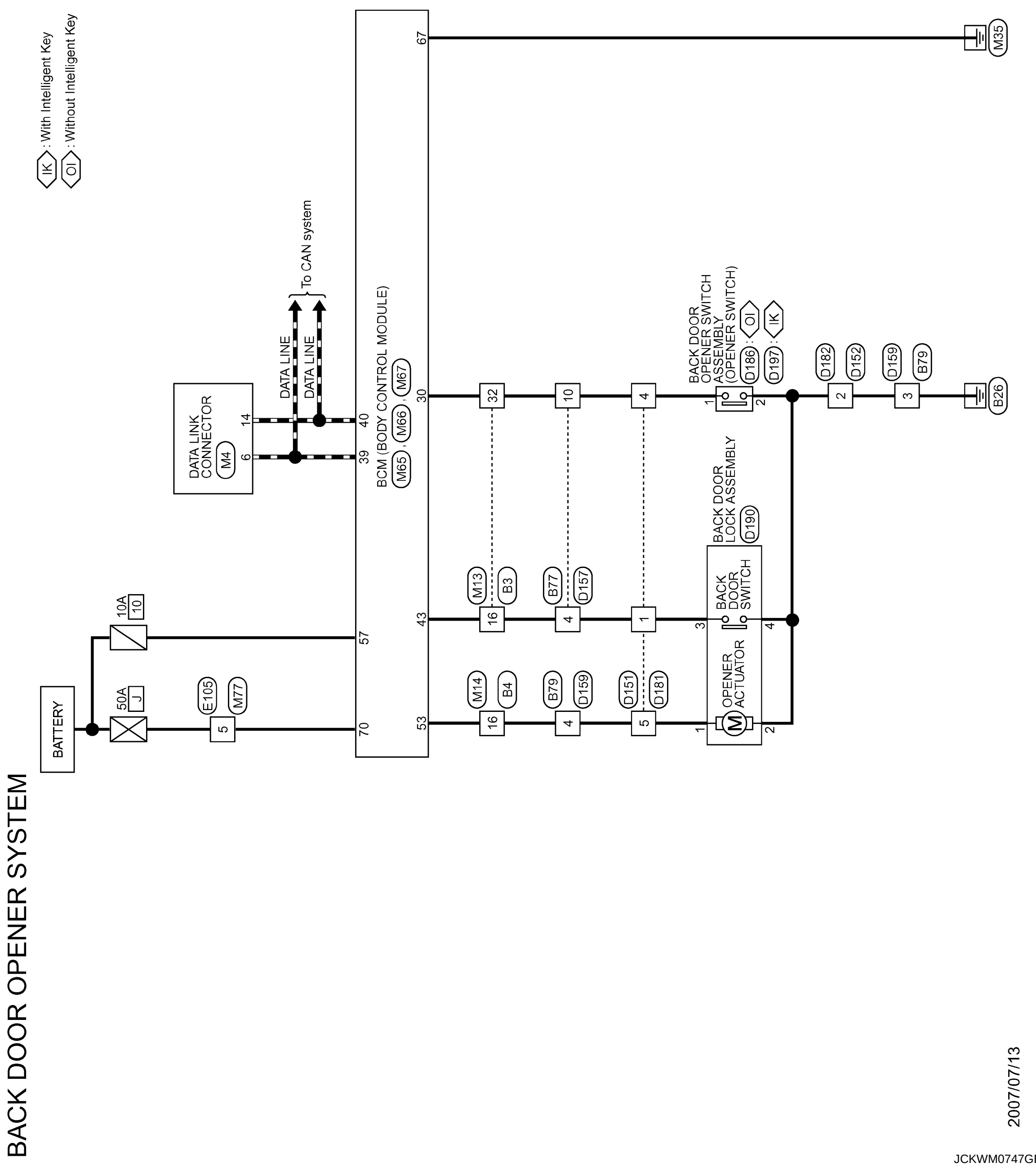


Terminal No.	Color of Wire	Signal Name [Specification]
1	R	–
2	G	–

JCKWM0739GB

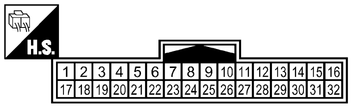
Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:0000000003223013



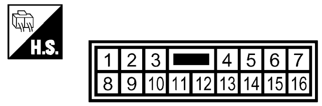
BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



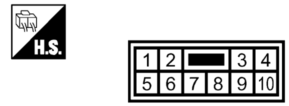
Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–
32	LG	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

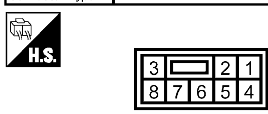


Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

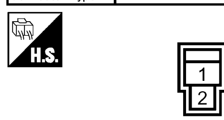
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



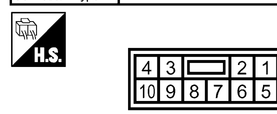
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC



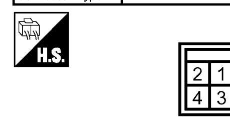
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

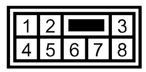


Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

JCKWM0748GB

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

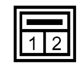


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

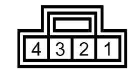
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK02MBR-P



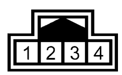
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



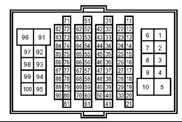
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH



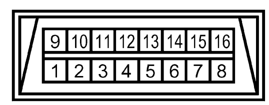
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



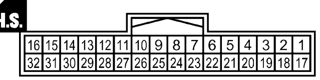
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



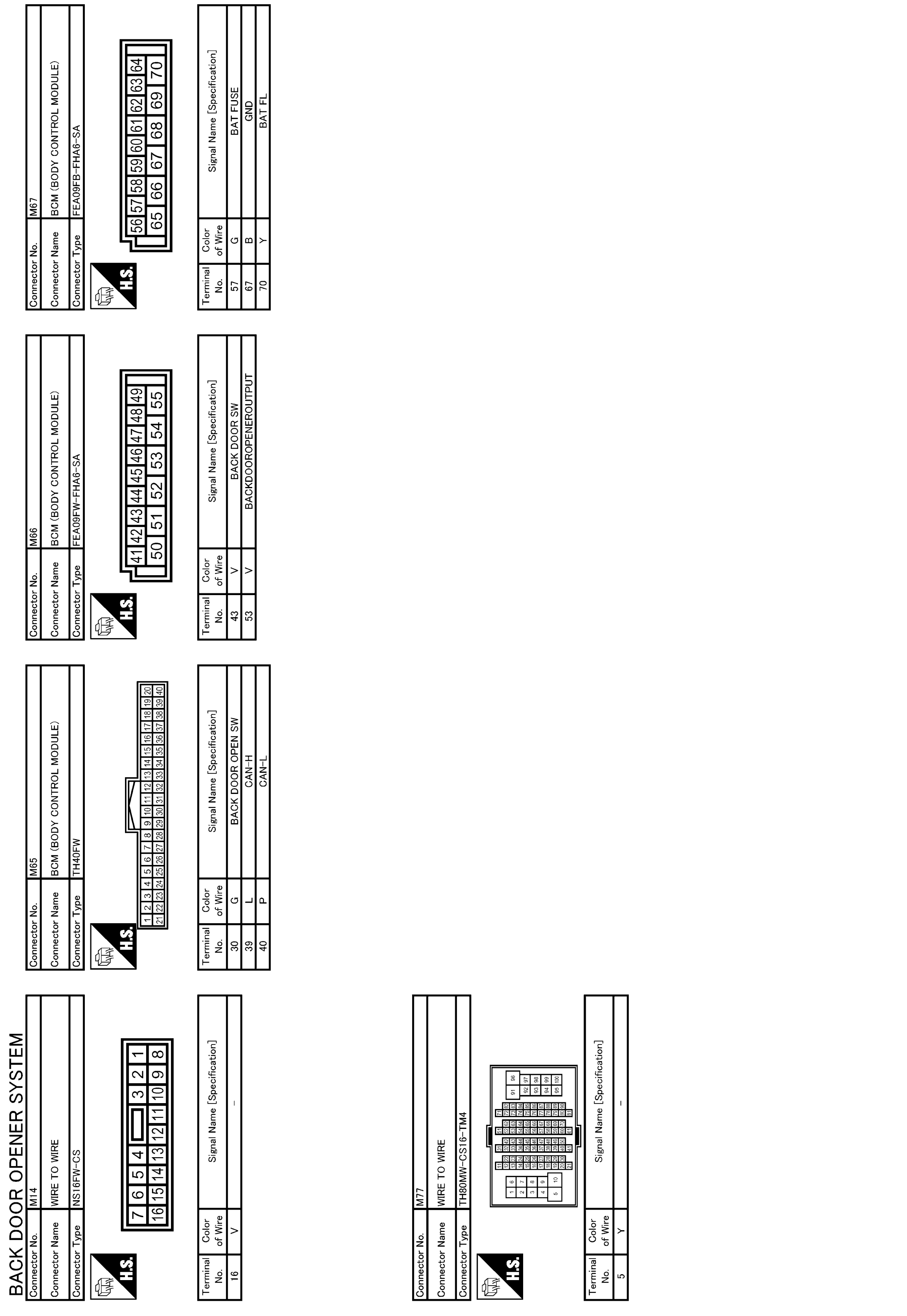
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–
32	G	–

JCKWM0749GB



BACK DOOR OPENER SYSTEM

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

Terminal No.	Color of Wire	Signal Name [Specification]
30	G	BACK DOOR OPEN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0750GE

Fail Safe

INFOID:0000000003229378

REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

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

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.

DTC Inspection Priority Chart

INFOID:0000000003229379

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	• C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESS DATA ERR] FL • C1717: [PRESS DATA ERR] FR • C1718: [PRESS DATA ERR] RR • C1719: [PRESS DATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1729: VHCL SPEED SIG ERR

DTC Index

INFOID:0000000003229380

NOTE:

Details of time display

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

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	—	BCS-35
C1704: LOW PRESSURE FL	×	WT-14
C1705: LOW PRESSURE FR	×	
C1706: LOW PRESSURE RR	×	
C1707: LOW PRESSURE RL	×	

DTC	Tire pressure monitor warning lamp ON	Reference
C1708: [NO DATA] FL	×	WT-16
C1709: [NO DATA] FR	×	
C1710: [NO DATA] RR	×	
C1711: [NO DATA] RL	×	
C1712: [CHECKSUM ERR] FL	×	WT-19
C1713: [CHECKSUM ERR] FR	×	
C1714: [CHECKSUM ERR] RR	×	
C1715: [CHECKSUM ERR] RL	×	
C1716: [PRESS DATA ERR] FL	×	WT-22
C1717: [PRESS DATA ERR] FR	×	
C1718: [PRESS DATA ERR] RR	×	
C1719: [PRESS DATA ERR] RL	×	
C1720: [CODE ERR] FL	×	WT-24
C1721: [CODE ERR] FR	×	
C1722: [CODE ERR] RR	×	
C1723: [CODE ERR] RL	×	
C1724: [BATT VOLT LOW] FL	—	WT-27
C1725: [BATT VOLT LOW] FR	—	
C1726: [BATT VOLT LOW] RR	—	
C1727: [BATT VOLT LOW] RL	—	
C1729: VHCL SPEED SIG ERR	×	WT-30
C1735: IGN CIRCUIT OPEN	—	BCS-36

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

Reference Value

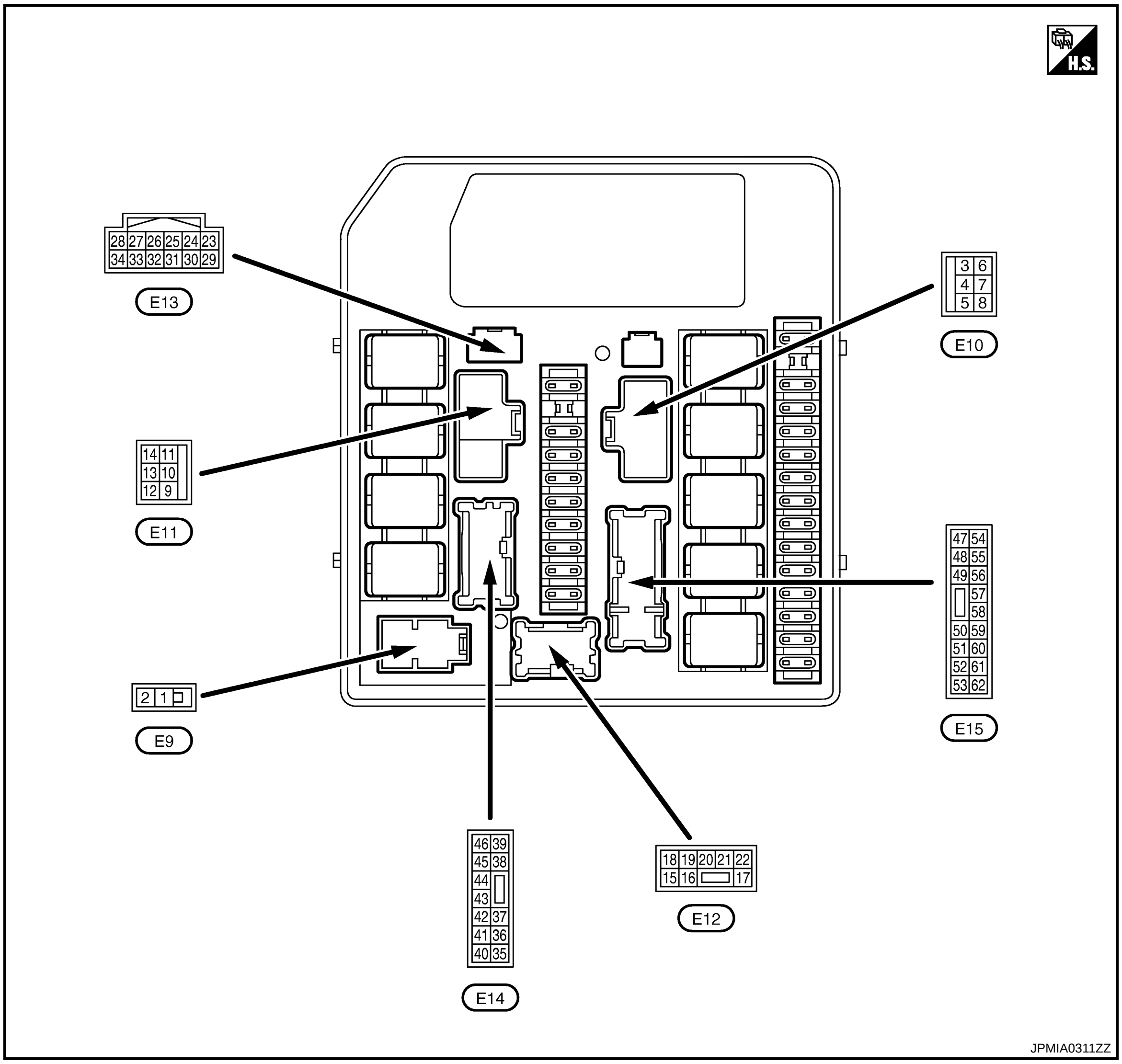
INFOID:0000000003170218

VALUES ON THE DIAGNOSIS TOOL

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

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

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	–	Signal name	Input/ Output		
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
3 (O)	Ground	Starter relay power supply	Output	When engine is clanking		Battery voltage
				When engine is not clanking		0 V
4 (W)	Ground	Cooling fan relay-1 power supply	Output	Cooling fan operation	OFF	0 V
					MID or HI	Battery voltage
5 (R)	Ground	Ignition switch START	Input	Ignition switch OFF, ACC or ON		0 V
				Ignition switch START		Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7 (P)	Ground	Cooling fan motor-2 (HI) ground	—	Cooling fan operation	OFF	Battery voltage
					HI	0 V
8 (G)	Ground	Cooling fan relay-2 power supply	Output	Cooling fan operation	OFF	0 V
					HI	Battery voltage
11 (B)	Ground	Ground	—	Ignition switch ON		0 V
12 (O)	Ground	Rear window defogger relay power supply	Output	Ignition switch ON	Rear window defogger switch OFF	0 V
					Rear window defogger switch ON	Battery voltage
15*1 (SB)	Ground	Daytime running light relay control	Output	Daytime running light system	Not operated	Battery voltage
					Operated	0 V
16*2 (Y)	Ground	Front fog lamp (LH)	Output	Lighting switch 2ND	Front fog lamp switch OFF	0 V
					Front fog lamp switch ON	Battery voltage
17*2 (W)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	Front fog lamp switch OFF	0 V
					Front fog lamp switch ON	Battery voltage
18 (L)	Ground	Headlamp LO (LH)	Output	Lighting switch OFF		0 V
				Lighting switch 2ND		Battery voltage
20 (SB)	Ground	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
				Lighting switch 2ND		Battery voltage
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch OFF		0 V
				• Lighting switch 2ND and HI • Lighting switch PASS		Battery voltage
22 (LG)	Ground	Headlamp HI (RH)	Output	Lighting switch OFF		0 V
				• Lighting switch 2ND and HI • Lighting switch PASS		Battery voltage
23 (W)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V
					Engine running	Battery voltage
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Front wiper stop position	0 V
					Any position other than front wiper stop position	Battery voltage
25 (B)	Ground	Ground	—	Ignition switch ON		0 V
26 (P)	—	CAN-L	Input/ Output	—		—
27 (L)	—	CAN-H	Input/ Output	—		—

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
31 (LG)	Ground	Cooling fan relay-4 control	Output	Cooling fan operation	OFF	Battery voltage
					LO	0 - 1.0 V
32 (V)	Ground	ETC relay control	Input	After passing approximately 2 seconds or more after turning the ignition switch from ON to OFF		Battery voltage
				• Ignition switch ON • For approximately 2 seconds after turning ignition switch from ON to OFF		0 - 1.0 V
33 (GR)	Ground	Fuel pump relay control	Input	Ignition switch OFF		0 V
				Ignition switch ON	Engine stopped	Battery voltage
					Engine running	0.8 V
34*3 (W)	Ground	Hood switch	Input	Close the hood		Battery voltage
				Open the hood		0 V
37 (R)	Ground	Tail, license plate lamps and illuminations	Output	Lighting switch OFF		0 V
				Lighting switch 1ST		Battery voltage
38 (R)	Ground	Parking lamp (LH)	Output	Lighting switch OFF		0 V
				Lighting switch 1ST		Battery voltage
39 (GR)	Ground	Parking lamp (RH)	Output	Lighting switch OFF		0 V
				Lighting switch 1ST		Battery voltage
40 (BR)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
41 (O)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
42 (L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch OFF	0 V
					Front wiper switch HI	Battery voltage
43 (G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch OFF	0 V
					Front wiper switch LO	Battery voltage
45 (Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever “P” or “N”	Battery voltage
					Selector lever in any position other than “P” or “N”	0 V
46 (W)	Ground	Fuel pump relay power supply	Output	• Ignition switch OFF or ACC • After passing approximately 1 second or more after turning the ignition switch ON		0 V
				• For approximately 1 second after turning the ignition switch ON • Engine running		Battery voltage
47 (BR)	Ground	ECM relay power supply	Output	After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
				• Ignition switch ON • For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage
48 (R)	Ground	ECM relay power supply	Output	After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
				• Ignition switch ON • For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage
50 (G)	Ground	Cooling fan relay-5 control	Output	Cooling fan operation	OFF	Battery voltage
					MID or HI	0 - 1.0 V

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
51 (L)	Ground	ECM relay control	Output	After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		Battery voltage
				• Ignition switch ON • For approximately 4 seconds after turning ignition switch from ON to OFF		0 - 1.0 V
52 (P)	Ground	ETC relay power supply	Output	After passing approximately 2 seconds or more after turning the ignition switch from ON to OFF		0 V
				• Ignition switch ON • For approximately 2 seconds after turning ignition switch from ON to OFF		Battery voltage
55 (O)	Ground	A/C relay power supply	Output	Engine stopped		0 V
				Engine running	A/C switch OFF	0 V
					A/C switch ON (A/C compressor is operating)	Battery voltage
56 (L)	Ground	Ignition switch ON	Input	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
57 (V)	Ground	Horn relay control	Output	The horn is not activated		Battery voltage
				The horn is activated		0 V
58 (LG)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
59 (BR)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
60 (SB)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage

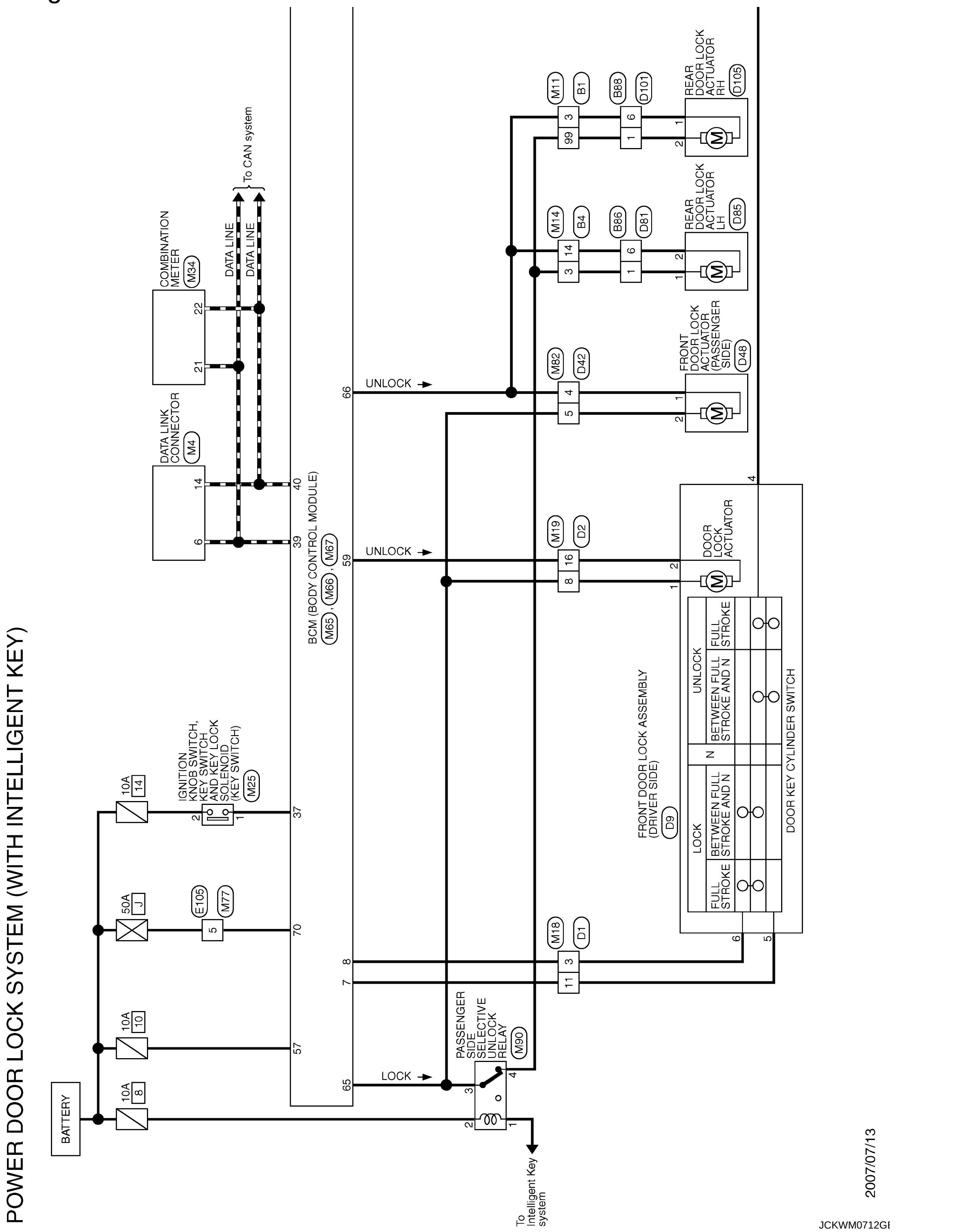
*1: With daytime running light system

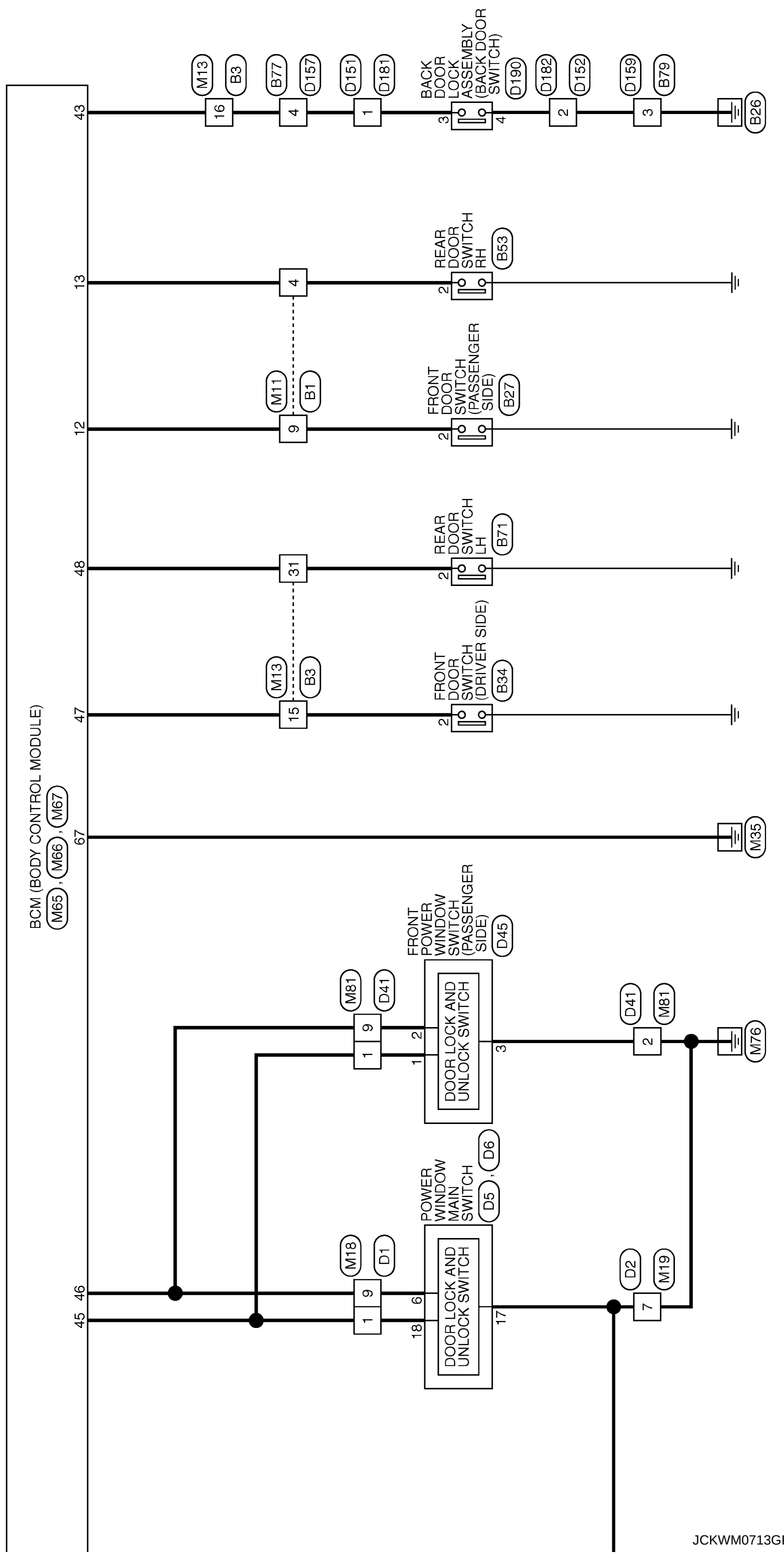
*2: With front fog lamp system

*3: For Mexico

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

INFOID:0000000003223014

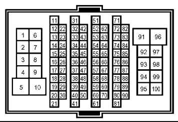



BCM (BODY CONTROL MODULE)
M65 , M66 , M67
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH)
D190
REAR DOOR SWITCH RH
B53
FRONT DOOR SWITCH (PASSENGER SIDE)
B27
REAR DOOR SWITCH LH
B71
FRONT DOOR SWITCH (DRIVER SIDE)
B34
B26
M35
FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
D45
DOOR LOCK AND UNLOCK SWITCH
M76
POWER WINDOW MAIN SWITCH
D5 , D6
DOOR LOCK AND UNLOCK SWITCH
JCKWM0713GB

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

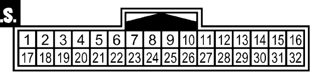
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

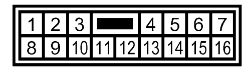
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	–
16	W	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

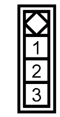
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

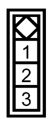
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

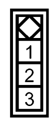
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

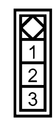
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW

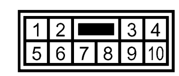
H.S.



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.



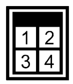
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

JCKWM0714GB

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

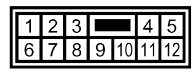
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

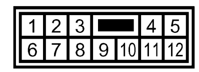
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

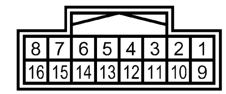
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

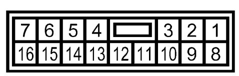
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	W	–
9	BR	–
11	L	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

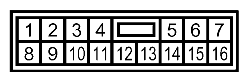
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS

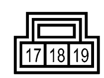
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	–

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

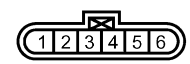
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	–
18	P	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

H.S.

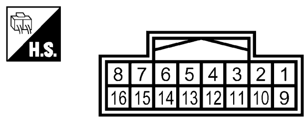


Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
4	B	–
5	L	–
6	W	–

JCKWM0715GI

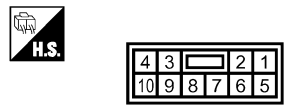
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



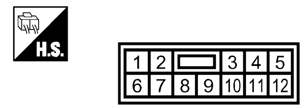
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	B	–
9	BR	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



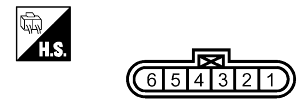
Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



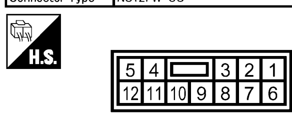
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	BR	–
3	B	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS



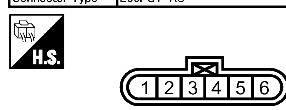
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



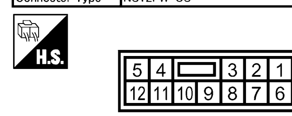
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS



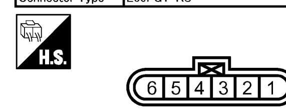
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	G	–

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS



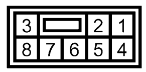
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	V	–

JCKWM0716GI

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

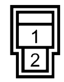
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

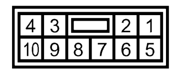
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

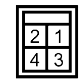
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

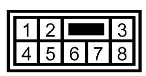
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

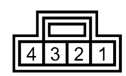
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

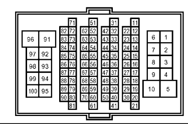
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



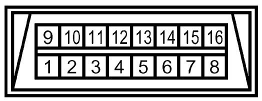
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0717GI

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

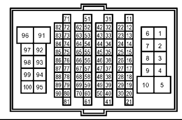
H.S.



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

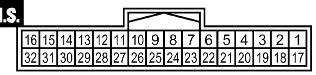
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

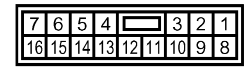
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	W	–
16	V	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

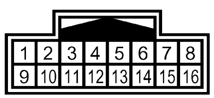
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

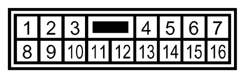
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	R	–
9	BR	–
11	L	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

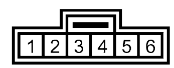
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY

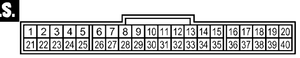
H.S.



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.

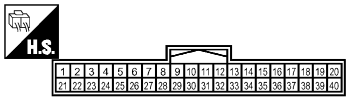


Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

JCKWM0718GB

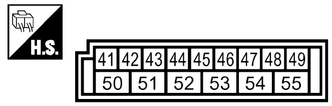
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW



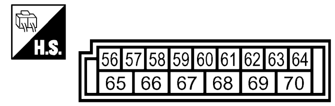
Terminal No.	Color of Wire	Signal Name [Specification]
7	L	KEY CYC UNLOCK
8	R	KEY CYL LOCK SW
12	P	DR SW AS
13	LG	DR SW RR
37	LG	KEY SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



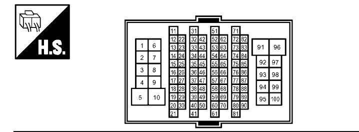
Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
45	P	CDLLOCKSW
46	BR	CDLUNLOCKSW
47	W	DR SW DR
48	GR	DR SW RL

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA



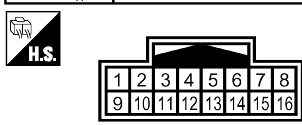
Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
59	L	D/L UNLOCK DR
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



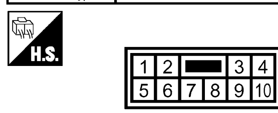
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



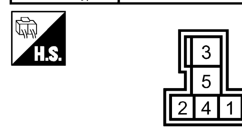
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
9	O	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

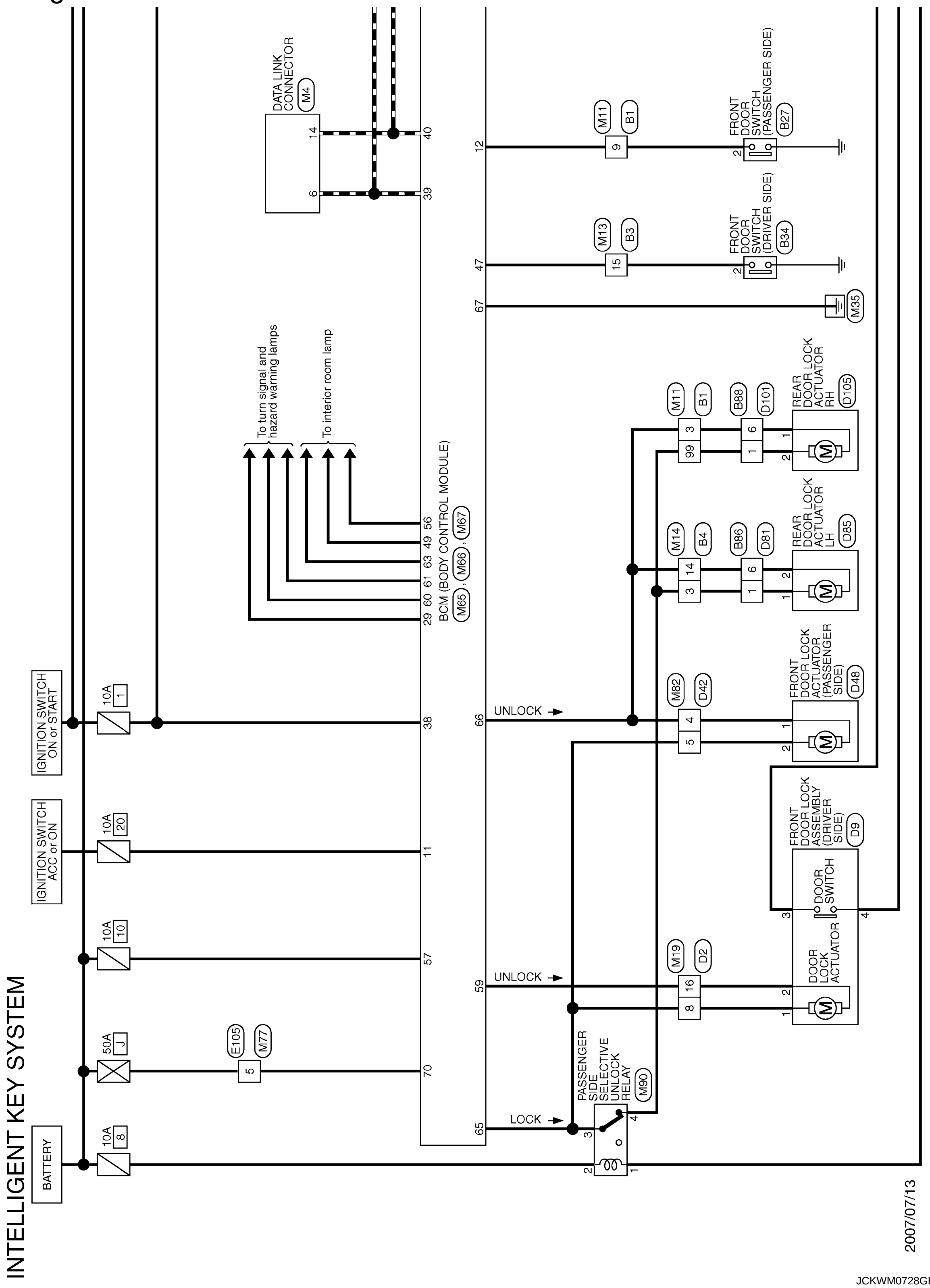
Connector No.	M90
Connector Name	PASSENGER SIDE SELECTIVE UNLOCK RELAY
Connector Type	MS03FB-M2-LC

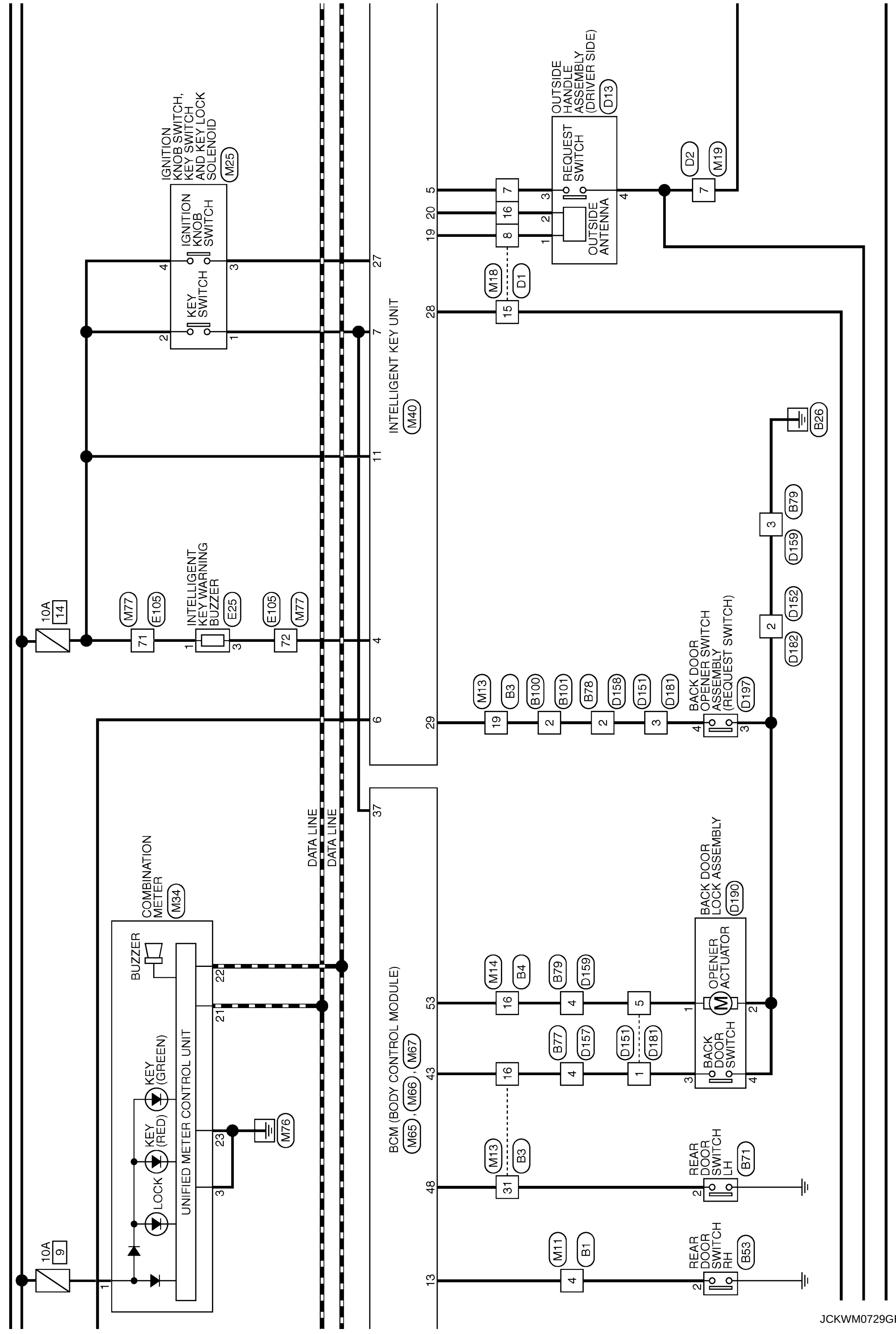


Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	LG	–
3	V	–
4	R	–

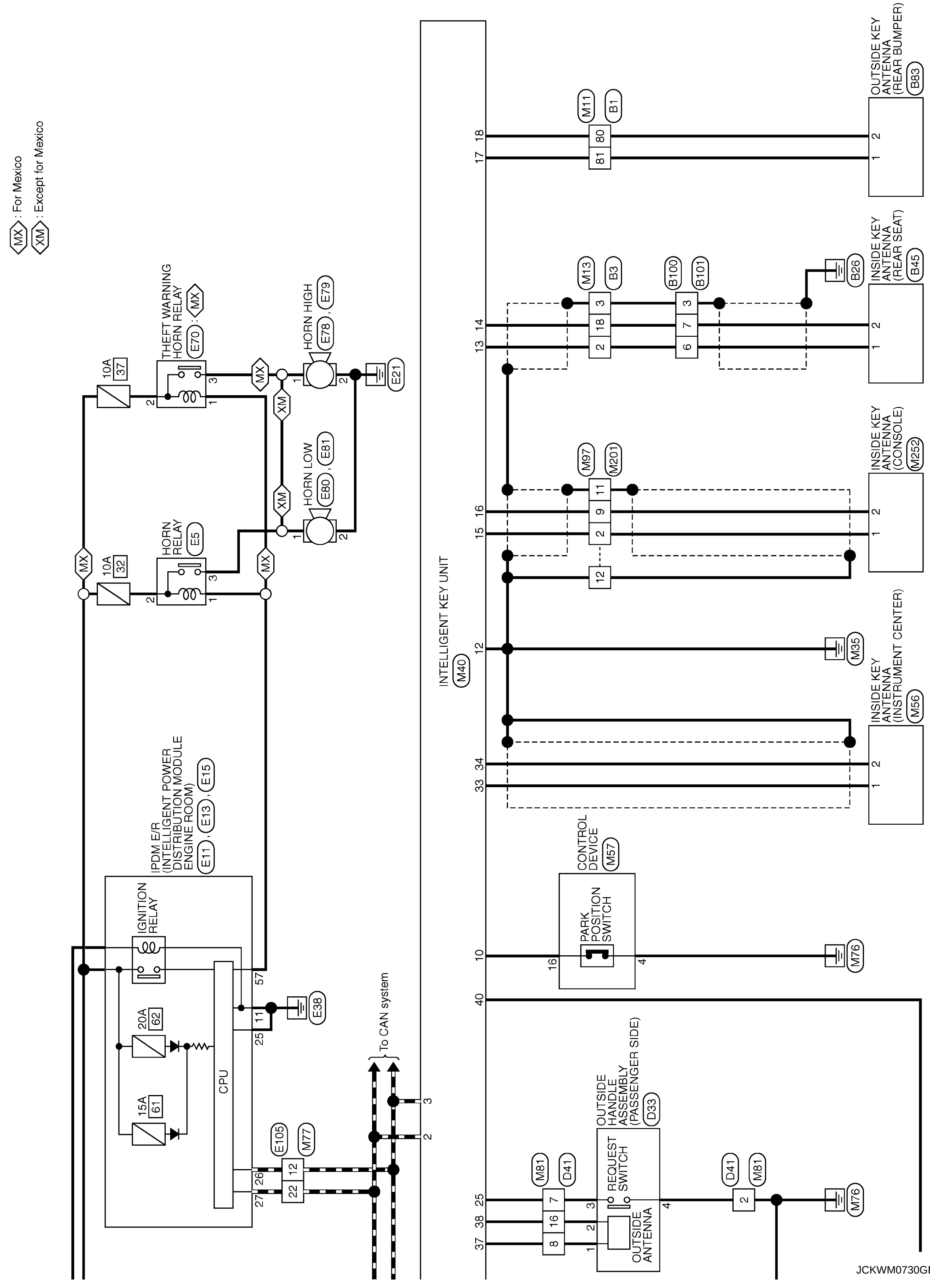
JCKWM0719GB

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM - INFOID:0000000003223015





IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
M25
IGNITION KNOB SWITCH
KEY SWITCH
OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
D13
REQUEST SWITCH
OUTSIDE ANTENNA
INTELLIGENT KEY UNIT
M40
INTELLIGENT KEY WARNING BUZZER
E25
10A
14
10A
9
COMBINATION METER
M34
BUZZER
UNIFIED METER CONTROL UNIT
LOCK
KEY (RED)
KEY (GREEN)
M76
DATA LINE
DATA LINE
BCM (BODY CONTROL MODULE)
M65, M66, M67
BACK DOOR OPENER SWITCH ASSEMBLY (REQUEST SWITCH)
D197
BACK DOOR LOCK ASSEMBLY
D190
OPENER ACTUATOR
BACK DOOR SWITCH
REAR DOOR SWITCH LH
B71
REAR DOOR SWITCH RH
B53
B26
JCKWM0729GB

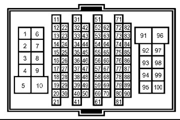


A
B
C
D
E
F
G
H
I
J
DLK
L
M
N
O
P

INTELLIGENT KEY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

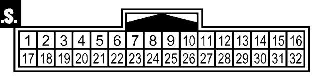
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
80	R	–
81	W	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

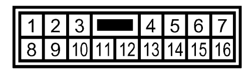
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	G	–
3	B	–
15	P	–
16	W	–
18	R	–
19	SB	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

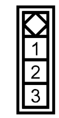
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–
16	W	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

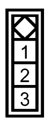
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

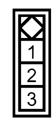
Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	R	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

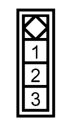
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW

H.S.



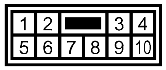
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

JCKWM0731GI

INTELLIGENT KEY SYSTEM

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

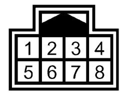
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH

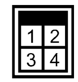
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

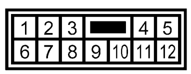
Connector No.	B83
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	R	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

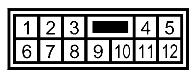
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

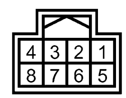
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B100
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH

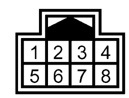
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–
3	B	–
6	G	–
7	R	–

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH

H.S.

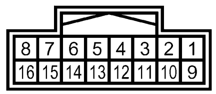


Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–
3	SHIELD	–
6	G	–
7	R	–

JCKWM0732GI

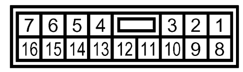
INTELLIGENT KEY SYSTEM

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



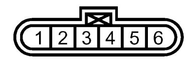
Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	–
8	BR	–
15	G	–
16	O	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



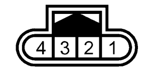
Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS



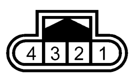
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
3	G	–
4	B	–

Connector No.	D13
Connector Name	OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH04MB



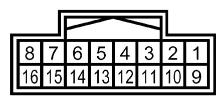
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
2	O	–
3	GR	–
4	B	–

Connector No.	D33
Connector Name	OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04MB



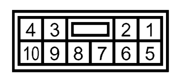
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	P	–
3	BR	–
4	B	–

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



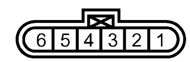
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
7	BR	–
8	V	–
16	P	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS



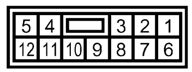
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

JCKWM0733GI

INTELLIGENT KEY SYSTEM

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

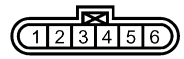
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS

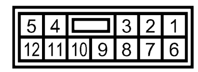
H.S.



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

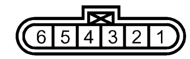
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS

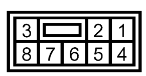
H.S.



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

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

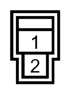
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
3	SB	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

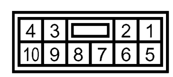
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

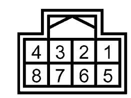
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D158
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	–

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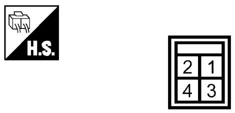
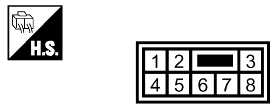
INTELLIGENT KEY SYSTEM

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

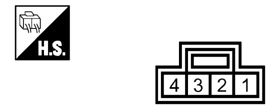


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
3	SB	–
5	V	–

Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

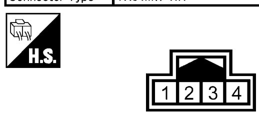
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



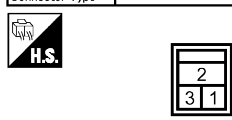
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH



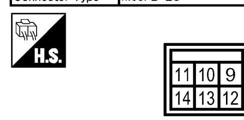
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	SB	–

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	–



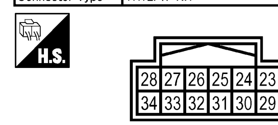
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	P	–
3	G	–

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC



Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
25	B	–
26	P	–
27	L	–

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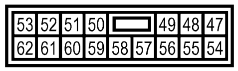
INTELLIGENT KEY SYSTEM

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
57	V	–

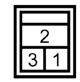
Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
3	LG	–

Connector No.	E70
Connector Name	THEFT WARNING HORN RELAY
Connector Type	M03FW-R-LC

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	R	–
3	G	–

Connector No.	E78
Connector Name	HORN HIGH
Connector Type	P01FB-A

H.S.

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

Connector No.	E79
Connector Name	HORN HIGH
Connector Type	P01FB-A

H.S.

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

Connector No.	E80
Connector Name	HORN LOW
Connector Type	P01FB-A

H.S.

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

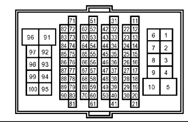
Connector No.	E81
Connector Name	HORN LOW
Connector Type	P01FB-A

H.S.

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
12	P	–
22	L	–
71	O	–
72	LG	–

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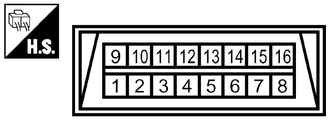
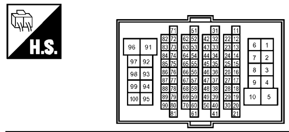
INTELLIGENT KEY SYSTEM

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



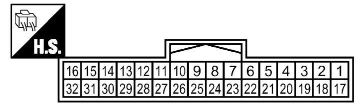
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



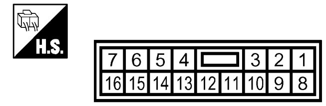
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
80	R	–
81	W	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



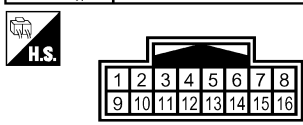
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–
3	SHIELD	–
15	W	–
16	V	–
18	BR	–
19	SB	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



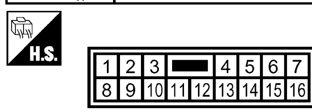
Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–
16	V	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



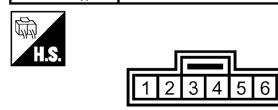
Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	–
8	BR	–
15	W	–
16	O	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



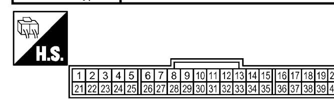
Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	R	–
3	G	–
4	P	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	BAT
3	B	GND2(POWER)
21	L	CAN-H
22	P	CAN-L
23	B	GND3(CIRCUIT)

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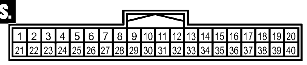
INTELLIGENT KEY SYSTEM

Connector No.	M40
Connector Name	INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN H
3	P	CAN L
4	O	BUZZER
5	Y	REQUEST SW (DR)
6	W	IGNSW
7	LG	KEY SW
10	SB	P RANGE IMPUT SW
11	R	BATT+
12	B	GND
13	Y	REAR SEAT (+)
14	BR	REAR SEAT (−)
15	R	CONSOLE(+)
16	G	CONSOLE(−)
17	W	BACK DOOR (+)
18	R	BACK DOOR (−)
19	BR	DRIVER DOOR (+)
20	O	DRIVER DOOR (−)
25	BR	REQUEST SW (AS)
27	G	KNOB SW
28	W	DR LOCK STATE SW
29	SB	REQUEST SW (BD)
33	L	INSTRUMENT (+)
34	P	INSTRUMENT (−)
37	V	PASSENGER DOOR (+)
38	P	PASSENGER DOOR (−)
40	V	AS ANTI HIJACK

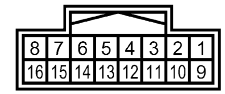
Connector No.	M56
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	−
2	P	−

Connector No.	M57
Connector Name	CONTROL DEVICE
Connector Type	TH16FW-NH

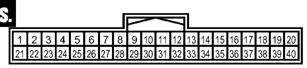
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	B	−
16	SB	−

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

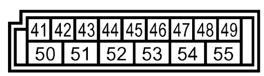
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	SB	ACC
12	P	DR SW AS
13	LG	DR SW RR
29	W	HAZARD SW
37	LG	KEY SW
38	G	IGN
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

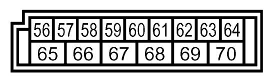
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
47	W	DR SW DR
48	GR	DR SW RL
49	L	LUGGAGE LAMP OUTPUT
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

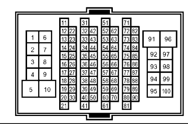
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
56	Y	BATTERYSAVEROUTPUT
57	G	BAT FUSE
59	L	D/L UNLOCK DR
60	BR	FLASHER OUT PUT (LEFT)
61	GR	FLASHER OUT PUT (RIGHT)
63	R	ROOMLAMPOUTPUT
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	−
12	P	−
22	L	−
71	P	−
72	O	−

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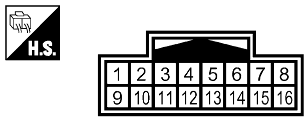
A B C D E F G H I J DLK L M N O P

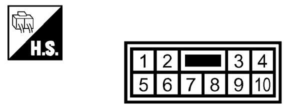
INTELLIGENT KEY SYSTEM

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



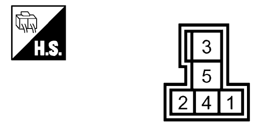
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
7	BR	–
8	V	–
16	P	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



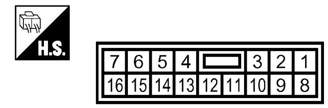
Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

Connector No.	M90
Connector Name	PASSENGER SIDE SELECTIVE UNLOCK RELAY
Connector Type	MS03FB-M2-LC



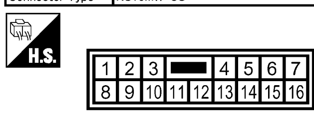
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	LG	–
3	V	–
4	R	–

Connector No.	M97
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



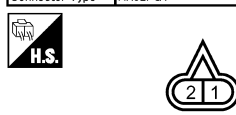
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
9	G	–
11	SHIELD	–
12	B	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
9	G	–
11	SHIELD	–
12	SHIELD	–

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY

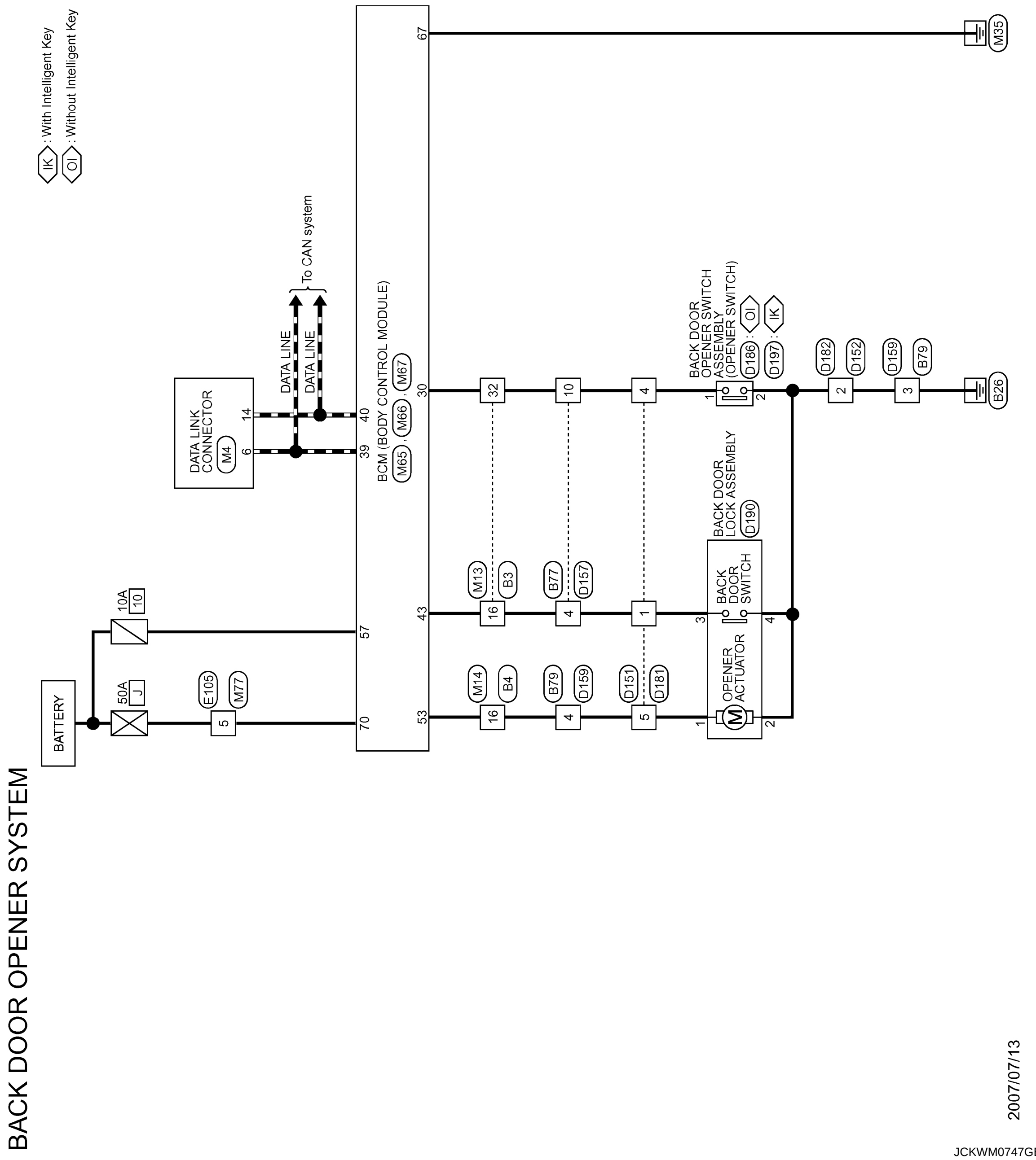


Terminal No.	Color of Wire	Signal Name [Specification]
1	R	–
2	G	–

JCKWM0739GB

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:0000000003223016



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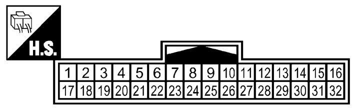
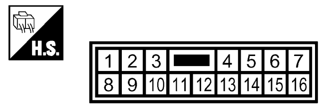
BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



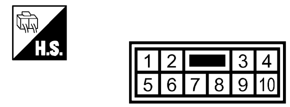
Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–
32	LG	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

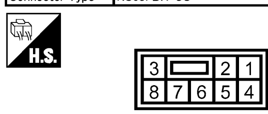


Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

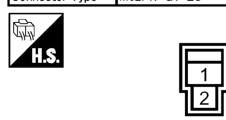
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



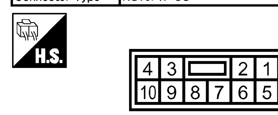
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC



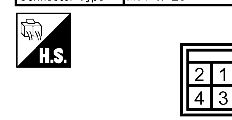
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

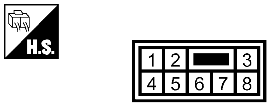


Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

JCKWM0748GI

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

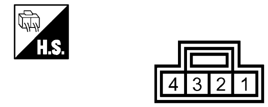
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

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

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK02MBR-P

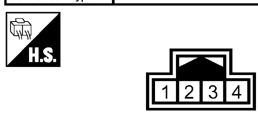
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



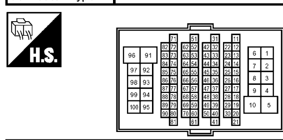
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH



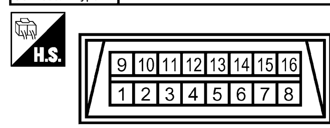
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



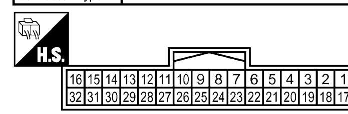
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–
32	G	–

JCKWM0749GI

BACK DOOR OPENER SYSTEM

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

Terminal No.	Color of Wire	Signal Name [Specification]
30	G	BACK DOOR OPEN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0750GB

Fail Safe

INFOID:0000000003170220

CAN COMMUNICATION CONTROL

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

If no CAN communication is available with ECM

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

If no CAN communication is available with BCM

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

NOTE:

*: With daytime running light system

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

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

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

NOTE:

*: With daytime running light system

FRONT WIPER CONTROL

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

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

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

DTC Index

INFOID:0000000003170221

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

NOTE:

The details of time display are as follows.

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

SYMPTOM DIAGNOSIS

DOOR LOCK

Symptom Table

INFOID:0000000001729432

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

No.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
1	Door lock and unlock switch function	Press door lock and unlock switch	Door does not lock/unlock	All doors	DLK-221
				Driver side	DLK-221
				Passenger side	DLK-221
				Rear LH	DLK-222
				Rear RH	DLK-222
2	Key cylinder switch function	Operate key cylinder with mechanical key	Door does not lock/unlock	—	DLK-223
			Selective unlock function does not operate	—	DLK-229
3	Intelligent Key function	Press Intelligent Key button	Door does not lock/unlock	—	DLK-224
			Selective unlock function does not operate	—	DLK-227
			Panic alarm function does not operate	—	DLK-230
4	Door request switch function	Press all door request switch	Door does not lock/unlock	—	DLK-225
		Press driver side door request switch		—	DLK-225
		Press passenger side door request switch		—	DLK-225
		Press back door request switch		—	DLK-226
		Press driver side door request switch, when all doors are locked	Selective unlock function does not operate	Driver side door	DLK-228
		Press passenger side door request switch, when all doors are locked		Passenger side door	DLK-228
5	Key reminder function	Lock all doors with door lock and unlock switch, when Intelligent Key is inside of the vehicle	Key reminder function does not operate	—	DLK-231
6	Auto door lock function	Unlock all doors and wait more than 1 minutes	Auto door lock operation does not operate	—	DLK-232
7	Back door opener function	Press back door opener switch	Back door does not open	—	DLK-233

No.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
8	Warning function	Operate ignition knob return fogatten warning	Does not operate	—	DLK-234
		Operate ignition key warning		—	DLK-235
		Operate OFF position warning		Buzzer (Combination meter)	DLK-236
				Intelligent Key warning buzzer	DLK-236
		Operate take away warning (door is opened)		Warning lamp	DLK-238
		Operate take away warning (any door open to all door close)		Intelligent Key warning buzzer	DLK-239
				Warning lamp	DLK-239
		Operate take away warning (take away through window Intelligent Key)		Buzzer (Combination meter)	DLK-240
				Warning lamp	DLK-240
		Operate P position warning		—	DLK-237
		Turn ignition switch ON position, when Intelligent Key battery is low voltage	Intelligent Key low battery warning does not operate	Warning lamp	DLK-241
		Press door request switch under the following conditions	Door lock operation warning chime does not operate	—	DLK-242
		Press Intelligent Key button under the following conditions		—	DLK-243
9	Hazard and buzzer reminder function	Press door request switch	Buzzer reminder operation does not operate	—	DLK-244
			Hazard reminder operation does not operate	—	DLK-245
10	Hazard and horn reminder function	Press Intelligent Key button	Horn reminder operation does not operate	—	DLK-246
			Hazard reminder operation does not operate	—	DLK-245
11	Integrated homelink transmitter function	Press homelink button	Integrated homelink transmitter does not operate	—	DLK-247

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Diagnosis Procedure

INFOID:0000000001729434

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to DLK-55, "BCM : 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-61, "DRIVER SIDE : Component Function Check".(Driver side)
Refer to DLK-63, "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 SWITCH

Check door switch.
Refer to DLK-57, "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-41, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001729436

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to DLK-77, "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-41, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001729438

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).
Refer to DLK-78, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

REAR LH

REAR LH : Diagnosis Procedure

INFOID:0000000001729440

1.CHECK DOOR LOCK ACTUATOR

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

REAR RH

REAR RH : Diagnosis Procedure

INFOID:0000000001729442

1.CHECK DOOR LOCK ACTUATOR

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH MECHANICAL KEY

Diagnosis Procedure

INFOID:0000000002932999

1. CHECK KEY CYLINDER SWITCH

Check key cylinder switch.
Refer to DLK-72, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000001729444

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to DLK-55, "INTELLIGENT KEY UNIT : Diagnosis Procedure" (Intelligent Key unit).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.
Refer to DLK-110, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK KEY SWITCH

Check key switch.
Refer to DLK-70, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.
Refer to DLK-75, "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-41, "Intermittent Incident" .
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

ALL DOOR

ALL DOOR : Diagnosis Procedure

INFOID:0000000001902673

1. CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"

Check "LOCK/UNLOCK BY I-KEY" setting in "Work Support".
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-309, "Removal and Installation".
NO >> Set "LOCK/UNLOCK BY I-KEY" of "Work Support". Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001729448

1. CHECK DOOR REQUEST SWITCH

Check door request switch.
Refer to DLK-65, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CHECK OUTSIDE KEY ANTENNA

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001729450

1. CHECK DOOR REQUEST SWITCH

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CHECK OUTSIDE KEY ANTENNA

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

BACK DOOR

BACK DOOR : Diagnosis Procedure

INFOID:0000000001729452

1. CHECK DOOR REQUEST SWITCH

Check back door request switch.
Refer to DLK-68, "BACK DOOR : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CHECK OUTSIDE KEY ANTENNA

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000001729446

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

Check "SELECTIVE UNLOCK FUNCTION" setting in "Work Support".
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Set "SELECTIVE UNLOCK FUNCTION" of "Work Support". Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001729454

1.CHECK “SELECTIVE UNLOCK FUNCTION” SETTING IN “WORK SUPPORT”

Check “SELECTIVE UNLOCK FUNCTION” setting in “Work Support”.
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Set “SELECTIVE UNLOCK FUNCTION” of “Work Support”. Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001729456

1.CHECK PASSENGER SIDE SELECTIVE UNLOCK RELAY

Check passenger side selective unlock relay.
Refer to DLK-105, "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-41, "Intermittent Incident".
NO >> GO TO 1.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY CYLINDER SWITCH

Diagnosis Procedure

INFOID:0000000002957424

1. CHECK “DOOR LOCK–UNLOCK SET” SETTING IN “WORK SUPPORT”

Check “DOOR LOCK–UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-43, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Set “DOOR LOCK–UNLOCK SET” in “WORK SUPPORT”. Refer to DLK-43, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)" .

PANIC ALARM FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000002933001

1.CHECK “PANIC ALARM SET” SETTING IN “WORK SUPPORT”

Check “PANIC ALARM SET” setting in “WORK SUPPORT”.
Refer to DLK-43, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “PANIC ALARM SET” setting in “WORK SUPPORT”.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729458

1.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to DLK-92, "INSTRUMENT CENTER : Component Function Check". (Instrument center)
Refer to DLK-93, "CONSOLE : Component Function Check". (Console)
Refer to DLK-94, "REAR SEAT : Component Function Check". (Rear seat)

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK UNLOCK SENSOR

Check unlock sensor.
Refer to DLK-101, "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-41, "Intermittent Incident".
NO >> GO TO 1.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729460

1.CHECK “AUTO RELOCK TIMER” SETTING IN “WORK SUPPORT”

Check “AUTO RELOCK TIMER” setting in “Work Support”.
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

BACK DOOR DOES NOT OPENED

Diagnosis Procedure

INFOID:0000000001729464

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.
Refer to DLK-85, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.
Refer to DLK-83, "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-41, "Intermittent Incident".
NO >> GO TO 1.

IGNITION KNOB RETURN FORGOTTEN WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729466

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-99, "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-41, "Intermittent Incident".
NO >> GO TO 1.

IGNITION KEY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729468

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-99, "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-41, "Intermittent Incident" .
NO >> GO TO 1.

OFF POSITION WARNING DOES NOT OPERATE

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001729472

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-99, "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-41, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Diagnosis Procedure

INFOID:0000000003222364

1. 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 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-41, "Intermittent Incident".
NO >> GO TO 1.

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000002933003

1.CHECK PARK POSITION SWITCH

Check park position switch.
Refer to DLK-103, "Diagnosis Procedure" .

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-41, "Intermittent Incident".
NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED)

Diagnosis Procedure

INFOID:0000000001729474

1. CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-100, "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-41, "Intermittent Incident".
NO >> GO TO 1.

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

WARNING LAMP

WARNING LAMP : Diagnosis Procedure

INFOID:0000000001729476

1. CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-100, "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-41, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Diagnosis Procedure

INFOID:0000000001729478

1. 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 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-41, "Intermittent Incident".
NO >> GO TO 1.

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

WARNING LAMP

WARNING LAMP : Diagnosis Procedure

INFOID:0000000001729480

1. CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-100, "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-41, "Intermittent Incident".
NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001729482

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-99, "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-41, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729484

1.CHECK “LOW BATT OF KEY FOB WARN” SETTING IN “WORK SUPPORT”

Check “LOW BATT OF KEY FOB WARN” setting in “Work Support”.
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “LOW BATT OF KEY FOB WARN” setting in “Work Support”. Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

2.CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-100, "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-41, "Intermittent Incident".
NO >> GO TO 1.

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

Diagnosis Procedure

INFOID:0000000001729486

1.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 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-41, "Intermittent Incident".
NO >> GO TO 1.

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000001729488

1. 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 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-41, "Intermittent Incident".
NO >> GO TO 1.

BUZZER REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729492

1.CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “Work Support”.
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “WORK SUPPORT”. Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

HAZARD REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729494

1. CHECK SETTING OF HAZARD REMINDER WITH CONSULT-III

Check “HAZARD ANSWER BACK” setting in “Work Support”.
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HAZARD ANSWER BACK” setting in “Work Support”. Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

2. CHECK HAZARD FUNCTION

Check “Hazard 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-41, "Intermittent Incident".
NO >> GO TO 1.

HORN REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000002933017

1.CHECK “HORN WITH KEYLESS LOCK” SETTING IN “WORK SUPPORT”

Check “HORN WITH KEYLESS LOCK” setting in “WORK SUPPORT”.
Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HORN WITH KEYLESS LOCK” setting in “WORK SUPPORT”. Refer to DLK-50, "CONSULT-III Function (INTELLIGENT KEY)".

2.CHECK HORN FUNCTION

Check horn function.
Refer to DLK-363, "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-41, "Intermittent Incident".
NO >> GO TO 1.

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000002933019

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.
Refer to DLK-110, "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.

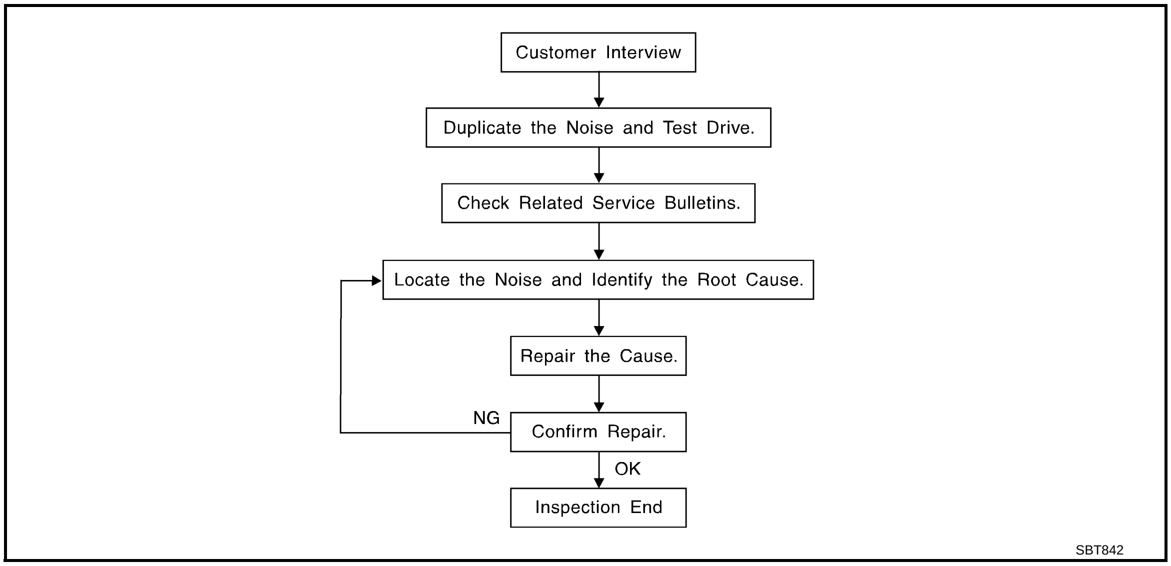
Is the result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000003247319



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-252, "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 you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

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 you suspect the noise is coming from.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that you suspect is causing the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks.
  Refer to DLK-250, "Inspection Procedure".

REPAIR THE CAUSE

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

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

Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit. Will only last a few months.
SILICONE SPRAY
Use when grease cannot be applied.
DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000003247320

Refer to Table of Contents for specific component removal and installationinformation.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Do not use silicone spray to isolate a squeak or rattle. If you saturatethe area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

TRUNK

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

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

Most of these incidents can be repaired by adjusting, securing or insulatingthe 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 knockingnoise
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 duplicatingthe conditions can isolate most of these incidents. Repairs usually consistof insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis in and the load placed on the seat when the noise is present. These conditionsshould 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 suspectedcomponents while duplicating the conditions under which the noise occurs.Most of these incidents can be repaired by repositioning the component orapplying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or onthe 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.

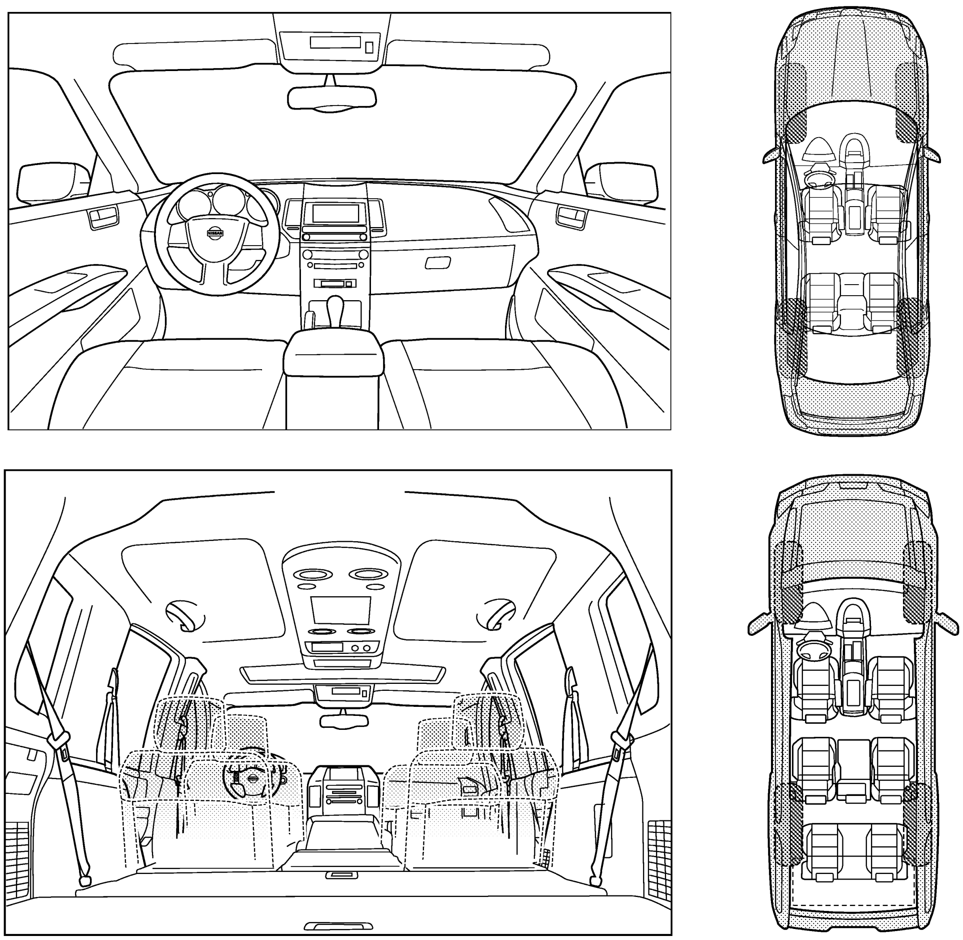
Diagnostic Worksheet

INFOID:0000000003247321

SQUEAK & RATTLE
DIAGNOSTIC WORKSHEET

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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



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

PIIB8740E

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)

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ other:

III. WHEN DRIVING:

- ☐ 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	☐	☐	____________
- Noise verified on test drive	☐	☐	____________
- Noise source located and repaired	☐	☐	____________
- Follow up test drive performed to confirm repair	☐	☐	____________

VIN: ______________________ Customer Name: ______________________

W.O.# ______________________ Date: ______________

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

FOR MEXICO

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

INFOID:0000000003247326

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the “SRS AIRBAG” 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 AIRBAG”.**
- **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.**

FOR MEXICO : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000003247327

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the ″LOCK″ position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.
For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.
If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

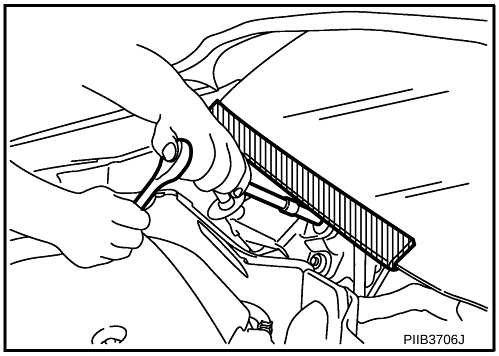
OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ″ACC″ position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the ″LOCK″ position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

FOR MEXICO : Precaution for Procedure without Cowl Top Cover

INFOID:0000000003247328

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



PIIB3706J

FOR MEXICO : Precautions For Xenon Headlamp Service

INFOID:0000000003247354

WARNING:

Comply with the following warnings to prevent any serious accident.

- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**
- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

FOR MEXICO : Work

INFOID:0000000001729501

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

FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000003247330

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 AIRBAG” 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 AIRBAG”.**

- **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.**

FOR USA AND CANADA : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000003247331

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the ″LOCK″ position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.
For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.
If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

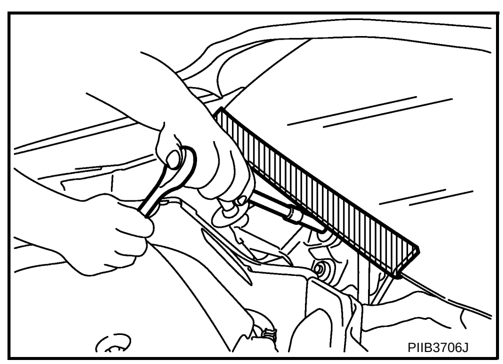
OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ″ACC″ position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the ″LOCK″ position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

FOR USA AND CANADA : Precaution for Procedure without Cowl Top Cover

INFOID:0000000003247332

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



FOR USA AND CANADA : Precautions For Xenon Headlamp Service

INFOID:0000000003247355

WARNING:
Comply with the following warnings to prevent any serious accident.

- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**

- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

FOR USA AND CANADA : Work

INFOID:0000000003247333

- 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.

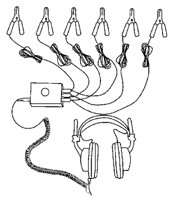
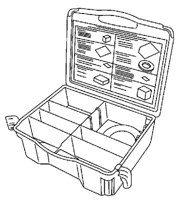
PREPARATION

PREPARATION

Special Service Tools

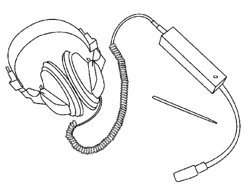
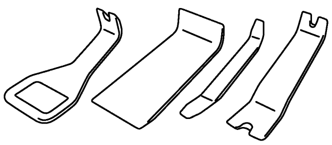
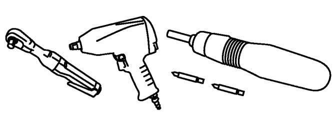
INFOID:0000000003222333

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

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	 SIIA0993E	Location the noise
(J-43980) NISSAN Squeak and Rattle Kit	 SIIA0994E	Repairing the cause of noise

Commercial Service Tools

INFOID:0000000001729502

Tool name		Description
Engine ear	 SIIA0995E	Locating the noise
Remover tool	 PIIB7923J	Remove the clips, pawls, and metal clips
Power tool	 PIIB1407E	

ON-VEHICLE REPAIR

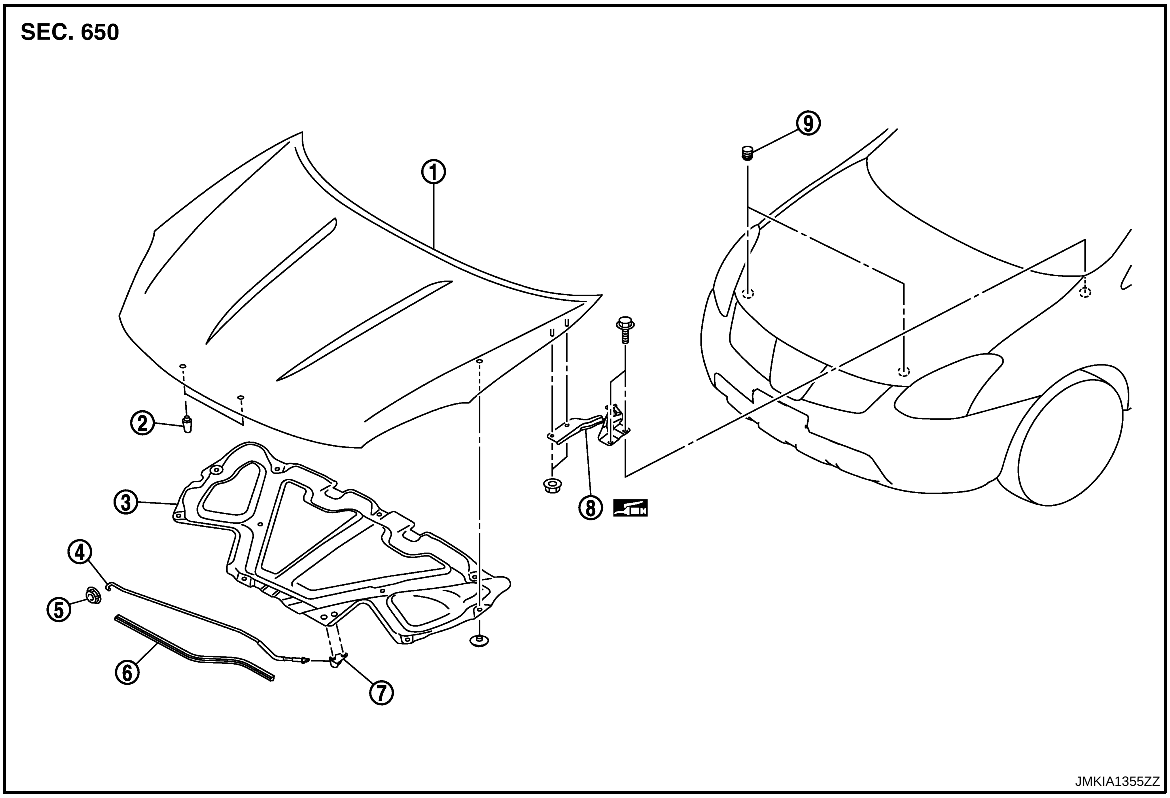
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:0000000001729503

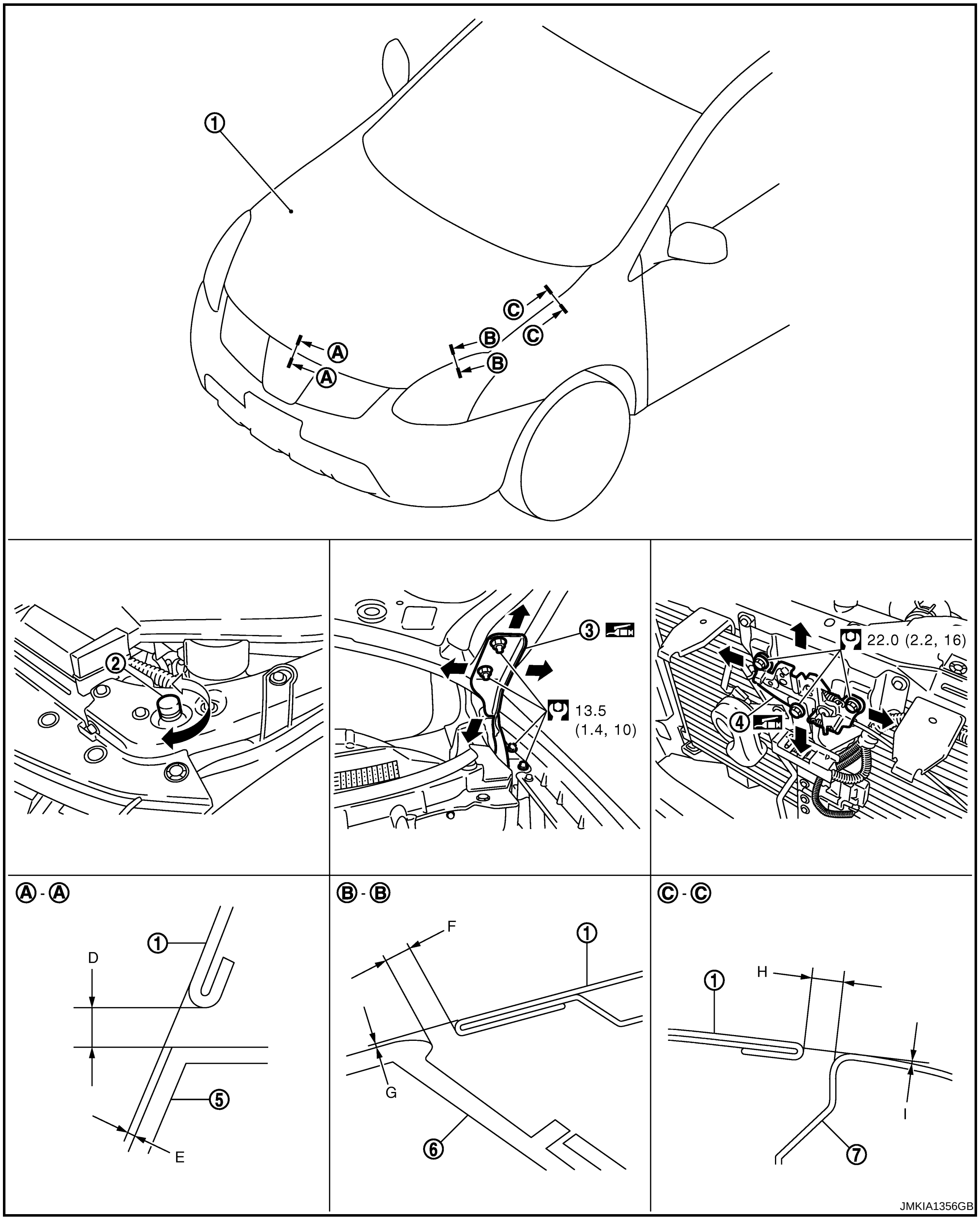
REMOVAL



1.	Hood assembly	2.	Hood bumper rubber center	3.	Hood insulator
4.	Hood support rod	5.	Grommet	6.	Hood seal rubber
7.	Clamp	8.	Hood hinge	9.	Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1. Hood assembly
2. Hood bumper rubber side
3. Hood hinge
4. Hood lock assembly
5. Front bumper fascia
6. Front combination lamp
7. Front fender

Refer to GI-4, "Components" for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000001729504

REMOVAL

1. Support hood lock assembly with the proper material to prevent it from falling.

   WARNING:

   Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

2. Remove hood hinge mounting nuts on the hood to remove the hood assembly.
   CAUTION:
   Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Perform work with 2 workers, because of its heavy weight.**
- **Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.**
- **After installing, perform hood fitting adjustment. Refer to DLK-261, "HOOD ASSEMBLY : Adjustment".**

HOOD ASSEMBLY : Adjustment

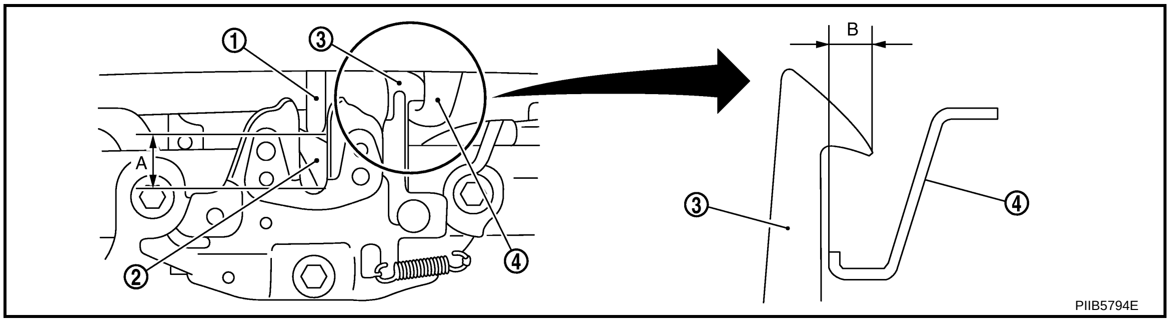
INFOID:0000000001729505

Check the clearance and the surface height between hood and each part by visually and touching.
In case any parts are out of specification, adjust them according to the procedures shown below.

unit : mm(in)

Portion				Standard	Difference (RH/LH)
Hood – Front bumper	A – A	D	Clearance	4.0 – 8.0 (0.157 – 0.315)	—
		E	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)	—
Hood – Front combination lamp	B – B	F	Clearance	2.0 – 6.0 (0.079 – 0.236)	< 3.0 (0.118)
		G	Surface height	- 2.0 – 2.0 (- 0.079 – 0.079)	< 2.0 (0.079)
Hood – Front fender	C – C	H	Clearance	2.6 – 4.6 (0.102 – 0.181)	< 1.4 (0.055)
		I	Surface height	- 1.0 – 1.0 (- 0.039 – 0.039)	< 1.4 (0.055)

1. Remove hood lock and adjust the height by rotating hood bumper rubber side until hood becomes 1 to1.5 mm (0.039 to 0.059 in) lower than fender.
2. Temporarily tighten hood lock, and position by engaging it with hood striker. Check hood lock and striker for looseness and adjust the clearance and evenness with striker to satisfy the specification.
3. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately 200 mm (7.874 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5lb)].



1. Hood striker
2. Primary latch
3. Secondary striker
4. Secondary latch

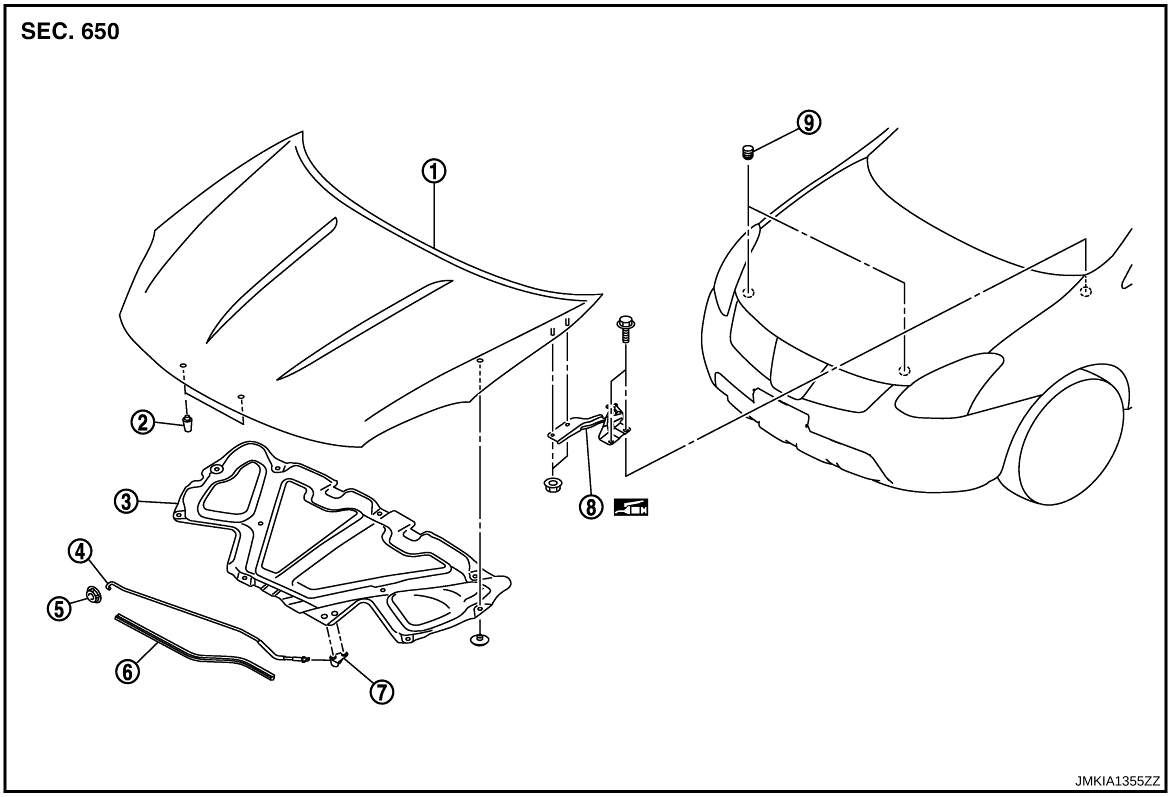
A : 20.0 mm (0.787 in)
B : 6.8 mm (0.268 in)

4. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:0000000001729506



1.	Hood assembly	2.	Hood bumper rubber center	3.	Hood insulator
4.	Hood support rod	5.	Grommet	6.	Hood seal rubber
7.	Clamp	8.	Hood hinge	9.	Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:0000000001729507

REMOVAL

1. Remove hood assembly. Refer to DLK-260, "HOOD ASSEMBLY : Removal and Installation".
2. Remove front fender. Refer to DLK-268, "Removal and Installation".
3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Install in the reverse order of removal.

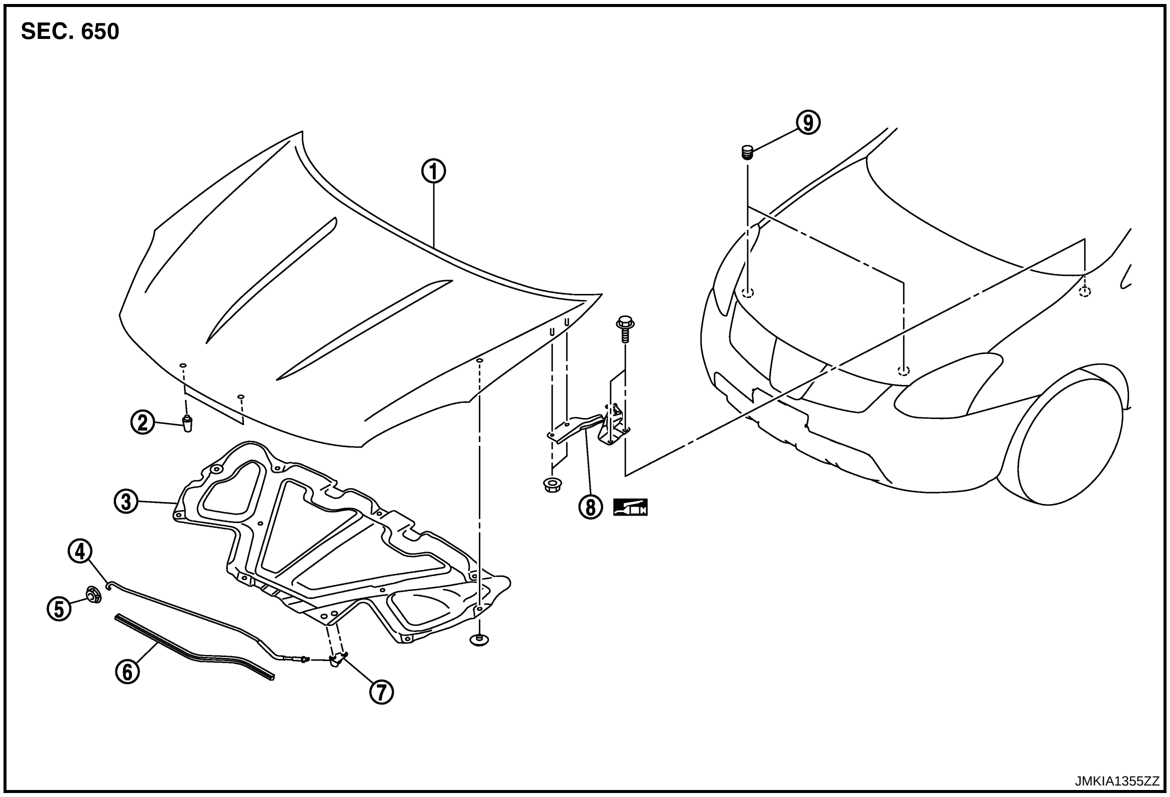
CAUTION:

- **Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.**
- **After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.**
- **After installation, perform hood fitting adjustment. Refer to DLK-261, "HOOD ASSEMBLY : Adjustment".**

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:0000000002912473



1.	Hood assembly	2.	Hood bumper rubber center	3.	Hood insulator
4.	Hood support rod	5.	Grommet	6.	Hood seal rubber
7.	Clamp	8.	Hood hinge	9.	Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:0000000001729509

REMOVAL

1. Support hood lock assembly with the proper material to prevent it from falling.

   WARNING:
   Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.
2. Remove hood support rod from grommet.

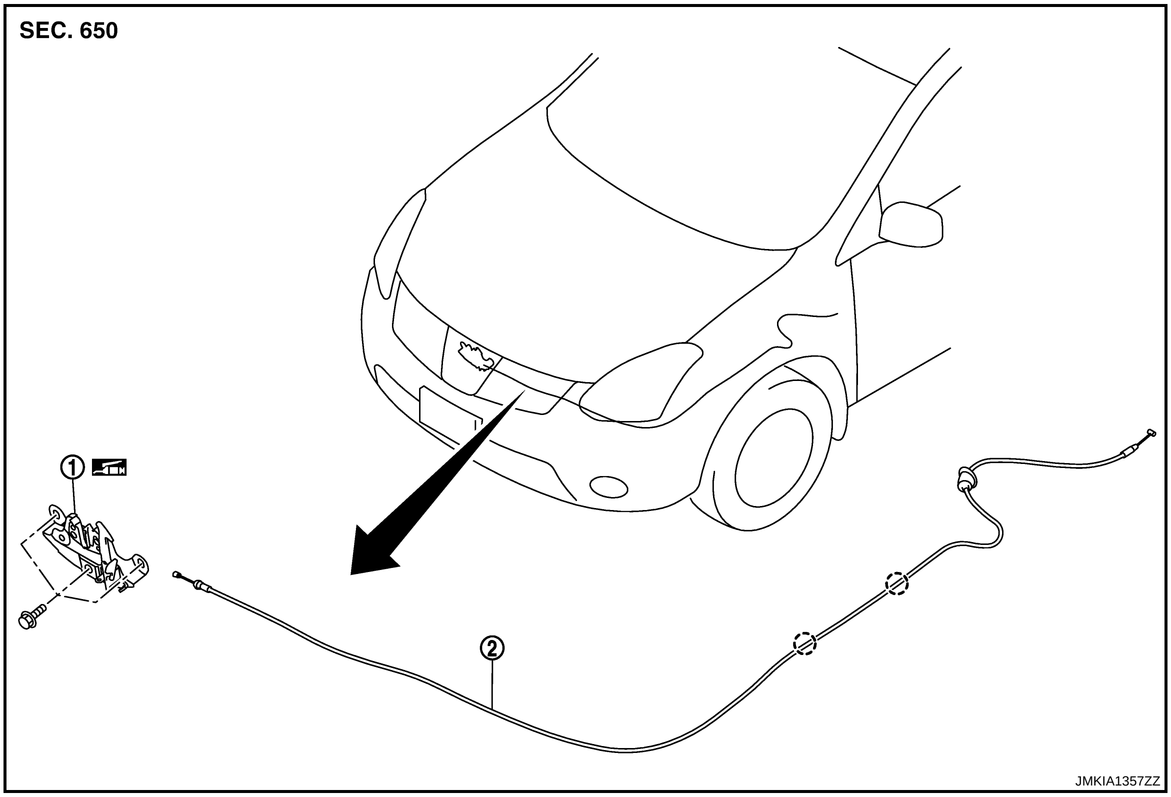
INSTALLATION

Install in the reverse order of removal.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:0000000001729510



1. Hood lock assembly
2. Hood lock control cable

:Clip

Refer to GI-4, "Components" for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:0000000001729511

REMOVAL

CAUTION:

Check how hood lock control cable has been wiring situation, before it is removed.

1. Remove clips at the upper side of front bumper. Refer to EXT-13, "Exploded View".
2. Remove mounting bolts, and then remove hood lock assembly.
3. Disconnect hood lock cable from hood lock assembly.
4. Remove instrument driver lower cover. Refer to IP-13, "Removal and Installation".
5. Disconnect hood lock cable from instrument driver lower cover.
6. Remove fender protector (LH). Refer to EXT-22, "Removal and Installation".
7. Remove hood lock cable clamp.
8. Remove grommet on the dashbord, and pull the hood lock control cable toward the passenger compartment.

   CAUTION:

   While pulling, do not to damage (peeling) the outside of hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Do not to bend cable too much, keeping the radius 100 mm (3.937 in) or more.**

- **Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark) properly.**

- **Check that hood lock control cable is properly engaged with hood lock.**
- **After installation, perform hood fitting adjustment. Refer to DLK-261, "HOOD ASSEMBLY : Adjustment".**
- **After installation, perform hood lock control inspection. Refer to DLK-265, "HOOD LOCK CONTROL : Inspection".**

HOOD LOCK CONTROL : Inspection

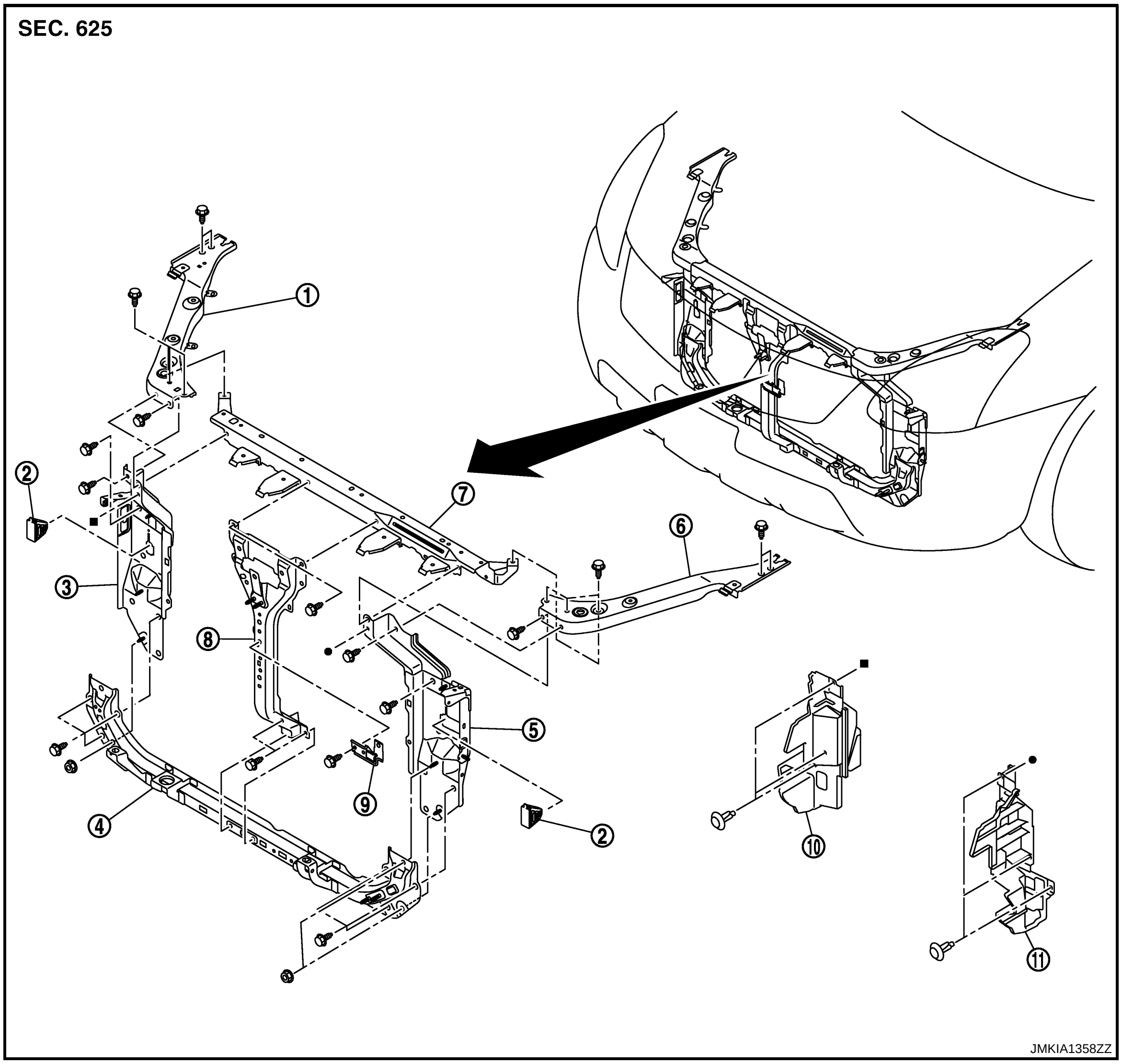
INFOID:0000000001729512

NOTE:

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000001729513



1. Radiator core support upper RH
2. Locator (RH/LH)
3. Radiator core support side RH
4. Radiator core support lower
5. Radiator core support side LH
6. Radiator core support upper LH
7. Radiator core support upper center
8. Hood lock support stay assembly
9. Sensor bracket
10. Air guide RH
11. Air guide LH

Removal and Installation

INFOID:0000000001729514

REMOVAL

1. Remove front bumper facia, front bumper rainforcement. Refer to EXT-14, "Removal and Installation".
2. Remove air intake duct. Refer to EM-27, "Removal and Installation".
3. Remove front combination lamp (LH/RH). Refer to EXL-121, "Removal and Installation" (XENON TYPE), EXL-255, "Removal and Installation" (HALOGEN TYPE).
4. Remove air guide mounting clips, and remove air guide (LH/RH).
5. Remove fluid cooler. Refer to TM-204, "FLUID COOLER : Removal and Installation".
6. Remove fluid cooler stay lower. Refer to TM-204, "FLUID COOLER : Exploded view".
7. Remove seal radiator lower.

8. Remove horn (HI/LO). Refer to HRN-9, "Removal and Installation".
9. Remove ambient sensor.

(1): Ambient sensor

10. Remove Intelligent Key warning buzzer (with Intelligent Key systems). Refer to DLK-305, "Removal and Installation".
11. Remove crash zone sensor. Refer to SR-14, "Removal and Installation".
12. Disconnect liquid tank connector. Refer to HA-52, "Exploded View".
13. Remove hood lock assembly. Refer to DLK-264, "HOOD LOCK CONTROL : Removal and Installation".
14. Disconnect harness clips from radiator core support assembly.
15. Remove mounting bolts, and then remove hood lock support stay assembly.
16. Remove washer tank. Refer to WW-83, "Removal and Installation".
17. Place securely the hood support rod inside the engine mounting bracket hole.
    CAUTION:
    Check that the hood is securely fix.
18. Remove mounting bolts, and then remove radiator core support upper assembly (radiator core support upper center and radiator core support upper side).
19. Remove radiator core support lower assembly (radiator core support side and radiator core support lower) mounting bolts.
20. Remove radiator core support lower assembly (radiator core support side and radiator core support lower) while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser from falling.
    CAUTION:
    Operate with two workers, because of its heavy weight.
21. Put some wooden blocks etc.(A) under radiator and condenser, and use a rope to suspend it to prevent it from falling.
    CAUTION:
    Operate with two workers, because of its heavy weight.

22. Disassembly radiator core support upper side from radiator core support upper center.
23. Disassembly radiator core support side from radiator core support lower.

INSTALLATION

Install in the reverse order of removal.

FRONT FENDER

Exploded View

INFOID:0000000001729515

Removal and Installation

INFOID:0000000001729516

CAUTION:
Use a shop cloth to protect the body from being damaged during removal and installation.

REMOVAL

1. Remove front bumper facia. Refer to EXT-14, "Removal and Installation".
2. Remove front combination lamp. Refer to EXL-121, "Removal and Installation" (XENON TYPE), EXL-255, "Removal and Installation" (HALOGEN TYPE).
3. Remove fender protector. Refer to EXT-22, "Removal and Installation".
4. Remove front fender finisher.
5. Remove mounting bolts and remove front fender.
   CAUTION:
   An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, peel of the urethane foam bit at a time, and carefully to remove it.

INSTALLATION

Install in the reverse order of removal.
CAUTION:
- **After installation, check front fender adjustment. Refer to DLK-261, "HOOD ASSEMBLY : Adjustment" and DLK-271, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply the touch-up paint (the body color) onto the head of front fender mounting**

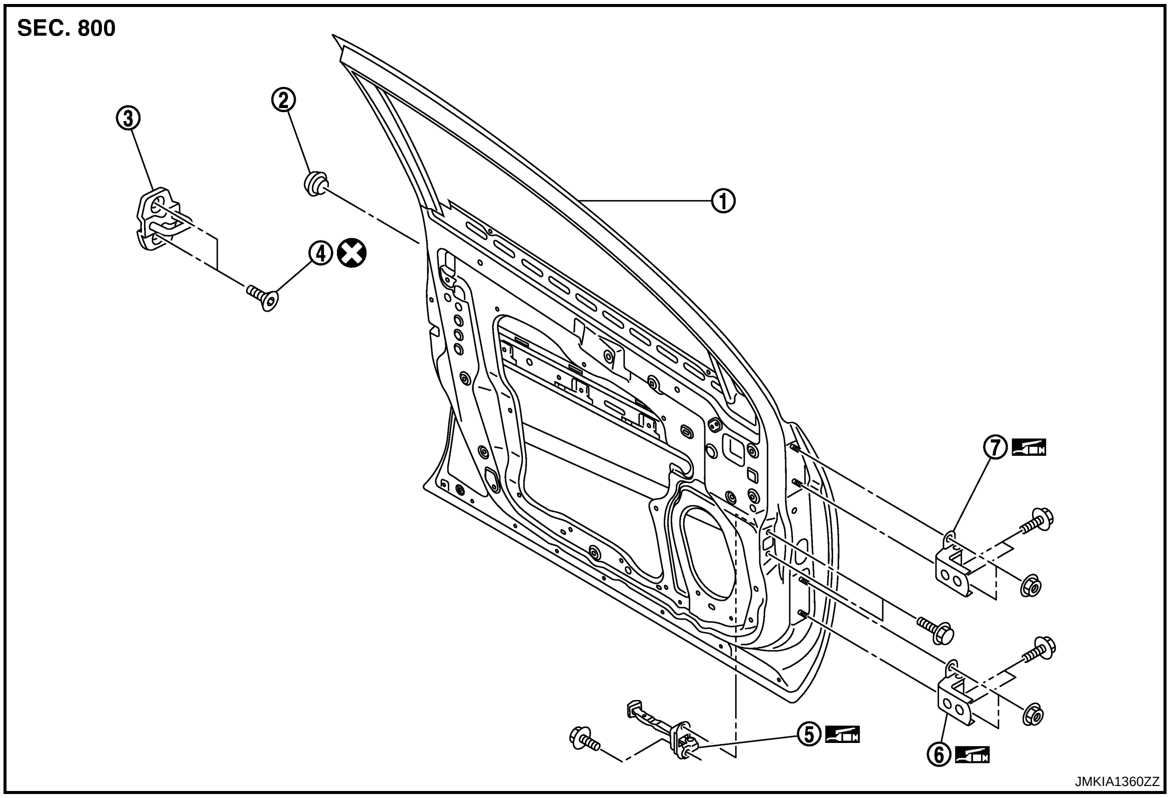
FRONT DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000001729517

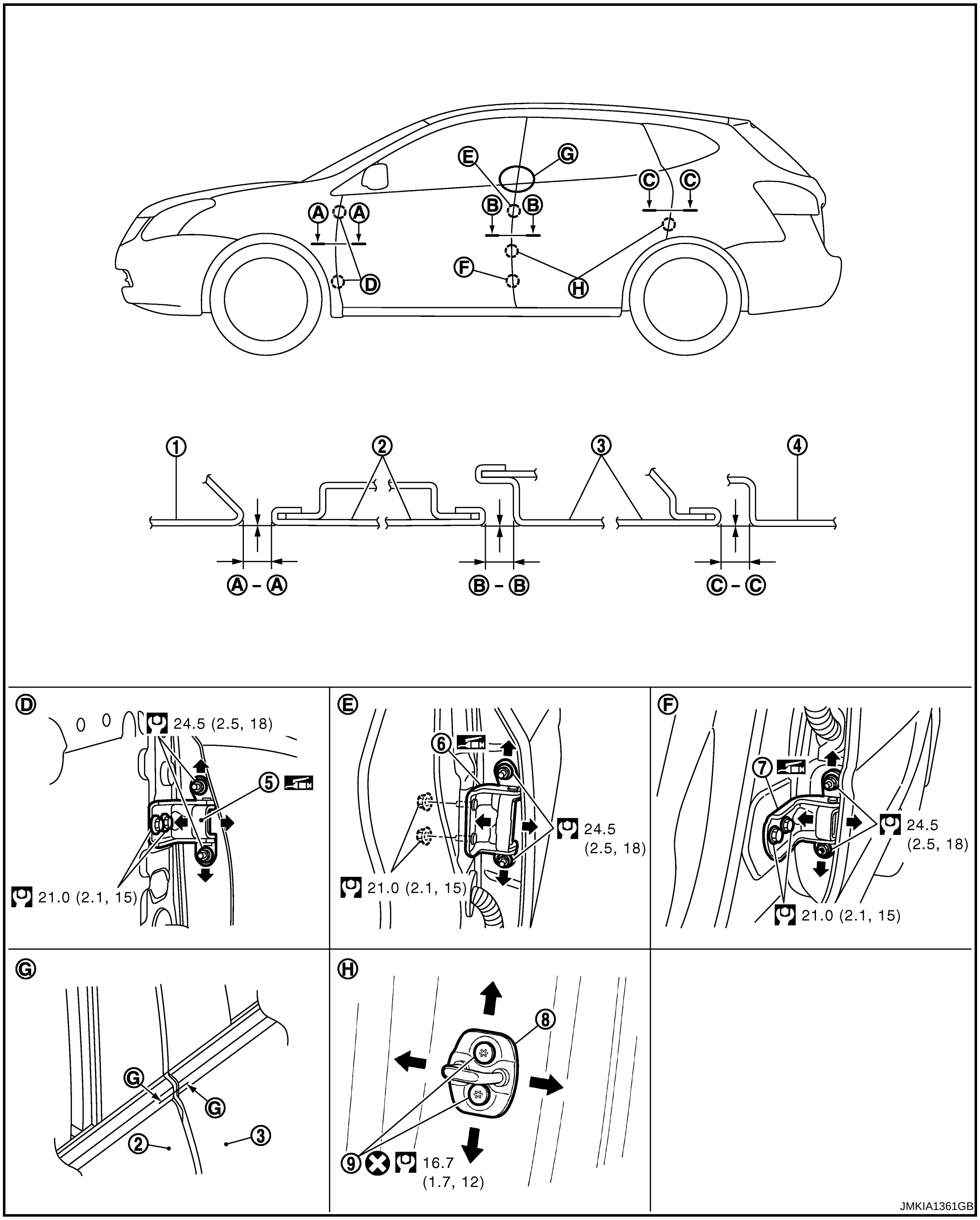
REMOVAL



1. Front door panel
2. Grommet
3. Door striker
4. TORX bolt
5. Door check link
6. Door hinge (lower)
7. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1.	Front fender	2.	Front door	3.	Rear door
4.	Body side outer	5.	Front door hinge	6.	Rear door hinge (upper)
7.	Rear door hinge (lower)	8.	Door striker	9.	TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

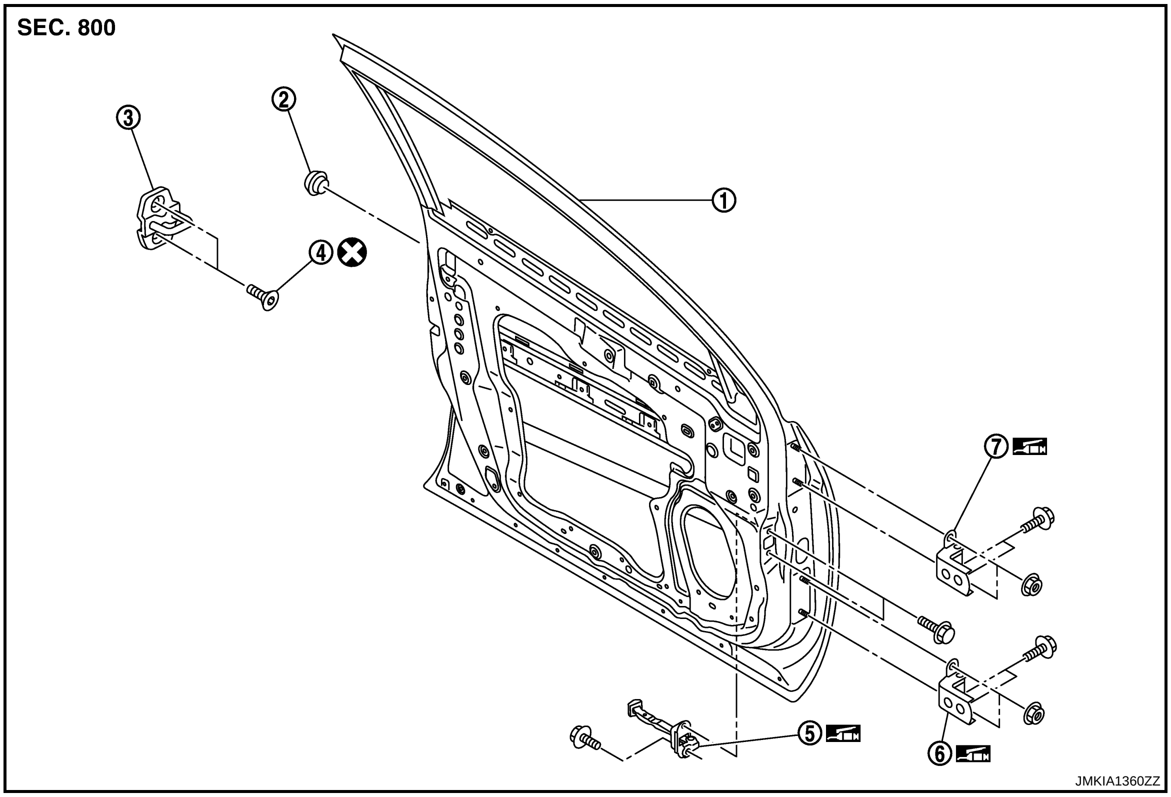
INFOID:0000000001729518

CAUTION:

- **Perform work with 2 workers, because of its heavy weight.**
- **When removing and installing front door assembly, support door with a jack and cloth to protect door and body.**

DOOR STRIKER : Exploded View

INFOID:0000000001729520



1.	Front door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Door check link	6.	Door hinge (lower)
7.	Door hinge (upper)				

Refer to GI-4, "Components" for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:0000000001729521

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Check front door open/close, lock/unlock operation after installation.**
- **After installation, be sure to perform the fitting adjustment. Refer to DLK-271, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:0000000002912474

A B C D E F G H I J DLK L M N O P

DOOR HINGE : Removal and Installation

INFOID:0000000001729523

REMOVAL

1. Remove front door assembly. Refer to DLK-270, "DOOR ASSEMBLY : Removal and Installation".

DOOR CHECK LINK : Exploded View

INFOID:0000000002912475

DOOR CHECK LINK : Removal and Installation

INFOID:0000000001729525

REAR DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000001729526

REMOVAL

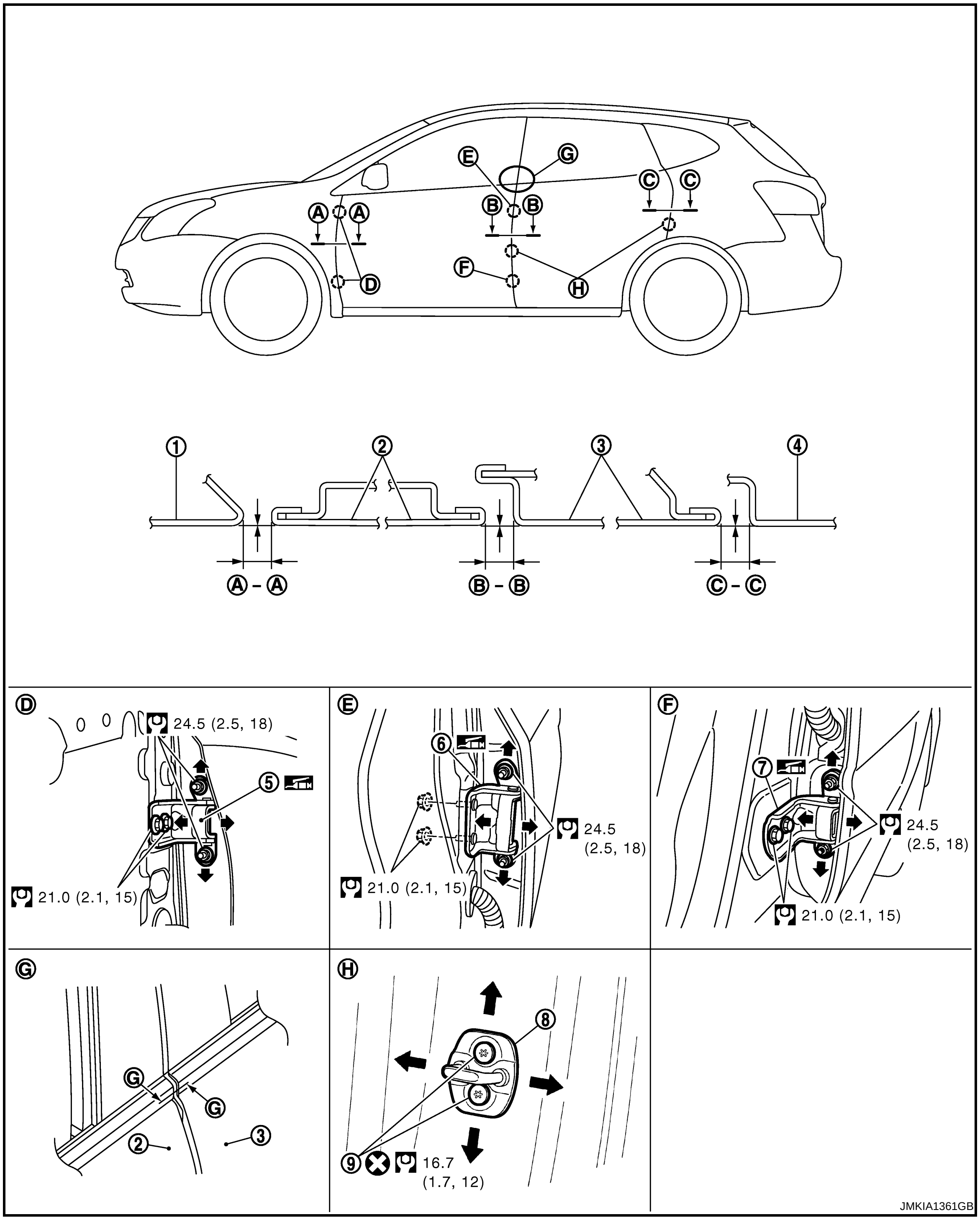
JMKIA1362ZZ

1.	Rear door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Pad	6.	Door check link
7.	Door hinge (lower)	8.	Door hinge (upper)		

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT

A B C D E F G H I J DLK L M N O P



1.	Front fender	2.	Front door	3.	Rear door
4.	Body side outer	5.	Front door hinge	6.	Rear door hinge (upper)
7.	Rear door hinge (lower)	8.	Door striker	9.	TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000001729527

CAUTION:

- **Perform work with 2 workers, because of it’s heavy weight.**
- **When removing and installing rear door assembly, support door with a jack and cloth to protect door and body.**

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Remove rear door harness grommet, and then pull out door harness from the vehicle.
3. Disconnect rear door harness connector.
4. Remove door hinge mounting nuts (door side), and then remove rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Check rear door open/close, lock/unlock operation after installation.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, perform the fitting adjustment. Refer to DLK-277, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**

DOOR ASSEMBLY : Adjustment

INFOID:0000000001729528

Check the clearance and surface height between rear door and each part by visually and touching.
In case any parts are out of specification, adjust them according to the procedures shown below.

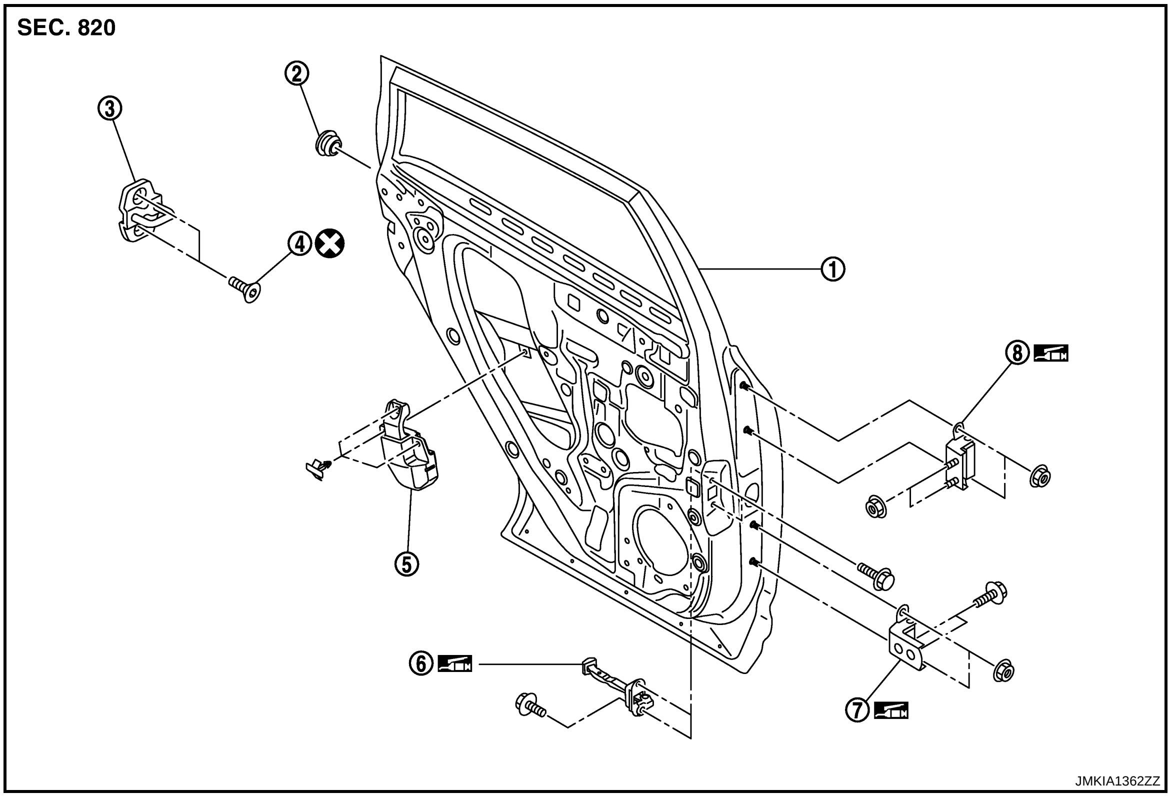
Unit : mm (in)

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 rear door according to the fitting standard dimension.
7. After adjustment tighten bolts and nuts to the specified torque.

A B C D E F G H I J DLK L M N O P

DOOR STRIKER : Exploded View

INFOID:0000000001729529



1.	Rear door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Pad	6.	Door check link
7.	Door hinge (lower)	8.	Door hinge (upper)		

Refer to GI-4, "Components" for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:0000000001729530

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

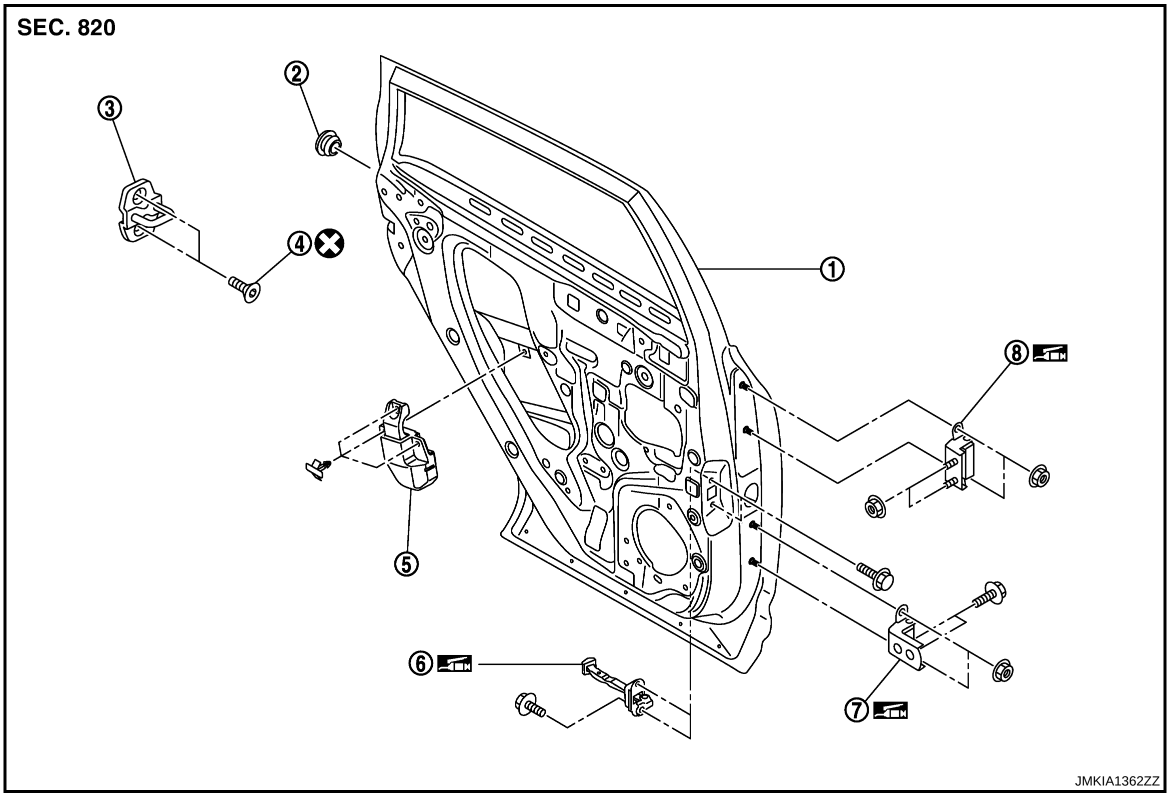
CAUTION:

- **Check rear door open/close, lock/unlock operation after installation.**
- **After installation, be sure to perform the fitting adjustment. Refer to DLK-277, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:0000000002912476



1.	Rear door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Pad	6.	Door check link
7.	Door hinge (lower)	8.	Door hinge (upper)		

Refer to GI-4, "Components" for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:0000000001729532

REMOVAL

1. Remove center pillar lower garnish. Refer to INT-17, "Removal and Installation".
2. Remove rear door assembly. Refer to DLK-276, "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:

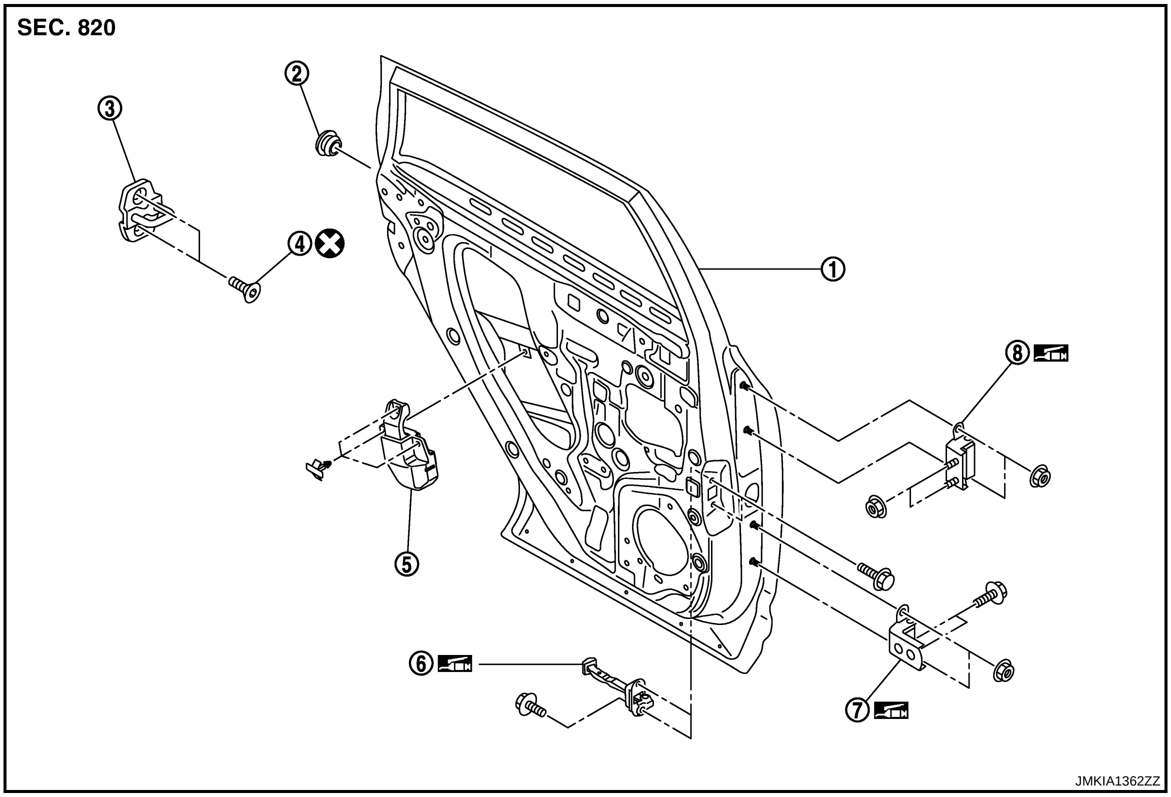
- **Check rear door open/close operation after installation.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **When removing and installing rear door assembly, perform the fitting adjustment. Refer to DLK-277, "DOOR ASSEMBLY : Adjustment".**
- **After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.**

DOOR CHECK LINK

A B C D E F G H I J DLK L M N O P

DOOR CHECK LINK : Exploded View

INFOID:0000000002912477



1. Rear door panel
2. Grommet
3. Door striker
4. TORX bolt
5. Pad
6. Door check link
7. Door hinge (lower)
8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:0000000001729534

REMOVAL

1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Remove rear door speaker.
3. Remove mounting bolts of the check link on the vehicle.
4. Remove mounting bolts of the check link on door panel.
5. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check rear door open/close operation after installation.

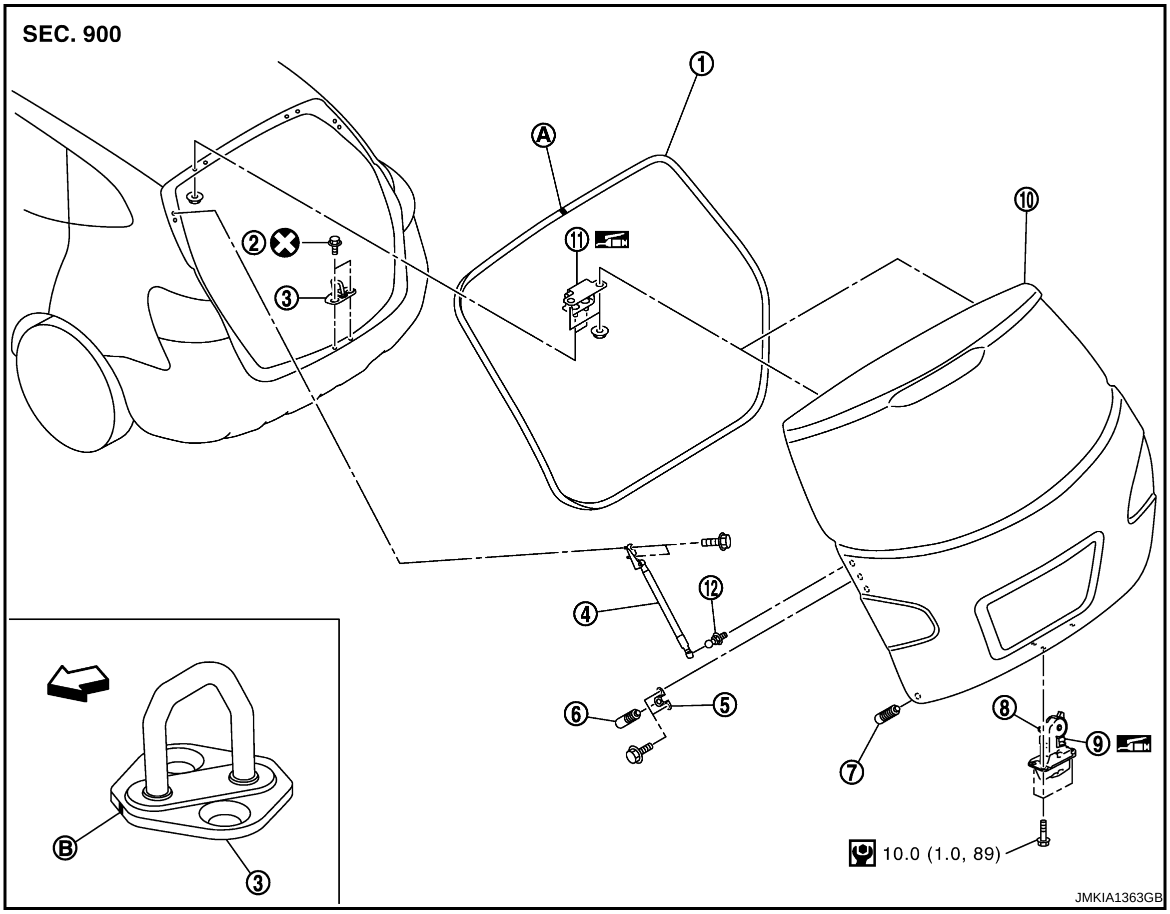
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:0000000001729535

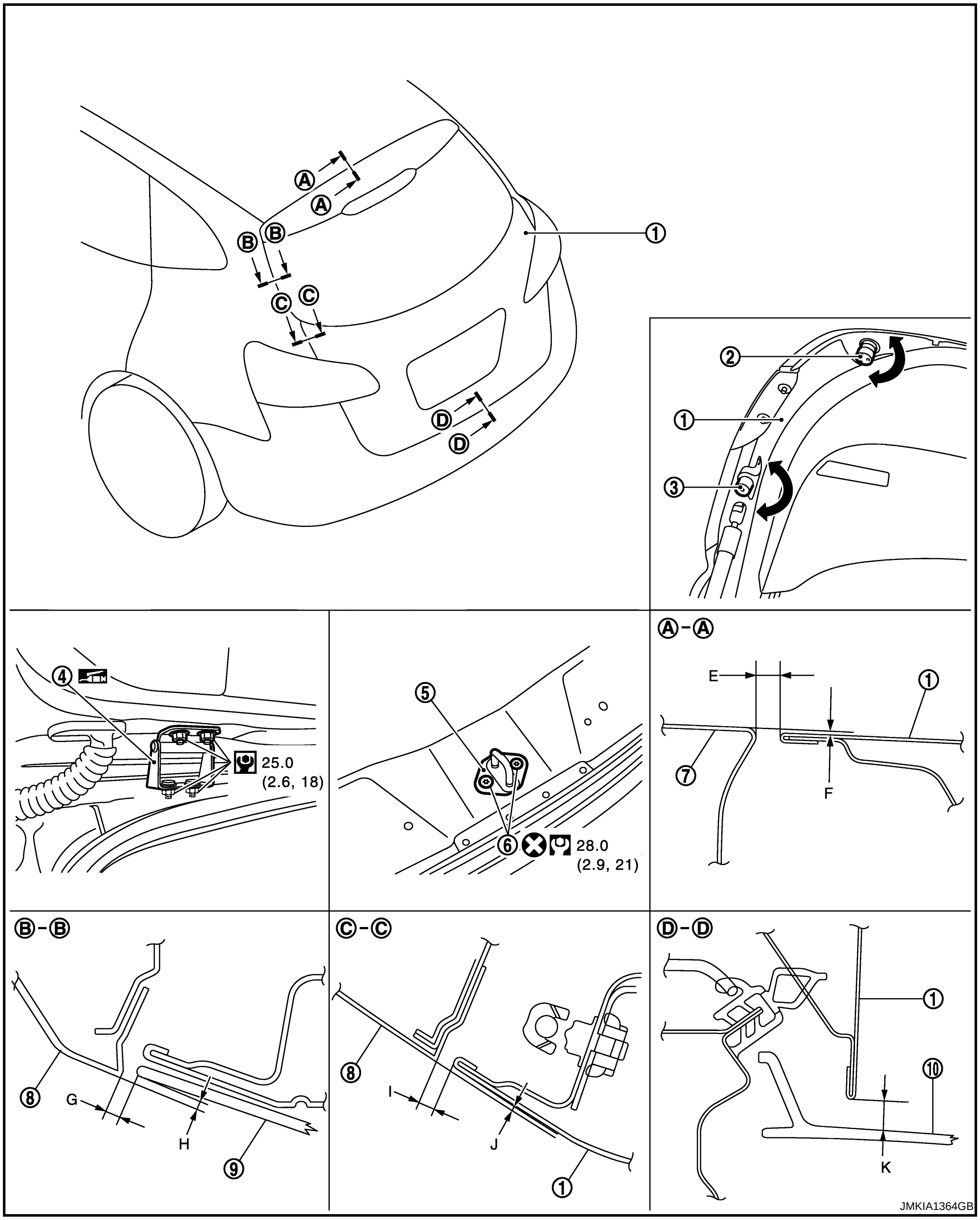
REMOVAL



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1. Back door assembly
2. Bumper rubber lower
3. Bumper rubber side
4. Back door hinge
5. Back door striker
6. TORX bolt
7. Roof
8. Body side outer
9. Back door glass
10. Rear bumper

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:0000000001729536

REMOVAL

1. Remove back door lower finisher inner, back door upper finisher inner, back door side finisher inner. Refer to INT-34, "Removal and Installation".

2. Disconnect connectors in back door, and then remove grommet, and pull out harness.
3. Remove grommet, and then disconnect connectors, and washer tube.
4. Pull harness and washer tube out of back door.
5. Support back door lock with the proper material to prevent it from falling.
6. Remove back door stay. Refer to DLK-286, "BACK DOOR STAY : Removal and Installation".
   CAUTION:
   Perform work with 2 workers, because of its heavy weight.
7. Remove back door hinge mounting nuts on back door and remove back door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Check back door open/close, lock/unlock operation after installation.**
- **After installation, perform fitting adjustment. Refer to DLK-283, "BACK DOOR ASSEMBLY : Adjustment".**

BACK DOOR ASSEMBLY : Adjustment

INFOID:0000000001729537

Check the clearance and the surface height between back door and each part by visually and touching.
In case any parts are out of specification, adjust them according to the procedures shown below.

Unit : mm (in)

Portion				Standard
Back door – Roof	A – A	E	Clearance	4.3 – 6.8 (0.169 – 0.268)
		F	Surface height	-2.0 – 0.5 (-0.079 – 0.020)
Back door glass – Body side outer	B – B	G	Clearance	2.7 – 7.3 (0.106 – 0.287)
		H	Surface height	0.4 – 4.1 (0.016 – 0.161)
Back door – Body side outer	C – C	I	Clearance	4.1 – 6.1 (0.161 – 0.240)
		J	Surface height	-0.2 – 1.8 (-0.008 – 0.071)
Back door – Rear bumper	D – D	K	Clearance	5.9 – 9.9 (0.232 – 0.390)

1. Loosen bumper rubber.
2. Loosen back door striker mounting bolts.
3. Lift up back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with back door closed.
4. Check the clearance and surface height.
5. Finally tighten back door striker.

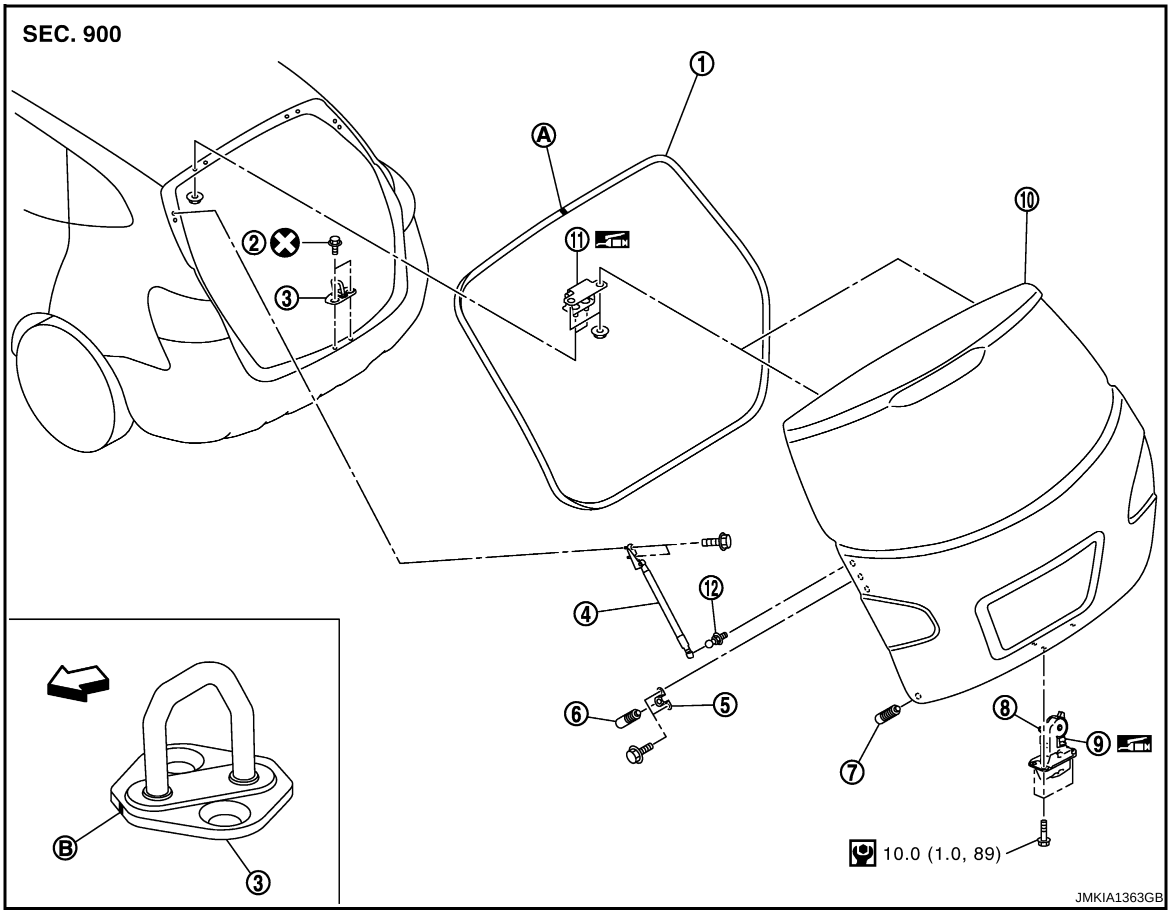
BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that i becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

BACK DOOR STRIKER : Exploded View

INFOID:0000000001729538



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:0000000001729539

REMOVAL

Remove TORX bolts, and then remove back door striker.

INSTALLATION

Install in the reverse order of removal.

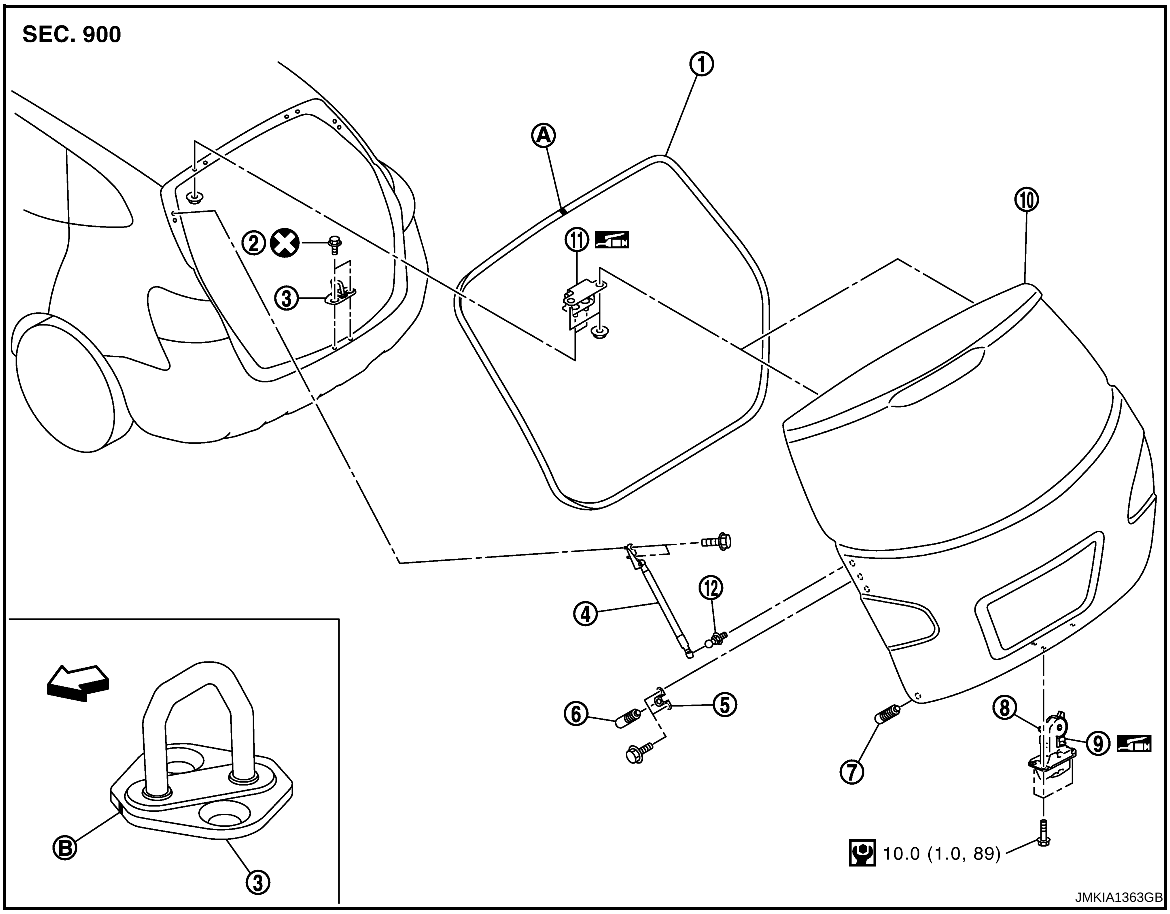
CAUTION:

- **Check back door open/close operation after installation.**
- **When removing and installing back door striker, be sure to perform the fitting adjustment. Refer to DLK-283, "BACK DOOR ASSEMBLY : Adjustment".**

BACK DOOR HINGE

BACK DOOR HINGE : Exploded View

INFOID:0000000002912478



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:0000000001729541

REMOVAL

1. Remove back door assembly. Refer to DLK-282, "BACK DOOR ASSEMBLY : Removal and Installation".
2. Remove back door weather-strip. Refer to DLK-287, "BACK DOOR WEATHER-STRIP : Removal and Installation".
3. Remove luggage side lower finisher and luggage side upper finisher. Refer to INT-32, "Removal and Installation".
4. Using remover tool, remove headlining clip at the rear side of headlining. Refer to INT-24, "NORMAL ROOF : Removal and Installation" (NORMAL ROOF), INT-27, "SUNROOF : Removal and Installation" (SUNROOF).
5. Remove rear side of headlining. Refer to INT-24, "NORMAL ROOF : Exploded View" (NORMAL ROOF), INT-27, "SUNROOF : Exploded View" (SUNROOF).
6. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

Install in the reverse order of removal.

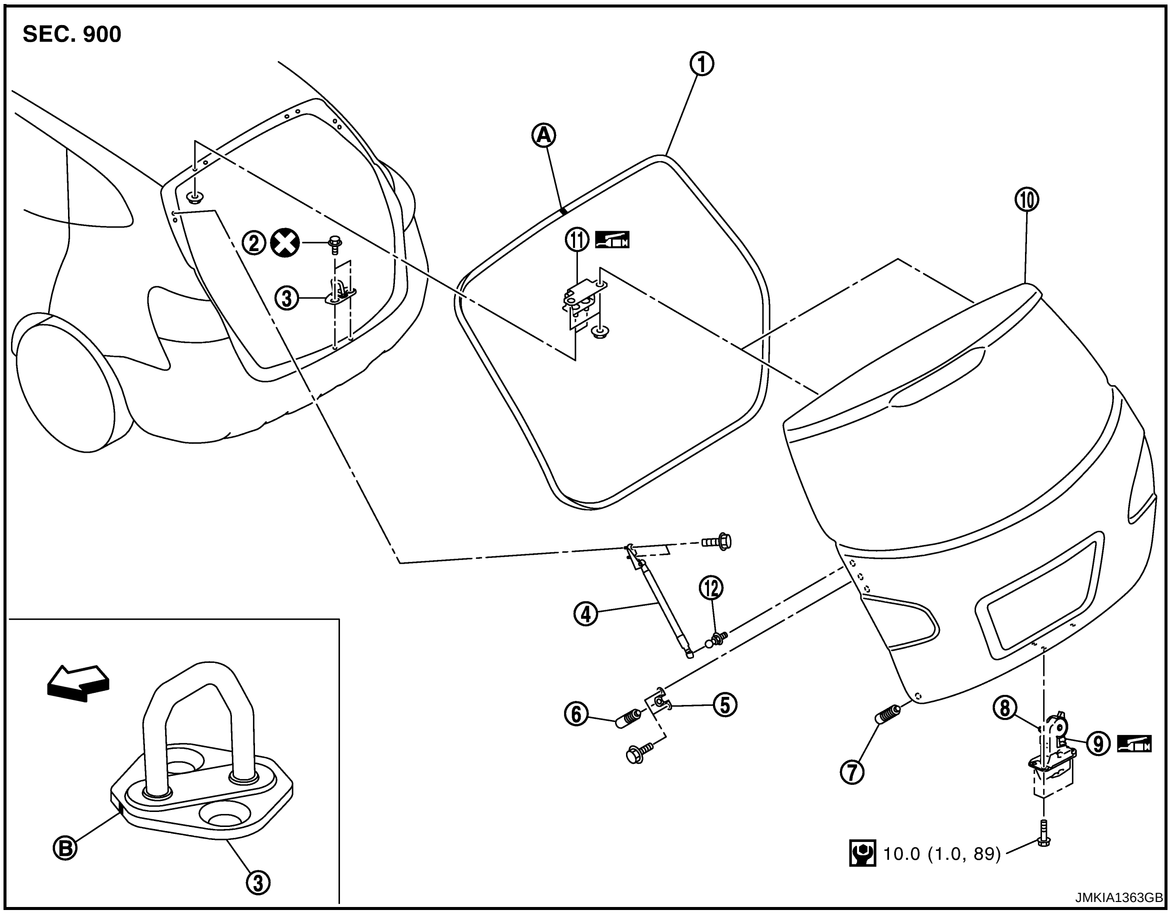
CAUTION:

- **Check back door open/close operation after installation.**
- **Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **When removing and installing back door assembly, perform the fitting adjustment. Refer to DLK-283, "BACK DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.**

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:0000000002912479



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:0000000001729543

REMOVAL

1. Remove mounting bolts (body side), and then remove back door stay bracket.
2. Remove stud ball (back door side), and then remove back door stay.

INSTALLATION

Install in the reverse order of removal.

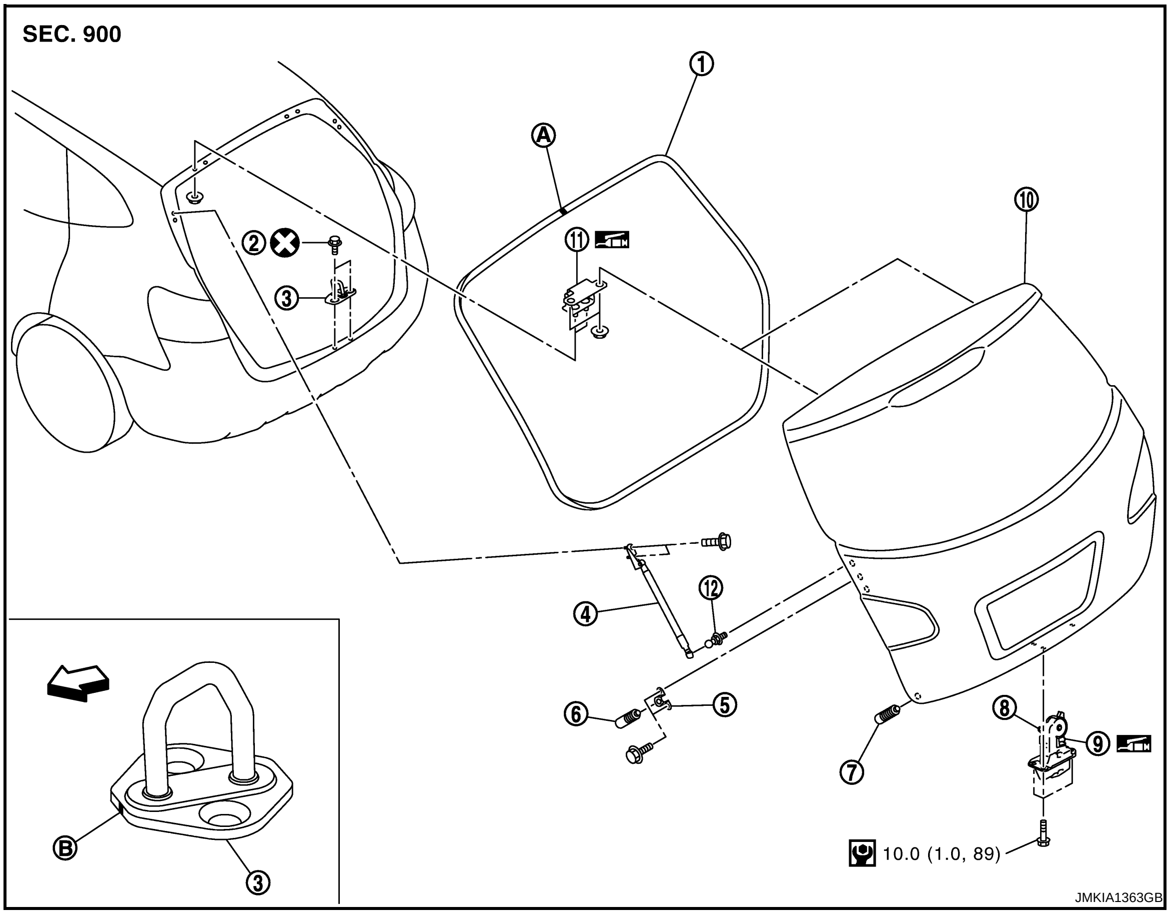
CAUTION:

Check back door open/close operation after installation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:0000000002912480



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000001729545

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

After removal, do not pull strongly on weather-strip.

INSTALLATION

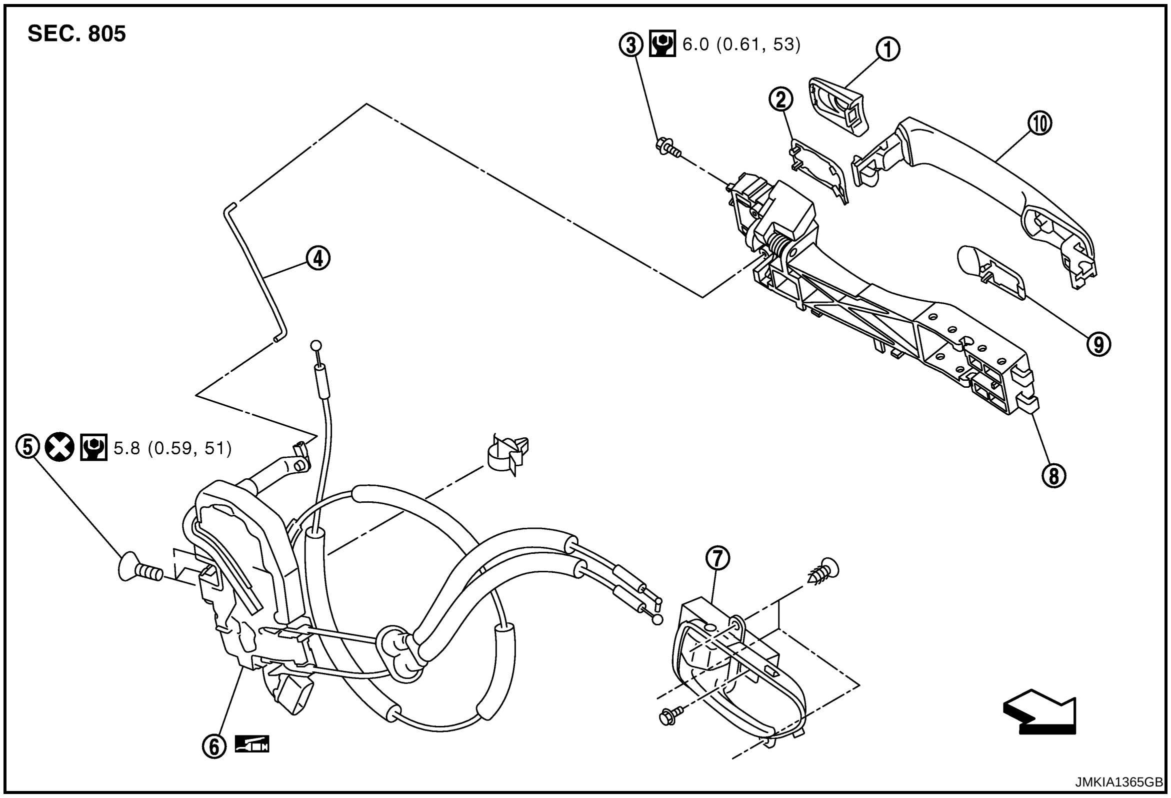
1. Working from the upper section, align weather-strip mark with vehicle center position mark and install weather-strip onto the vehicle.
2. For the lower section, align weather-strip seam with center of back door striker.
3. After installation, pull weather-strip gently to ensure that there is no loose section.
   NOTE:
   Make sure that weather-strip is fit tightly at each corner and luggage rear plate.

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000001729546



1. Door key cylinder assembly (driver side)
   Outside handle escutcheon (passenger side)
2. Rear gasket
3. TORX bolt
4. Key rod
5. TORX bolt
6. Door lock assembly
7. Inside handle
8. Outside handle bracket
9. Front gasket
10. Outside handle assembly

⇦ :Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

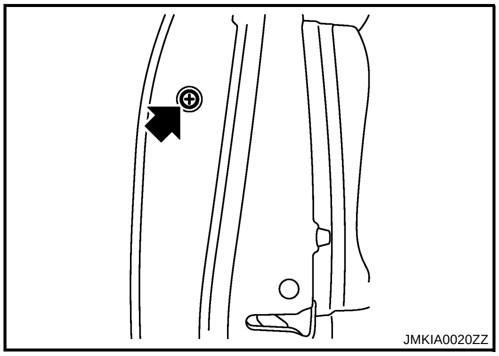
DOOR LOCK : Removal and Installation

INFOID:0000000001729547

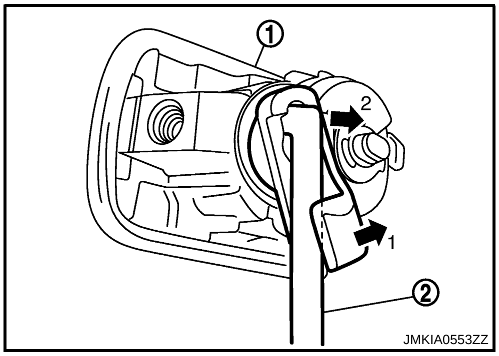
REMOVAL

1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove front door glass. Refer to GW-19, "Removal and Installation".
4. Remove front door module assembly. Refer to GW-22, "Removal and Installation".
5. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

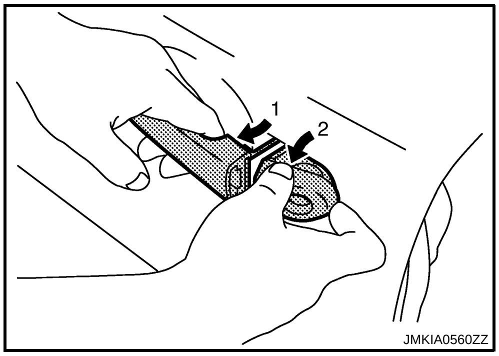
6. Remove door side grommet, and loosen TORX bolt from grommet hole.
   CAUTION:
   Do not forcibly remove TORX bolt.



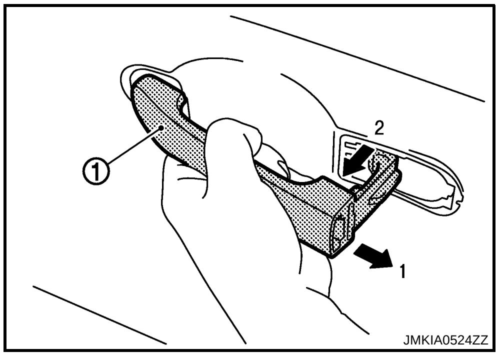
7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).
   1. Door key cylinder assembly
   2. Key rod



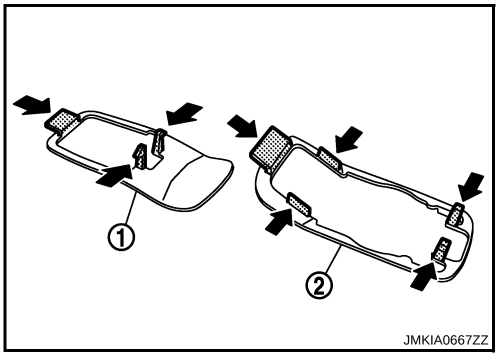
8. While pulling outside handle, remove door key cylinder assembly.



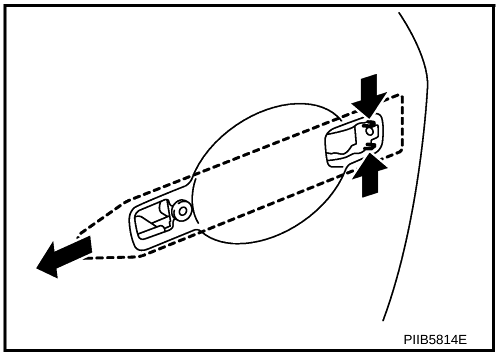
9. Disconnect front door request switch harness connector (models with Intelligent Key system).
10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



13. Reach in to separate outside handle cable connection on outside handle bracket.
14. Remove door lock assembly TORX bolts.
15. Disconnect door lock actuator connector, and then remove door lock assembly.
16. Remove key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

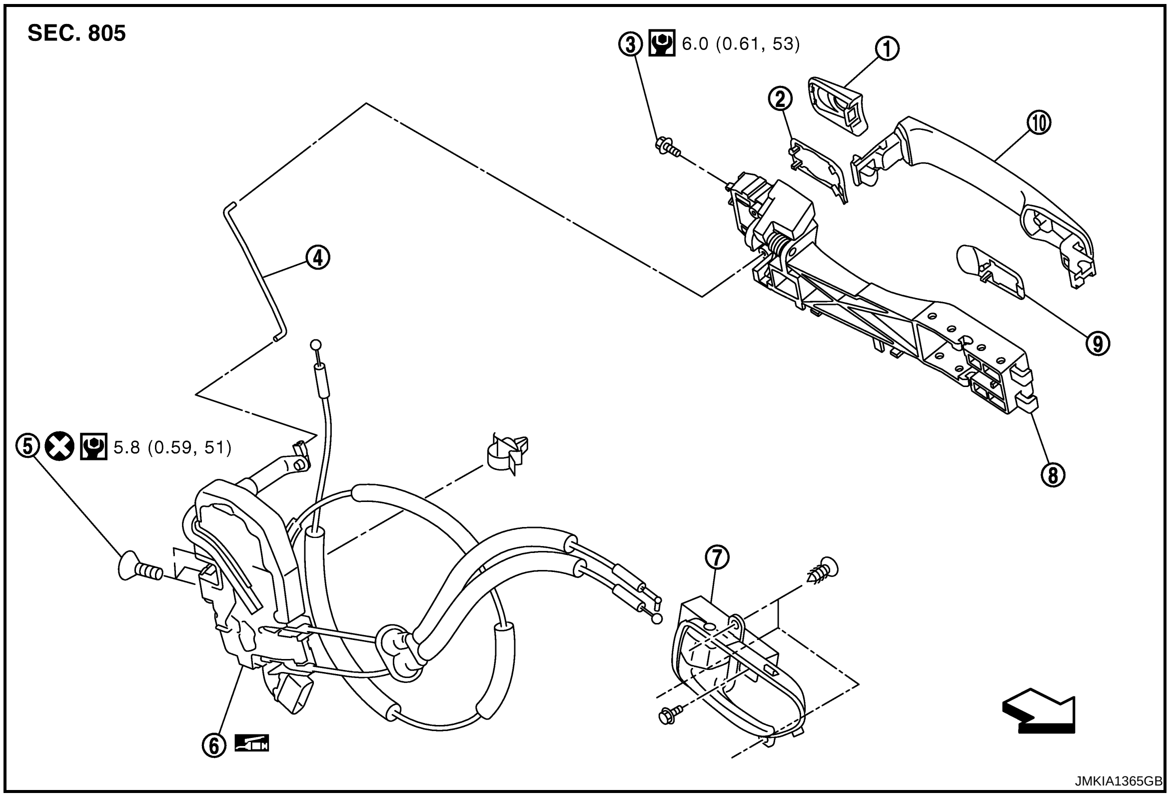
CAUTION:

- **To install each rod, rotate rod holder until a click is felt.**
- **Check door open/close, lock/unlock operation after installation.**

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:0000000002912482



1. Door key cylinder assembly (driver side)
   Outside handle escutcheon (passenger side)
2. Rear gasket
3. TORX bolt
4. Key rod
5. TORX bolt
6. Door lock assembly
7. Inside handle
8. Outside handle bracket
9. Front gasket
10. Outside handle assembly

⇦ :Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:0000000001729549

REMOVAL

1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER : Removal and Installation".
2. Remove inside handle mounting screws.
3. Disconnect inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

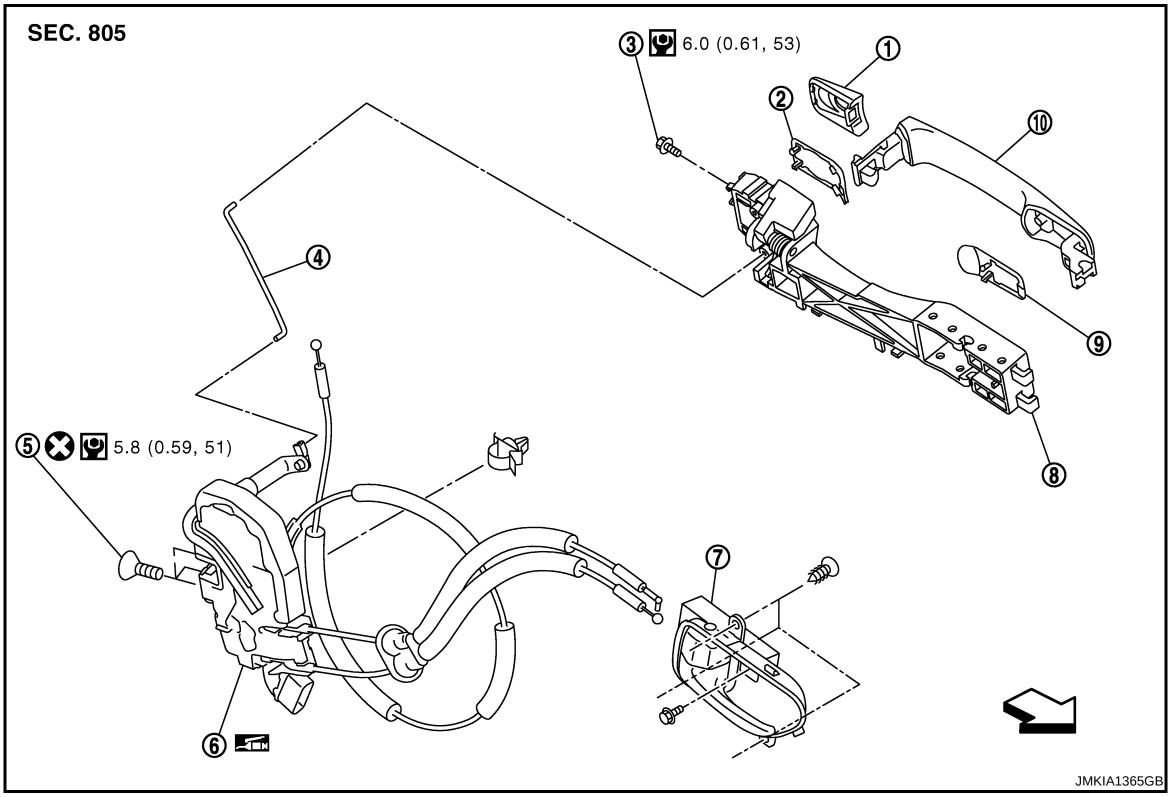
CAUTION:

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:0000000002912483



1. Door key cylinder assembly (driver side)
   Outside handle escutcheon (passenger side)
2. Rear gasket
3. TORX bolt
4. Key rod
5. TORX bolt
6. Door lock assembly
7. Inside handle
8. Outside handle bracket
9. Front gasket
10. Outside handle assembly

⇦ :Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

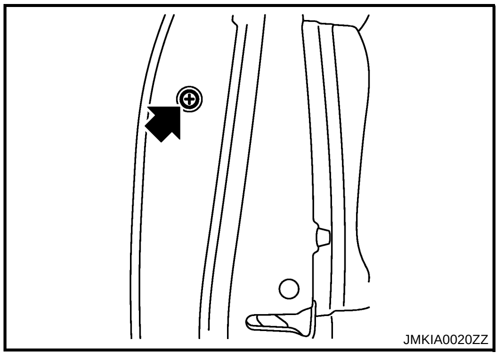
OUTSIDE HANDLE : Removal and Installation

INFOID:0000000001729551

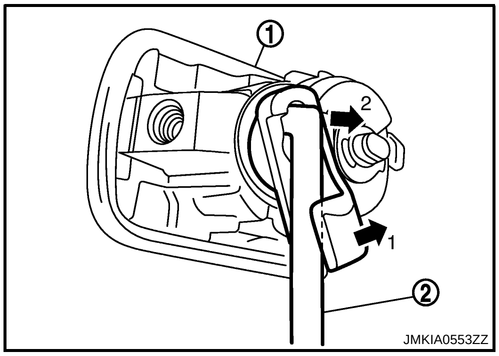
REMOVAL

1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove front door glass. Refer to GW-19, "Removal and Installation".
4. Remove front door module assembly. Refer to GW-22, "Removal and Installation".
5. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

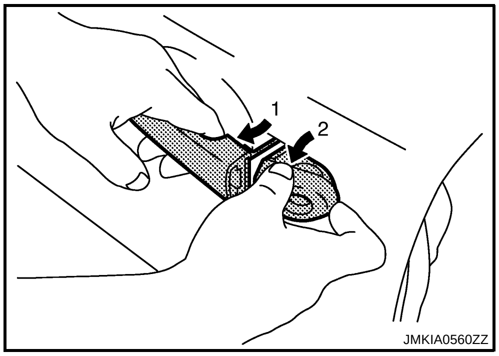
6. Remove door side grommet, and loosen TORX bolt from grommet hole.
   CAUTION:
   Do not forcibly remove TORX bolt.



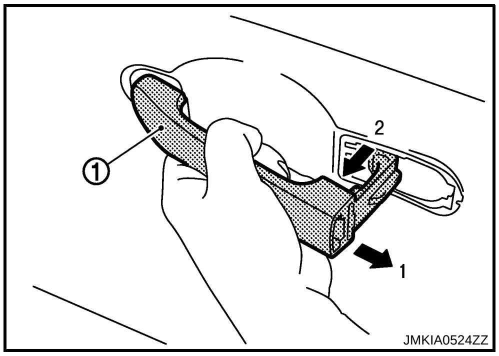
7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).
   1. Door key cylinder assembly
   2. Key rod



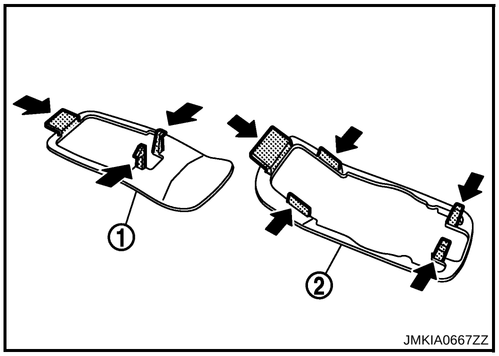
8. While pulling outside handle, remove door key cylinder assembly.



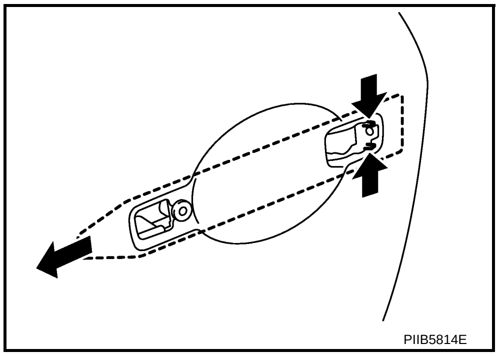
9. Disconnect front door request switch harness connector (models with Intelligent Key system).
10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



13. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

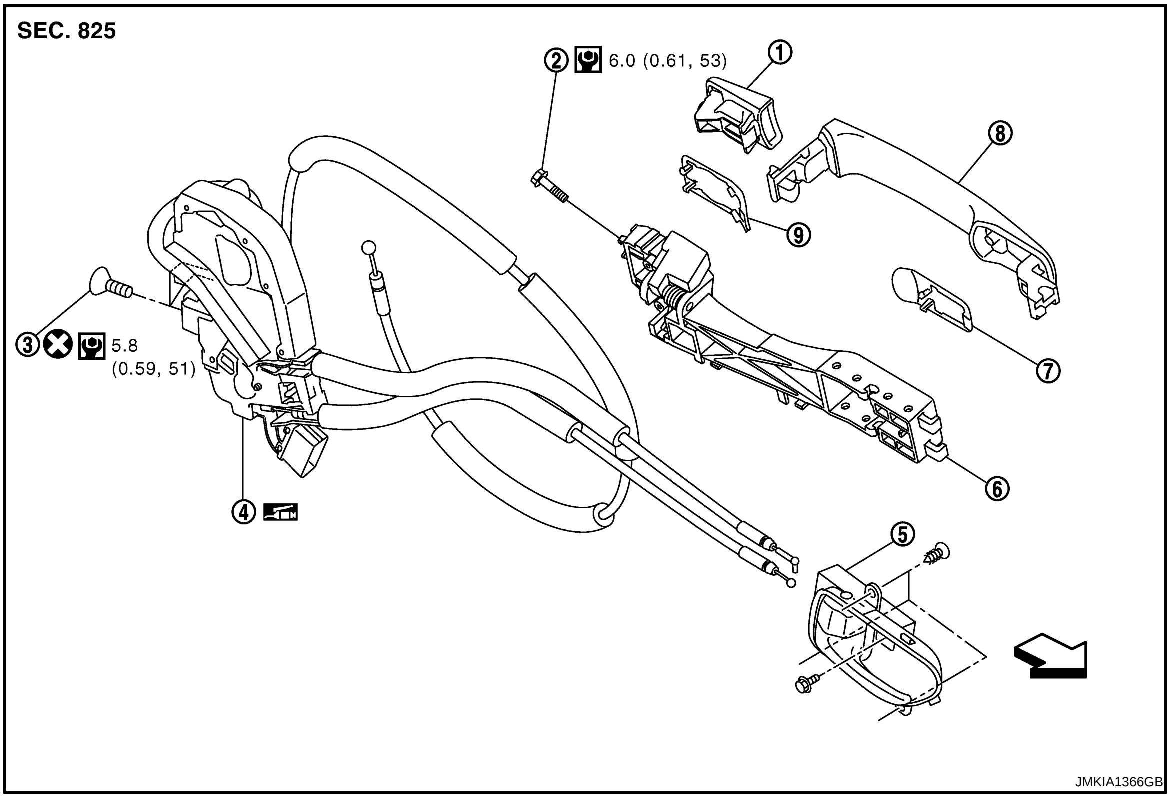
- **To install each rod, rotate rod holder until a click is felt.**
- **Check door open/close, lock/unlock operation after installation.**

REAR DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000001729552



1. Outside handle escutcheon
2. TORX bolt
3. TORX bolt
4. Door lock assembly
5. Inside handle
6. Outside handle bracket
7. Front gasket
8. Outside handle assembly
9. Rear gasket

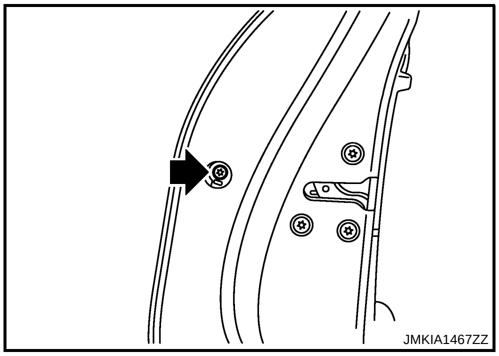
Refer to GI-4, "Components" for symbols in the figure.

DOOR LOCK : Removal and Installation

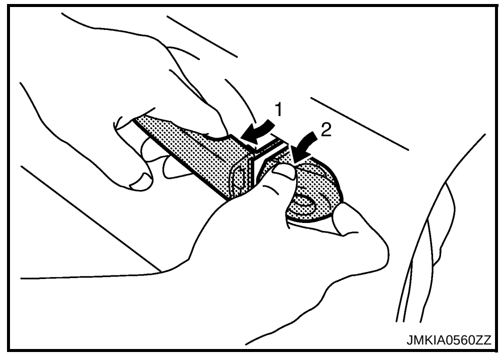
INFOID:0000000001729553

REMOVAL

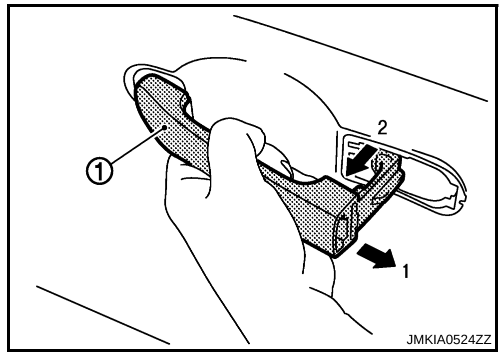
1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove rear door glass. Refer to GW-25, "Removal and Installation".
4. Remove door side grommet, and loosen TORX bolt from grommet hole.



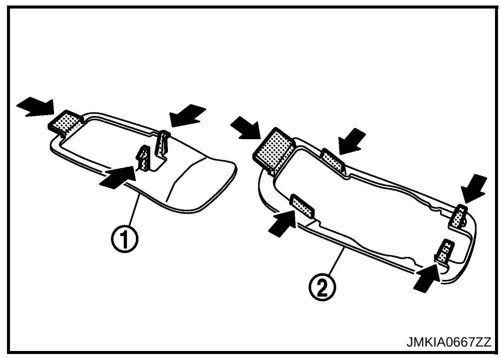
5. While pulling outside handle, remove outside handle escutcheon.



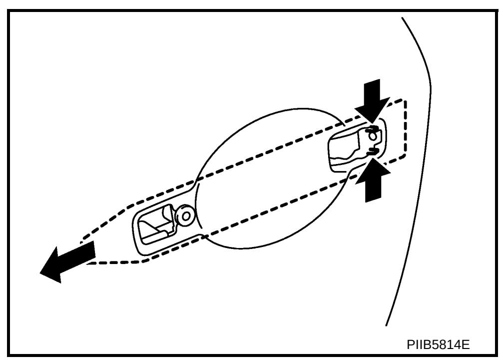
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.
10. Disconnect harness connector on door lock actuator.
11. Remove door lock mounting bolts.
12. Remove door lock assembly.

INSTALLATION

Install in the reverse order of removal.

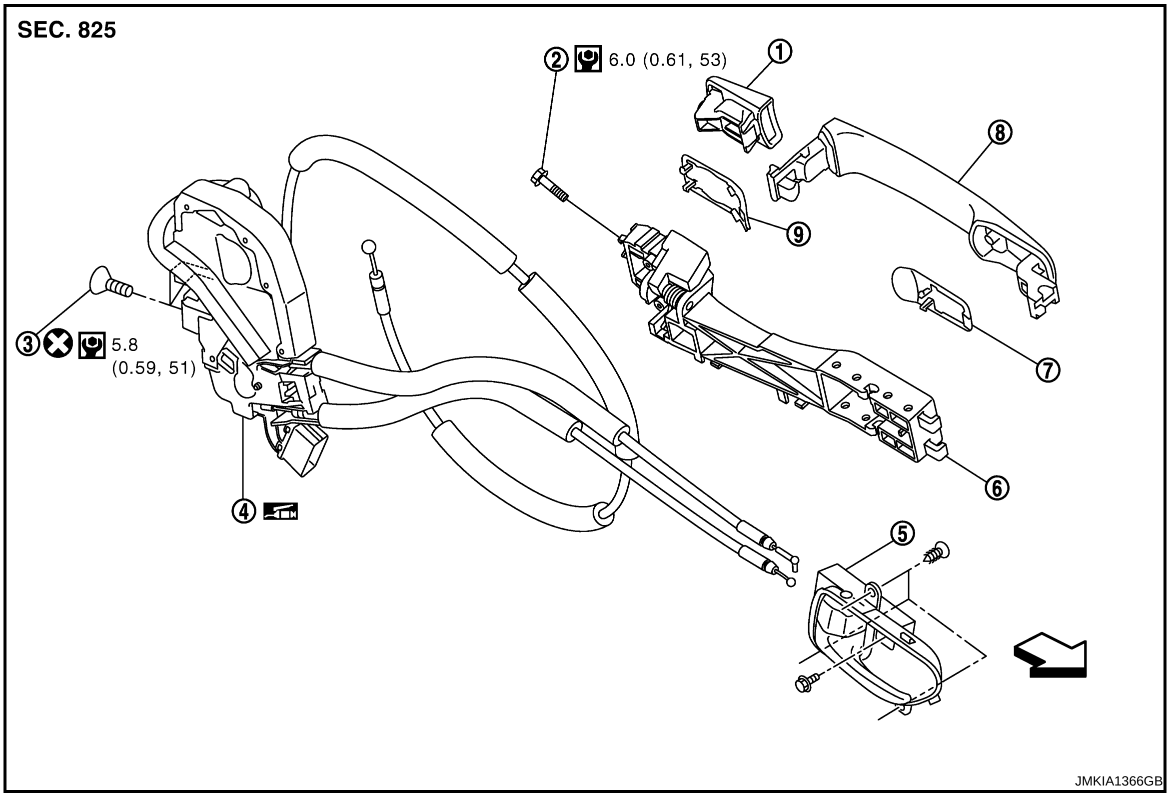
CAUTION:

Check door open/close, lock/unlock operation after installation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:0000000002912484



1.	Outside handle escutcheon	2.	TORX bolt	3.	TORX bolt
4.	Door lock assembly	5.	Inside handle	6.	Outside handle bracket
7.	Front gasket	8.	Outside handle assembly	9.	Rear gasket

Refer to GI-4, "Components" for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:0000000001729555

REMOVAL

1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Remove inside handle mounting screws.
3. Disconnect inside handle cable, and then remove inside handle.

INSTALLATION

Install in the reverse order of removal.

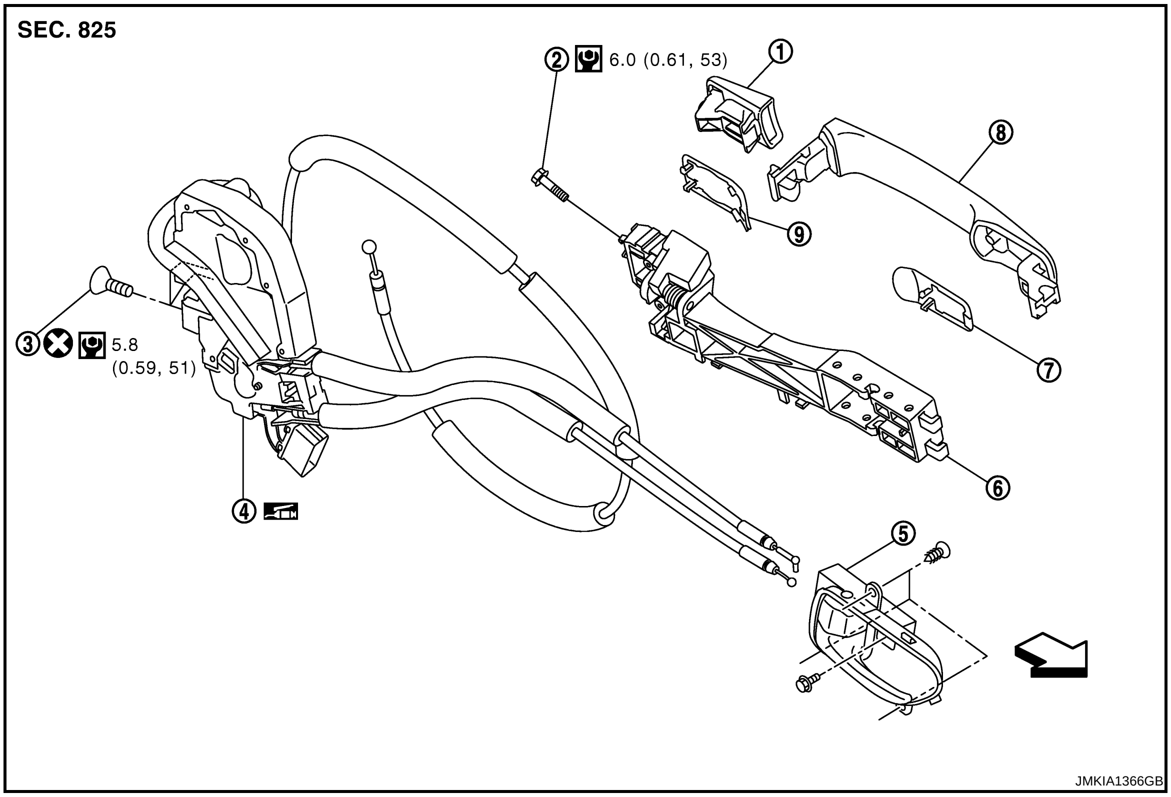
CAUTION:

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:0000000002912485



1. Outside handle escutcheon
2. TORX bolt
3. TORX bolt
4. Door lock assembly
5. Inside handle
6. Outside handle bracket
7. Front gasket
8. Outside handle assembly
9. Rear gasket

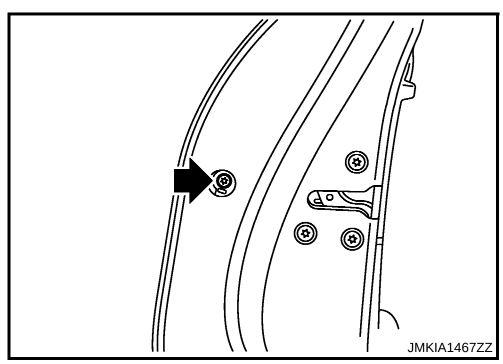
Refer to GI-4, "Components" for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

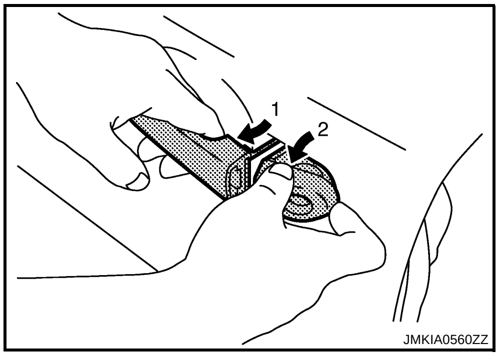
INFOID:0000000001729557

REMOVAL

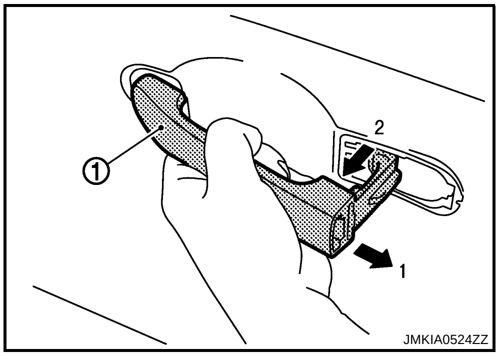
1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove rear door glass. Refer to GW-25, "Removal and Installation".
4. Remove door side grommet, and loosen TORX bolt from grommet hole.



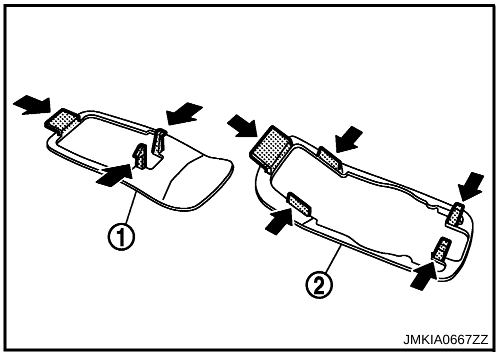
5. While pulling outside handle, remove outside handle escutcheon.



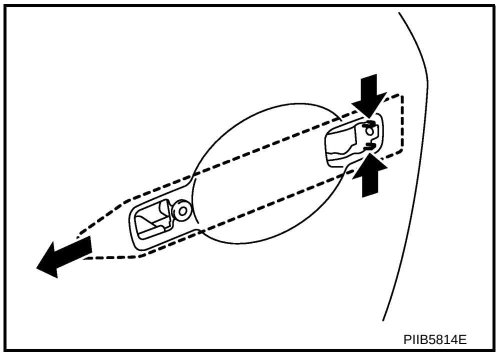
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

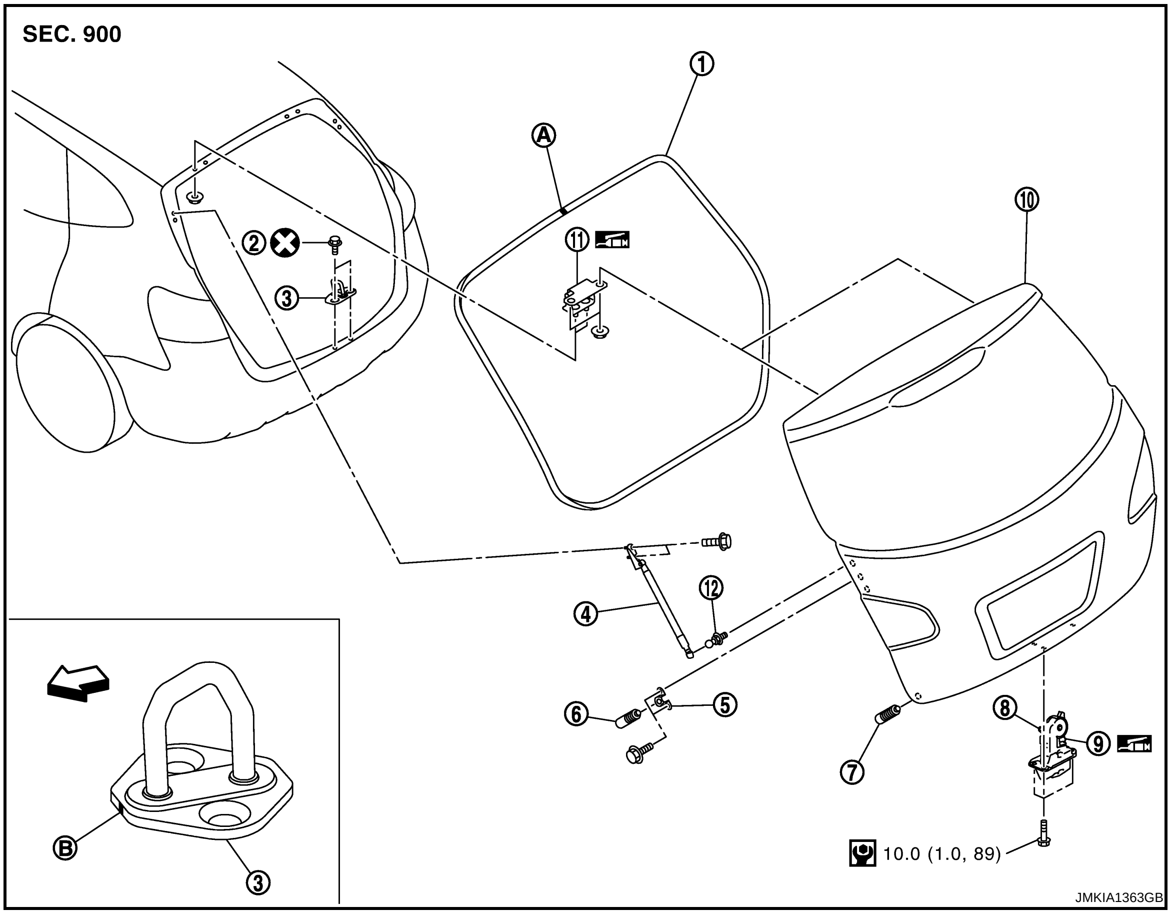
Check door open/close, lock/unlock operation after installation.

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000002912481



1. Back door weather-strip	2. TORX bolt	3. Back door striker
4. Back door stay	5. Bumper rubber bracket	6. Bumper rubber side
7. Bumper rubber lower	8. Emergency lever	9. Back door lock assembly
10. Back door assembly	11. Back door hinge	12. Back door stay stud ball
A :Center mark	B :Front mark	
⇦ :Vehicle front		

Refer to GI-4, "Components" for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:0000000001729559

REMOVAL

1. Remove back door lower finisher inner. Refer to INT-34, "Removal and Installation".
2. Disconnect back door lock assembly and back door opener switch connectors.
3. Remove back door lock mounting bolts, and then remove back door lock assembly.

INSTALLTION

Install in the reverse order of removal.

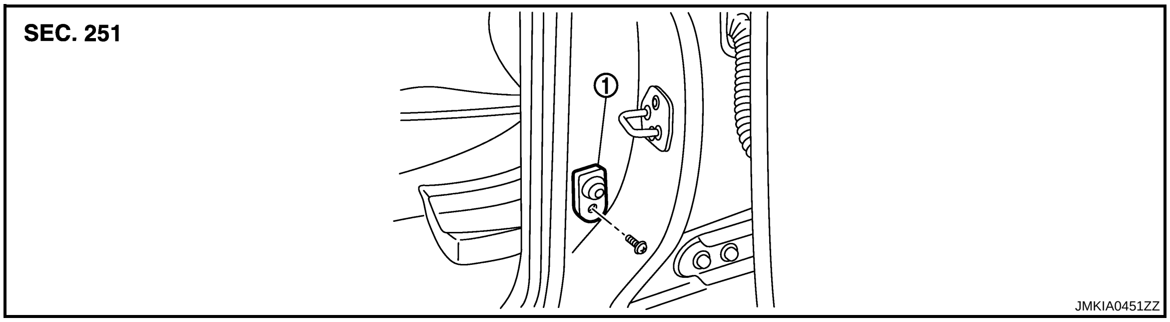
CAUTION:

Check back door open/close, lock/unlock operation after installation.

DOOR SWITCH

Exploded View

INFOID:0000000001729562



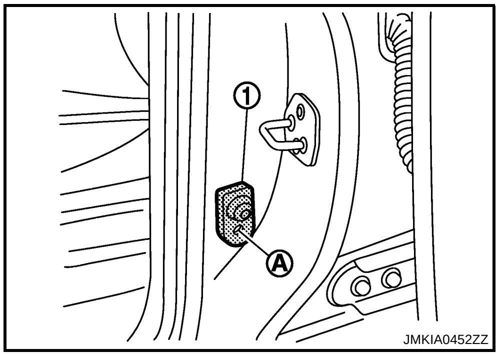
1. Door switch (driver side)

Removal and Installation

INFOID:0000000001729563

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).
   NOTE:
   The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



INSTALLATION

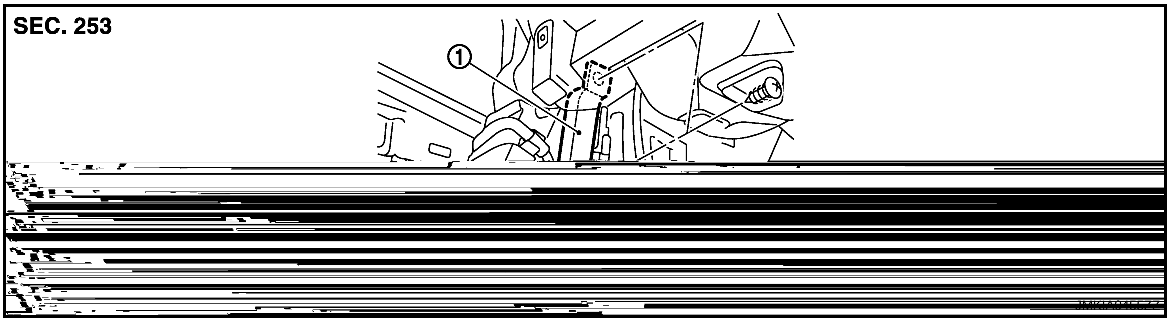
Install in the reverse order of removal.

INSIDE KEY ANTENNA

INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:0000000001746929



1. Inside key antenna (instrument center)

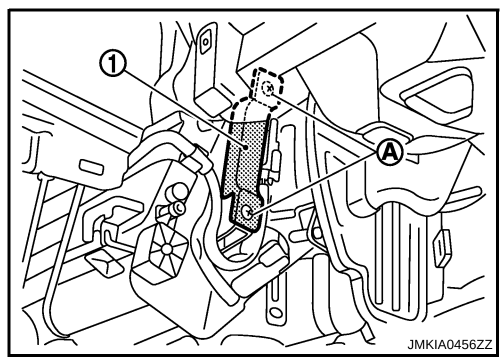
Refer to DLK-302, "INSTRUMENT CENTER : Removal and Installation".

INSTRUMENT CENTER : Removal and Installation

INFOID:0000000001746930

REMOVAL

1. Remove the glove box and instrument lower cover RH. Refer to IP-12, "Exploded View" and IP-13, "Removal and Installation".
2. Remove the key slot mounting screw (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

CONSOLE

CONSOLE : Exploded View

INFOID:0000000001729566

Refer to IP-20, "Exploded View"

CONSOLE : Removal and Installation

INFOID:0000000001729567

REMOVAL

1. Remove the center console. Refer to IP-20, "Removal and Installation".

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000001729570

Refer to DLK-292, "OUTSIDE HANDLE : Removal and Installation".

DRIVER SIDE : Removal and Installation

INFOID:0000000001729571

REMOVAL

Remove the front outside handle LH. Refer to DLK-292, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:0000000001729572

Refer to DLK-292, "OUTSIDE HANDLE : Exploded View".

PASSENGER SIDE : Removal and Installation

INFOID:0000000001729573

REMOVAL

Remove the front outside handle RH. Refer to DLK-292, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

REAR BUMPER : Exploded View

INFOID:0000000001729574

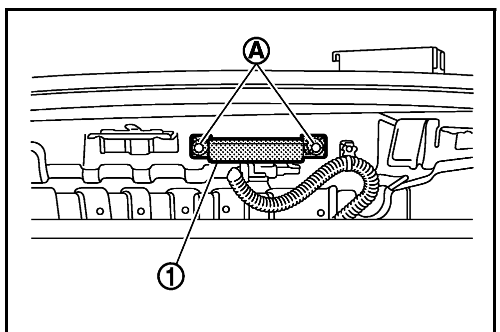
Refer to EXT-16, "Exploded View".

REAR BUMPER : Removal and Installation

INFOID:0000000001729575

REMOVAL

1. Remove the rear bumper. Refer to EXT-16, "Removal and Installation".
2. Remove the outside key antenna (rear bumper) mounting bolt (A) ,and then remove outside key antenna (rear bumper)(1).



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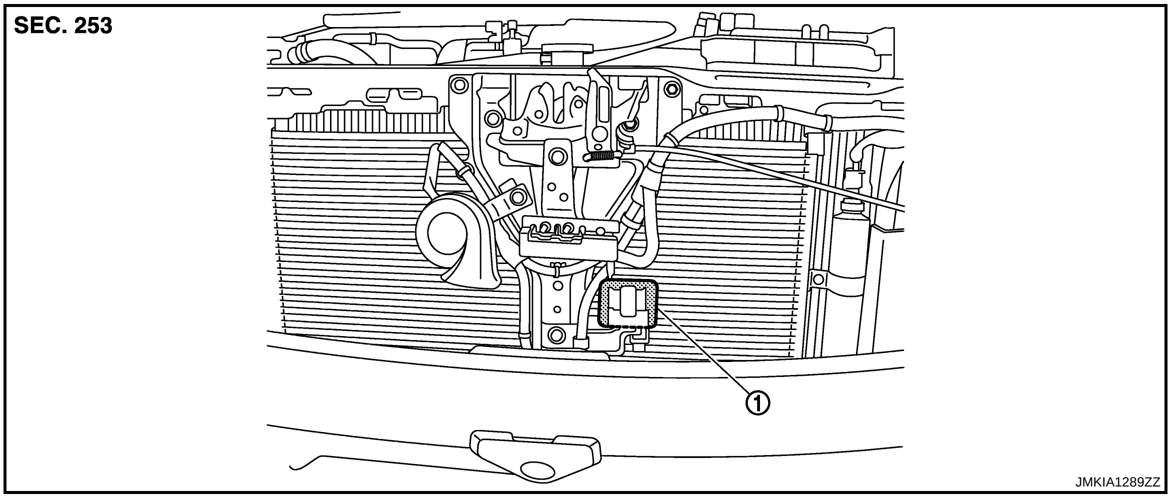
INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:0000000001729576



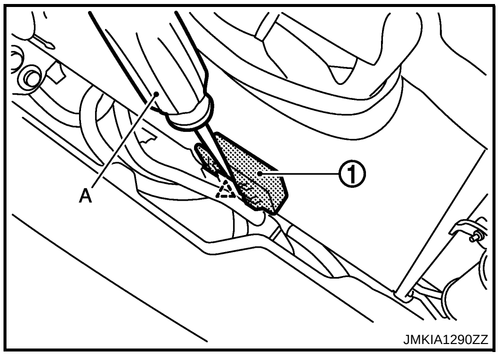
1. Intelligent Key warning buzzer

Removal and Installation

INFOID:0000000001729577

REMOVAL

1. Remove the front grille. Refer to EXT-19, "Removal and Installation".
2. Remove the Intelligent Key warning buzzer using flat-bladed screw driver (A) etc.



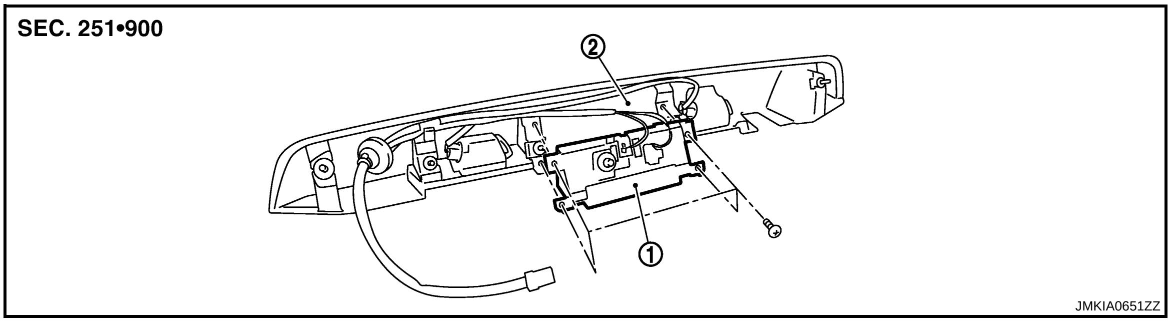
INSTALLATION

Install in the reverse order of removal.

BACK DOOR REQUEST SWITCH

Exploded View

INFOID:0000000001729578



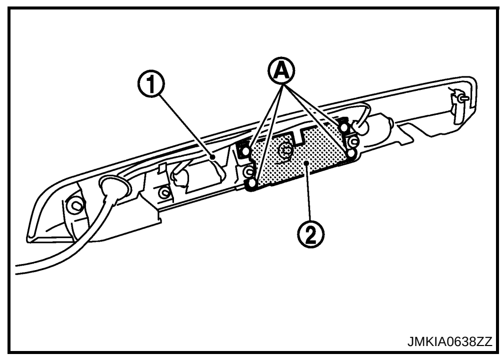
1. Back door opener switch assembly 2. Back door finisher

Removal and Installation

INFOID:0000000001729579

REMOVAL

1. Remove the back door finisher. Refer to EXT-31, "Removal and Installation".
2. Remove the back door opener switch assembly mounting bolt (A).
3. Remove the back door opener switch assembly (2) from back door finisher (1).



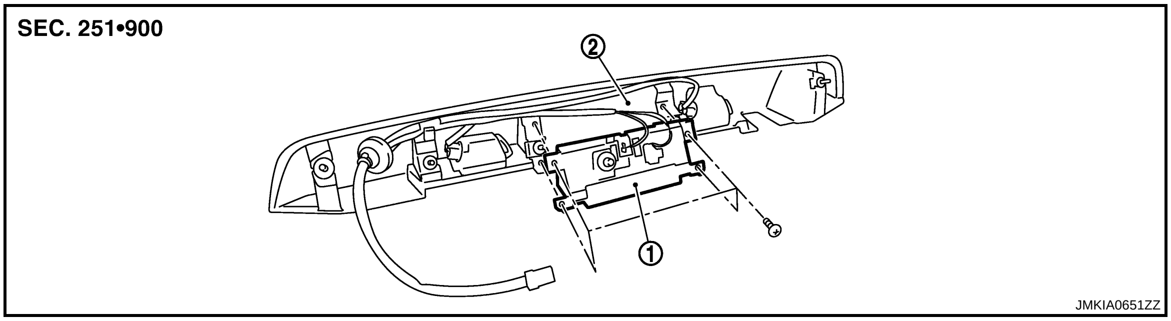
INSTALLATION

Install in the reverse order of removal.

BACK DOOR OPENER SWITCH

Exploded View

INFOID:0000000003219624



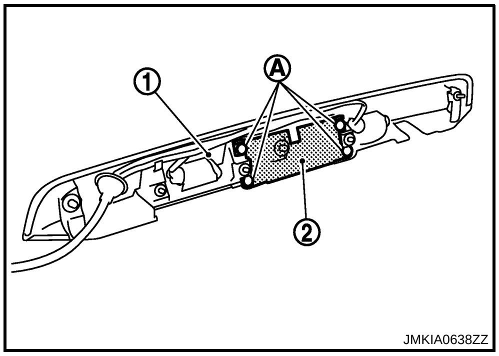
1. Back door opener switch assembly
2. Back door finisher

Removal and Installation

INFOID:0000000003219625

REMOVAL

1. Remove the back door finisher. Refer to EXT-31, "Removal and Installation".
2. Remove the back door opener switch assembly mounting bolt (A).
3. Remove the back door opener switch assembly (2) from back door finisher (1).



INSTALLATION

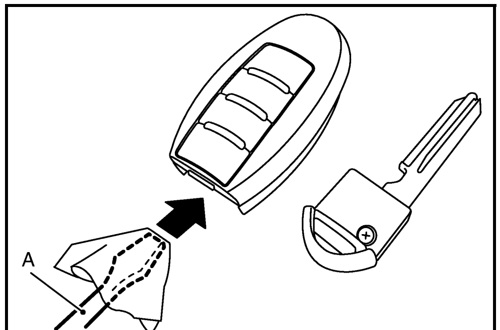
Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

Removal and Installation

INFOID:0000000001746848

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
2. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.
   CAUTION:
   - **Do not touch the circuit board or battery terminal.**
   - **The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.**

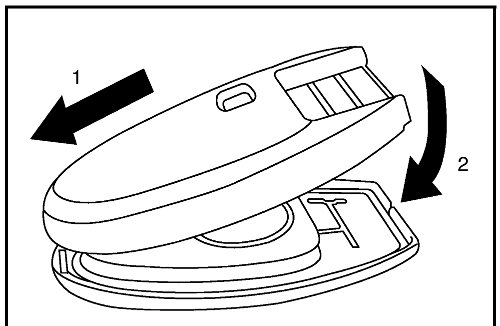


PIIB6221E

3. Replace the battery with new one.

Battery replacement **:Coin-type lithium battery (CR2025)**

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.
   CAUTION:
   - **When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.**
   - **After replacing the battery, check that all Intelligent Key functions work normally.**



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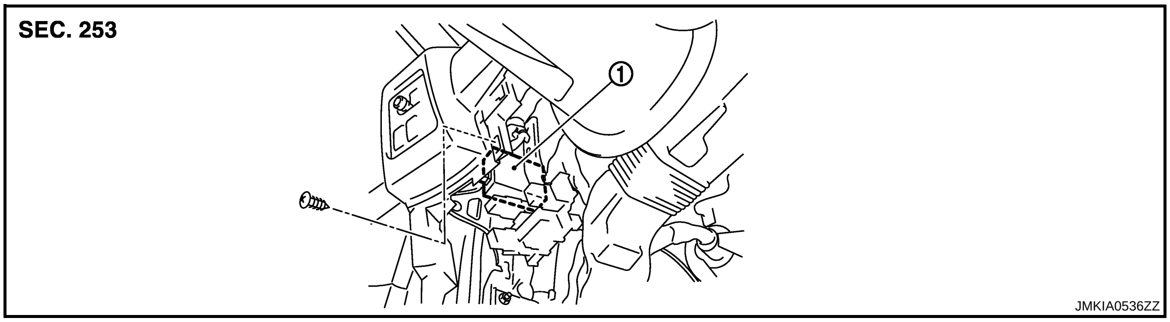
INTELLIGENT KEY UNIT

Exploded View

INFOID:0000000001729584



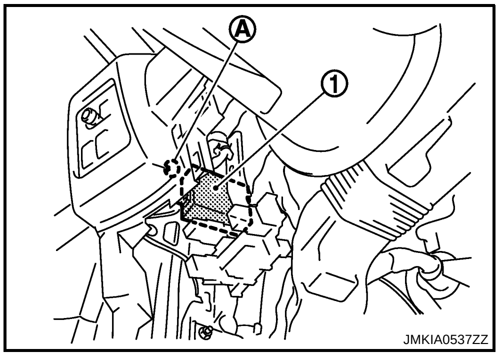
1. Intelligent Key unit M40

Removal and Installation

INFOID:0000000001744760

REMOVAL

1. Remove lower instrument panel (driver side) and mirror switch finisher. Refer to IP-12, "Exploded View" and IP-13, "Removal and Installation".
2. Remove the Intelligent Key unit mounting screw (A), and then remove Intelligent Key unit (1).
   NOTE:
   Perform the system initialization when replacing Intelligent Key unit. Refer to DLK-15, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".



INSTALLATION

Install in the reverse order of removal.

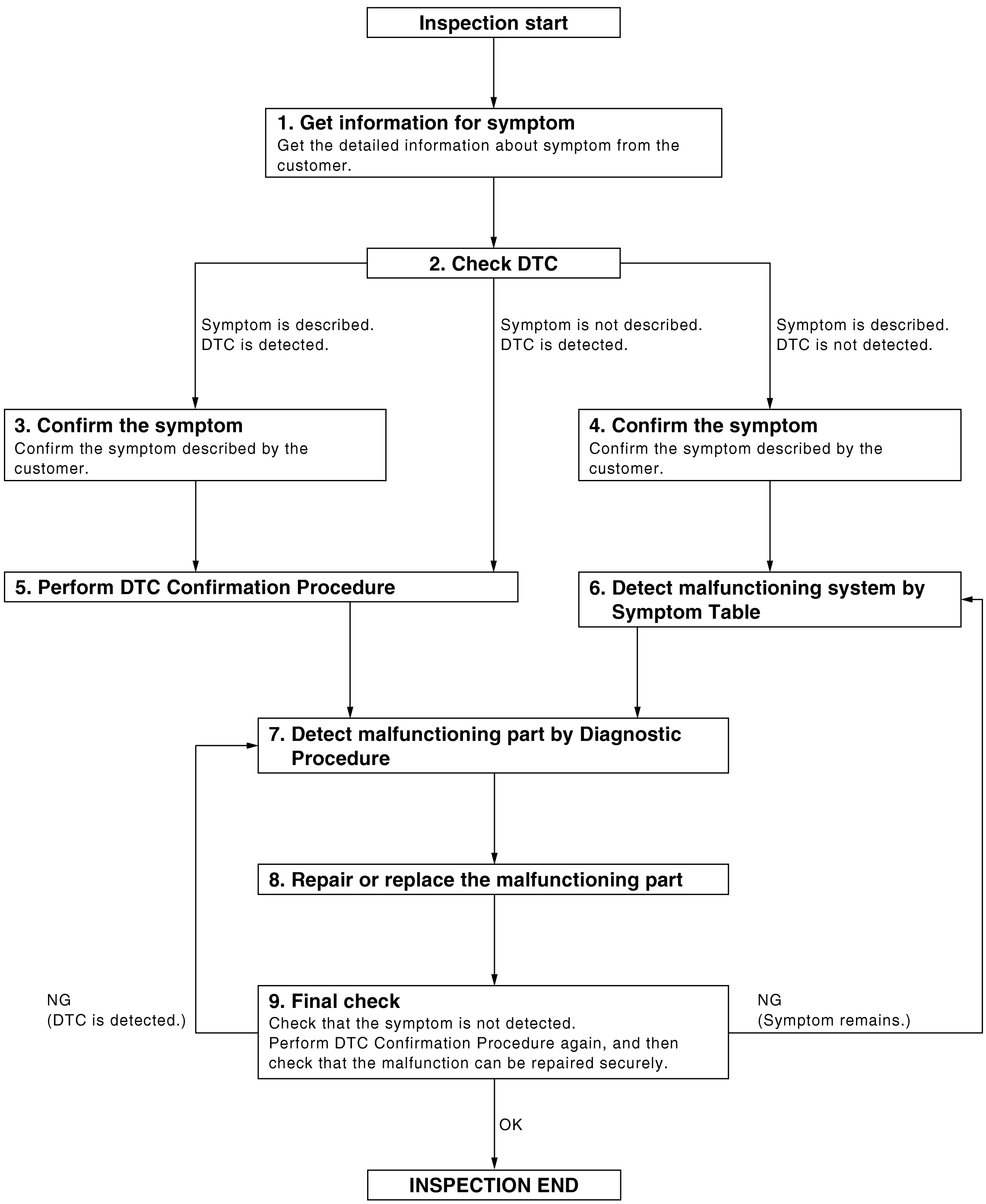
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000001729595

OVERALL SEQUENCE



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DETAILED FLOW

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.
- 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.
If two or more DTCs are detected, refer to DLK-404, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 7.
NO >> Refer to GI-41, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 8.

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 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.
When symptom was described by the customer, refer to the confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7.
NO (Symptom remains)>>GO TO 6.
YES >> **INSPECTION END**

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000001729596

Perform the system initialization when replacing or registering keyfob and ignition key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000001729597

Refer to the CONSULT-III Operation Manual-NATS.

ECM RE-COMMUNICATING FUNCTION

ECM RE-COMMUNICATING FUNCTION : Description

INFOID:0000000003229384

Performing following procedure can automatically perform re-communication of ECM and BCM, but only when the ECM has been replaced with a new one (*1).
*1: New one means a virgin ECM which has never been energized on-board.
(In this step, initialization procedure by CONSULT-III is not necessary)

NOTE:

- **When registering new Key IDs or replacing the ECM that is not brand new, refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.**
- **If multiple keys are attached to the key holder, separate them before work.**
- **Distinguish keys with unregistered key ID from those with registered ID.**

ECM RE-COMMUNICATING FUNCTION : Special Repair Requirement

INFOID:0000000003229385

1.PERFORM ECM RE-COMMUNICATING FUNCTION

1. Install ECM.
2. Insert the registered Intelligent Key (*2), turn ignition switch to “ON”.
   *2: To perform this step, use the key that has been used before performing ECM replacement.
3. Maintain ignition switch in “ON” position for at least 5 seconds.
4. Turn ignition switch to “OFF”.
5. Start engine.

Can engine be started?

YES >> Procedure is completed.
NO >> Initialize control unit. Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.

FUNCTION DIAGNOSIS

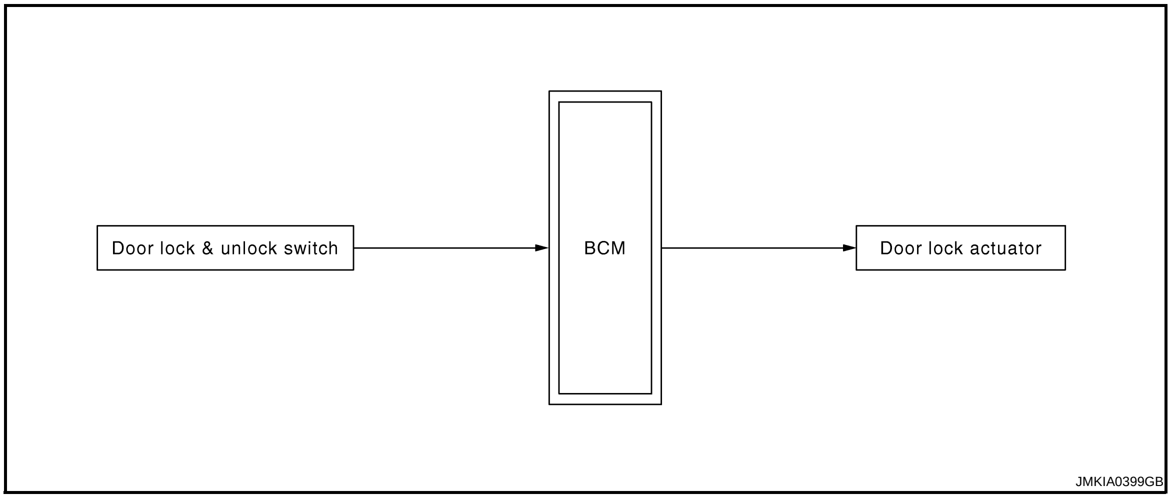
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : System Diagram

INFOID:0000000001729598

DOOR LOCK AND UNLOCK SWITCH OPERATION



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DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:0000000001839690

Switch	Input/output signal to BCM	BCM function	Actuator
Power window main switch (Door lock and unlock switch)	Door lock/unlock signal	Door lock/unlock control	Door lock actuator
Front power window switch (Door lock and unlock switch) (Passenger side)			
Door key cylinder switch			

DOOR LOCK FUNCTION

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

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

Functions Available by Operating the Key Cylinder Switch on Driver Door

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

Selective Unlock Operation

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

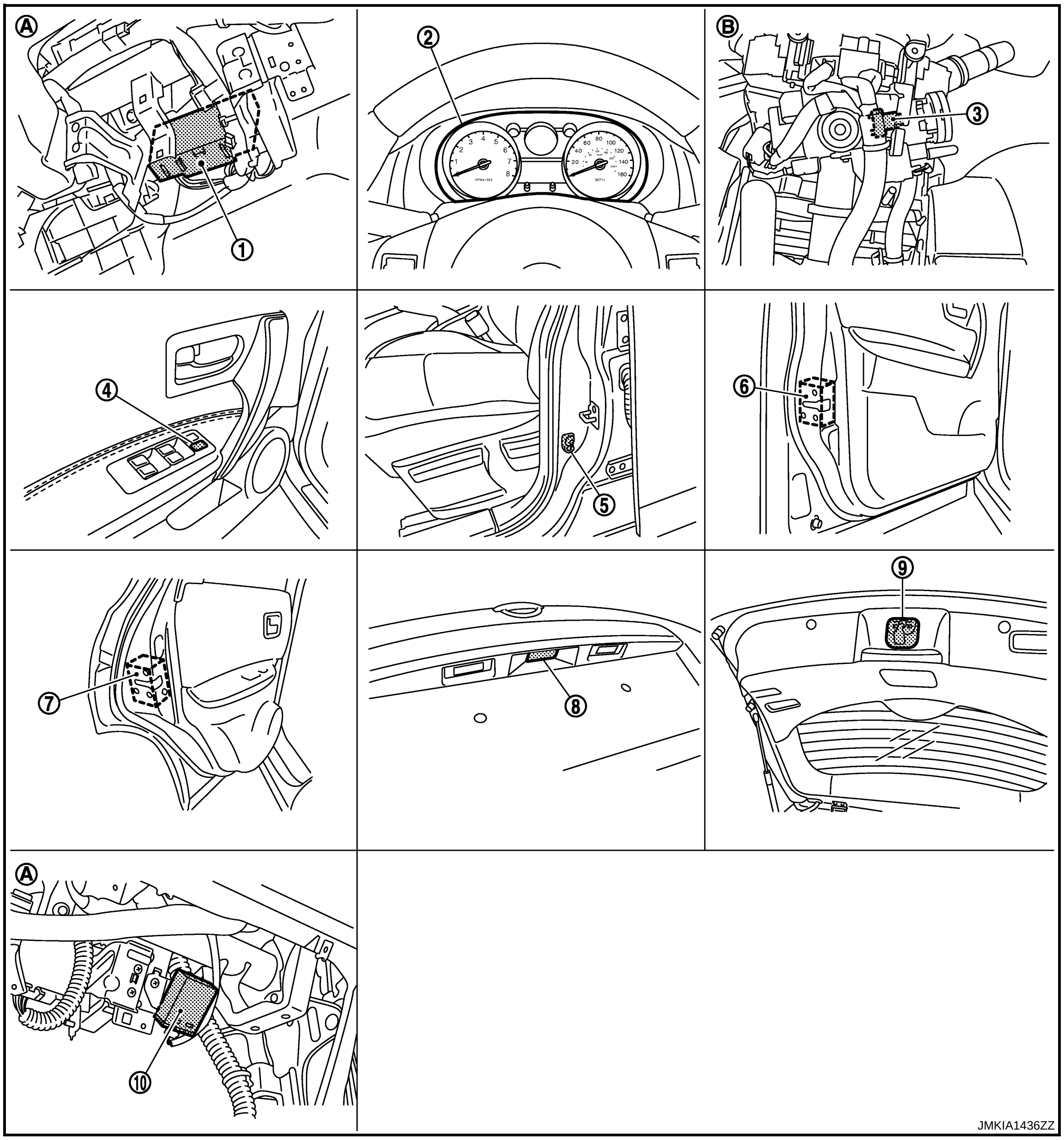
Select unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to DLK-328, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Key Reminder System

Refer to DLK-320, "KEY REMINDER : System Description".

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:0000000001729600



1. BCM
   M65, M66, M67
2. Combination meter
   M34
3. Key switch
   M24
4. Power window main switch (Door lock and unlock switch) D5 ,D6
5. Front door switch (driver side)
   B34
6. Front door lock assembly (driver side) D9
7. Rear door lock actuator LH
   D85
8. Back door opener switch assembly (opener switch) D186
9. Back door lock assembly D190
10. Remote keyless entry receiver M91

A. Over the glove box
B. View with steering column cover removed

DOOR LOCK AND UNLOCK SWITCH : Component Description

INFOID:0000000001729601

Item	Function
BCM	Controls the door lock and unlock function.
Door switch	Detects door state (open or closed).

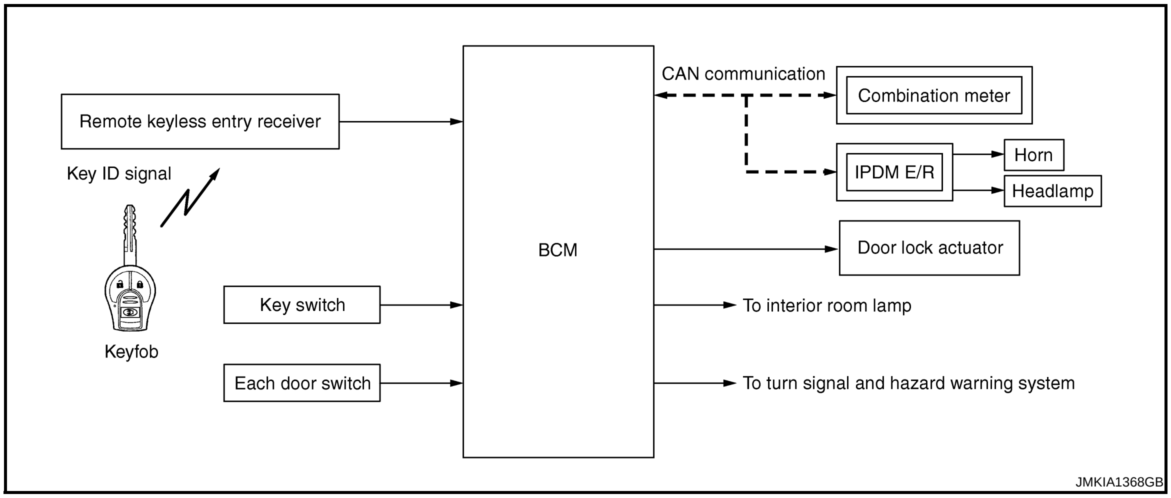
Item	Function
Door lock and unlock switch	Transmits door lock and unlock signal to BCM.
Door lock actuator	Receives door lock and unlock signal from BCM and locks and unlocks each door.

KEYFOB

KEYFOB : System Diagram

INFOID:0000000003319163

KEYFOB OPERATION



KEYFOB : System Description

INFOID:0000000001729603

KEYFOB OPERATION

The remote keyless entry system can be locked and unlocked by pressing door lock and unlock button of key-fob.

DOOR LOCK AND UNLOCK OPERATION

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

OPERATION CONDITION

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF (key is removed from ignition key cylinder).

OPERATION AREA

To ensure that the key fob works effectively, use within 100 cm range of each door, however the operable range may differ according to surroundings.

SELECTIVE UNLOCK OPERATION

When door lock is unlocked, pressing LOCK button on key fob once will lock all doors. When door lock is locked, pressing UNLOCK button on key fob will unlock driver side door. Pressing UNLOCK button on key fob second time within 5 seconds from the first time will unlock all doors and back door can be opened with back door opener switch.

Hazard and Horn Reminder

When the doors are locked or unlocked by key fob, power is supplied to sound horn and flash hazard warning lamps as follows

- LOCK operation: 3 or 4 mode (lamps flash twice)
- UNLOCK operation: 2 or 4 mode (lamps flash once)
- Horns sound once with LOCK function when this feature is set ON

The hazard reminder has modes 1, 2, 3 or 4. The horn reminder can be turned ON/OFF with any LOCK mode.

Operating function of hazard reminder

	Mode 1		Mode 2		Mode 3		Mode 4	
Key fob operation	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Hazard warning lamp flash	—	—	—	Once	Twice	—	Twice	Once
Horns sound (ON/OFF)	ON: once	—	ON: once	—	ON: once	—	ON: once	—

Hazard and horn reminders do not operate if any door switch is ON (any door is OPEN).

How to change hazard and horn reminders modes

With CONSULT-III

Hazard reminder can be changed using “HAZARD LAMP SET” mode in “WORK SUPPORT”.
Horn reminder can be changed using “HORN CHIRP SET” mode in “WORK SUPPORT”.
Refer to DLK-328, "MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)".

Without CONSULT-III

Refer to Owner's Manual for instructions.

Auto Door Lock Operation

Auto lock function signal is sent for operation when any of the following signals are not sent within 60 seconds after the unlock signal is sent from the key fob:

- When door switch is turned ON for open
- When the key switch is turned ON
- When the lock signal is sent from the key fob

Auto door lock mode can be changed using “AUTO LOCK SET” mode in “WORK SUPPORT”.
Refer to DLK-328, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Panic Alarm Operation

When key switch is OFF (when ignition key is not inserted in key cylinder), BCM turns on and off horn intermittently with input of PANIC ALARM signal from key fob.
BCM outputs to IPDM E/R for panic alarm signal (horn signal) as DATA LINE (CAN-H line and CAN-L line).
The alarm automatically turns off after 25 seconds or when BCM receives any signal from key fob.
Panic alarm operation mode can be changed using “PANIC ALARM SET” mode in “WORK SUPPORT”.
Refer toDLK-330, "PANIC ALARM : CONSULT-III Function (BCM - PANIC ALARM)".

Interior Lamp Operation

When the following conditions occur, remote keyless entry system turns on interior lamp with input of UNLOCK signal from key fob. For detailed description, refer to INL-5, "System Description".

- Interior room lamp switch is in the DOOR position
- Door switch OFF (when all the doors are closed)

ID CODE ENTRY PROCEDURE

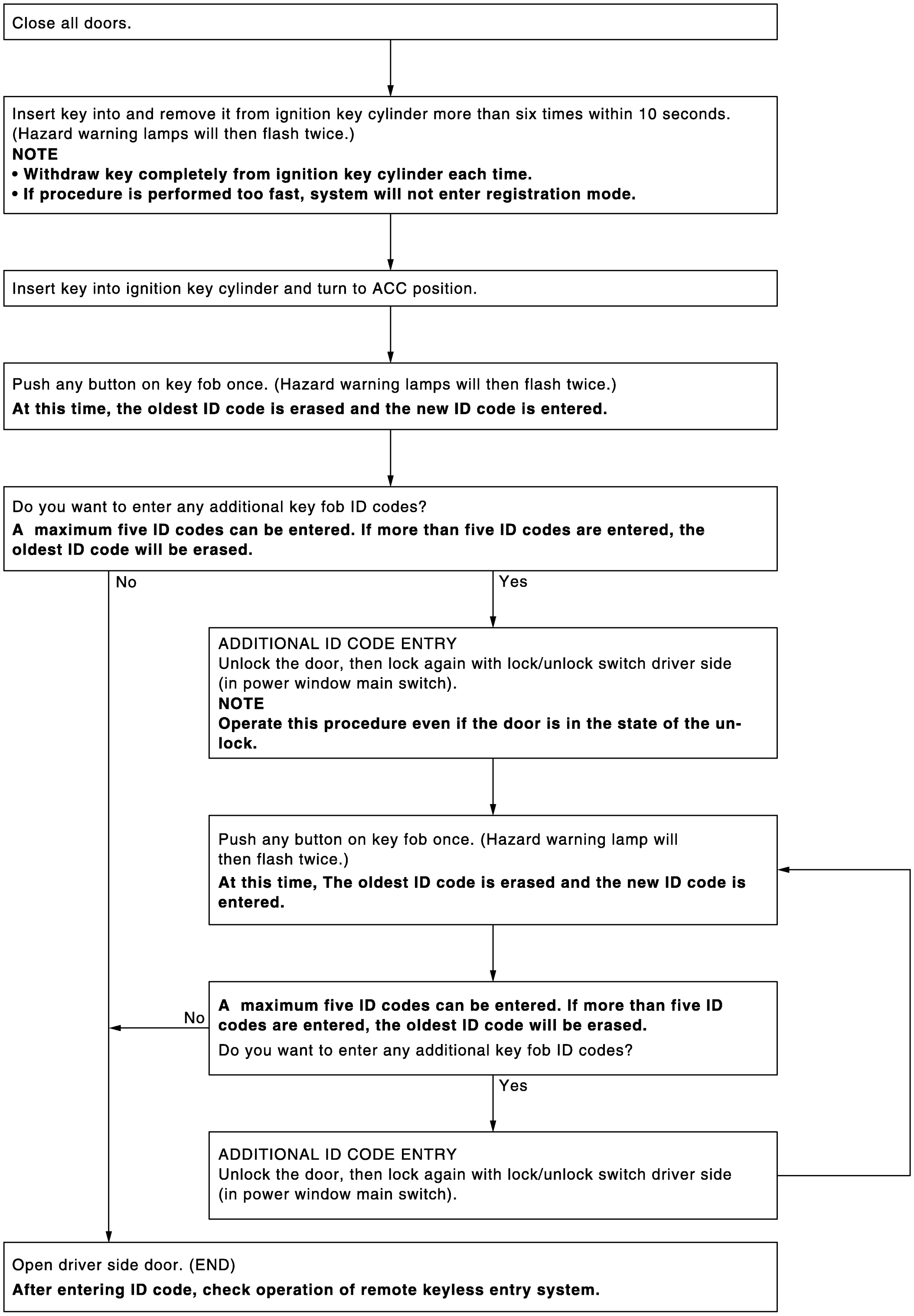
Key fob ID setup WITH CONSULT-III

Refer to DLK-328, "MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)".

NOTE:

If a key fob is lost, the ID code of the lost key fob must be erased to prevent unauthorized use. When the ID code of a lost key fob is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new key fobs must be re-registered.

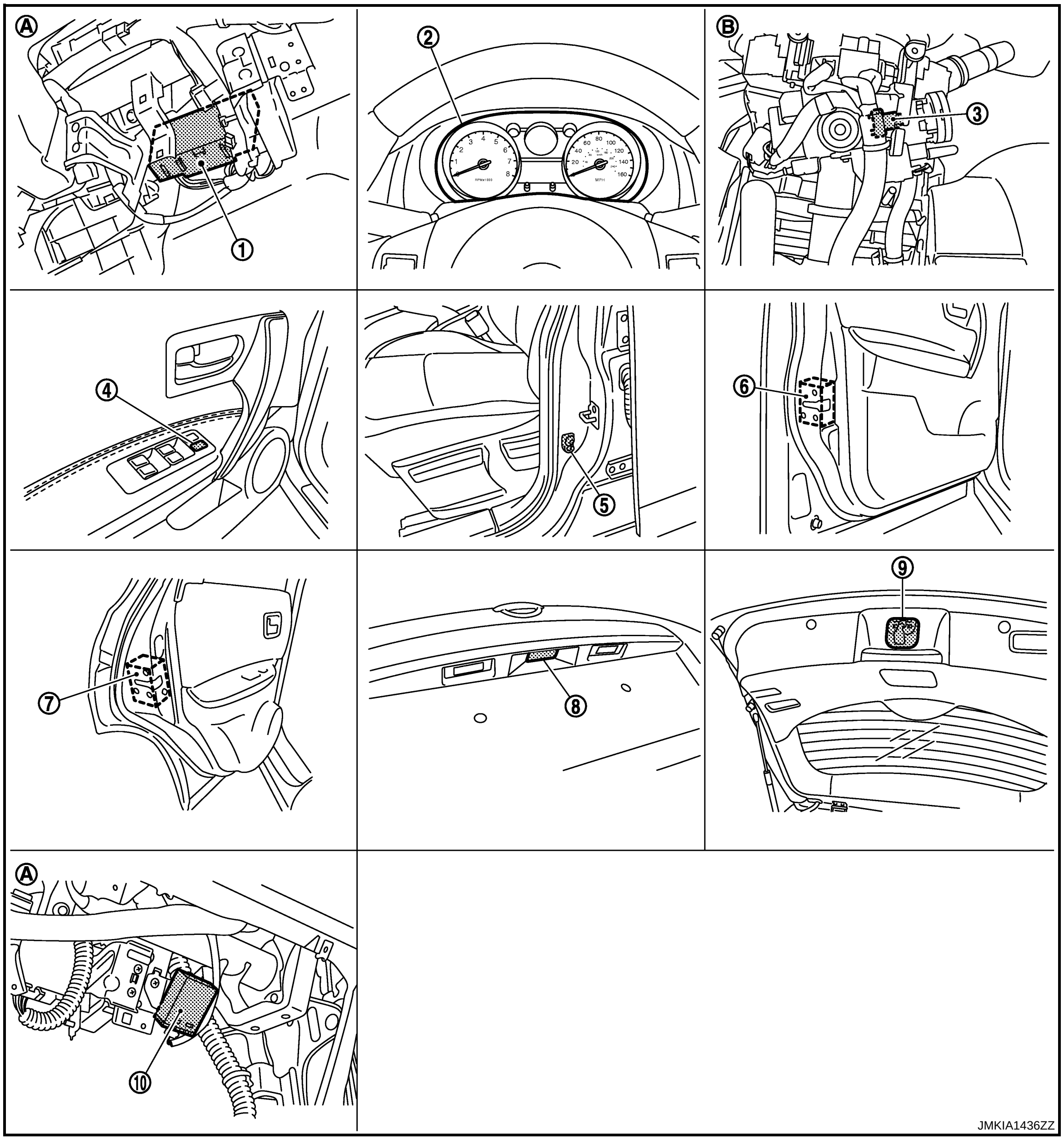
KEY FOB ID SETUP WITHOUT CONSULT-III



PIIA2839E

KEYFOB : Component Parts Location

INFOID:0000000001889404



1. BCM M65, M66, M67
2. Combination meter M34
3. Key switch M24
4. Power window main switch (Door lock and unlock switch) D5 ,D6
5. Front door switch (driver side) B34
6. Front door lock assembly (driver side) D9
7. Rear door lock actuator LH D85
8. Back door opener switch assembly (opener switch) D186
9. Back door lock assembly D190
10. Remote keyless entry receiver M91

A. Over the glove box
B. View with steering column cover removed

KEYFOB : Component Description

INFOID:0000000001729605

Item	Function
BCM	Controls the door lock and unlock function.
Key switch	Detects that ignition key is inserted into ignition key cylinder.

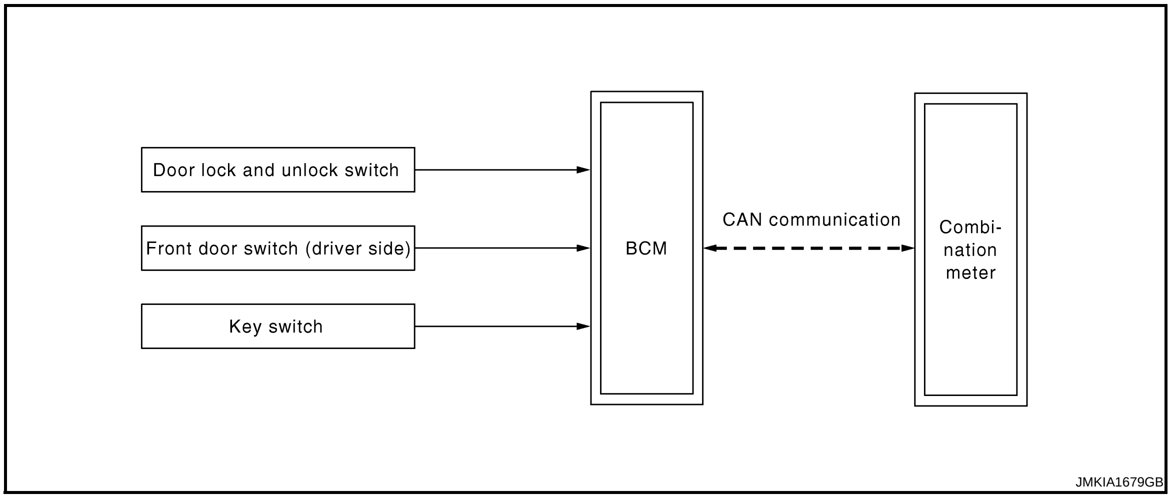
Item	Function
Door lock actuator	Receives lock / unlock signal from BCM and locks and unlocks each door.
Remote keyless entry receiver	Receives lock/unlock signal from the key fob, and then transmits to BCM.
Key fob	Transmits button operation to remote keyless entry receiver.

KEY REMINDER

KEY REMINDER : System Diagram

INFOID:0000000001729622

KEY REMINDER OPERATION



KEY REMINDER : System Description

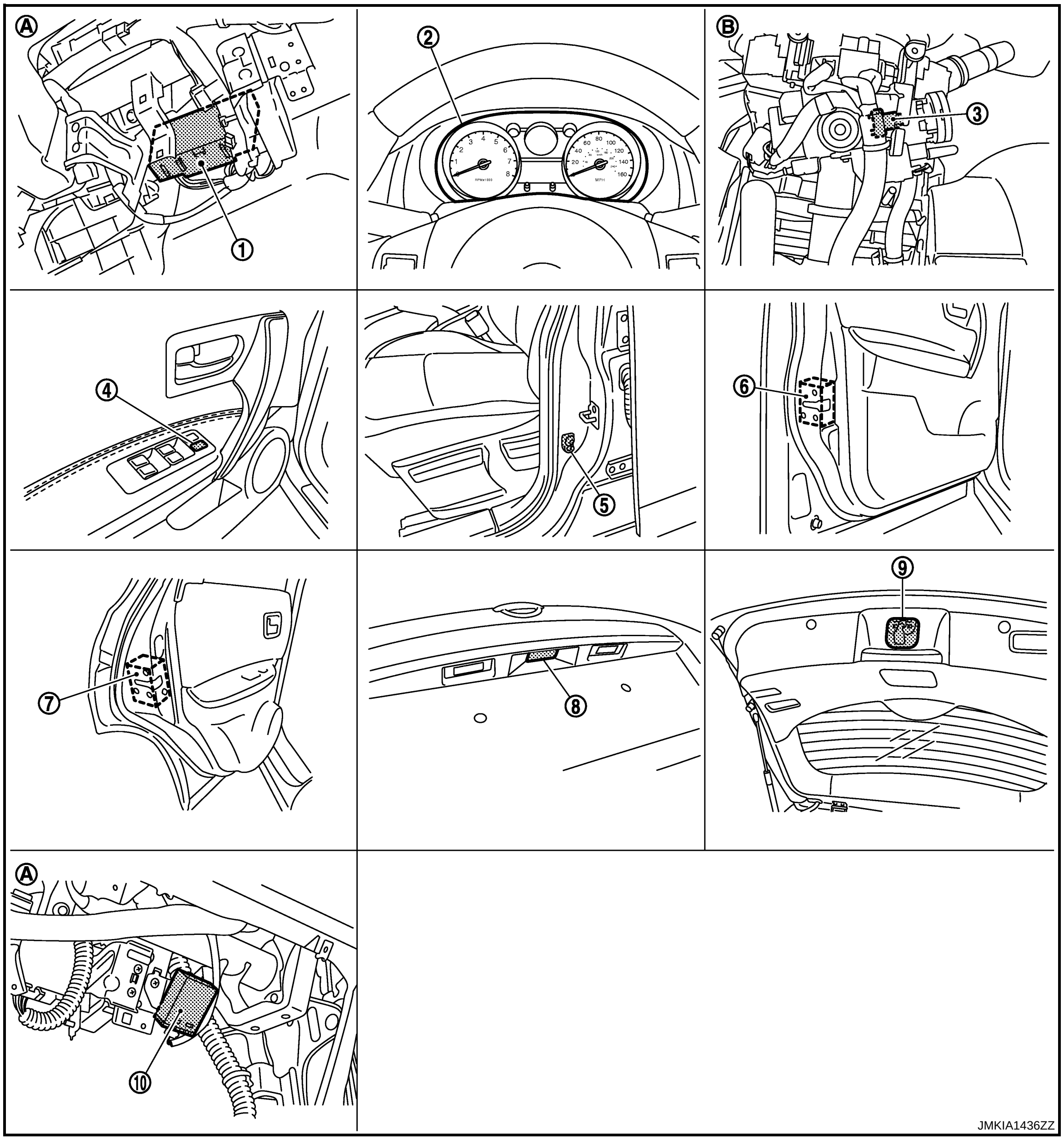
INFOID:0000000001729623

KEY REMINDER OPERATION

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

KEY REMINDER : Component Parts Location

INFOID:0000000001889405



1. BCM M65, M66, M67
2. Combination meter M34
3. Key switch M24
4. Power window main switch (Door lock and unlock switch) D5 ,D6
5. Front door switch (driver side) B34
6. Front door lock assembly (driver side) D9
7. Rear door lock actuator LH D85
8. Back door opener switch assembly (opener switch) D186
9. Back door lock assembly D190
10. Remote keyless entry receiver M91

A. Over the glove box
B. View with steering column cover removed

KEY REMINDER : Component Description

INFOID:0000000001729625

Item	Function
BCM	Controls the warning function.
Combination meter	Sounds the buzzer by the request signal from BCM via CAN communication.

Item	Function
Door switch	Detects door state (open or closed).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM.
Key switch	Detects that ignition key is inserted into ignition key cylinder.

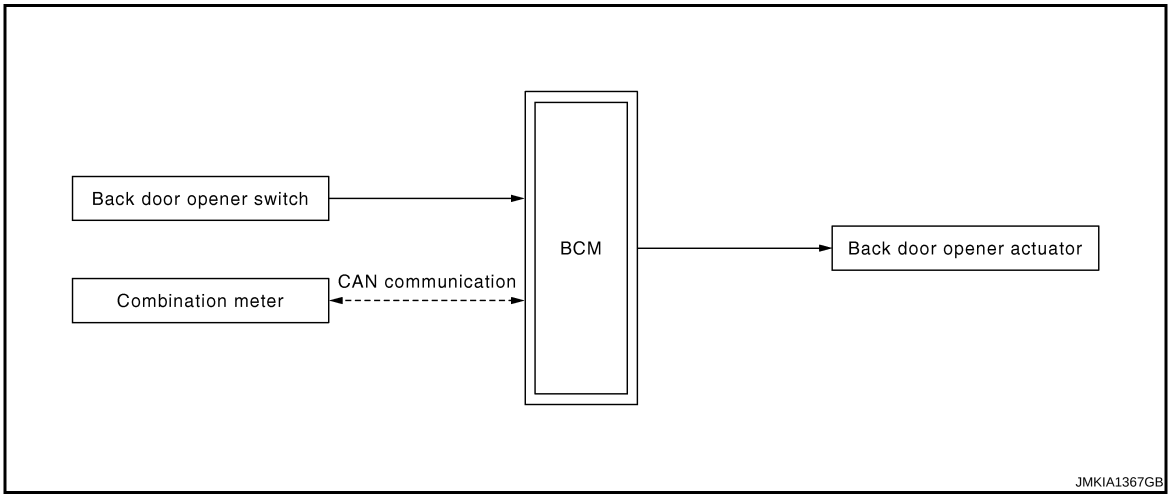
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:0000000001729618

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:0000000001729619

BACK DOOR OPENER OPERATION

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

NOTE:

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

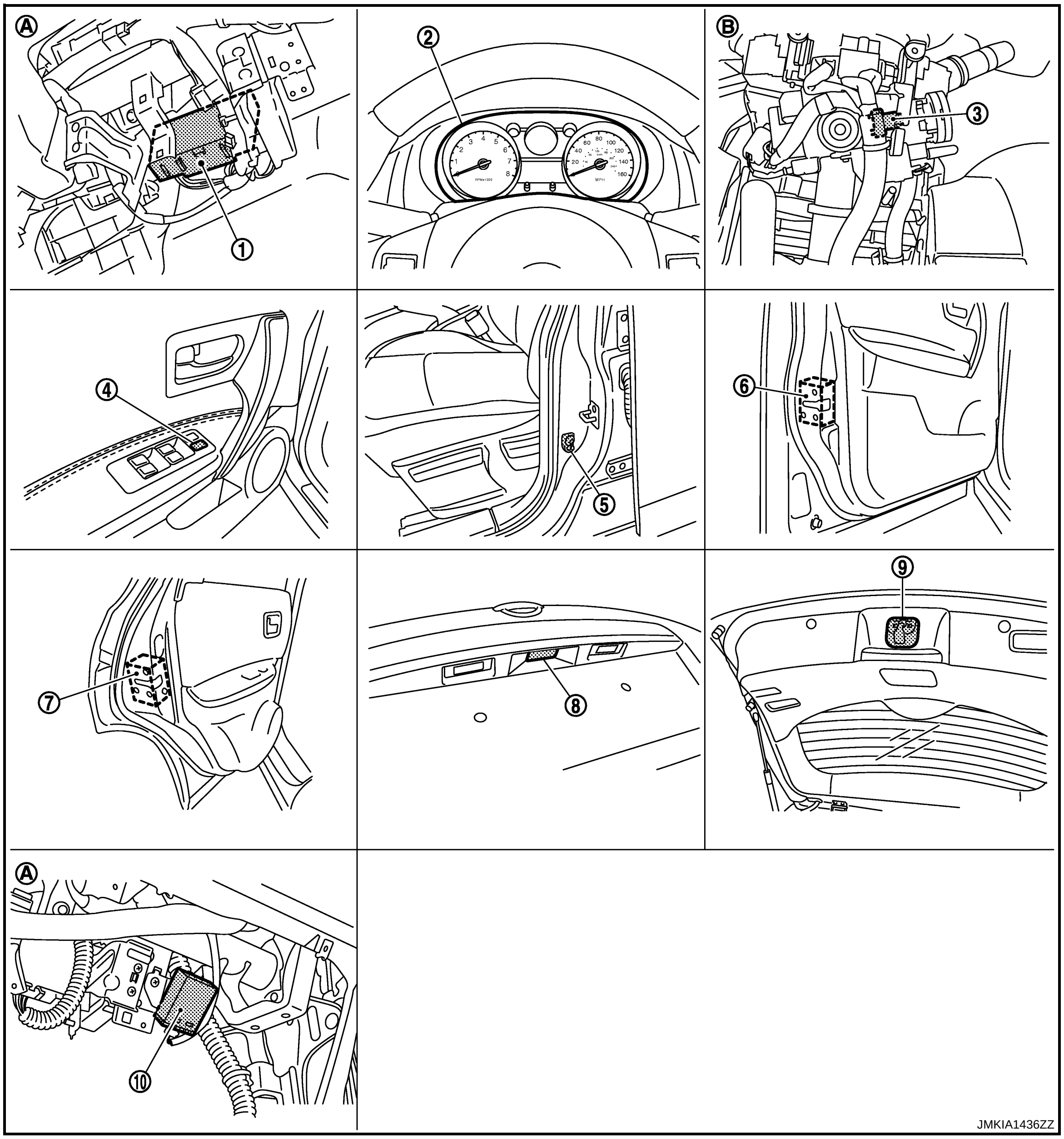
OPERATION CONDITION

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

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

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:0000000001889407



1. BCM
   M65, M66, M67
2. Combination meter
   M34
3. Key switch
   M24
4. Power window main switch (Door lock and unlock switch) D5 ,D6
5. Front door switch (driver side)
   B34
6. Front door lock assembly (driver side) D9
7. Rear door lock actuator LH
   D85
8. Back door opener switch assembly (opener switch) D186
9. Back door lock assembly D190
10. Remote keyless entry receiver M91

A. Over the glove box
B. View with steering column cover removed

BACK DOOR OPENER SWITCH : Component Description

INFOID:0000000001729621

Item	Function
BCM	Controls the back door opener function
Back door opener switch	Transmits back door opener switch operation signal to BCM

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

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000001873247

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

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000003187658

APPLICATION ITEM

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

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-63, "DTC Index".
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	• Read and save the vehicle specification. • Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	CONSULT-III 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 control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
—	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
—	FUEL LID*			
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×
Panic alarm system	PANIC ALARM			×

*: This item is displayed, but is not function.

DOOR LOCK

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

INFOID:0000000003179145

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

DATA MONITOR

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

*1: For the Intelligent Key equipped vehicle.

*2: For the multi remote control system equipped vehicle.

ACTIVE TEST

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

WORK SUPPORT

Test item	Description
DOOR LOCK-UNLOCK SET	Select unlock mode can be changed in this mode. Selects ON-OFF of select unlock mode
ANTI-LOCK OUT SET	Key reminder door mode can be changed in this mode. Selects ON-OFF of Key reminder door mode

MULTIREMOTE ENT

MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:0000000001729632

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.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEYKESS LOCK	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK	Indicates [ON/OFF] condition of unlock signal from key fob.
KEYLESS PANIC	Indicates [ON/OFF] condition of panic alarm signal from key fob.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
RKE LOCK AND UNLOCK	Indicates [ON/OFF] condition of lock and unlock signal from keyfob.
MEMORY 1	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 2	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 3	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 4	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 5	Indicates [ON/OFF] condition of remote controller ID code registration.

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK OTHER UNLOCK].
FLASHER	This test is able to check flasher operation [LH/RH/OFF].
HORN	This test is able to check horn operation [ON/OFF].

WORK SUPPORT

Test item	Description
HAZARD LAMP SET	Answer back function (hazard) mode can be changed in this mode. For the detail of the setting.
HORN CHIRP	Answer back function (horn) mode can be changed in this mode. For the detail of the setting.

Test item	Description
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 2 minutes • MODE 3: 3 minutes • MODE 4: 4 minutes • MODE 5: 5 minutes
PANIC ALRM SET	Panic alarm operation mode can be changed in this mode.

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:0000000003187656

APPLICATION ITEM

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 Intelligent Key unit

DATA MONITOR

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

ACTIVE TEST

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

PANIC ALARM

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

INFOID:0000000003187657

APPLICATION ITEM

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

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

ACTIVE TEST

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

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000003230063

Auto active test

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Rear window defogger
- Front wiper (LO, HI)
- Parking lamps
- License plate lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (LO, MID, HI)

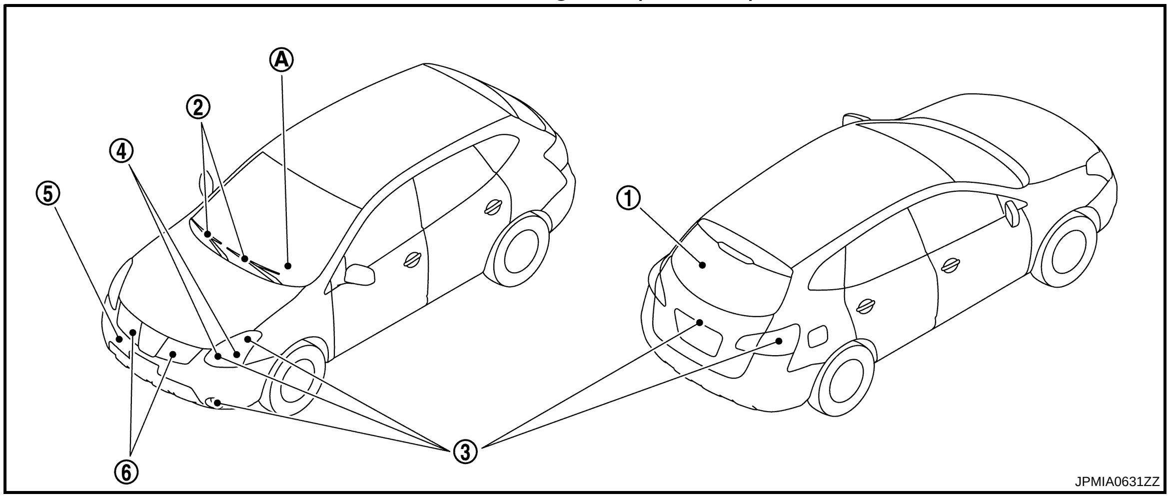
Operation procedure

1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)
   NOTE:
   When auto active test is performed with hood opened, sprinkle water on windshield beforehand.
2. Turn ignition switch OFF.
3. Turn the ignition switch ON, and within 20 seconds, press the driver door switch 10 times. Then turn the ignition switch OFF.
   CAUTION:
   Close passenger door.
4. Turn the ignition switch ON within 10 seconds. Then the horn sounds once and the auto active test starts.
   NOTE:
   Only a vehicle with the vehicle security system, the horn sounds.
5. The oil pressure warning lamp starts blinking when the auto active test starts.
6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:
When auto active test mode has to be cancelled halfway through test, turn ignition switch OFF.
CAUTION:
- **If auto active test mode cannot be actuated, check door switch system.**
- **Never start the engine.**

Inspection in auto active test mode

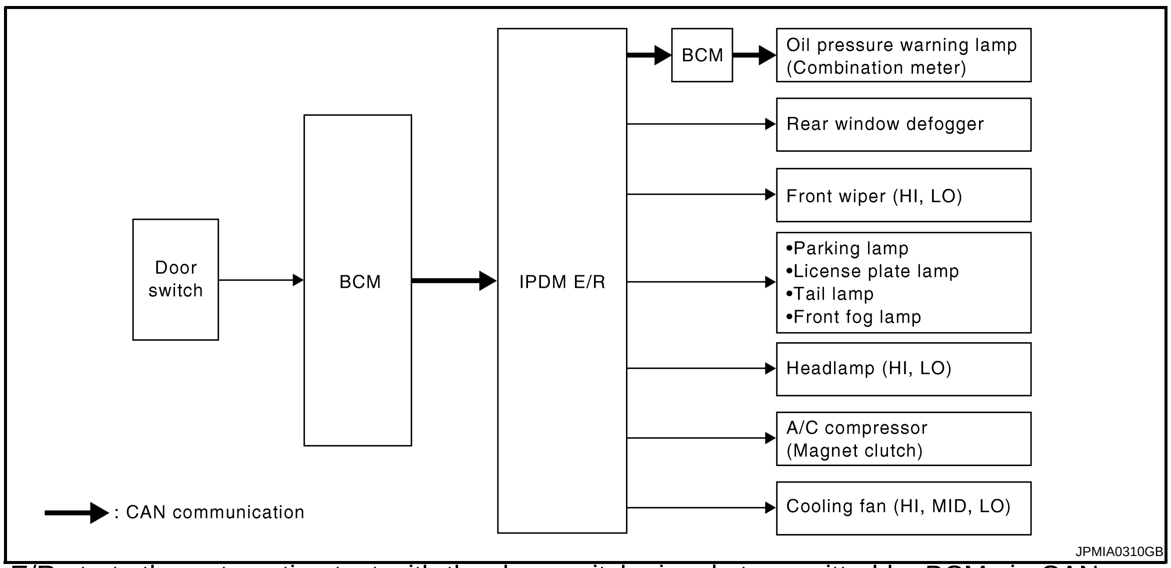
When auto active test mode is actuated, the following 6 steps are repeated 3 times.



Operation sequence	Inspection location	Operation
A	Oil pressure warning lamp	Blinks continuously during operation of auto active test.
1	Rear window defogger	10 seconds
2	Front wiper	LO for 5 seconds → HI for 5 seconds
3	• Parking lamps • License plate lamps • Tail lamps • Front fog lamps • Headlamps HI (daytime running light operation)*	10 seconds
4	Headlamps	LO ⇔ HI 5 times
5	A/C compressor (magnet clutch)	ON ⇔ OFF 5 times
6	Cooling fan	LO for 5 seconds → MID for 3 seconds → HI for 2 seconds

NOTE:
*: With daytime running light system

Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

Symptom	Inspection contents		Possible cause
Rear window defogger does not operate	Perform auto active test. Does the rear window defogger operate?	YES	BCM signal input circuit
		NO	• Rear window defogger • Rear window defogger ground circuit • Harness or connector between IPDM E/R and rear window defogger • IPDM E/R
Any of the following components do not operate • Parking lamps • License plate lamps • Tail lamps • Front fog lamps • Headlamps (HI, LO) • Front wiper (HI, LO)	Perform auto active test. Does the applicable system operate?	YES	BCM signal input circuit
		NO	• Lamp or motor • Lamp or motor ground circuit • Harness or connector between IPDM E/R and applicable system • IPDM E/R

Symptom	Inspection contents		Possible cause
Headlamps HI (daytime running light operation) do not operate	Perform auto active test. Do headlamps HI (daytime running light operation) operate?	YES	• CAN communication signal between ECM and BCM • CAN communication signal between combination meter and BCM • BCM signal input circuit
		NO	• Daytime running light relay power supply circuit • Harness or connector between IPDM E/R and daytime running light relay • Daytime running light relay
A/C compressor does not operate	Perform auto active test. Does the magnet clutch operate?	YES	• BCM signal input circuit • CAN communication signal between BCM and ECM • CAN communication signal between ECM and IPDM E/R
		NO	• Magnet clutch • Harness or connector between IPDM E/R and magnet clutch • IPDM E/R
Oil pressure warning lamp does not operate	Perform auto active test. Does the oil pressure warning lamp blink?	YES	• Harness or connector between IPDM E/R and oil pressure switch • Oil pressure switch • IPDM E/R
		NO	• CAN communication signal between IPDM E/R and BCM • CAN communication signal between BCM and combination meter • Combination meter
Cooling fan does not operate	Perform auto active test. Does the cooling fan operate?	YES	• ECM signal input circuit • CAN communication signal between ECM and IPDM E/R
		NO	• Cooling fan motor-2 power supply circuit • Cooling fan motor-1 ground circuit • Cooling fan relay-4 or cooling fan relay-5 power supply circuit • Cooling fan relay-5 ground circuit • Harness or connector between IPDM E/R and cooling fan motor • Harness or connector between IPDM E/R, and cooling fan relay-4 or cooling fan relay-5 • Harness or connector between cooling fan motor-2, and cooling fan relay-4 or cooling fan relay-5 • Cooling fan relay-4 or cooling fan relay-5 • Cooling fan motor • IPDM E/R

CONSULT-III Function (IPDM E/R)

INFOID:0000000003230064

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with IPDM E/R.

Diagnosis mode	Description
Self Diagnostic Result	Displays the diagnosis results judged by IPDM E/R.
Data Monitor	Displays the real-time input/output data from IPDM E/R input/output data.

Diagnosis mode	Description
Active Test	IPDM E/R can provide a drive signal to electronic components to check their operations.
CAN Diag Support Monitor	The results of transmit/receive diagnosis of CAN communication can be read.

SELF DIAGNOSTIC

Refer to PCS-26, "DTC Index".

DATA MONITOR

Monitor item

Monitor Item [Unit]	MAIN SIGNALS	Description
MOTOR FAN REQ [1 - 4]	×	Displays the value of the cooling fan speed signal received from ECM via CAN communication.
AC COMP REQ [Off/On]	×	Displays the status of the A/C compressor request signal received from ECM via CAN communication.
TAIL&CLR REQ [Off/On]	×	Displays the status of the position light request signal received from BCM via CAN communication.
HL LO REQ [Off/On]	×	Displays the status of the low beam request signal received from BCM via CAN communication.
HL HI REQ [Off/On]	×	Displays the status of the high beam request signal received from BCM via CAN communication.
FR FOG REQ [Off/On]	×	Displays the status of the front fog light request signal received from BCM via CAN communication. **NOTE:** This item is monitored only the vehicle with front fog lamp system.
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Displays the status of the front wiper request signal received from BCM via CAN communication.
WIP AUTO STOP [STOP P/ACT P]	×	Displays the status of the front wiper auto stop signal judged by IPDM E/R.
WIP PROT [Off/BLOCK]	×	Displays the status of the front wiper fail-safe operation judged by IPDM E/R.
ST RLY REQ [Off/On]		Displays the status of the starter request signal.
IGN RLY [Off/On]	×	Displays the status of the ignition relay judged by IPDM E/R.
RR DEF REQ [Off/On]	×	Displays the status of the rear defogger request signal received from BCM via CAN communication.
OIL P SW [Open/Close]		Displays the status of the oil pressure switch judged by IPDM E/R.
DTRL REQ [Off/On]		Displays the status of the daytime running light request signal received from BCM via CAN communication. **NOTE:** This item is monitored only the vehicle with daytime running light system.
HOOD SW [Off/On]		Displays the status of the hood switch judged by IPDM E/R. **NOTE:** This item is monitored only the vehicle for Mexico.
THFT HRN REQ [Off/On]		Displays the status of the horn request signal by vehicle security system or panic alarm system received from BCM via CAN communication.
HORN CHIRP [Off/On]		Displays the status of the horn request signal by key fob LOCK operation received from BCM via CAN communication.

ACTIVE TEST

Test item

Test item	Operation	Description
REAR DEFOGGER	Off	OFF
	On	Operates the rear window defogger relay.
FRONT WIPER	Off	OFF
	Lo	Operates the front wiper relay.
	Hi	Operates the front wiper relay and front wiper high relay.
MOTOR FAN	1	OFF
	2	Operates the cooling fan relay (LO operation).
	3	Operates the cooling fan relay (MID operation).
	4	Operates the cooling fan relay (HI operation).
EXTERNAL LAMPS	Off	OFF
	TAIL	Operates the tail lamp relay and the daytime running light relay. **NOTE:** Daytime running light relay is with daytime running light system only.
	Lo	Operates the headlamp low relay.
	Hi	Operates the headlamp low relay and ON/OFF the headlamp high relay at 4 seconds intervals.
	Fog	Operates the front fog lamp relay. **NOTE:** This item can test only the vehicle with front fog lamp system.
HORN	On	Operates horn relay for 20 ms.

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000001729634

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.
CAN Communication Signal Chart, refer to LAN-23, "CAN Communication Signal Chart".

DTC Logic

INFOID:0000000001729635

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000001729636

1.PERFORM SELF DIAGNOSIS

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-14, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-41, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

Description

INFOID:0000000001729637

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.
CAN Communication Signal Chart, refer to LAN-23, "CAN Communication Signal Chart".

DTC Logic

INFOID:0000000001729638

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN controller of BCM.	BCM

Diagnosis Procedure

INFOID:0000000001729639

1. REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM.

Special Repair Requirement

INFOID:0000000001729640

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

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

>> WORK END

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000003159708

1.CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	10 (10A)
70		J (50A)
11	ACC power supply	20 (10A)
38	Ignition power supply	1 (10A)

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Ignition switch position		
BCM			OFF	ACC	ON
Connector	Terminal				
M67	70	Ground	Battery voltage	Battery voltage	Battery voltage
	57				
M65	11		Approx. 0 V	Battery voltage	Battery voltage
	38		Approx. 0 V	Approx. 0 V	Battery voltage

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	67		Exists

Does continuity exist?

YES >> INSPECTION END
NO >> Repair harness or connector.

DOOR SWITCH

Description

INFOID:0000000001729646

Detects door open/closed condition.

Component Function Check

INFOID:0000000001729647

1.CHECK FUNCTION

With CONSULT-III

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

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

Is the inspection result normal?

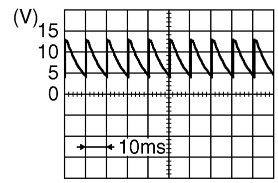
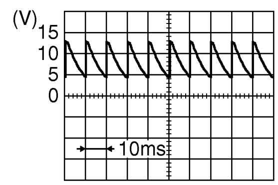
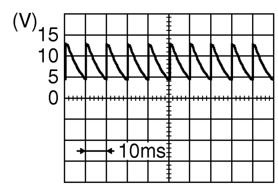
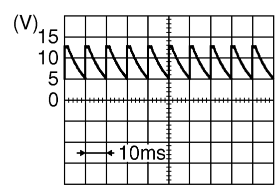
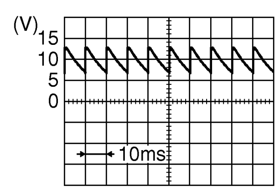
YES >> Door switch is OK.
NO >> Refer to DLK-339, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729648

1.CHECK DOOR SWITCH INPUT SIGNAL

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

Door switch				Voltage (V) (Approx.)
(+)			(–)	
connector		Terminal		
Front door switch (passenger side)	B27	2	Ground	 JPMIA0586GB
Front door switch (driver side)	B34	2		 JPMIA0587GB
Rear door switch RH	B53	2		 JPMIA0587GB
Rear door switch LH	B71	2		 JPMIA0594GB
Back door lock assembly (back door switch)	D190	3		 JPMIA0593GB

Is the inspection result normal?

YES >> • Back door switch : GO TO 3.
• Door switch : GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM		Door switch		Continuity
connector	Terminal	connector	Terminal	
M65	12	B27	2	Exists
	13	B53		
M66	43	D190	3	
	47	B34	2	
	48	B71		

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M65	12	Ground	Does not exist
	13		
M66	43		
	47		
	48		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3. CHECK BACK DOOR GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
connector	Terminal		
D190	4		Exist

Is the inspection result normal?

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

4. CHECK DOOR SWITCH

Check door switch.
Refer to DLK-341, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace door switch. Refer to DLK-301, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001729649

1. CHECK DOOR SWITCH

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

Terminal			Condition	Continuity
Each door	2	Ground	Door switch pressed	Exists
			Door switch released	Does not exist

Terminal			Condition	Continuity
Back door	3	4	Back door open	Exists
			Back door close	Does not exist

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace door switch . Refer to DLK-301, "Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000003122890

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000003122891

1. CHECK FUNCTION

With CONSULT-III
Check “CDL LOCK SW ”and “CDL UNLOCK SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

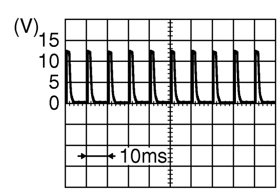
YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-343, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000003122892

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door lock and unlock switch) connectors.
3. Check signal between power window main switch (door lock and unlock switch) harness connector and ground with oscilloscope.

(+)		(–)	Signal (Reference value)
Power window main switch (door lock and unlock switch)			
Connector	Terminal		
D5	6	Ground	 JPMIA0591GB
D6	18		

Is the inspection result normal?

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

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and power window main switch (door lock and unlock switch) harness connector.

BCM		Power window main switch (door lock and unlock switch)		Continuity
Connector	Terminal	Connector	Terminal	
M65	46	D5	6	Exists
	45	D6	18	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M65	46		Does not exist
	45		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window main switch (door lock and unlock switch) harness connector and ground.

Power window main switch (door lock and unlock switch)		Ground	Continuity
Connector	Terminal		
D6	17		Exists

Is the inspection result normal?

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

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Check power window main switch (door lock and unlock switch).
Refer to DLK-344, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power window main switch (door lock and unlock switch). Refer to PWC-83, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000003122893

1.CHECK DOOR LOCK AND UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door lock and unlock switch) connector.
3. Check power window main switch (door lock and unlock switch).

Power window main switch (door lock and unlock switch)	Terminal		Condition	Continuity
D5	6	17	LOCK	Exists
D6	18		UNLOCK	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch. Refer to PWC-83, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000003122894

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000003122895

1.CHECK FUNCTION

With CONSULT-III
Check “CDL LOCK SW ”and “CDL UNLOCK SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

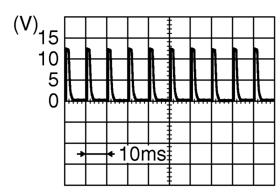
YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-345, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000003122896

1.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

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

(+) Front power window switch (passenger side) Connector	(+) Front power window switch (passenger side) Terminal	(–)	Signal (Reference value)
D45	1	Ground	 JPMIA0591GB
	2		

Is the inspection result normal?

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

2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

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

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

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M65	46		Does not exist
	45		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

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

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

Is the inspection result normal?

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

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Check front power window switch (passenger side).
Refer to DLK-346, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front power window switch (passenger side). Refer to PWC-83, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000003122897

1.CHECK DOOR LOCK AND UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect front power window switch (passenger side) (door lock and unlock switch) connector.
3. Check front power window switch (passenger side) (door lock and unlock switch).

Front power window switch (passenger side) (door lock and unlock switch)	Terminal		Condition	Continuity
D45	2	3	LOCK	Exists
	1		UNLOCK	

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace front power window switch (passenger side). Refer to PWC-83, "Removal and Installation".

KEY SWITCH

Description

INFOID:0000000001729666

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

Component Function Check

INFOID:0000000001729667

1.CHECK KEY SWITCH INPUT SIGNAL

Check key switch “KEY ON SW” in “Data Monitor” mode with CONSULT-III. Refer to DLK-328, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

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

Is the inspection result normal?

YES >> Key switch is OK.
NO >> Refer to DLK-347, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729668

1.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

1. Remove mechanical key from key cylinder.
2. Disconnect key switch connector.
3. Check voltage between key switch harness connector and ground.

(+)		(–)	Voltage (V) (Approx.)
Key switch			
Connector	Terminal		
M24	2	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK KEY SWITCH SIGNAL CIRCUIT

1. Check continuity between BCM harness connector and key switch connector.

BCM		Key switch		Continuity
Connector	Terminal	Connector	Terminal	
M65	37	M24	1	Exists

2. Check continuity between key switch and ground.

Key switch		Ground	Continuity
Connector	Terminal		
M24	1		Does not exist

Is the inspection result normal?

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

3.CHECK KEY SWITCH

Check key switch function.
Refer to DLK-348, "Component Inspection".

Is the inspection result normal?

yes >> GO TO 4.
NO >> Replace key cylinder assembly.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001729669

COMPONENT INSPECTION

1.CHECK KEY SWITCH

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

Terminal		Condition	Continuity
Key switch			
1	2	Insert mechanical key into key cylinder	Exists
		Remove mechanical key from key cylinder	Does not exist

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace key cylinder assembly.

KEY CYLINDER SWITCH

Description

INFOID:0000000001908113

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:0000000001908114

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check (“KEY CYL LK-SW”, “KEY CYL UN-SW”) in “DATA MONITOR” mode for “POWER DOOR LOCK SYSTEM” with CONSULT-III. Refer to DLK-328, "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?

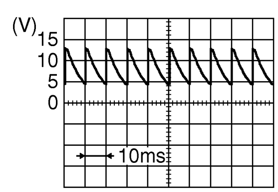
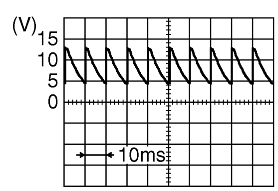
YES >> Key cylinder switch is OK.
NO >> Refer to DLK-349, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001908115

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+) Front door lock assembly (driver side) Connector	(+) Front door lock assembly (driver side) Terminal	(–)	Key position	Voltage (V) (Approx.)
D9	5	Ground	Unlock	0
			Neutral / Unlock	 JPMIA0587GB
	6		Lock	0
			Neutral / Lock	 JPMIA0587GB

Is the inspection result normal?

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

2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. 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	
M65	7	D9	5	Existed
	8		6	

4. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
connector	Terminal		
M65	7		Not existed
	8		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

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

4.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to DLK-350, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door lock assembly (driver side) (key cylinder switch). Refer to DLK-486, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001908116

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

Check front door lock assembly (driver side) (key cylinder switch).

Terminal	Key position	Continuity
Front door lock assembly (driver side) (key cylinder switch) connector		

5	4	Unlock	Existed
		Neutral / Lock	Not existed
6		Lock	Existed
		Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side) (key cylinder switch). Refer to DLK-486, "DOOR LOCK : Removal and Installation".

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000001910885

Receives key fob switch operation and transmits to BCM.

Component Function Check

INFOID:0000000001910886

1.CHECK FUNCTION

Check door lock and unlock operation with keyfob switch.

Is the inspection result normal?

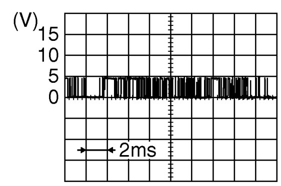
YES >> Remote keyless entry receiver is OK.
NO >> Refer to DLK-352, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001910887

1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

(+) Remote keyless entry receiver Connector	(+) Remote keyless entry receiver Terminal	(–)	Condition	Voltage (V) (Approx.)
M91	2	Ground	Ignition switch OFF and ON (All door closed)	 JPMIA0589GB **NOTE:** If a signal is received, the wave from changes.

Is the inspection result normal?

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

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

BCM Connector	BCM Terminal	Remote keyless entry receiver Connector	Remote keyless entry receiver Terminal	Continuity
M65	20	M91	2	Existed

3. Check continuity between BCM harness connector and ground.

BCM Connector	BCM Terminal	Ground	Continuity
M65	20		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M91	4	Ground	5

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 5.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M91	1		Existed

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to DLK-502, "Removal and Installation".
NO >> GO TO 6.

5. 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	
M65	19	M91	4	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M65	19		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

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	
M65	18	M91	1	Existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001729670

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000001729671

1.CHECK FUNCTION

With CONSULT-III

Check “DOOR LOCK/UNLOCK” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.
NO >> Refer to DLK-354, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001729672

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Front door lock assembly (driver side)				
Connector	Terminal			
D9	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)
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		Door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M67	65	D9	1	Exists
	59		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65		Does not exist
	59		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001729673

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000001729674

1.CHECK FUNCTION

With CONSULT-III
Check “DOOR LOCK/UNLOCK” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.
NO >> Refer to DLK-355, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001729675

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Front door lock actuator (passenger side)				
Connector	Terminal			
D48	2	Ground	Lock	0 → Battery voltage → 0
	1		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace front door lock actuator (passenger side)
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 actuator (passenger side) harness connector.

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65	Ground	Does not exist
	66		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:0000000001729676

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:0000000001729677

1.CHECK FUNCTION

With CONSULT-III
Check “DOOR LOCK/UNLOCK” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Rear door lock actuator LH is OK.
NO >> Refer to DLK-356, "REAR LH : Diagnosis Procedure".

REAR LH : Diagnosis Procedure

INFOID:0000000001729678

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Rear door lock actuator LH				
Connector	Terminal			
D85	1	Ground	Lock	0 → Battery voltage → 0
	2		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	
M67	65	D85	1	Exists
	66		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65	Ground	Does not exist
	66		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

REAR RH

REAR RH : Description

INFOID:0000000001729679

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:0000000001729680

1.CHECK FUNCTION

With CONSULT-III
Check “DOOR LOCK/UNLOCK” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Rear door lock actuator RH is OK.
NO >> Refer to DLK-357, "REAR RH : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

INFOID:0000000001729681

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition	Voltage (V) (Approx.)
Rrear door lock actuator RH				
Connector	Terminal			
D105	2	Ground	Lock	0 → Battery voltage → 0
	1		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace rear door lock actuator RH .
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M67	65	D105	2	Exists
	66		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	65	Ground	Does not exist
	66		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

BACK DOOR OPENER ACTUATOR

Description

INFOID:0000000003116690

Opens the back door with the signal from BCM.

Component Function Check

INFOID:0000000003116691

1. CHECK FUNCTION

With CONSULT-III
Check “TRUNK/BACK DOOR” in “Active Test” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Back door opener actuator is OK.
NO >> Refer to DLK-359, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003116692

1. CHECK BACK DOOR OPENER ACTUATOR INPUT 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.

(+)		(–)	Condition	Voltage (V) (Approx.)
Back door lock assembly				
Connector	Terminal			
D190	1	Ground	Back door opener switch: Pressed	0 → Battery voltage → 0

Is the inspection result normal?

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

2. CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

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

BCM		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M66	53	D190	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M66	53		Does not exist

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Repair or replace harness.

3. CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D190	2		Exists

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to DLK-498, "DOOR LOCK : Removal and Installation".
NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

Description

INFOID:0000000001729688

Sends the back door opening signal to BCM.

Component Function Check

INFOID:0000000001729689

1. CHECK FUNCTION

With CONSULT-III

Check “TRNK OPNR SW” in “Data Monitor” mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to DLK-361, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003116697

1. CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Back door opener switch assembly (opener switch)			
Connector	Terminal		
D186	1	Ground	0
			Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch assembly (opener switch)		Continuity
Connector	Terminal	Connector	Terminal	
M65	30	D186	1	Exists

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M65	30		Does not exist

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".

NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door opener switch assembly (opener switch)		Ground	Continuity
Connector	Terminal		
D186	2		Exists

Is the inspection result normal?

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

4.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).
Refer to DLK-362, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door opener switch assembly. Refer to DLK-500, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000003116698

1.CHECK BACK DOOR OPENER SWITCH

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

Back door opener switch assembly (opener switch)	Terminal		Back door opener switch condition	Continuity
D186	1	2	Pressed	Exists
			Released	Does not exist

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace back door opener switch assembly. Refer to DLK-500, "Removal and Installation".

HORN FUNCTION

Description

INFOID:0000000001911588

Perform answer-back for each operation with horn.

Component Function Check

INFOID:0000000001911589

1.CHECK FUNCTION

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

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

Is the operation normal?

YES >> INSPECTION END
NO >> Refer to DLK-363, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001911590

1.CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

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

2.CHECK HORN RELAY CIRCUIT

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

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

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E15	57		Not existed

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-28, "Removal and Installation".
NO >> Repair or replace harness.

HAZARD FUNCTION

Description

INFOID:0000000001911591

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

Component Function Check

INFOID:0000000001911592

1.CHECK FUNCTION

Check hazard warning lamp “FLASHER” in Active Test with CONSULT-III.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.
NO >> Refer to DLK-364, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001911593

1.CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-42, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace hazard warning switch circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

KEYFOB BATTERY

Description

INFOID:0000000001729701

Remote door lock and unlock control entry function available when operating on button.
- Door lock and unlock

Component Function Check

INFOID:0000000001729702

1.CHECK KEYFOB FUNCTION

Check door lock and unlock operation with keyfob switch.

Is the inspection result normal?

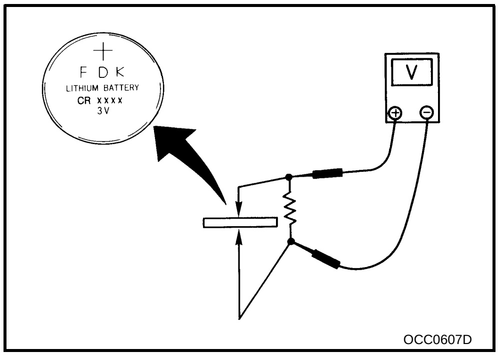
YES >> Keyfob is OK.
NO >> Refer to DLK-365, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001729703

1.CHECK KEYFOB BATTERY

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



Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> Replace keyfob.
NO >> Replace keyfob battery. Refer to DLK-501, "Exploded View".

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:0000000001873248

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:0000000001873249

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-366, "Diagnosis Procedure".

3.CHECK TRANSMITTER

Check transmitter with Tool*.
*:For details, refer to Technical Service Bulletin.

Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.
NO >> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to MIR-18, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000001873250

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.)
R9	10	Ground	Ignition switch position: LOCK	Battery voltage
	6		Ignition switch position: ON	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following.
- 10A fuse [No. 1 located in the fuse block (J/B)]
- 10A fuse [No. 8 located in the fuse block (J/B)]
- Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink universal transceiver).

2.CHECK GROUND CIRCUIT

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

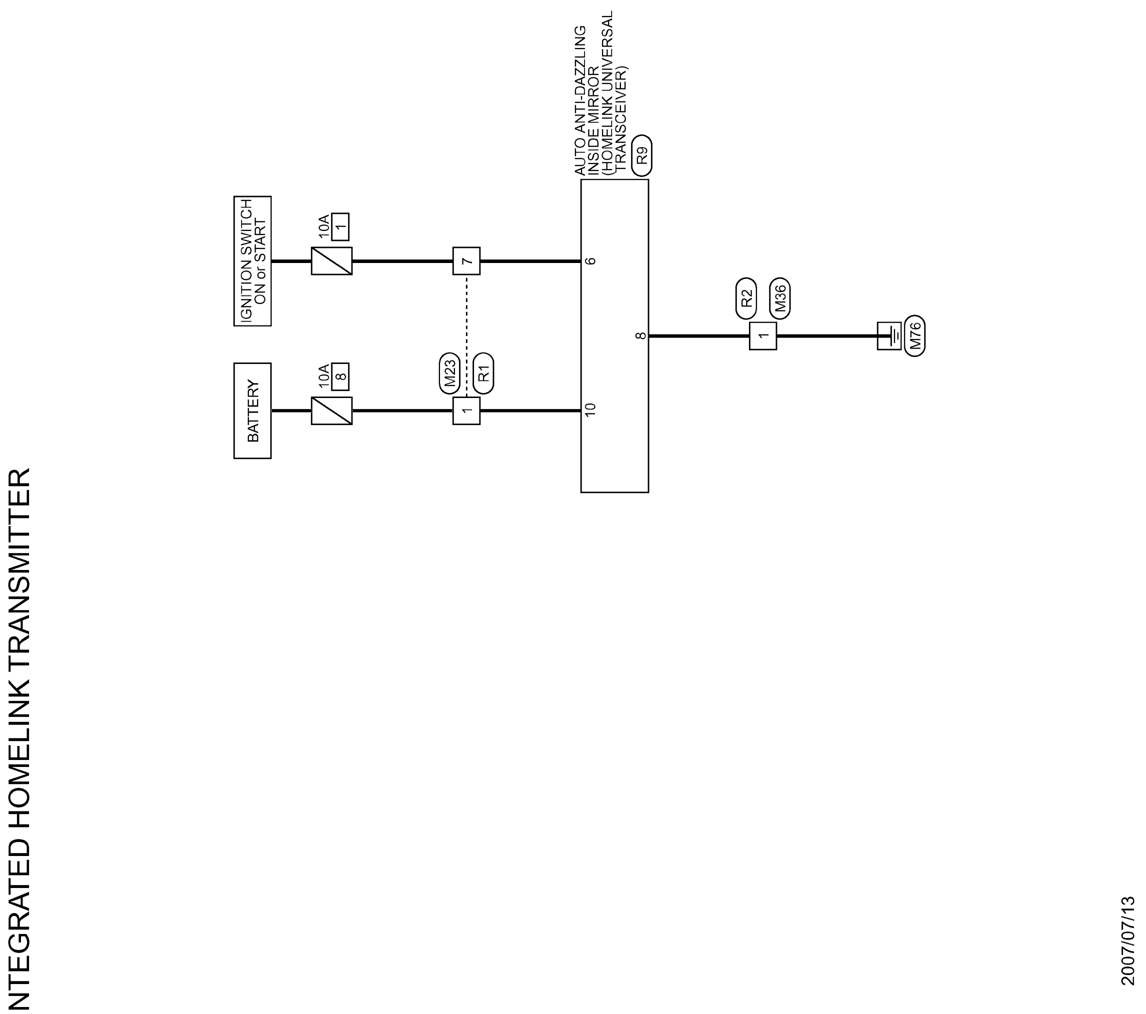
Auto anti-dazzling inside mirror (Homelink universal transceiver) connector	Terminal	Ground	Continuity
R9	8		Existed

Is the inspection result normal?

YES >> Replace auto anti-dazzling inside mirror.
NO >> Repair or replace harness.

INTEGRATED HOMELINK TRANSMITTER SYSTEM

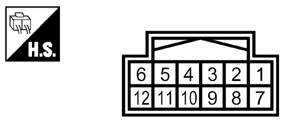
Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM - *INFOID:0000000003223025*



JCKWM0751GB

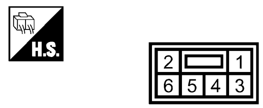
INTEGRATED HOMELINK TRANSMITTER

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



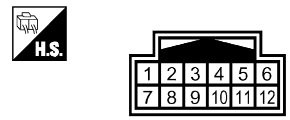
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
7	P	–

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	NS06FBR-CS



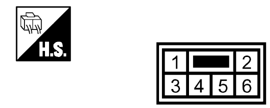
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



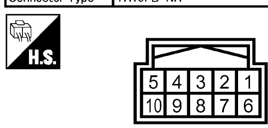
Terminal No.	Color of Wire	Signal Name [Specification]
1	B/Y	–
7	B/R	–

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	NS06MBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–

Connector No.	R9
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	B/R	–
8	B	–
10	B/Y	–

JCKWM0752GI

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000003122845

VALUES ON THE DIAGNOSIS TOOL

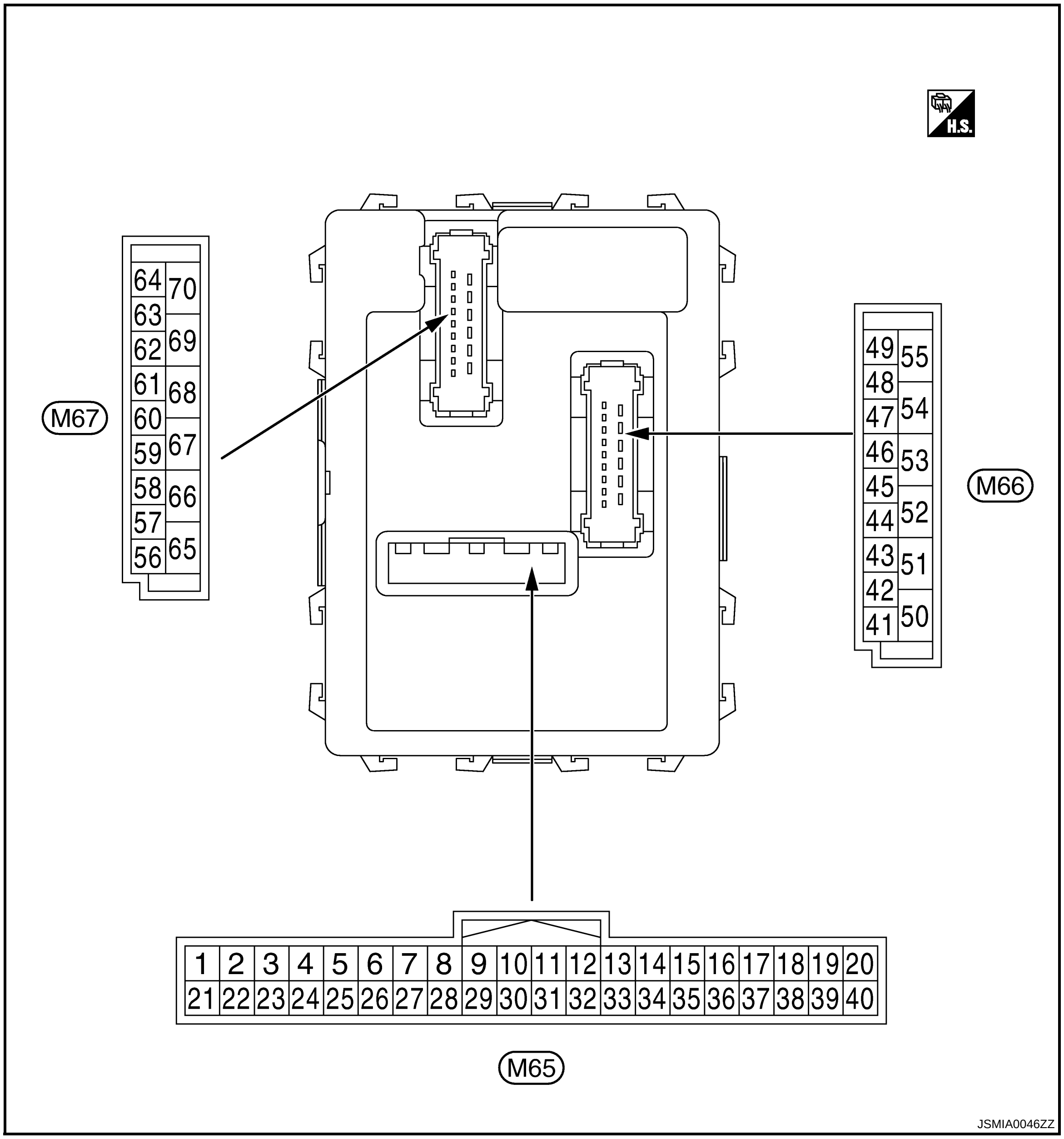
Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEYLESS LOCK	“LOCK” button of key fob is not pressed	Off
	“LOCK” button of key fob is pressed	On
KEYLESS UNLOCK	“UNLOCK” button of key fob is not pressed	Off
	“UNLOCK” button of key fob is pressed	On
I-KEY LOCK	“LOCK” button of Intelligent Key or door request switch are not pressed	Off
	“LOCK” button of Intelligent Key or door request switch are pressed	On
I-KEY UNLOCK	“UNLOCK” button of Intelligent Key or door request switch are not pressed	Off
	“UNLOCK” button of Intelligent Key or door request switch are pressed	On
ACC ON SW	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
LIGHT SW 1ST	Lighting switch OFF	Off
	Lighting switch 1ST	On

Monitor Item	Condition	Value/Status
BUCKLE SW	The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF]	Off
	The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON]	On
KEYLESS PANIC	PANIC button of key fob is not pressed	Off
	PANIC button of key fob is pressed	On
KEYLESS TRUNK	**NOTE:** The item is indicated, but not monitored.	Off
TRNK OPN MNTR	**NOTE:** The item is indicated, but not monitored.	Off
RKE LCK-UNLCK	LOCK/UNLOCK button of key fob is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of key fob is pressed and held simultaneously	On
RKE KEEP UNLK	UNLOCK button of key fob is not pressed	Off
	UNLOCK button of key fob is pressed and held	On
HI BEAM SW	Lighting switch OFF	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
AUTO LIGHT SW	**NOTE:** The item is indicated, but not monitored.	Off
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	**NOTE:** The item is indicated, but not monitored.	Off
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
ENGINE RUN	Engine stopped	Off
	Engine running	On
PKB SW	Parking brake switch is OFF	Off
	Parking brake switch is ON	On
CARGO LAMP SW	**NOTE:** The item is indicated, but not monitored.	Off
OPTICAL SENSOR	**NOTE:** The item is indicated, but not monitored.	0 V
IGN SW CAN	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
FR WIPER HI	Front wiper switch OFF	Off
	Front wiper switch HI	On
FR WIPER LOW	Front wiper switch OFF	Off
	Front wiper switch LO	On

Monitor Item	Condition	Value/Status
FR WIPER INT	Front wiper switch OFF	Off
	Front wiper switch INT	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper stop position	Off
	Other than rear wiper stop position	On
RR WIPER STP2	**NOTE:** The item is indicated, but not monitored.	Off
H/L WASH SW	**NOTE:** The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
I-KEY TRUNK	**NOTE:** The item is indicated, but not monitored.	Off
I-KEY PW DWN	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed and held	On
I-KEY PANIC	PANIC button of Intelligent Key is not pressed	Off
	PANIC button of Intelligent Key is pressed	On
PUSH SW	Return to ignition switch to “LOCK” position	Off
	Press ignition switch	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
	When back door opener switch is pressed	On
TRUNK CYL SW	**NOTE:** The item is indicated, but not monitored.	Off
HOOD SW	Close the hood **NOTE:** Vehicles of except for Mexico are OFF-fixed	Off
	Open the hood	On

Monitor Item	Condition	Value/Status
OIL PRESS SW	• Ignition switch OFF or ACC • Engine running	Off
	Ignition switch ON	On
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT

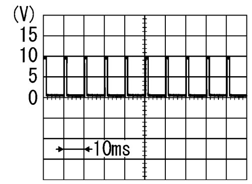
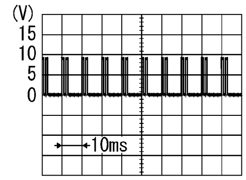
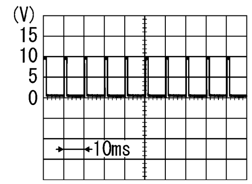
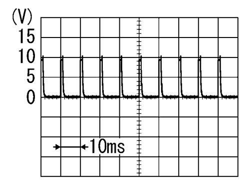
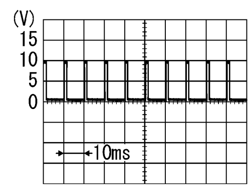


PHYSICAL VALUES

CAUTION:

- **Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.**
- **Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to** **BCS-26, "COMB SW : CONSULT-III Function (BCM - COMB SW)"****.**
- **BCM reads the status of the combination switch at 10 ms internal normally. Refer to** **BCS-9, "System Diagram"****.**

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (V)	Ground	Ignition key hole illumination control	Output	Ignition key hole illumination	OFF	Battery voltage
					ON	0 V

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
2 (G)	Ground	Combination switch INPUT 5	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Turn signal switch RH	 PKIB4959J 1.0 V
					Lighting switch HI	
					Lighting switch 1ST	
					Lighting switch 2ND	 PKIB4953J 2.0 V
3 (Y)	Ground	Combination switch INPUT 4	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Turn signal switch LH	 PKIB4959J 1.0 V
					Lighting switch PASS	
					Lighting switch 2ND	
					Front fog lamp switch ON	 PKIB4955J 0.8 V
4 (W)	Ground	Combination switch INPUT 3	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Front wiper switch LO	 PKIB4959J 1.0 V
					Front wiper switch MIST	
					Front wiper switch INT	

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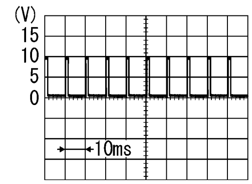
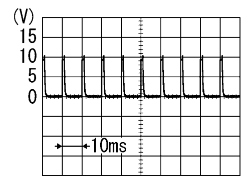
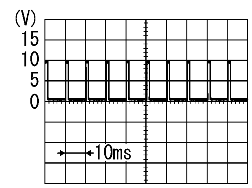
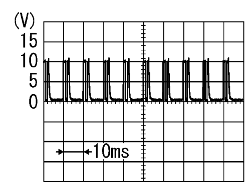
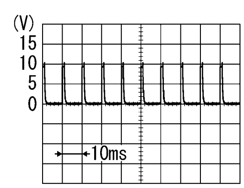
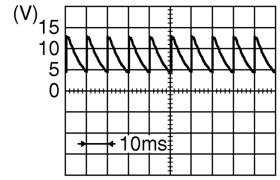
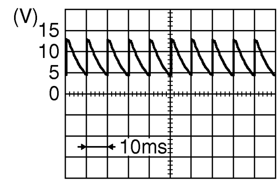
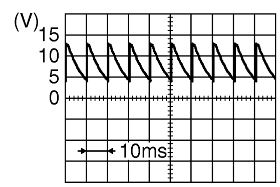
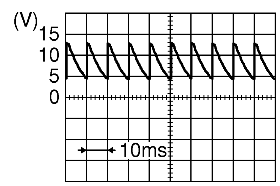
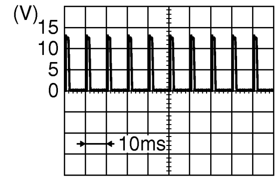
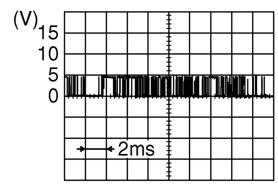
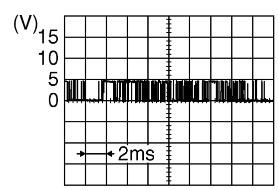
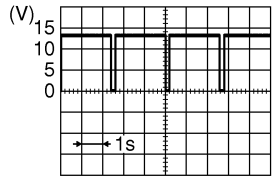
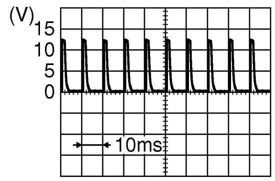
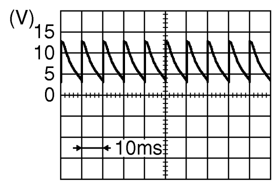
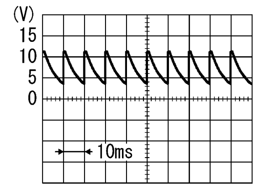
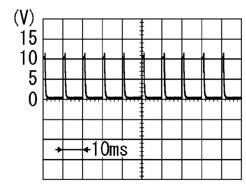
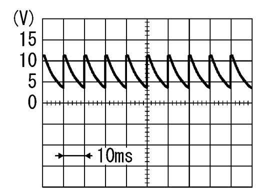
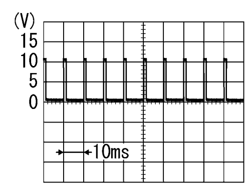
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
5 (R)	Ground	Combination switch INPUT 2	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch (Wiper intermittent dial 4)	 PKIB4959J 1.0 V
					Rear washer ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	
					Rear wiper switch ON (Wiper intermittent dial 4)	 PKIB4955J 0.8 V
6 (P)	Ground	Combination switch INPUT 1	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	 PKIB4959J 1.0 V
					Rear wiper switch INT (Wiper intermittent dial 4)	
					Wiper intermittent dial 3 (All switch OFF)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	 PKIB4952J 1.7 V
					Any of the condition below with all switch OFF • Wiper intermittent dial 6 • Wiper intermittent dial 7	 PKIB4955J 0.8 V

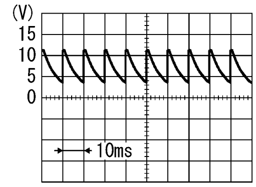
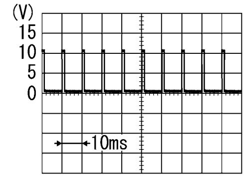
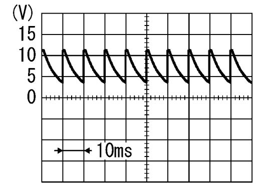
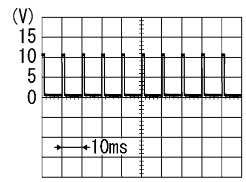
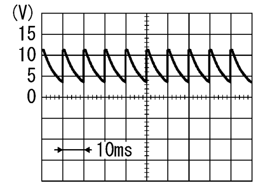
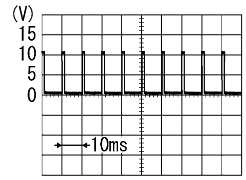
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
7 (L)	Ground	Door key cylinder switch UNLOCK signal	Input	Door key cylinder switch	NEUTRAL position	 JPMIA0587GB 8.0 - 8.5 V
					UNLOCK position	0 V
8 (R)	Ground	Door key cylinder switch LOCK signal	Input	Door key cylinder switch	NEUTRAL position	 JPMIA0587GB 8.0 - 8.5 V
					LOCK position	0 V
9 (R)	Ground	Stop lamp switch	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
10 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	Battery voltage
					Pressed	0 V
11 (SB)	Ground	Ignition switch ACC	Input	Ignition switch OFF		0 V
				Ignition switch ACC or ON		Battery voltage
12 (P)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 JPMIA0586GB 7.5 - 8.0 V
					ON (When passenger door opened)	0 V
13 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 JPMIA0587GB 8.0 - 8.5 V
					ON (When rear door RH opened)	0 V

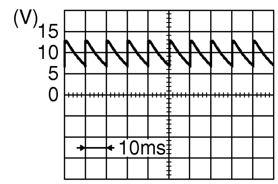
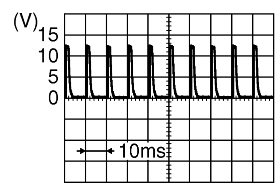
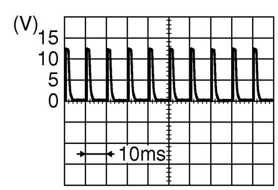
A B C D E F G H I J DLK L M N O P

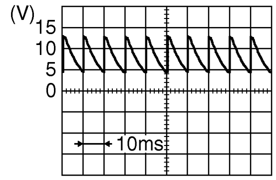
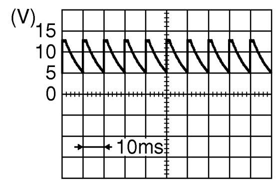
<table>
<tr><th colspan="2">Terminal No. (Wire color)</th><th colspan="2">Description</th><th colspan="2" rowspan="2">Condition</th><th rowspan="2">Value (Approx.)</th></tr>
<tr><th>+</th><th>–</th><th>Signal name</th><th>Input/ Output</th></tr>
<tr><td>15*1 (O)</td><td>Ground</td><td>TPMS mode trigger switch</td><td>Input</td><td colspan="2">Ignition switch OFF</td><td>
JPMIA0588GB
1.5 V</td></tr>
<tr><td>18*1 (O)</td><td>Ground</td><td>Remote keyless entry receiver ground</td><td>Input</td><td colspan="2">Ignition switch ON</td><td>0 V</td></tr>
<tr><td rowspan="3">19*1 (V)</td><td rowspan="3">Ground</td><td rowspan="3">Remote keyless entry receiver power supply</td><td rowspan="3">Input</td><td>Without Intelligent Key system</td><td>At any condition</td><td>5 V</td></tr>
<tr><td rowspan="2">With Intelligent Key system</td><td>• Ignition switch OFF
• For 3 seconds after ignition switch OFF to ON</td><td>0 V</td></tr>
<tr><td>3 seconds or later after ignition switch OFF to ON</td><td>5 V</td></tr>
<tr><td rowspan="3">20*1 (GR)</td><td rowspan="3">Ground</td><td rowspan="3">Remote keyless entry receiver signal</td><td rowspan="3">Input</td><td>Without Intelligent Key system</td><td>At any condition</td><td>
JPMIA0589GB
NOTE:
The wave form changes according to signal-receiving condition.</td></tr>
<tr><td rowspan="2">With Intelligent Key system</td><td>• Ignition switch OFF
• For 3 seconds after ignition switch OFF to ON</td><td>0 V</td></tr>
<tr><td>3 seconds or later after ignition switch OFF to ON</td><td>
JPMIA0589GB
NOTE:
The wave form changes according to signal-receiving condition.</td></tr>
<tr><td>21 (G)</td><td>Ground</td><td>Immobilizer antenna signal (Clock)</td><td>Input/ Output</td><td colspan="2">Ignition switch OFF</td><td>Battery voltage</td></tr>
</table>

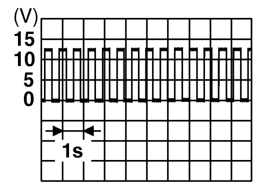
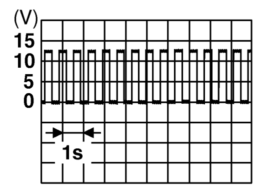
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
23 (B)	Ground	Security indicator signal	Input	Security indicator	ON	0 V
					Blinking (Ignition switch OFF)	 JPMIA0590GB 12.0 V
					OFF	Battery voltage
25 (BR)	Ground	Immobilizer antenna signal (Rx, Tx)	Input/Output	Ignition switch OFF		Battery voltage
27 (Y)	Ground	A/C switch	Input	Ignition switch OFF		
				Ignition switch ON	A/C switch OFF	 JPMIA0591GB 1.6 V
					A/C switch ON	0 V
28 (LG)	Ground	Blower fan switch	Input	Ignition switch OFF		
				Ignition switch ON	Blower fan switch OFF	 JPMIA0592GB 7.0 - 7.5 V
					Blower fan switch ON	0 V
29 (W)	Ground	Hazard switch	Input	Hazard switch	OFF	Battery voltage
					ON	0 V
30 (G)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	Battery voltage
					Pressed	0 V

<table>
<tr><th colspan="2">Terminal No. (Wire color)</th><th colspan="2">Description</th><th colspan="2" rowspan="2">Condition</th><th rowspan="2">Value (Approx.)</th></tr>
<tr><th>+</th><th>–</th><th>Signal name</th><th>Input/ Output</th></tr>
<tr><td rowspan="4">32
(BR)</td><td rowspan="4">Ground</td><td rowspan="4">Combination switch OUTPUT 5</td><td rowspan="4">Output</td><td rowspan="4">Combination switch</td><td>All switch OFF
(Wiper intermittent dial 4)</td><td>
PKIB4960J
7.2 V</td></tr>
<tr><td>Front fog lamp switch ON
(Wiper intermittent dial 4)</td><td rowspan="3">
PKIB4956J
1.0 V</td></tr>
<tr><td>Rear wiper switch ON
(Wiper intermittent dial 4)</td></tr>
<tr><td>Any of the condition below with all switch OFF
• Wiper intermittent dial 1
• Wiper intermittent dial 2
• Wiper intermittent dial 6
• Wiper intermittent dial 7</td></tr>
<tr><td rowspan="4">33
(GR)</td><td rowspan="4">Ground</td><td rowspan="4">Combination switch OUTPUT 4</td><td rowspan="4">Output</td><td rowspan="4">Combination switch</td><td>All switch OFF
(Wiper intermittent dial 4)</td><td>
PKIB4960J
7.2 V</td></tr>
<tr><td>Lighting switch 1ST
(Wiper intermittent dial 4)</td><td rowspan="3">
PKIB4958J
1.2 V</td></tr>
<tr><td>Rear wiper switch INT
(Wiper intermittent dial 4)</td></tr>
<tr><td>Any of the condition below with all switch OFF
• Wiper intermittent dial 1
• Wiper intermittent dial 5
• Wiper intermittent dial 6</td></tr>
</table>

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
34 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	 PKIB4960J 7.2 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 PKIB4958J 1.2 V
					Lighting switch HI (Wiper intermittent dial 4)	
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	
35 (B)	Ground	Combination switch OUTPUT 2	Output	Combination switch (Wiper intermit-tent dial 4)	All switch OFF	 PKIB4960J 7.2 V
					Lighting switch 2ND	 PKIB4958J 1.2 V
					Lighting switch PASS	
					Front wiper switch INT	
					Front wiper switch HI	
36 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch (Wiper intermit-tent dial 4)	All switch OFF	 PKIB4960J 7.2 V
					Turn signal switch RH	 PKIB4958J 1.2 V
					Turn signal switch LH	
					Front wiper switch LO (Front wiper switch MIST)	
					Front washer switch ON	

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/Output	Condition		Value (Approx.)
37 (LG)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder		Battery voltage
				Remove mechanical key from ignition key cylinder		0 V
38 (G)	Ground	Ignition switch ON	Input	Ignition switch OFF or ACC		0 V
				Ignition switch ON or START		Battery voltage
39 (L)	Ground	CAN-H	Input/Output	—		—
40 (P)	Ground	CAN-L	Input/Output	—		—
43 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	 JPMIA0593GB 9.5 - 10.0 V
					ON (When back door opened)	0 V
44 (B)	Ground	Rear wiper auto stop	Input	Ignition switch ON	Rear wiper stop position	0 V
					Any position other than rear wiper stop position	Battery voltage
45 (P)	Ground	Door lock and unlock switch LOCK signal	Input	Door lock and unlock switch	NEUTRAL position	 JPMIA0591GB 1.6 V
					LOCK position	0 V
46 (BR)	Ground	Door lock and unlock switch UNLOCK signal	Input	Door lock and unlock switch	NEUTRAL position	 JPMIA0591GB 1.6 V
					UNLOCK position	0 V

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
47 (W)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 JPMIA0587GB 8.0 - 8.5 V
					ON (When driver door opened)	0 V
48 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	 JPMIA0594GB 8.5 - 9.0 V
					ON (When rear door LH opened)	0 V
49 (L)	Ground	Back door lamp control	Output	Back door lamp switch DOOR position	Back door is closed (Back door lamp turns OFF)	Battery voltage
					Back door is opened (Back door lamp turns ON)	0 V
53 (V)	Ground	Back door open	Output	Back door opener switch	Not pressed (Back door actuator is activated)	0 V
					Pressed (Back door actuator is activated)	Battery voltage
55 (SB)	Ground	Rear wiper motor	Output	Ignition switch ON	Rear wiper switch OFF	0 V
					Rear wiper switch ON	Battery voltage
56 (Y)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0 V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
57 (G)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
59 (L)	Ground	Driver door UNLOCK	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
					Other then UNLOCK (Actuator is not activated)	0 V

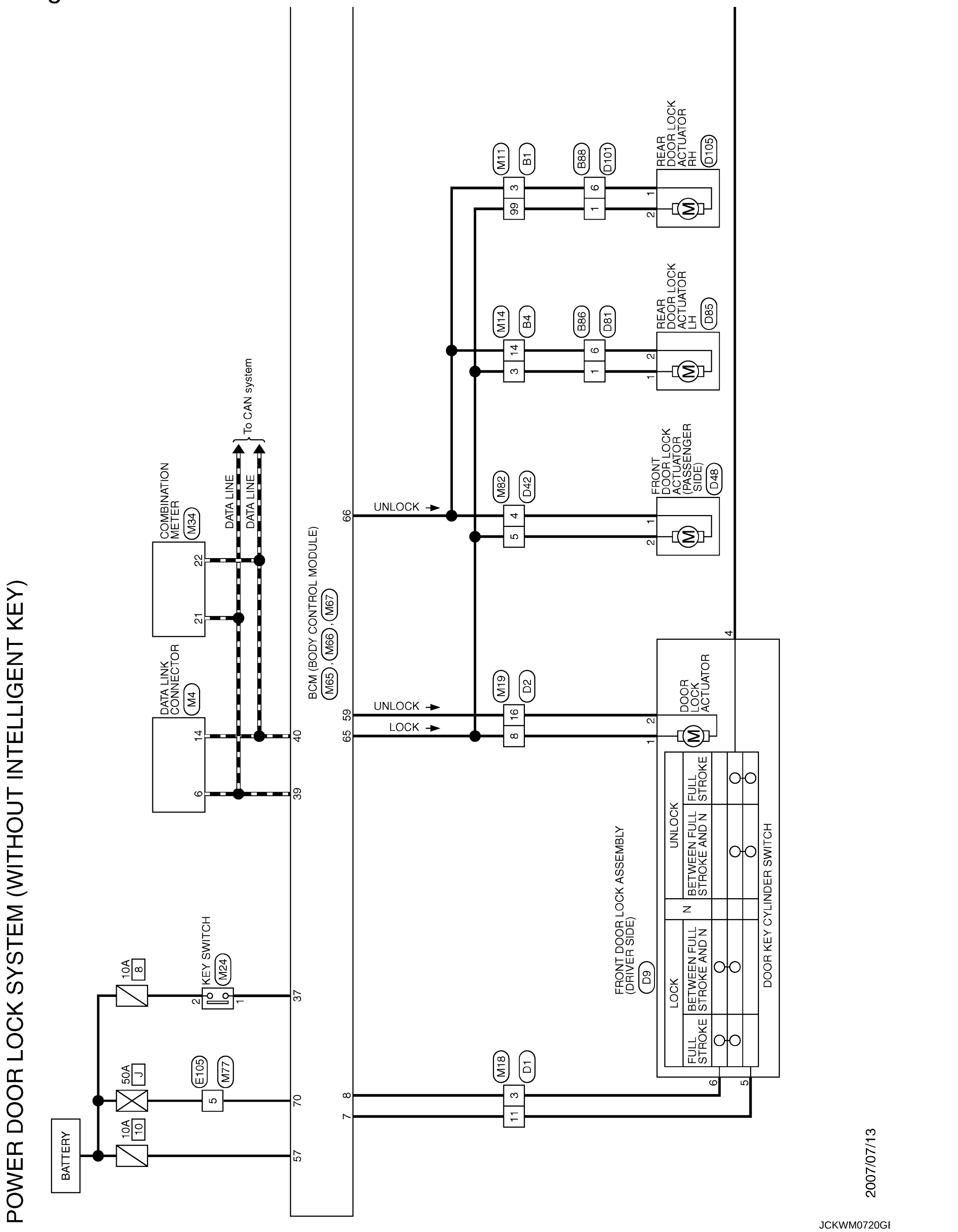
Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
60 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKIC6370E 6.0 V
61 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKIC6370E 6.0 V
63 (R)	Ground	Interior room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
65 (V)	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
					Other then LOCK (Actuator is not activated)	0 V
66 (G)	Ground	Passenger door and rear door UNLOCK	Output	Passenger door and rear door	UNLOCK (Actuator is activated)	Battery voltage
					Other then UNLOCK (Actuator is not activated)	0 V
67 (B)	Ground	Ground	Output	Ignition switch ON		0 V
68 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
69 (R)*2 (P)*3	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
70 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage

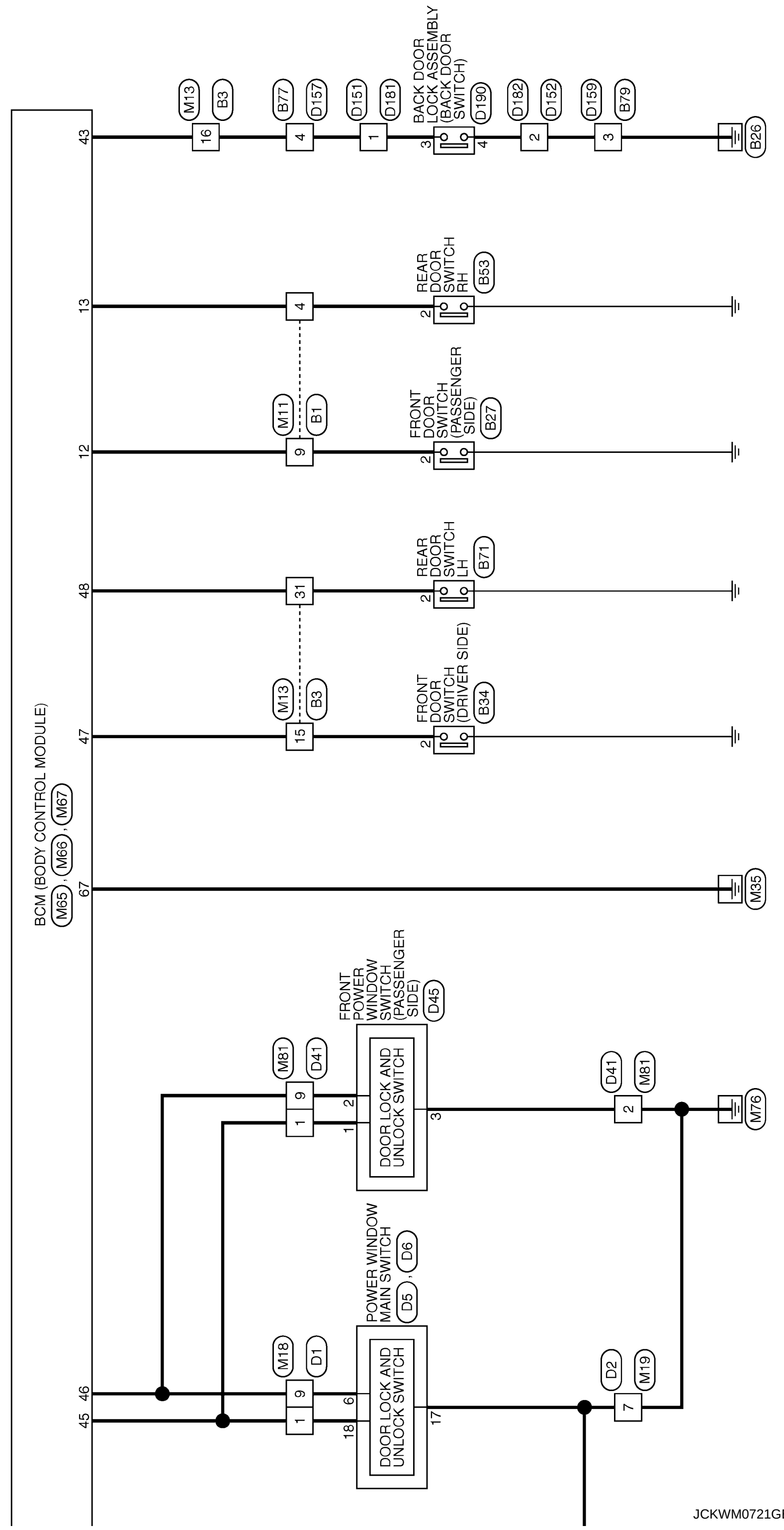
NOTE:

- *1: Except for Mexico
- *2: Without anti-pinch system
- *3: With anti-pinch system

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

INFOID:0000000001729705



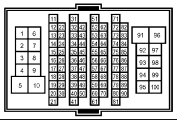


BCM (BODY CONTROL MODULE)
M65 . M66 . M67
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH)
D190
REAR DOOR SWITCH RH
B53
FRONT DOOR SWITCH (PASSENGER SIDE)
B27
REAR DOOR SWITCH LH
B71
FRONT DOOR SWITCH (DRIVER SIDE)
B34
FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
D45
POWER WINDOW MAIN SWITCH
D5 . D6
DOOR LOCK AND UNLOCK SWITCH
DOOR LOCK AND UNLOCK SWITCH
M13
B3
B77
D157
D151
D181
D182
D152
D159
B79
B26
M11
B1
M35
M81
D41
M76
M18
D1
D2
M19
JCKWM0721GB

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

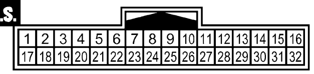
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

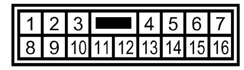
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	–
16	W	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

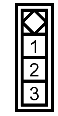
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

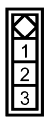
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

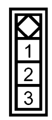
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

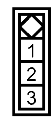
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW

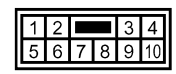
H.S.



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

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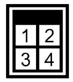
A B C D E F G H I J DLK L M N O P

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

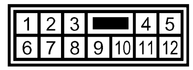
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

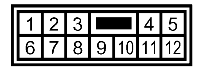
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

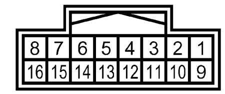
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

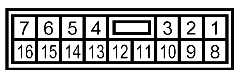
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	W	–
9	BR	–
11	L	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

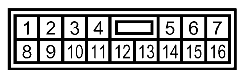
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS

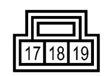
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	–

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

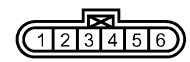
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	–
18	P	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
4	B	–
5	L	–
6	W	–

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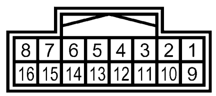
POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

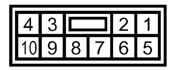
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	B	–
9	BR	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

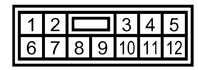
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS

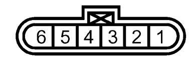
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	BR	–
3	B	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS

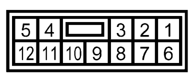
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

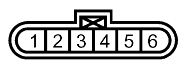
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS

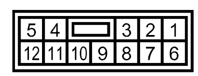
H.S.



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

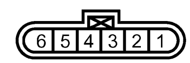
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS

H.S.



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

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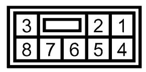
POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

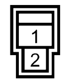
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

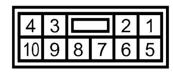
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

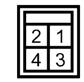
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

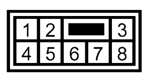
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

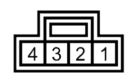
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

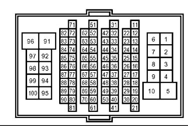
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

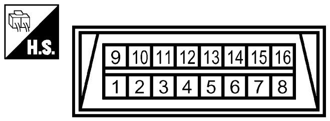


Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0725GB

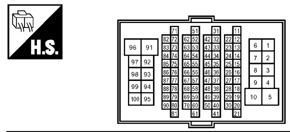
POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



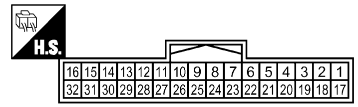
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



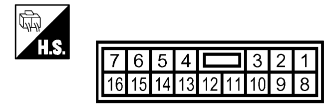
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



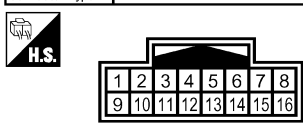
Terminal No.	Color of Wire	Signal Name [Specification]
15	W	–
16	V	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



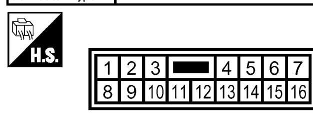
Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



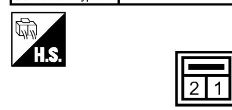
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	R	–
9	BR	–
11	L	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



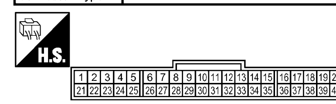
Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	GR	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

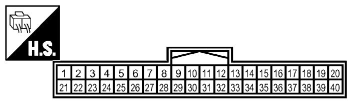


Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

JCKWM0726GI

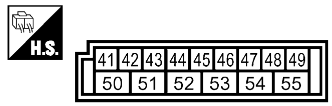
POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW



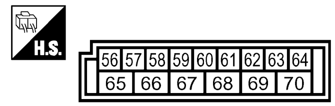
Terminal No.	Color of Wire	Signal Name [Specification]
7	L	KEY CYC UNLOCK
8	R	KEY CYL LOCK SW
12	P	DR SW AS
13	LG	DR SW RR
37	LG	KEY SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



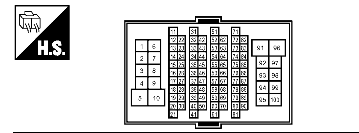
Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
45	P	CDLLOCKSW
46	BR	CDLUNLOCKSW
47	W	DR SW DR
48	GR	DR SW RL

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA



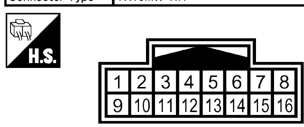
Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
59	L	D/L UNLOCK DR
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



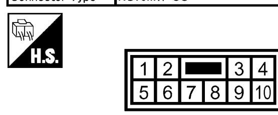
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
9	O	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

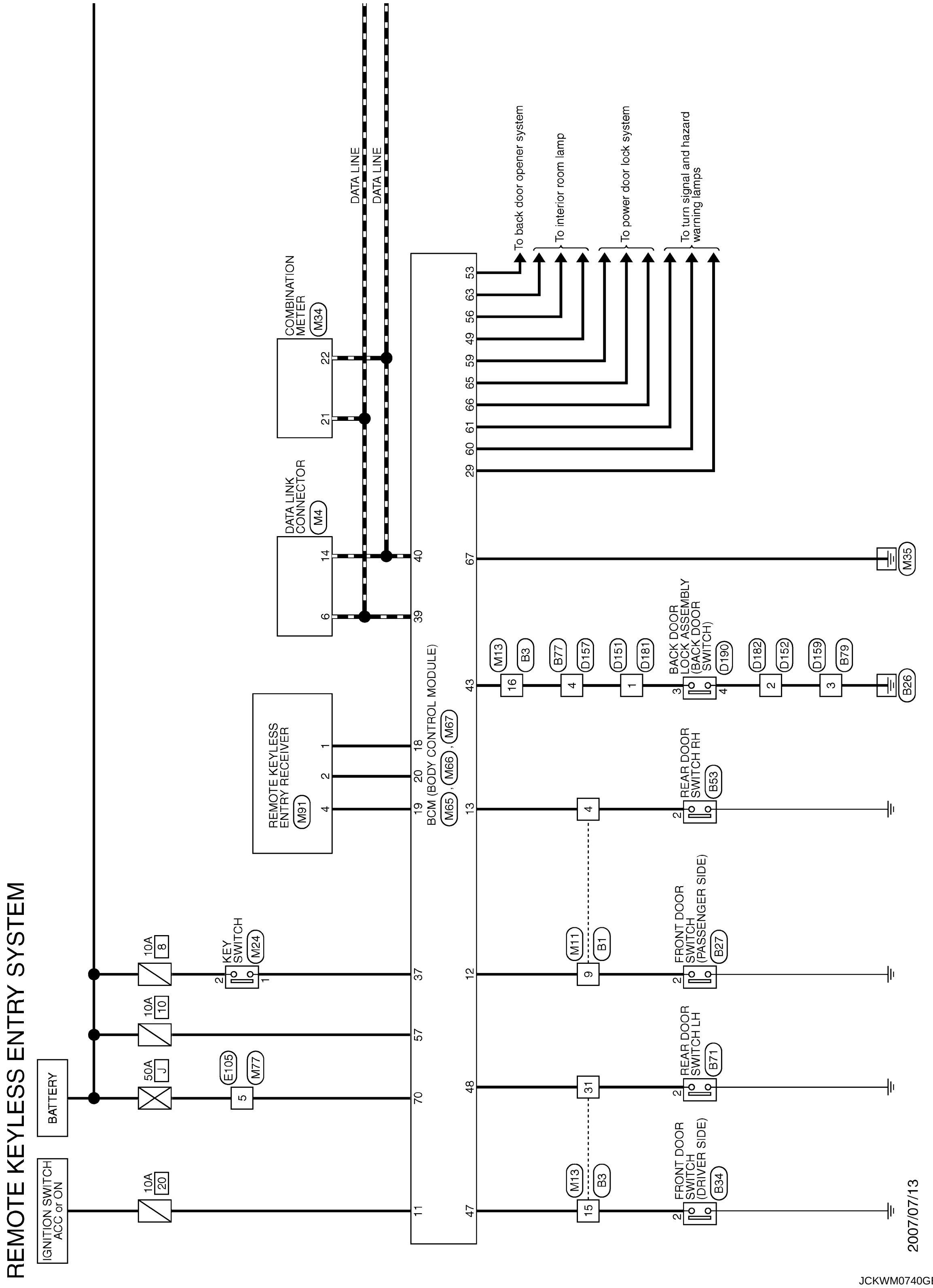


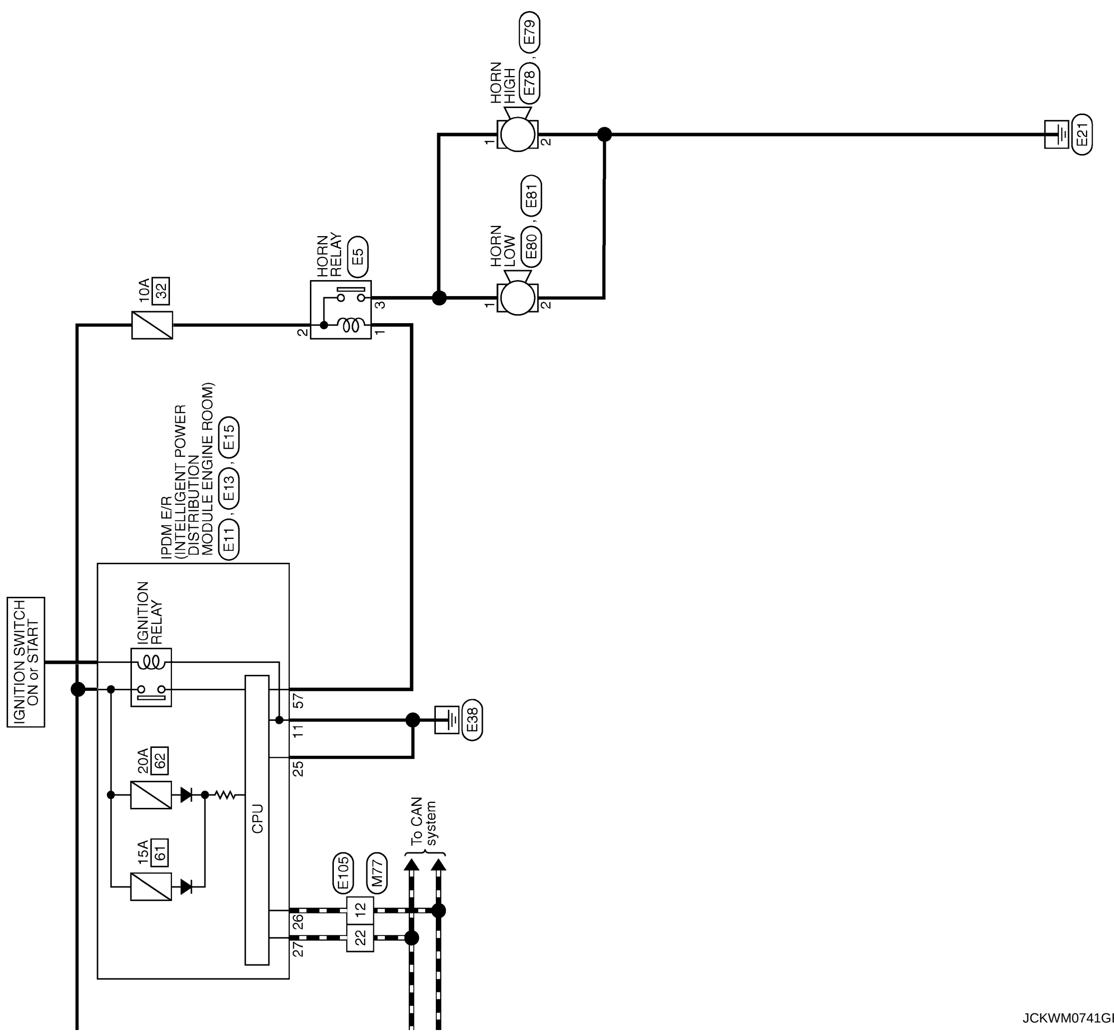
Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

JCKWM0727GI

Wiring Diagram - REMOTE KEYLESS ENTRY CONTROL SYSTEM -

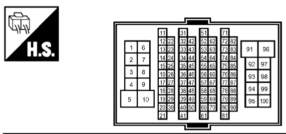
INFOID:0000000001729706




HORN HIGH
E78 , E79
E21
HORN LOW
E80 , E81
HORN RELAY
E5
10A
32
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E11 , E13 , E15
IGNITION SWITCH ON or START
IGNITION RELAY
20A
62
15A
61
CPU
57
11
25
26
27
E38
To CAN system
E105
M77
12
22
JCKWM0741GB

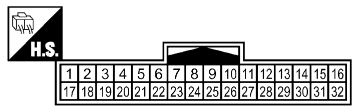
REMOTE KEYLESS ENTRY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
4	L	–
9	BR	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	–
16	W	–
31	GR	–

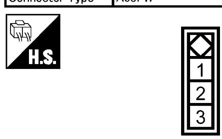
Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

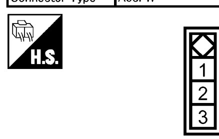
Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



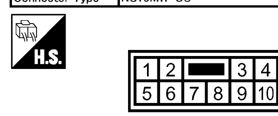
Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



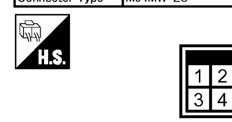
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC



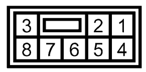
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

JCKWM0742GI

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

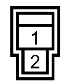
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

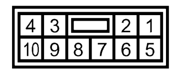
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

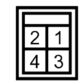
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

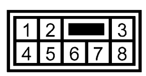
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

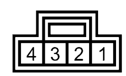
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

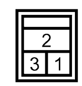
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	B	–

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	–

H.S.



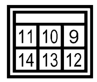
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	P	–
3	G	–

JCKWM0743GI

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

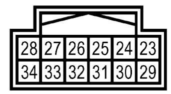
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH

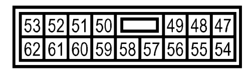
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
25	B	–
26	P	–
27	L	–

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
57	V	–

Connector No.	E78
Connector Name	HORN HIGH
Connector Type	P01FB-A

H.S.

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

Connector No.	E79
Connector Name	HORN HIGH
Connector Type	P01FB-A

H.S.

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

Connector No.	E80
Connector Name	HORN LOW
Connector Type	P01FB-A

H.S.

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

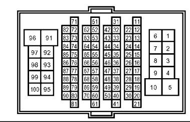
Connector No.	E81
Connector Name	HORN LOW
Connector Type	P01FB-A

H.S.

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
12	P	–
22	L	–

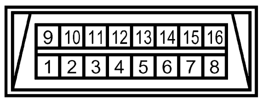
JCKWM0744GI

A B C D E F G H I J DLK L M N O P

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

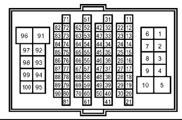
H.S.



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

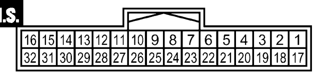
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	–
9	P	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

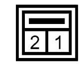
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	W	–
16	V	–
31	GR	–

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P

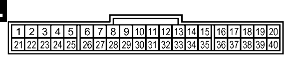
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	GR	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

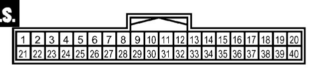
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

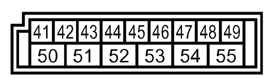
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	SB	ACC
12	P	DR SW AS
13	LG	DR SW RR
18	O	KEYLESS TUNER SENS GND
19	V	KEYLESS TUNER POWER
20	GR	KEYLESS TUNER SIGNAL
29	W	HAZARD SW
37	LG	KEY SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

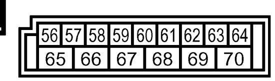
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
47	W	DR SW DR
48	GR	DR SW RL
49	L	LUGGAGE LAMP OUTPUT
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

H.S.



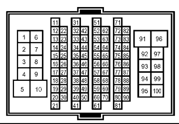
Terminal No.	Color of Wire	Signal Name [Specification]
56	Y	BATTERYSAVEROUTPUT
57	G	BAT FUSE
59	L	D/L UNLOCK DR
60	BR	FLASHER OUT PUT (LEFT)
61	GR	FLASHER OUT PUT (RIGHT)
63	R	ROOMLAMPOUTPUT
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

JCKWM0745GI

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

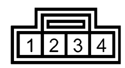
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
12	P	–
22	L	–

Connector No.	M91
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TK04FW

H.S.

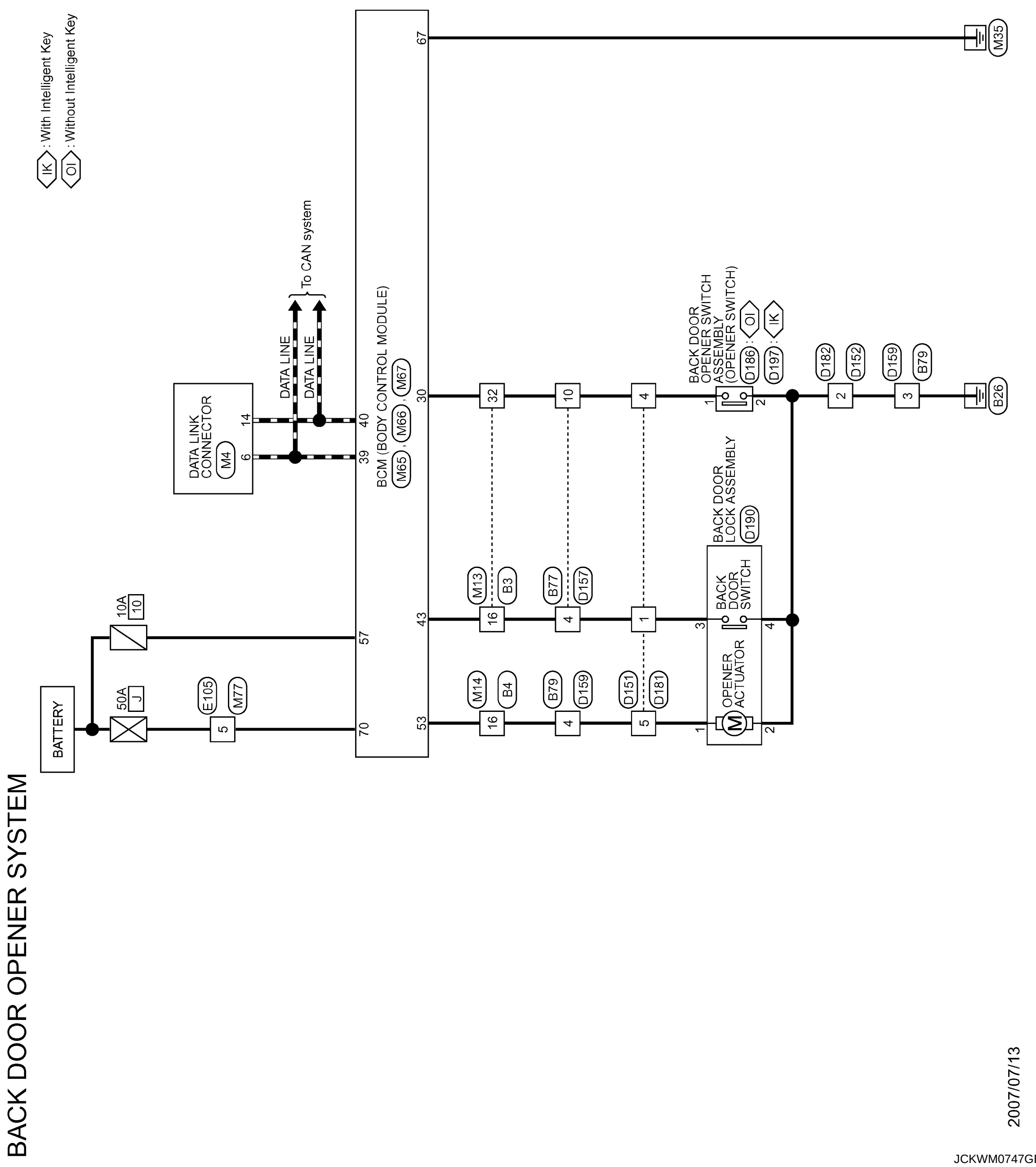


Terminal No.	Color of Wire	Signal Name [Specification]
1	O	GND
2	GR	SIGNAL
4	V	POWER

JCKWM0746GI

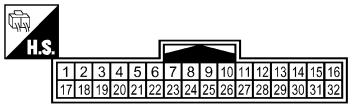
Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:0000000003223021



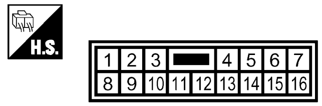
BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



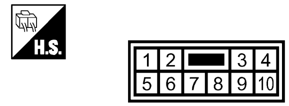
Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–
32	LG	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

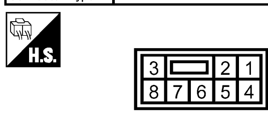


Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

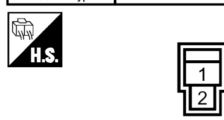
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



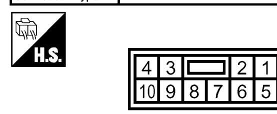
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC



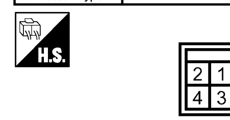
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC



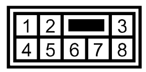
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

JCKWM0748GB

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

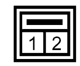
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK02MBR-P

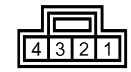
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

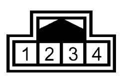
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH

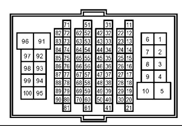
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

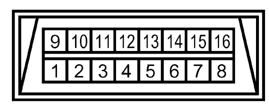
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

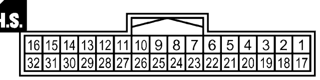
H.S.



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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

H.S.

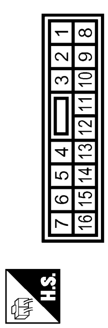


Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–
32	G	–

JCKWM0749GB

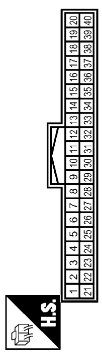
BACK DOOR OPENER SYSTEM

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



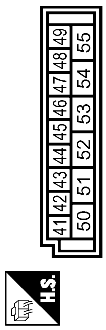
Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW



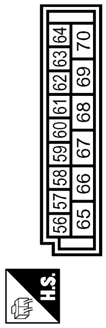
Terminal No.	Color of Wire	Signal Name [Specification]
30	G	BACK DOOR OPEN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



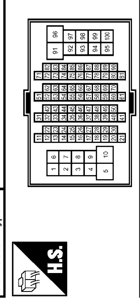
Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA



Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0750GB

Fail Safe

INFOID:0000000003122847

REAR WIPER MOTOR PROTECTION

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

Condition of cancellation

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

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.

DTC Inspection Priority Chart

INFOID:0000000003122848

Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	C1735: IGN CIRCUIT OPEN
3	• C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESS DATA ERR] FL • C1717: [PRESS DATA ERR] FR • C1718: [PRESS DATA ERR] RR • C1719: [PRESS DATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1729: VHCL SPEED SIG ERR

DTC Index

INFOID:0000000003122849

NOTE:

Details of time display

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

DTC	Tire pressure monitor warning lamp ON	Reference
U1000: CAN COMM CIRCUIT	—	BCS-35
C1704: LOW PRESSURE FL	×	WT-14
C1705: LOW PRESSURE FR	×	
C1706: LOW PRESSURE RR	×	
C1707: LOW PRESSURE RL	×	

DTC	Tire pressure monitor warning lamp ON	Reference
C1708: [NO DATA] FL	×	WT-16
C1709: [NO DATA] FR	×	
C1710: [NO DATA] RR	×	
C1711: [NO DATA] RL	×	
C1712: [CHECKSUM ERR] FL	×	WT-19
C1713: [CHECKSUM ERR] FR	×	
C1714: [CHECKSUM ERR] RR	×	
C1715: [CHECKSUM ERR] RL	×	
C1716: [PRESS DATA ERR] FL	×	WT-22
C1717: [PRESS DATA ERR] FR	×	
C1718: [PRESS DATA ERR] RR	×	
C1719: [PRESS DATA ERR] RL	×	
C1720: [CODE ERR] FL	×	WT-24
C1721: [CODE ERR] FR	×	
C1722: [CODE ERR] RR	×	
C1723: [CODE ERR] RL	×	
C1724: [BATT VOLT LOW] FL	—	WT-27
C1725: [BATT VOLT LOW] FR	—	
C1726: [BATT VOLT LOW] RR	—	
C1727: [BATT VOLT LOW] RL	—	
C1729: VHCL SPEED SIG ERR	×	WT-30
C1735: IGN CIRCUIT OPEN	—	BCS-36

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

Reference Value

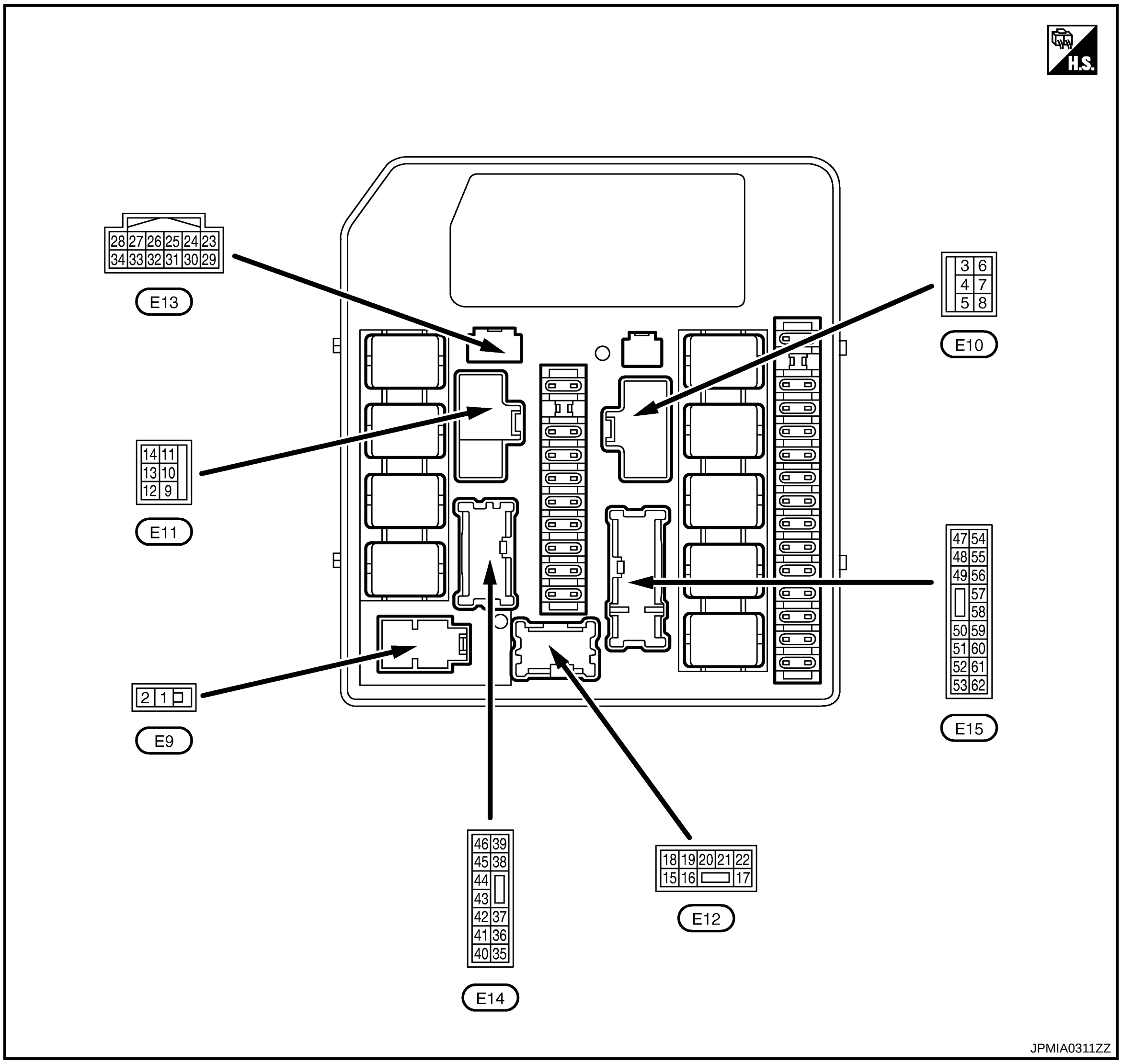
INFOID:0000000003122838

VALUES ON THE DIAGNOSIS TOOL

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

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

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	–	Signal name	Input/ Output		
1 (R)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (G)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
3 (O)	Ground	Starter relay power supply	Output	When engine is clanking		Battery voltage
				When engine is not clanking		0 V
4 (W)	Ground	Cooling fan relay-1 power supply	Output	Cooling fan operation	OFF	0 V
					MID or HI	Battery voltage
5 (R)	Ground	Ignition switch START	Input	Ignition switch OFF, ACC or ON		0 V
				Ignition switch START		Battery voltage
6 (BR)	Ground	Battery power supply (Cooling fan relay)	Input	Ignition switch OFF		Battery voltage
7 (P)	Ground	Cooling fan motor-2 (HI) ground	—	Cooling fan operation	OFF	Battery voltage
					HI	0 V
8 (G)	Ground	Cooling fan relay-2 power supply	Output	Cooling fan operation	OFF	0 V
					HI	Battery voltage
11 (B)	Ground	Ground	—	Ignition switch ON		0 V
12 (O)	Ground	Rear window defogger relay power supply	Output	Ignition switch ON	Rear window defogger switch OFF	0 V
					Rear window defogger switch ON	Battery voltage
15*1 (SB)	Ground	Daytime running light relay control	Output	Daytime running light system	Not operated	Battery voltage
					Operated	0 V
16*2 (Y)	Ground	Front fog lamp (LH)	Output	Lighting switch 2ND	Front fog lamp switch OFF	0 V
					Front fog lamp switch ON	Battery voltage
17*2 (W)	Ground	Front fog lamp (RH)	Output	Lighting switch 2ND	Front fog lamp switch OFF	0 V
					Front fog lamp switch ON	Battery voltage
18 (L)	Ground	Headlamp LO (LH)	Output	Lighting switch OFF		0 V
				Lighting switch 2ND		Battery voltage
20 (SB)	Ground	Headlamp LO (RH)	Output	Lighting switch OFF		0 V
				Lighting switch 2ND		Battery voltage
21 (G)	Ground	Headlamp HI (LH)	Output	Lighting switch OFF		0 V
				• Lighting switch 2ND and HI • Lighting switch PASS		Battery voltage
22 (LG)	Ground	Headlamp HI (RH)	Output	Lighting switch OFF		0 V
				• Lighting switch 2ND and HI • Lighting switch PASS		Battery voltage
23 (W)	Ground	Oil pressure switch	Input	Ignition switch ON	Engine stopped	0 V
					Engine running	Battery voltage
24 (Y)	Ground	Front wiper auto stop	Input	Ignition switch ON	Front wiper stop position	0 V
					Any position other than front wiper stop position	Battery voltage
25 (B)	Ground	Ground	—	Ignition switch ON		0 V
26 (P)	—	CAN-L	Input/ Output	—		—
27 (L)	—	CAN-H	Input/ Output	—		—

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
31 (LG)	Ground	Cooling fan relay-4 control	Output	Cooling fan operation	OFF	Battery voltage
					LO	0 - 1.0 V
32 (V)	Ground	ETC relay control	Input	After passing approximately 2 seconds or more after turning the ignition switch from ON to OFF		Battery voltage
				• Ignition switch ON • For approximately 2 seconds after turning ignition switch from ON to OFF		0 - 1.0 V
33 (GR)	Ground	Fuel pump relay control	Input	Ignition switch OFF		0 V
				Ignition switch ON	Engine stopped	Battery voltage
					Engine running	0.8 V
34*3 (W)	Ground	Hood switch	Input	Close the hood		Battery voltage
				Open the hood		0 V
37 (R)	Ground	Tail, license plate lamps and illuminations	Output	Lighting switch OFF		0 V
				Lighting switch 1ST		Battery voltage
38 (R)	Ground	Parking lamp (LH)	Output	Lighting switch OFF		0 V
				Lighting switch 1ST		Battery voltage
39 (GR)	Ground	Parking lamp (RH)	Output	Lighting switch OFF		0 V
				Lighting switch 1ST		Battery voltage
40 (BR)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
41 (O)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
42 (L)	Ground	Front wiper HI	Output	Ignition switch ON	Front wiper switch OFF	0 V
					Front wiper switch HI	Battery voltage
43 (G)	Ground	Front wiper LO	Output	Ignition switch ON	Front wiper switch OFF	0 V
					Front wiper switch LO	Battery voltage
45 (Y)	Ground	Starter relay power supply	Input	Ignition switch ON	Selector lever “P” or “N”	Battery voltage
					Selector lever in any position other than “P” or “N”	0 V
46 (W)	Ground	Fuel pump relay power supply	Output	• Ignition switch OFF or ACC • After passing approximately 1 second or more after turning the ignition switch ON		0 V
				• For approximately 1 second after turning the ignition switch ON • Engine running		Battery voltage
47 (BR)	Ground	ECM relay power supply	Output	After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
				• Ignition switch ON • For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage
48 (R)	Ground	ECM relay power supply	Output	After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		0 V
				• Ignition switch ON • For approximately 4 seconds after turning ignition switch from ON to OFF		Battery voltage
50 (G)	Ground	Cooling fan relay-5 control	Output	Cooling fan operation	OFF	Battery voltage
					MID or HI	0 - 1.0 V

Terminal No. (Wire color) +	Terminal No. (Wire color) –	Description: Signal name	Description: Input/ Output	Condition		Value (Approx.)
51 (L)	Ground	ECM relay control	Output	After passing approximately 4 seconds or more after turning the ignition switch from ON to OFF		Battery voltage
				• Ignition switch ON • For approximately 4 seconds after turning ignition switch from ON to OFF		0 - 1.0 V
52 (P)	Ground	ETC relay power supply	Output	After passing approximately 2 seconds or more after turning the ignition switch from ON to OFF		0 V
				• Ignition switch ON • For approximately 2 seconds after turning ignition switch from ON to OFF		Battery voltage
55 (O)	Ground	A/C relay power supply	Output	Engine stopped		0 V
				Engine running	A/C switch OFF	0 V
					A/C switch ON (A/C compressor is operating)	Battery voltage
56 (L)	Ground	Ignition switch ON	Input	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
57 (V)	Ground	Horn relay control	Output	The horn is not activated		Battery voltage
				The horn is activated		0 V
58 (LG)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
59 (BR)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
60 (SB)	Ground	Ignition relay power supply	Output	Ignition switch OFF or ACC		0 V
				Ignition switch ON		Battery voltage
61 (R)	Ground	ECM power supply	Output	Ignition switch OFF		Battery voltage

*1: With daytime running light system

*2: With front fog lamp system

*3: For Mexico

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

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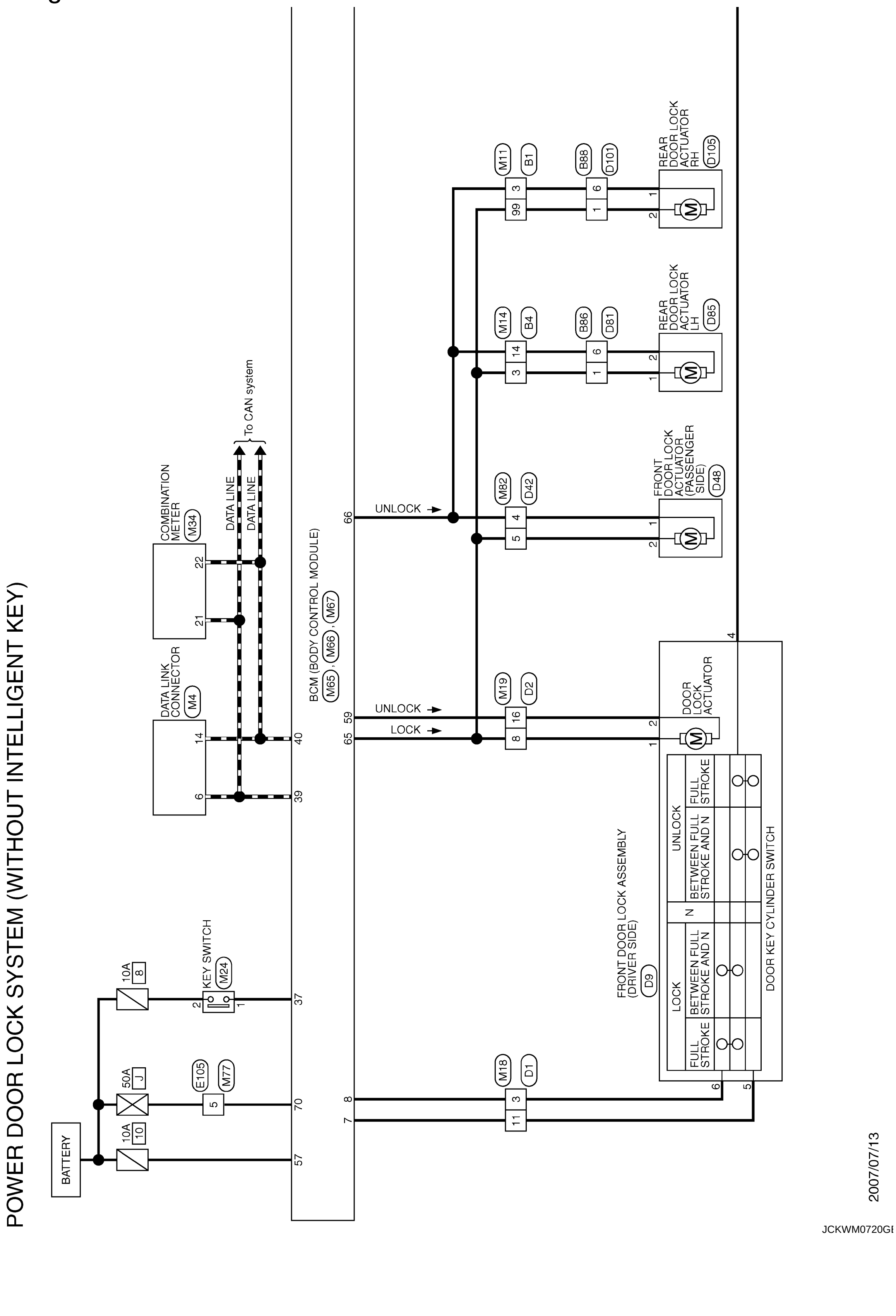
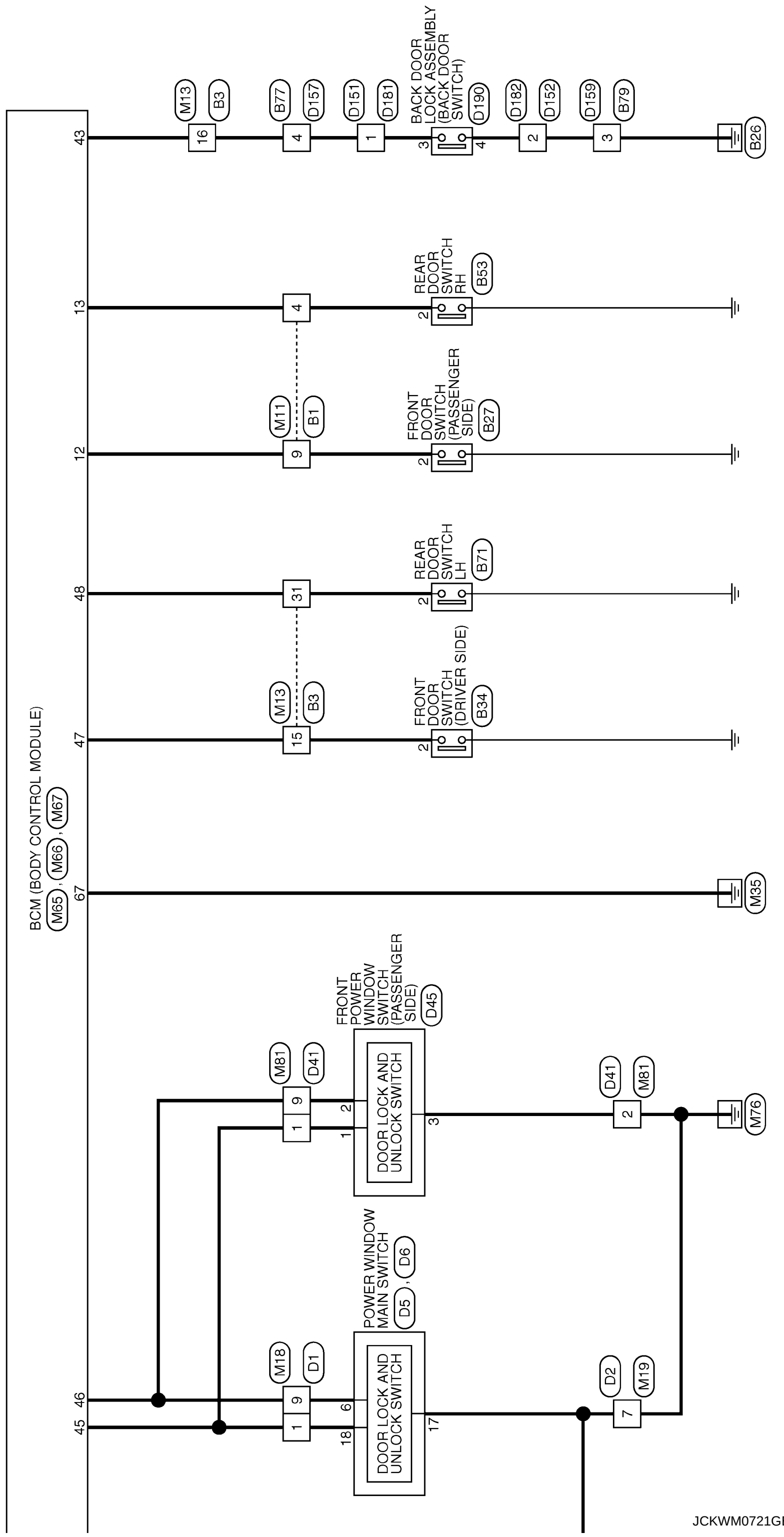
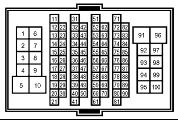



BCM (BODY CONTROL MODULE)
M65 , M66 , M67
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH)
D190
REAR DOOR SWITCH RH
B53
FRONT DOOR SWITCH (PASSENGER SIDE)
B27
REAR DOOR SWITCH LH
B71
FRONT DOOR SWITCH (DRIVER SIDE)
B34
FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
D45
DOOR LOCK AND UNLOCK SWITCH
POWER WINDOW MAIN SWITCH
D5 , D6
DOOR LOCK AND UNLOCK SWITCH
M13
B3
B77
D157
D151
D181
D182
D152
D159
B79
B26
M11
B1
M35
M81
D41
M76
M18
D1
D2
M19
JCKWM0721GB

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

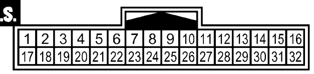
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	L	–
9	BR	–
99	V	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

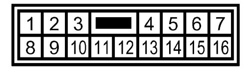
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	–
16	W	–
31	GR	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

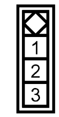
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW

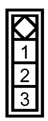
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

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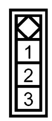
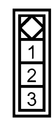


Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW

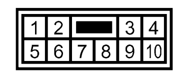
H.S.



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

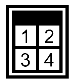
JCKWM0722GB

A B C D E F G H I J DLK L M N O P

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

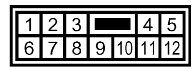
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

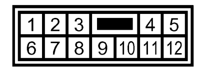
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

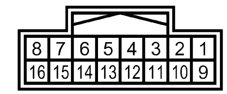
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

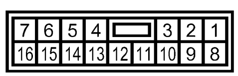
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	W	–
9	BR	–
11	L	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

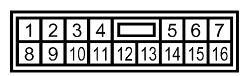
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	BR	–

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS

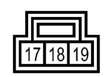
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	–

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

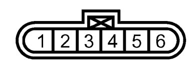
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	–
18	P	–

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

H.S.



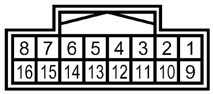
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	BR	–
4	B	–
5	L	–
6	W	–

JCKWM0723GI

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

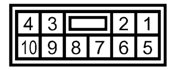
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	B	–
9	BR	–

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

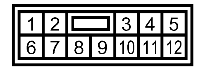
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	V	–

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS

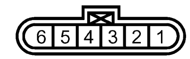
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	BR	–
3	B	–

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E06FGY-RS

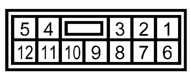
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	V	–

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

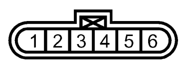
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS

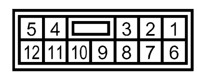
H.S.



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

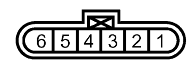
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
6	G	–

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS

H.S.



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

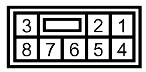
JCKWM0724GI

A B C D E F G H I J DLK L M N O P

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

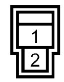
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

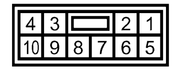
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

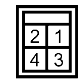
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

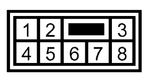
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

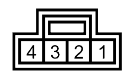
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

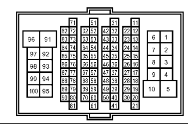
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



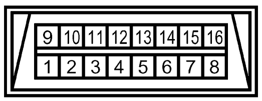
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

JCKWM0725GI

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

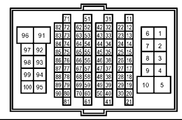
H.S.



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

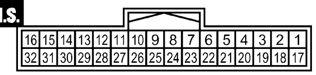
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
4	LG	–
9	P	–
99	R	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

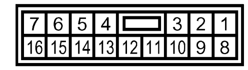
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
15	W	–
16	V	–
31	GR	–

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

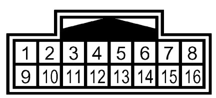
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	V	–
14	G	–

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

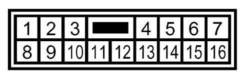
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
3	R	–
9	BR	–
11	L	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

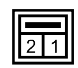
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	B	–
8	V	–
16	L	–

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P

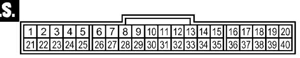
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	GR	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.



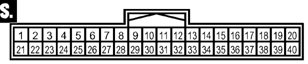
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

JCKWM0726GB

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

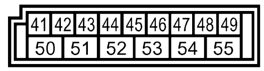
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	L	KEY CYC UNLOCK
8	R	KEY CYL LOCK SW
12	P	DR SW AS
13	LG	DR SW RR
37	LG	KEY SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

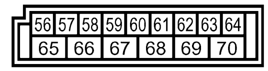
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
45	P	CDLLOCKSW
46	BR	CDLUNLOCKSW
47	W	DR SW DR
48	GR	DR SW RL

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

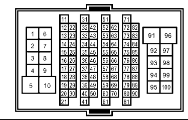
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
59	L	D/L UNLOCK DR
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

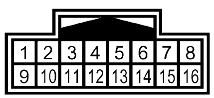
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

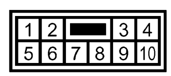
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
9	O	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.

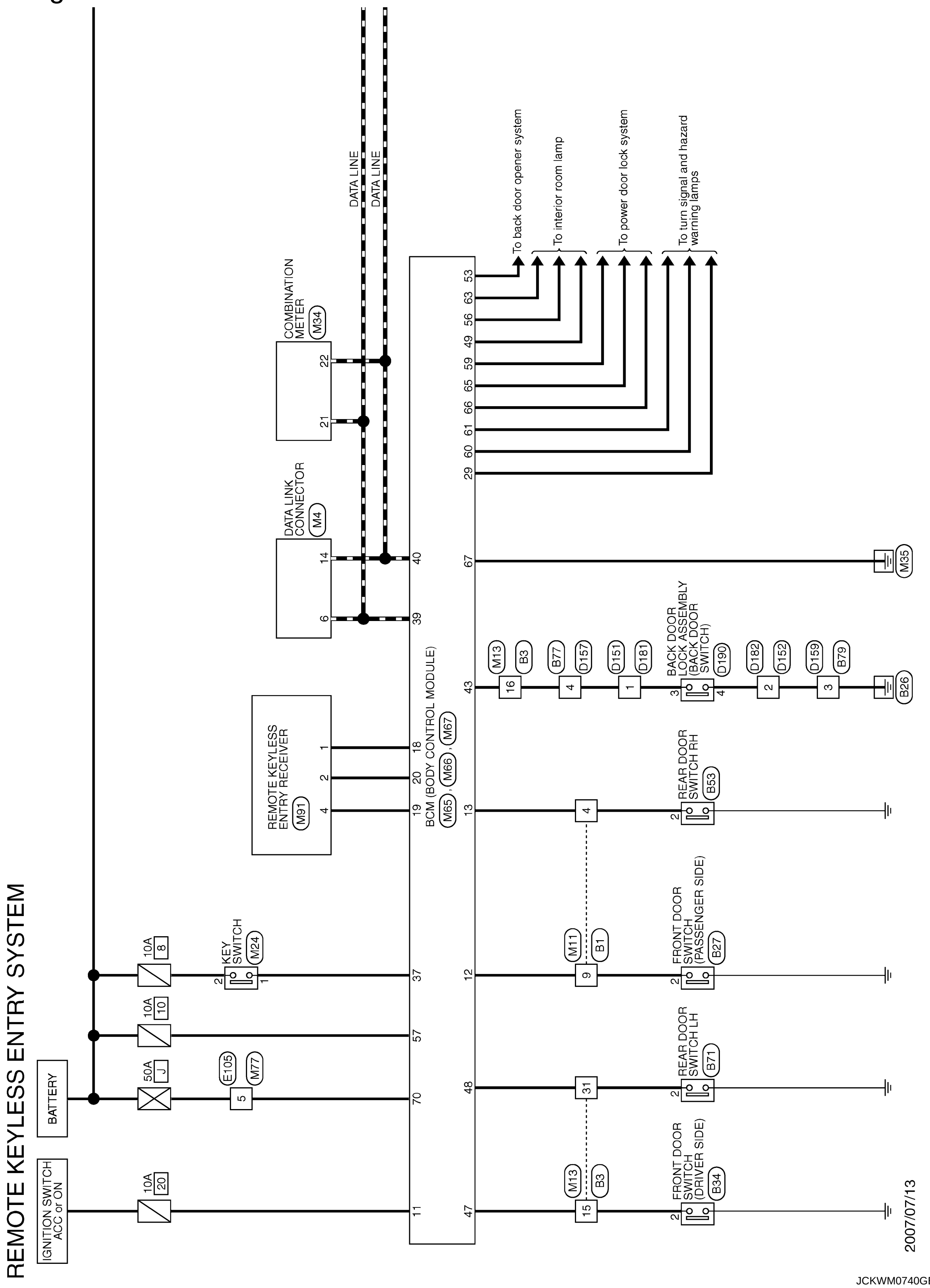


Terminal No.	Color of Wire	Signal Name [Specification]
4	G	–
5	V	–

JCKWM0727GI

Wiring Diagram - REMOTE KEYLESS ENTRY CONTROL SYSTEM -

INFOID:0000000003223027



A
B
C
D
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G
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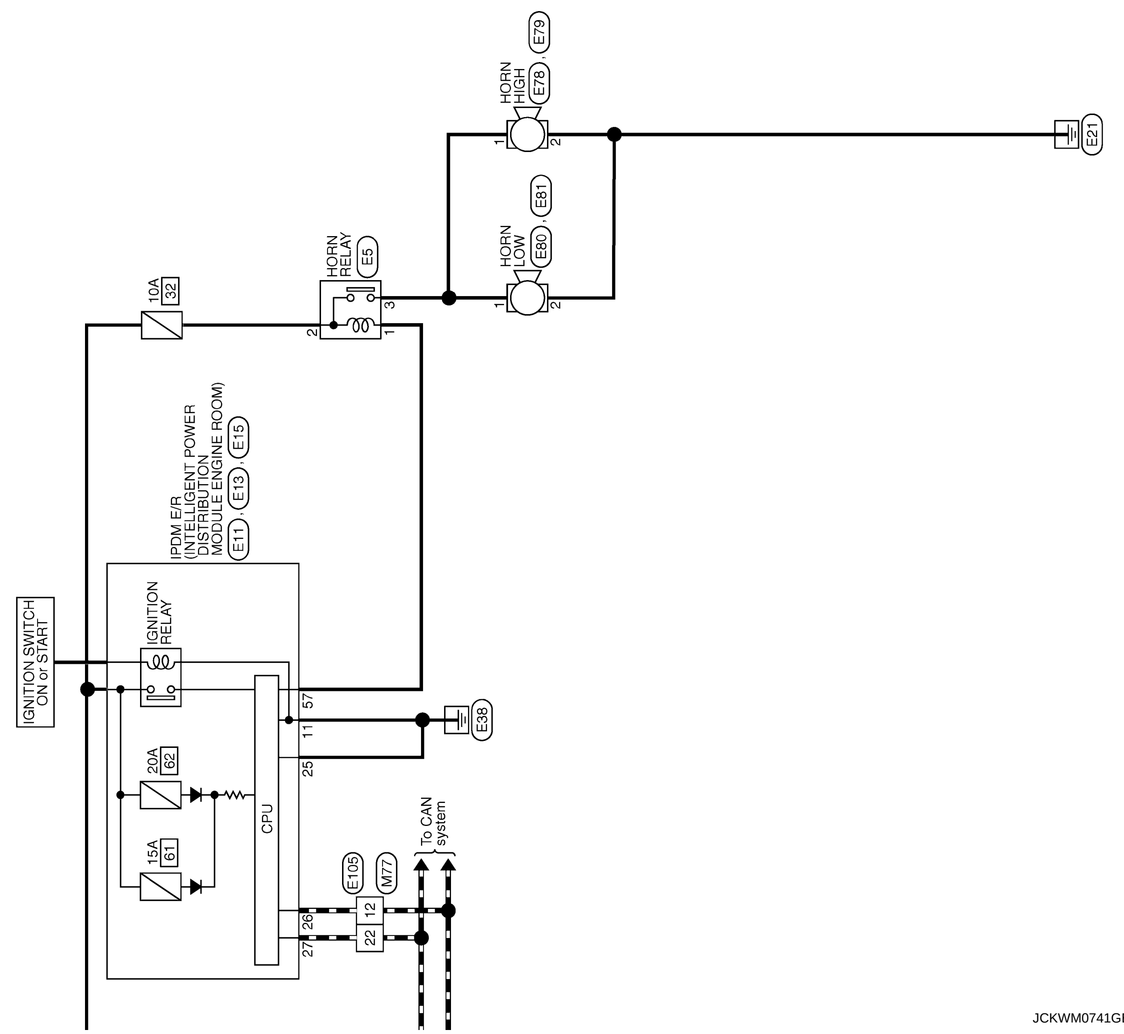
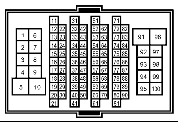
I
J
DLK
L
M
N
O
P



JCKWM0741GB

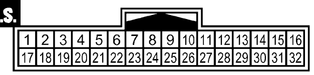
REMOTE KEYLESS ENTRY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



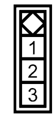
Terminal No.	Color of Wire	Signal Name [Specification]
4	L	–
9	BR	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



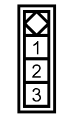
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	–
16	W	–
31	GR	–

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



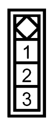
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



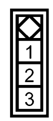
Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



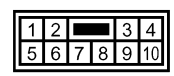
Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



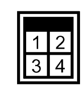
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC



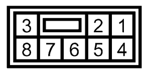
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

JCKWM0742GB

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

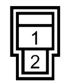
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

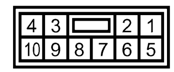
H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

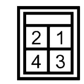
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

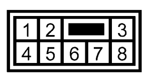
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

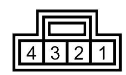
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

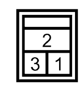
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	B	–

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	–

H.S.



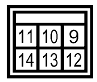
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	P	–
3	G	–

JCKWM0743GI

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

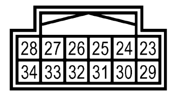
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH

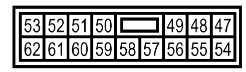
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
25	B	–
26	P	–
27	L	–

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
57	V	–

Connector No.	E78
Connector Name	HORN HIGH
Connector Type	P01FB-A

H.S.

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

Connector No.	E79
Connector Name	HORN HIGH
Connector Type	P01FB-A

H.S.

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

Connector No.	E80
Connector Name	HORN LOW
Connector Type	P01FB-A

H.S.

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

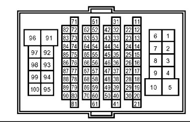
Connector No.	E81
Connector Name	HORN LOW
Connector Type	P01FB-A

H.S.

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



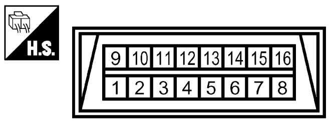
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
12	P	–
22	L	–

JCKWM0744GB

A B C D E F G H I J DLK L M N O P

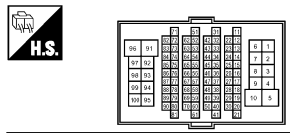
REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



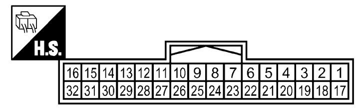
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	–
9	P	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

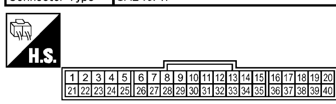


Terminal No.	Color of Wire	Signal Name [Specification]
15	W	–
16	V	–
31	GR	–

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P

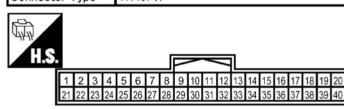
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	GR	–

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



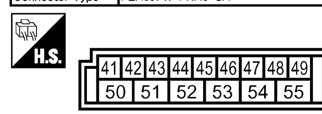
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW



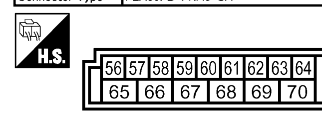
Terminal No.	Color of Wire	Signal Name [Specification]
11	SB	ACC
12	P	DR SW AS
13	LG	DR SW RR
18	O	KEYLESS TUNER SENS GND
19	V	KEYLESS TUNER POWER
20	GR	KEYLESS TUNER SIGNAL
29	W	HAZARD SW
37	LG	KEY SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
47	W	DR SW DR
48	GR	DR SW RL
49	L	LUGGAGE LAMP OUTPUT
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA



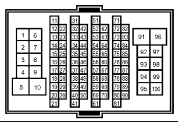
Terminal No.	Color of Wire	Signal Name [Specification]
56	Y	BATTERYSAVEROUTPUT
57	G	BAT FUSE
59	L	D/L UNLOCK DR
60	BR	FLASHER OUT PUT (LEFT)
61	GR	FLASHER OUT PUT (RIGHT)
63	R	ROOMLAMPOUTPUT
65	V	D/L LOCK ALL
66	G	D/L UNLOCK OTHER
67	B	GND
70	Y	BAT FL

JCKWM0745GI

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

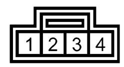
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
12	P	–
22	L	–

Connector No.	M91
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TK04FW

H.S.

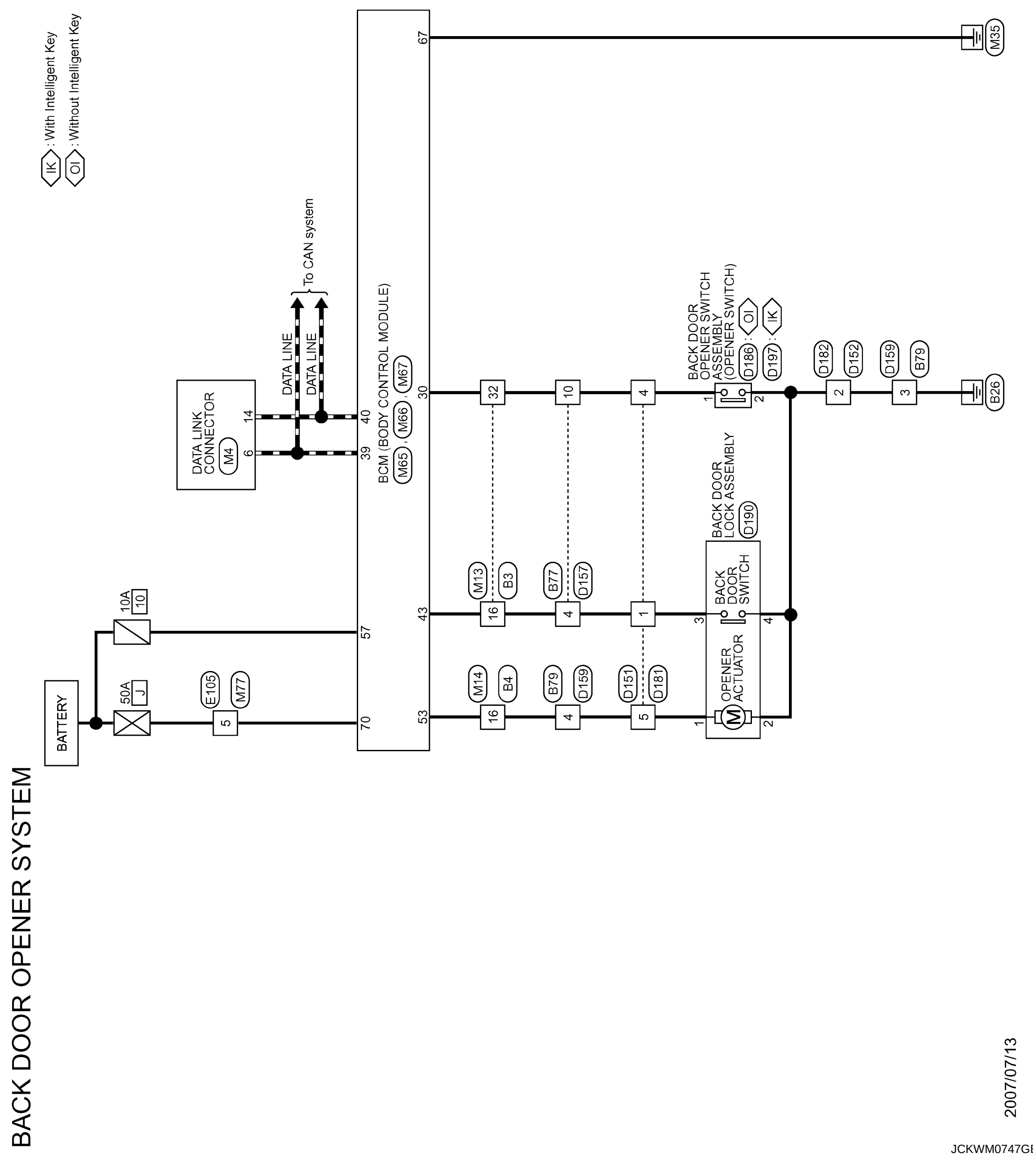


Terminal No.	Color of Wire	Signal Name [Specification]
1	O	GND
2	GR	SIGNAL
4	V	POWER

JCKWM0746GB

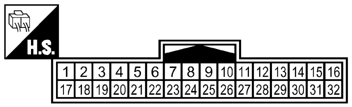
Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:0000000003223028



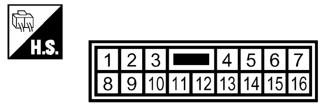
BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



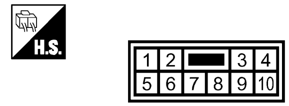
Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–
32	LG	–

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
16	W	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

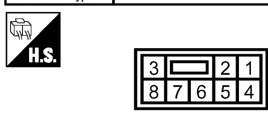


Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC

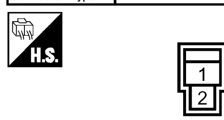
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	W	–

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



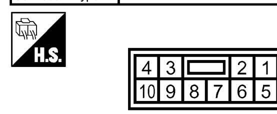
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC



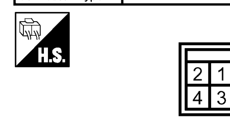
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
10	LG	–

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC



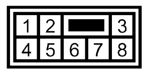
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
4	V	–

JCKWM0748GB

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	LG	–
5	V	–

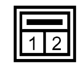
Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

H.S.

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

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK02MBR-P

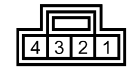
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS

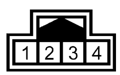
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	B	–
3	W	–
4	B	–

Connector No.	D197
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MW-NH

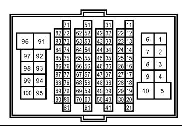
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	B	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

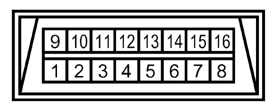
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

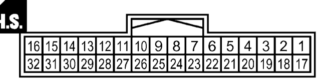
H.S.



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

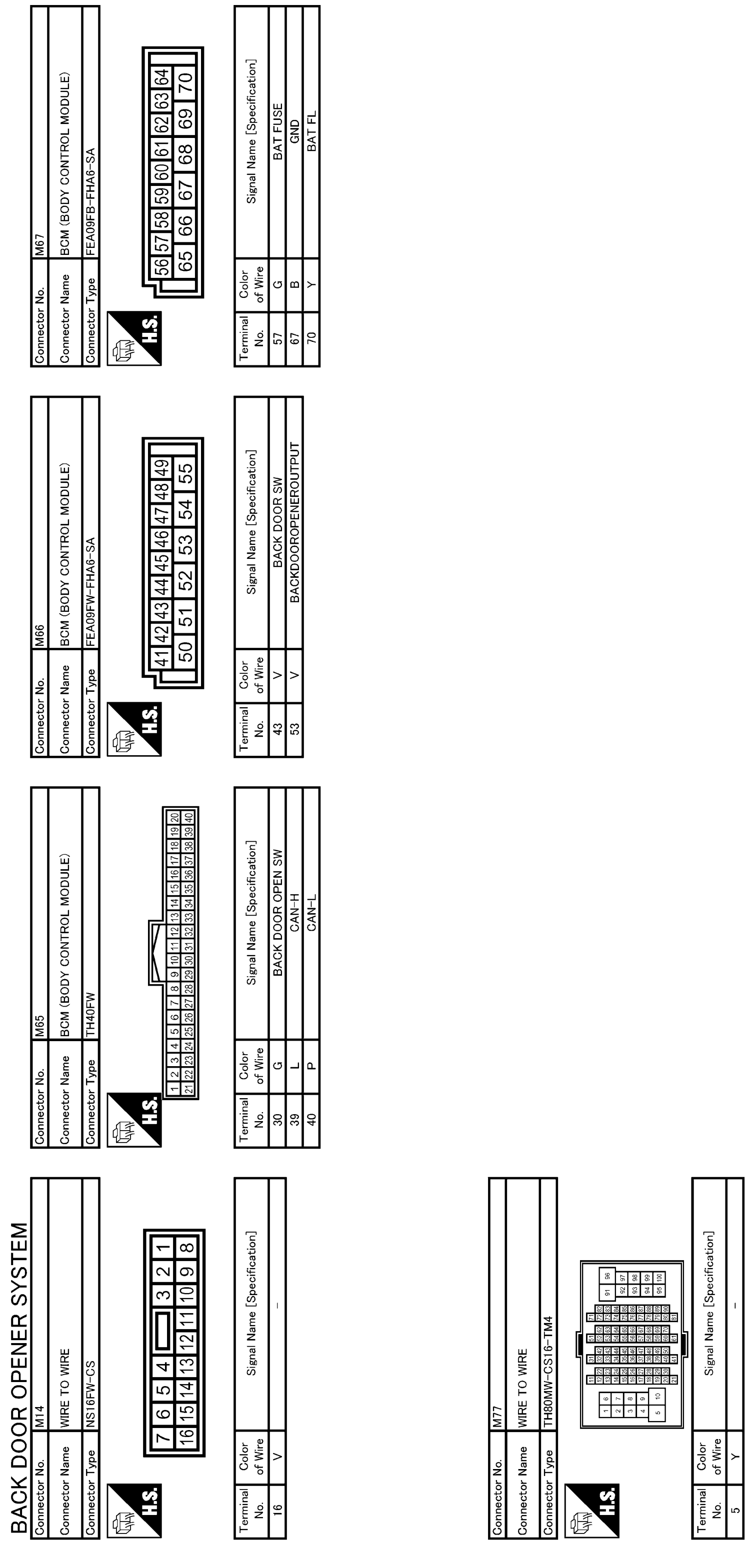
Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
16	V	–
32	G	–

JCKWM0749GI



Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

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

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW

Terminal No.	Color of Wire	Signal Name [Specification]
30	G	BACK DOOR OPEN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

Terminal No.	Color of Wire	Signal Name [Specification]
43	V	BACK DOOR SW
53	V	BACKDOOROPENEROUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

Terminal No.	Color of Wire	Signal Name [Specification]
57	G	BAT FUSE
67	B	GND
70	Y	BAT FL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

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

JCKWM0750GB

Fail Safe

INFOID:0000000003122840

CAN COMMUNICATION CONTROL

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

If no CAN communication is available with ECM

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

If no CAN communication is available with BCM

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

NOTE:

*: With daytime running light system

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

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

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

NOTE:

*: With daytime running light system

FRONT WIPER CONTROL

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

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

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

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

DTC Index

INFOID:0000000003122841

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

NOTE:

The details of time display are as follows.

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

SYMPTOM DIAGNOSIS

DOOR LOCK

Symptom Table

INFOID:0000000001729711

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

No.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
1	Door lock and unlock switch function	Press door lock and unlock switch.	Door does not lock/unlock	All doors	DLK-433
				Driver side	DLK-433
				Passenger side	DLK-433
				Rear LH	DLK-434
				Rear RH	DLK-434
2	Key cylinder switch function	Operate key cylinder with mechanical key.	Door does not lock/unlok	—	DLK-436
			Selective unlock function does not operate	—	DLK-439
3	Key fob function	Press key fob button.	Door does not lock/unlok	—	DLK-437
			Selective unlock function does not operate	—	DLK-440
			Panic alarm function does not operate.	—	DLK-438
4	Key reminder function	Open the door, when mechanical key is inserts into ignition key cylinder.	Key reminder function does not operate	—	DLK-435
5	Auto door lock function	Unlock all doors and wait more than 1 minutes.	Auto door lock operation does not operate	—	DLK-441
6	Back door opener function	Press back door opener switch.	Back door does not open	—	DLK-442
7	Hazard and horn reminder function	Press key fob button.	Hazard reminder operation does not operate	—	DLK-443
			Horn reminder operation does not operate	—	DLK-444
8	Integrated home link transmitter function	Press homelink button	Integrated homelink transmitter does not operate	—	DLK-445

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Diagnosis Procedure

INFOID:0000000001729713

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to DLK-338, "BCM : Diagnosis Procedure" .

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-343, "DRIVER SIDE : Component Function Check" (driver side).
Refer to DLK-345, "PASSENGER SIDE : Component Function Check" (passenger side).

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-41, "Intermittent Incident" .
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001729715

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to DLK-354, "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-41, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001729717

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).
Refer to DLK-355, "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-41, "Intermittent Incident".
NO >> GO TO 1.

REAR LH

REAR LH : Diagnosis Procedure

INFOID:0000000001729719

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator LH.
Refer to DLK-356, "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-41, "Intermittent Incident".
NO >> GO TO 1.

REAR RH

REAR RH : Diagnosis Procedure

INFOID:0000000001729721

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator RH.
Refer to DLK-357, "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-41, "Intermittent Incident".
NO >> GO TO 1.

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729723

1.CHECK KEY SWITCH

Check key switch.
Refer to DLK-347, "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-41, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH MECHANICAL KEY

Diagnosis Procedure

INFOID:0000000001910163

1.CHECK KEY CYLINDER SWITCH

Check key cylinder switch
Refer to DLK-349, "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-41, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

Diagnosis Procedure

INFOID:0000000001911032

1.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-352, "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.
Refer to DLK-339, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK KEYFOB BATTERY

Check keyfob battery.
Refer to DLK-365, "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-41, "Intermittent Incident".
NO >> GO TO 1.

PANIC ALARM FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001910165

1.CHECK PANIC ALARM SET SETTING WITH CONSULT-III

Check “PANIC ALARM SET” setting in “WORK SUPPORT”
Refer to DLK-328, "MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)".

Is the inspection result normal?

YES >> Check vehicle security system. Refer to SEC-173, "System Diagram"
NO >> Set “PANIC ALARM SET” setting in “WORK SUPPORT”.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY CYLINDER SWITCH

Diagnosis Procedure

INFOID:0000000001910835

1.CHECK “DOOR LOCK–UNLOCK SET” SETTING WITH CONSULT-III

Check “DOOR LOCK–UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-328, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Set “DOOR LOCK–UNLOCK SET” in “WORK SUPPORT”.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH KEY FOB

Diagnosis Procedure

INFOID:0000000001910840

1.CHECK “DOOR LOCK–UNLOCK SET” SETTING WITH CONSULT-III

Check “DOOR LOCK–UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-328, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-67, "Exploded View".
NO >> Set “DOOR LOCK–UNLOCK SET” in “WORK SUPPORT”.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729725

1.CHECK “AUTO LOCK SET” SETTING WITH CONSULT-III

Check “AUTO LOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-328, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

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-41, "Intermittent Incident".
NO >> GO TO 1.

BACK DOOR DOES NOT OPENED

Diagnosis Procedure

INFOID:0000000001729729

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.
Refer to DLK-361, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.
Refer to DLK-359, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check vehicle speed signal “VEHICLE SPEED” in Data monitor.
Refer to DLK-330, "TRUNK : CONSULT-III Function (BCM - TRUNK)".

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-41, "Intermittent Incident".
NO >> GO TO 1.

HAZARD REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001729733

1.CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check “HAZARD LAMP SET” setting in “WORK SUPPORT”.
Refer to DLK-328, "MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HAZARD LAMP SET” setting in “WORK SUPPORT”. Refer to DLK-328, "MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)".

2.CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-364, "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-41, "Intermittent Incident".
NO >> GO TO 1.

HORN REMINDER OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001911580

1.CHECK “HORN CHIRP” SETTING WITH CONSULT-III

Check “HORN CHIRP” setting in “WORK SUPPORT”.
Refer to DLK-328, "MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HORN CHIRP” setting in “WORK SUPPORT”. Refer to DLK-328, "MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)".

2.CHECK HORN FUNCTION

Check horn function.
Refer to DLK-363, "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-41, "Intermittent Incident".
NO >> GO TO 1.

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000001911137

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.
Refer to DLK-366, "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-41, "Intermittent Incident".
NO >> GO TO 1.

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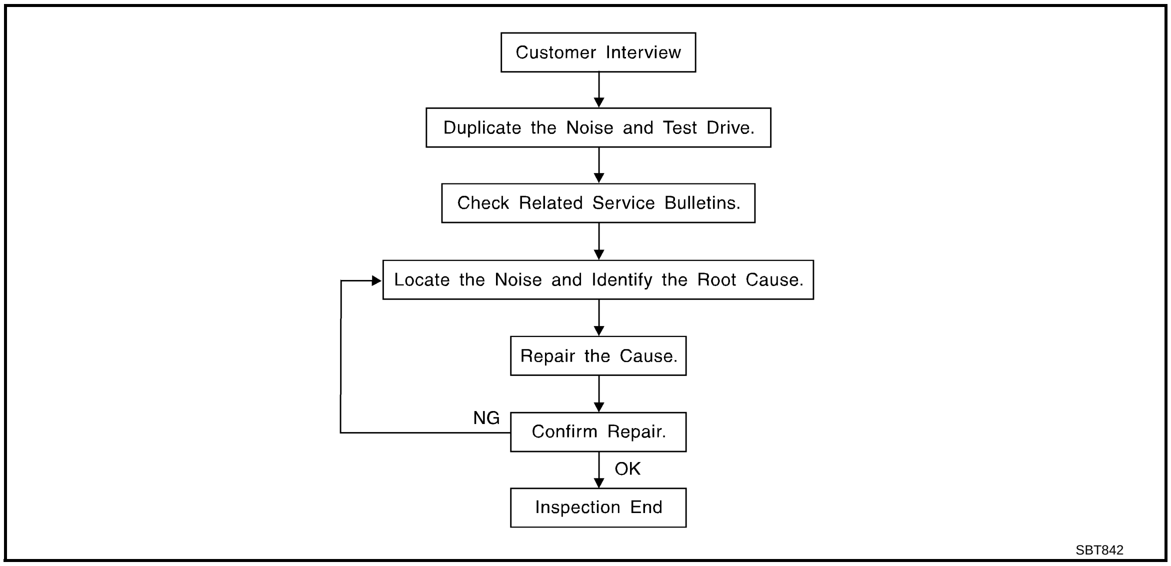
SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000003247339



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-450, "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 you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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

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 you suspect the noise is coming from.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that you suspect is causing the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- Placing a piece of paper between components that you suspect are causing the noise.
- Looking for loose components and contact marks.
  Refer to DLK-448, "Inspection Procedure".

REPAIR THE CAUSE

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

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

Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit. Will only last a few months.
SILICONE SPRAY
Use when grease cannot be applied.
DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000003247340

Refer to Table of Contents for specific component removal and installationinformation.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Do not use silicone spray to isolate a squeak or rattle. If you saturatethe area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

TRUNK

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

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

Most of these incidents can be repaired by adjusting, securing or insulatingthe 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 knockingnoise
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 duplicatingthe conditions can isolate most of these incidents. Repairs usually consistof insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seatis in and the load placed on the seat when the noise is present. These conditionsshould 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 suspectedcomponents while duplicating the conditions under which the noise occurs.Most of these incidents can be repaired by repositioning the component orapplying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or onthe 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.

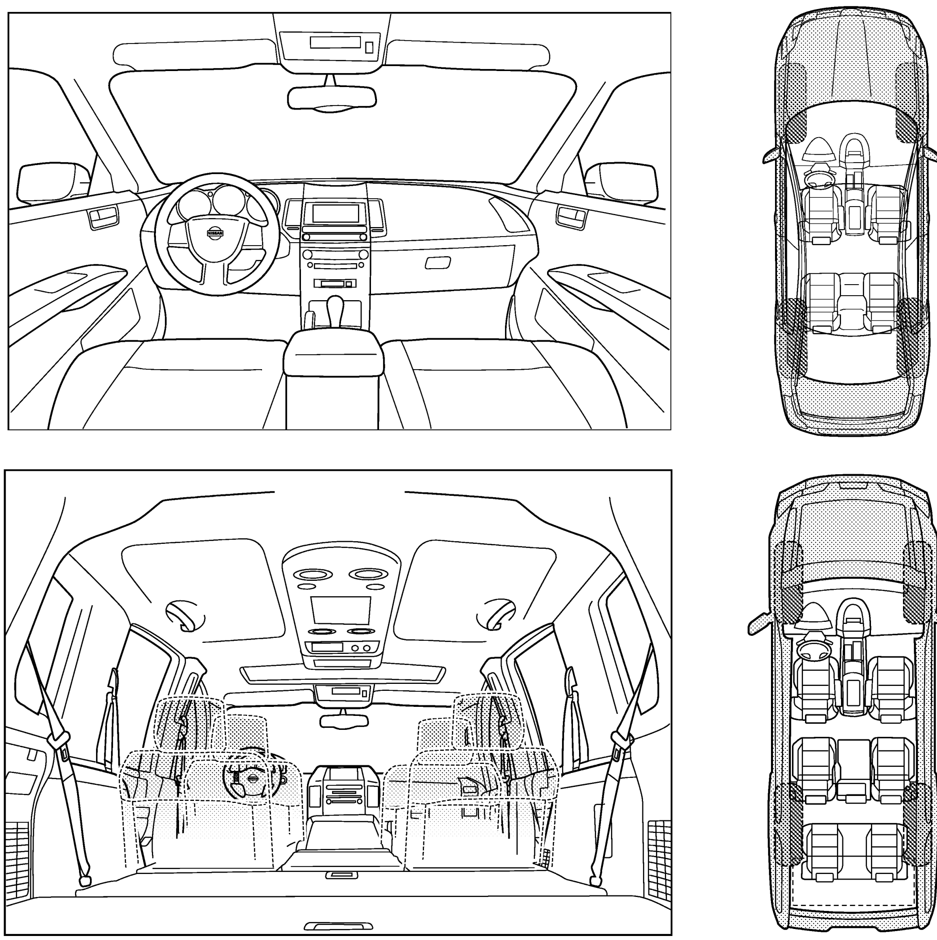
Diagnostic Worksheet

INFOID:0000000003247341

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



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

PIIB8740E

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)

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ other:

III. WHEN DRIVING:

- ☐ 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	☐	☐	________
- Noise verified on test drive	☐	☐	________
- Noise source located and repaired	☐	☐	________
- Follow up test drive performed to confirm repair	☐	☐	________

VIN: ________________________ Customer Name: ________________________

W.O.# ________________________ Date: ____________

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

FOR MEXICO

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

INFOID:0000000003247343

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the “SRS AIRBAG” 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 AIRBAG”.**
- **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.**

FOR MEXICO : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000003247344

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the ″LOCK″ position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.
For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.
If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

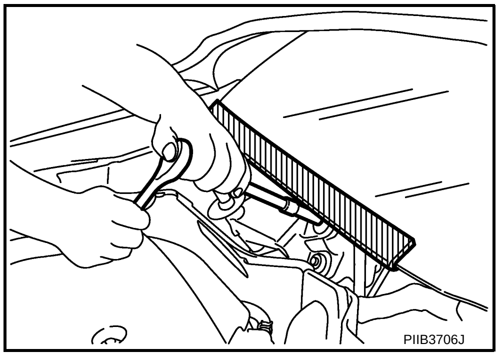
OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ″ACC″ position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the ″LOCK″ position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

FOR MEXICO : Precaution for Procedure without Cowl Top Cover

INFOID:0000000003247345

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



FOR MEXICO : Precautions For Xenon Headlamp Service

INFOID:0000000003247351

WARNING:

Comply with the following warnings to prevent any serious accident.

- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**
- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

FOR MEXICO : Work

INFOID:0000000003247346

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

FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000003247347

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 AIRBAG” 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 AIRBAG”.**

- **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.**

FOR USA AND CANADA : Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000003247348

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the ″LOCK″ position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.
For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.
If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

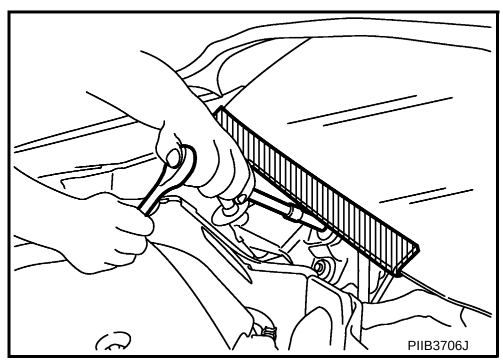
OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ″ACC″ position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the ″LOCK″ position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

FOR USA AND CANADA : Precaution for Procedure without Cowl Top Cover

INFOID:0000000003247349

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



FOR USA AND CANADA : Precautions For Xenon Headlamp Service

INFOID:0000000003247352

WARNING:

Comply with the following warnings to prevent any serious accident.

- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.**
  (Turning it ON outside the lamp case may cause fire or visual impairments.)

- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

FOR USA AND CANADA : Work

INFOID:0000000003247350

- 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.

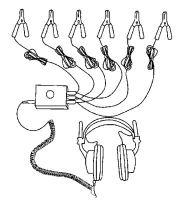
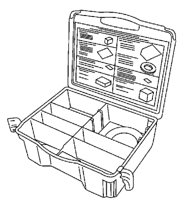
PREPARATION

PREPARATION

Special Service Tools

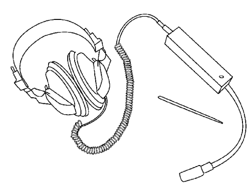
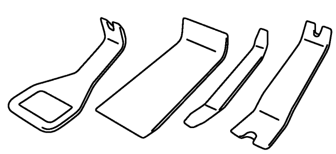
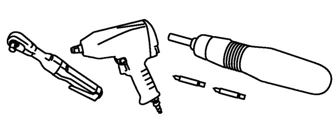
INFOID:0000000003222358

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

Tool number (Kent-Moore No.) Tool name		Description
(J-39570) Chassis ear	 SIIA0993E	Location the noise
(J-43980) NISSAN Squeak and Rattle Kit	 SIIA0994E	Repairing the cause of noise

Commercial Service Tools

INFOID:0000000003222359

Tool name		Description
Engine ear	 SIIA0995E	Locating the noise
Remover tool	 PIIB7923J	Remove the clips, pawls, and metal clips
Power tool	 PIIB1407E	

ON-VEHICLE REPAIR

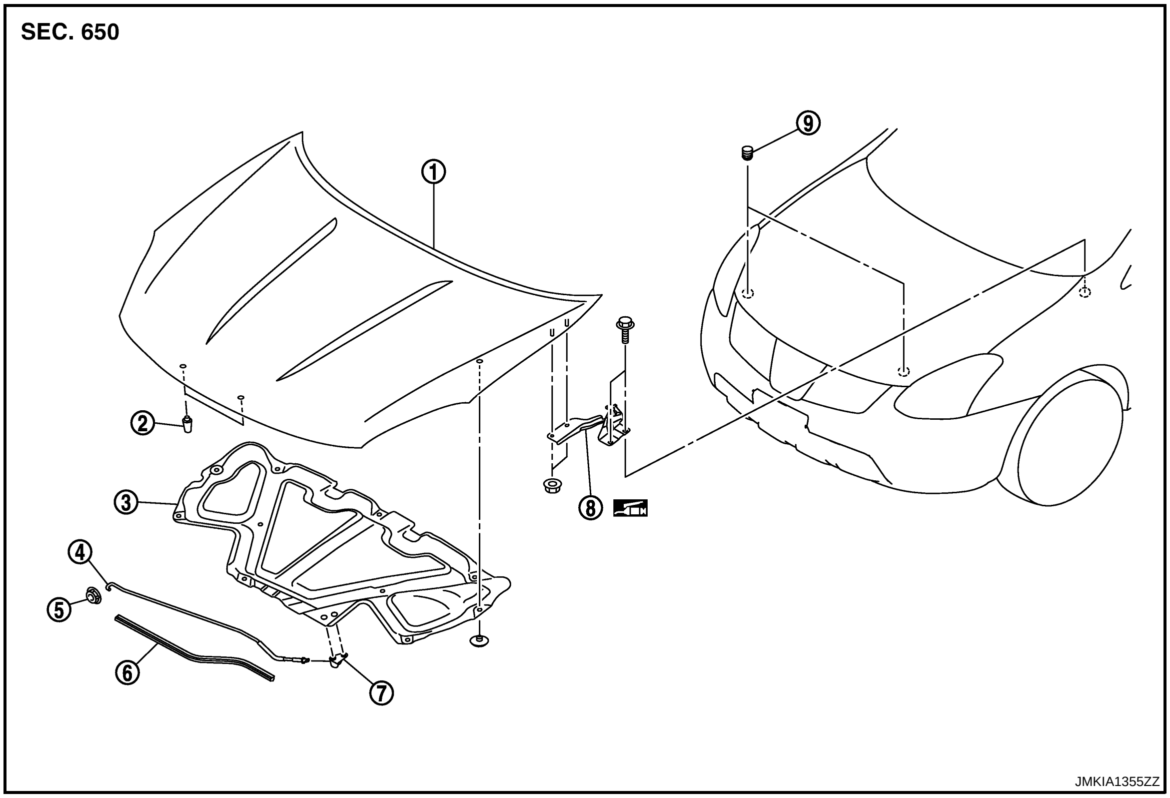
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:0000000003072787

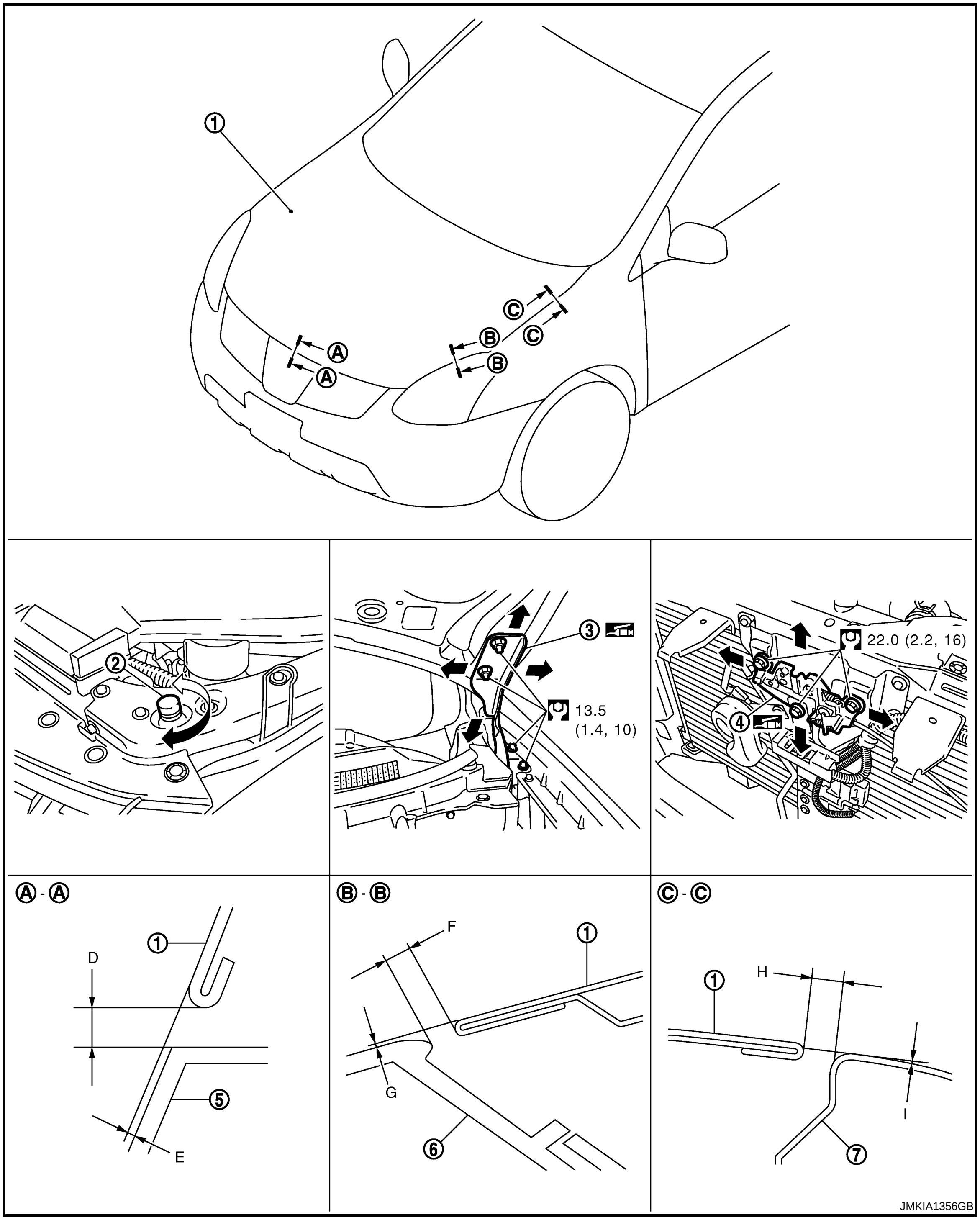
REMOVAL



1. Hood assembly
2. Hood bumper rubber center
3. Hood insulator
4. Hood support rod
5. Grommet
6. Hood seal rubber
7. Clamp
8. Hood hinge
9. Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1. Hood assembly
2. Hood bumper rubber side
3. Hood hinge
4. Hood lock assembly
5. Front bumper fascia
6. Front combination lamp
7. Front fender

Refer to GI-4, "Components" for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000003072788

REMOVAL

1. Support hood lock assembly with the proper material to prevent it from falling.

WARNING:
Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

2. Remove hood hinge mounting nuts on the hood to remove the hood assembly.
   CAUTION:
   Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Perform work with 2 workers, because of its heavy weight.**
- **Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.**
- **After installing, perform hood fitting adjustment. Refer to DLK-459, "HOOD ASSEMBLY : Adjustment".**

HOOD ASSEMBLY : Adjustment

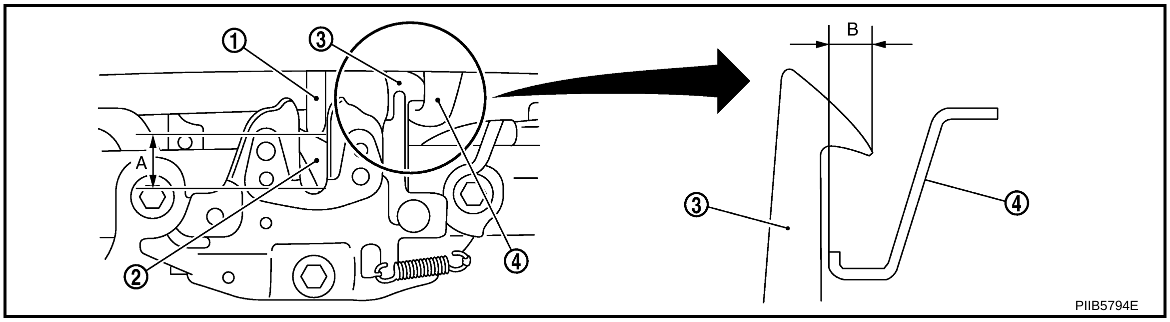
INFOID:0000000003072789

Check the clearance and the surface height between hood and each part by visually and touching.
In case any parts are out of specification, adjust them according to the procedures shown below.

unit : mm(in)

Portion				Standard	Difference (RH/LH)
Hood – Front bumper	A – A	D	Clearance	4.0 – 8.0 (0.157 – 0.315)	—
		E	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)	—
Hood – Front combination lamp	B – B	F	Clearance	2.0 – 6.0 (0.079 – 0.236)	< 3.0 (0.118)
		G	Surface height	- 2.0 – 2.0 (- 0.079 – 0.079)	< 2.0 (0.079)
Hood – Front fender	C – C	H	Clearance	2.6 – 4.6 (0.102 – 0.181)	< 1.4 (0.055)
		I	Surface height	- 1.0 – 1.0 (- 0.039 – 0.039)	< 1.4 (0.055)

1. Remove hood lock and adjust the height by rotating hood bumper rubber side until hood becomes 1 to1.5 mm (0.039 to 0.059 in) lower than fender.
2. Temporarily tighten hood lock, and position by engaging it with hood striker. Check hood lock and striker for looseness and adjust the clearance and evenness with striker to satisfy the specification.
3. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately 200 mm (7.874 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5lb)].



1. Hood striker
2. Primary latch
3. Secondary striker
4. Secondary latch

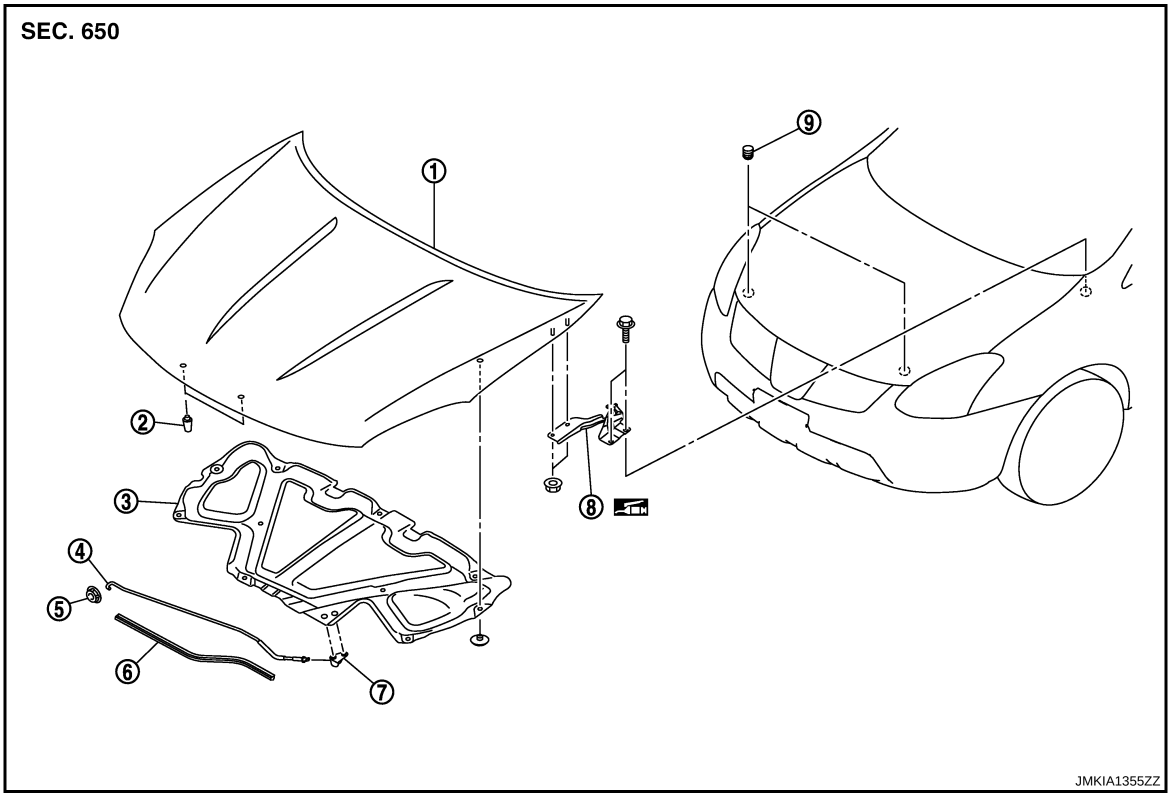
A : 20.0 mm (0.787 in)
B : 6.8 mm (0.268 in)

4. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:0000000003072790



1. Hood assembly
2. Hood bumper rubber center
3. Hood insulator
4. Hood support rod
5. Grommet
6. Hood seal rubber
7. Clamp
8. Hood hinge
9. Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:0000000003072791

REMOVAL

1. Remove hood assembly. Refer to DLK-458, "HOOD ASSEMBLY : Removal and Installation".
2. Remove front fender. Refer to DLK-466, "Removal and Installation".
3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Install in the reverse order of removal.

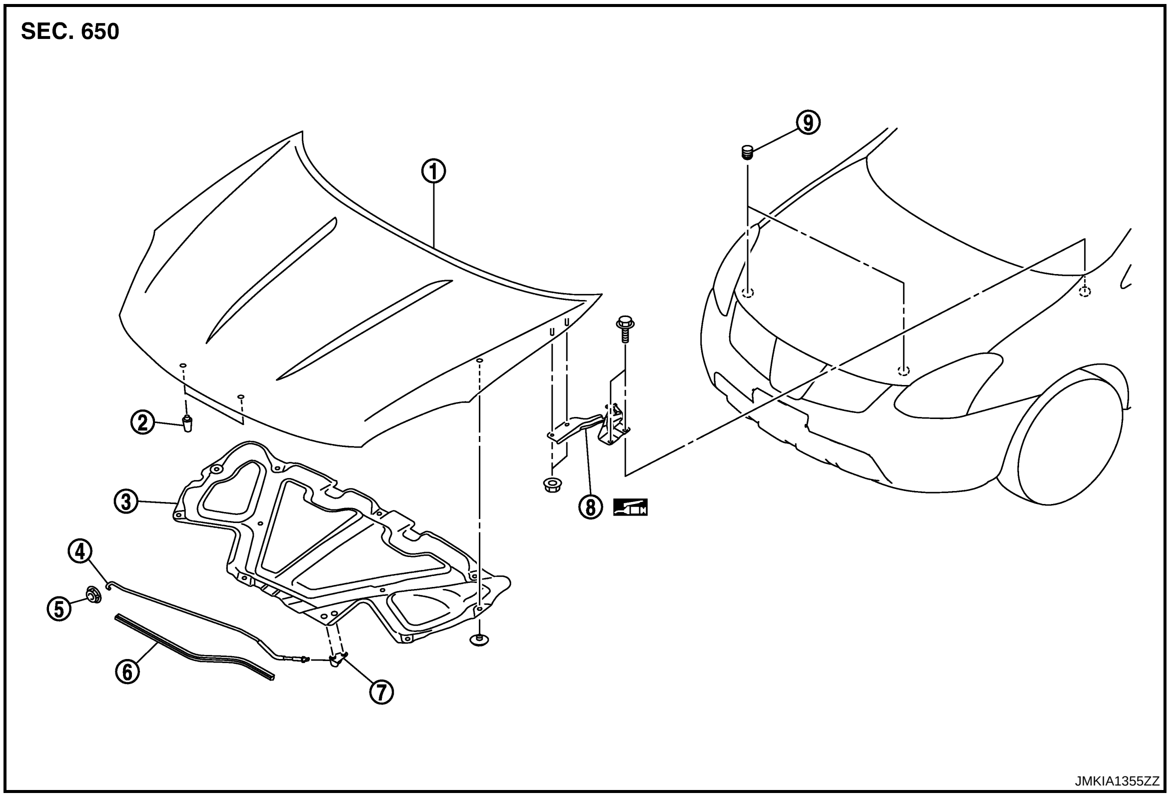
CAUTION:

- **Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.**
- **After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.**
- **After installation, perform hood fitting adjustment. Refer to DLK-459, "HOOD ASSEMBLY : Adjustment".**

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:0000000003072792



1. Hood assembly
2. Hood bumper rubber center
3. Hood insulator
4. Hood support rod
5. Grommet
6. Hood seal rubber
7. Clamp
8. Hood hinge
9. Hood bumper rubber side

Refer to GI-4, "Components" for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:0000000003072794

REMOVAL

1. Support hood lock assembly with the proper material to prevent it from falling.
   WARNING:
   Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.
2. Remove hood support rod from grommet.

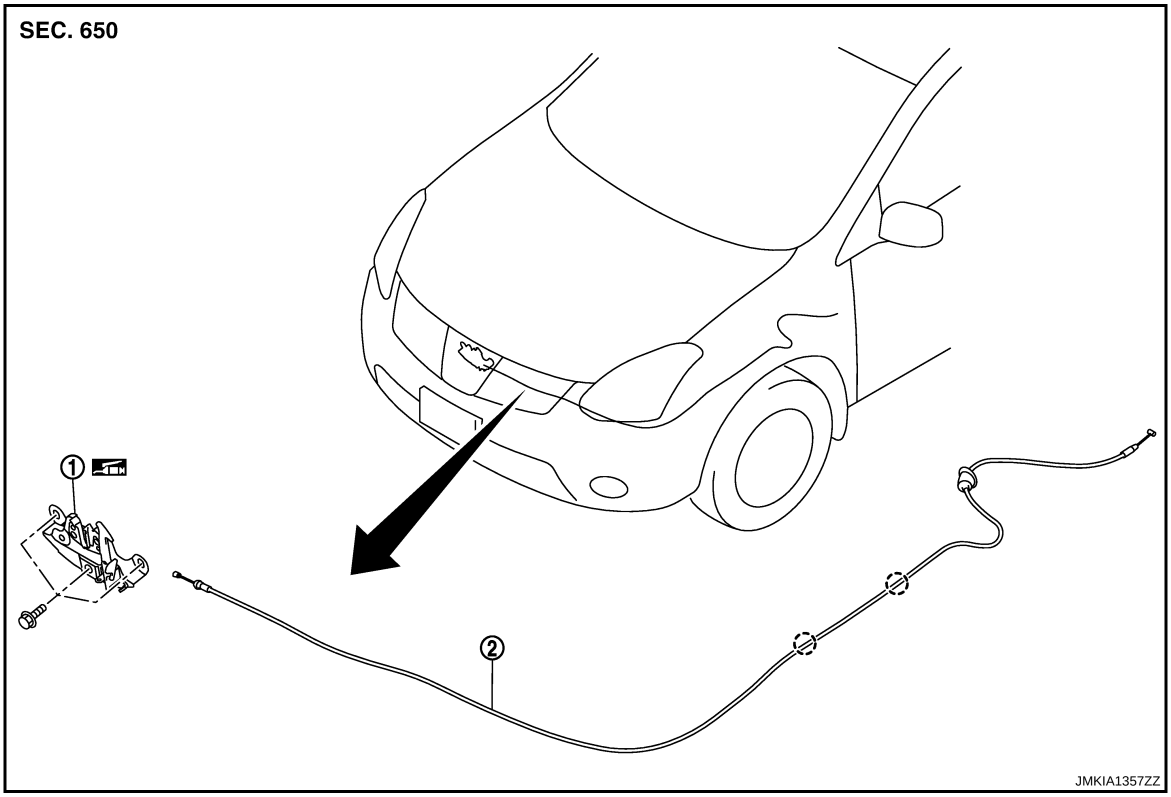
INSTALLATION

Install in the reverse order of removal.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:0000000003072795



1. Hood lock assembly
2. Hood lock control cable

:Clip

Refer to GI-4, "Components" for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:0000000003072796

REMOVAL

CAUTION:

Check how hood lock control cable has been wiring situation, before it is removed.

1. Remove clips at the upper side of front bumper. Refer to EXT-13, "Exploded View".
2. Remove mounting bolts, and then remove hood lock assembly.
3. Disconnect hood lock cable from hood lock assembly.
4. Remove instrument driver lower cover. Refer to IP-13, "Removal and Installation".
5. Disconnect hood lock cable from instrument driver lower cover.
6. Remove fender protector (LH). Refer to EXT-22, "Removal and Installation".
7. Remove hood lock cable clamp.
8. Remove grommet on the dashbord, and pull the hood lock control cable toward the passenger compartment.

   CAUTION:

   While pulling, do not to damage (peeling) the outside of hood lock control cable.

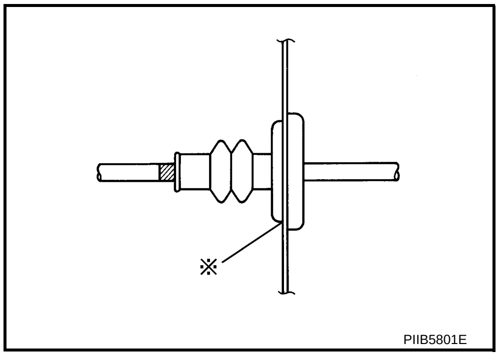
INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Do not to bend cable too much, keeping the radius 100 mm (3.937 in) or more.**

- **Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark) properly.**



- **Check that hood lock control cable is properly engaged with hood lock.**
- **After installation, perform hood fitting adjustment. Refer to DLK-459, "HOOD ASSEMBLY : Adjustment".**
- **After installation, perform hood lock control inspection. Refer to DLK-463, "HOOD LOCK CONTROL : Inspection".**

HOOD LOCK CONTROL : Inspection

INFOID:0000000003072797

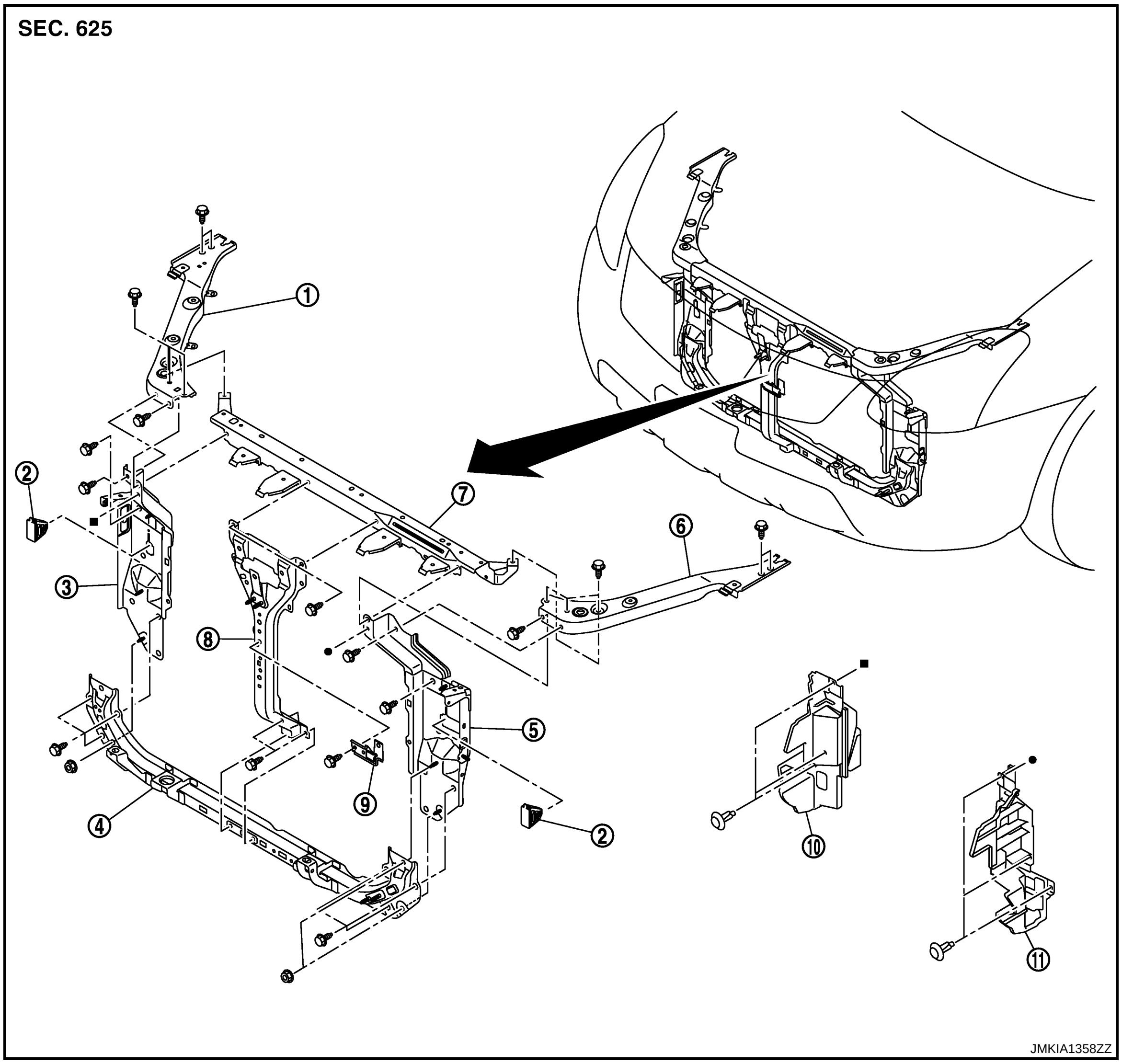
NOTE:
If the hood lock cable is bent or deformed, replace it.

1. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] by hood weight.
2. While operating hood opener, carefully check that the front end of hood is raised by approximately 20.0 mm (0.787 in). Also check that hood opener returns to the original position.
3. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
4. Install so that static closing face of hood is 94 – 490 N·m (9.6 – 50.0 kg-m, 69 – 361 ft – lb).
   NOTE:
   - Exert vertical force on right side and left side of hood lock.
   - Do not press simultaneously both sides.
5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000003072798



1. Radiator core support upper RH	2. Locator (RH/LH)	3. Radiator core support side RH
4. Radiator core support lower	5. Radiator core support side LH	6. Radiator core support upper LH
7. Radiator core support upper center	8. Hood lock support stay assembly	9. Sensor bracket
10. Air guide RH	11. Air guide LH	

Removal and Installation

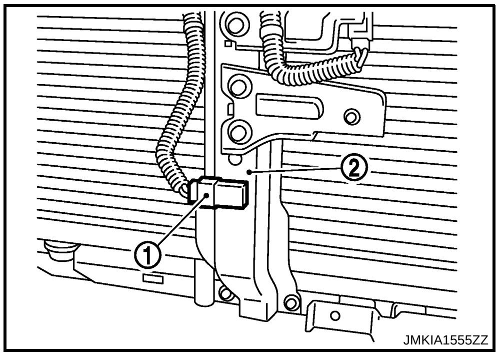
INFOID:0000000003072799

REMOVAL

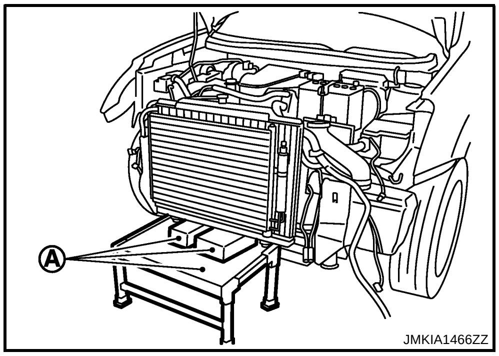
1. Remove front bumper facia, front bumper rainforcement. Refer to EXT-14, "Removal and Installation".
2. Remove air intake duct. Refer to EM-27, "Removal and Installation".
3. Remove front combination lamp (LH/RH). Refer to EXL-121, "Removal and Installation" (XENON TYPE), EXL-255, "Removal and Installation" (HALOGEN TYPE).
4. Remove air guide mounting clips, and remove air guide (LH/RH).
5. Remove fluid cooler. Refer to TM-204, "FLUID COOLER : Removal and Installation".
6. Remove fluid cooler stay lower. Refer to TM-204, "FLUID COOLER : Exploded view".
7. Remove seal radiator lower.

8. Remove horn (HI/LO). Refer to HRN-9, "Removal and Installation".
9. Remove ambient sensor.

   (1): Ambient sensor
   (2): Hood lock support stay assembly



10. Remove Intelligent Key warning buzzer (with Intelligent Key systems). Refer to DLK-305, "Removal and Installation".
11. Remove crash zone sensor. Refer to SR-14, "Removal and Installation".
12. Disconnect liquid tank connector. Refer to HA-52, "Exploded View".
13. Remove hood lock assembly. Refer to DLK-462, "HOOD LOCK CONTROL : Removal and Installation".
14. Disconnect harness clips from radiator core support assembly.
15. Remove mounting bolts, and then remove hood lock support stay assembly.
16. Remove washer tank. Refer to WW-83, "Removal and Installation".
17. Place securely the hood support rod inside the engine mounting bracket hole.
    CAUTION:
    Check that the hood is securely fix.
18. Remove mounting bolts, and then remove radiator core support upper assembly (radiator core support upper center and radiator core support upper side).
19. Remove radiator core support lower assembly (radiator core support side and radiator core support lower) mounting bolts.
20. Remove radiator core support lower assembly (radiator core support side and radiator core support lower) while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser from falling.
    CAUTION:
    Operate with two workers, because of its heavy weight.
21. Put some wooden blocks etc.(A) under radiator and condenser, and use a rope to suspend it to prevent it from falling.
    CAUTION:
    Operate with two workers, because of its heavy weight.



22. Disassembly radiator core support upper side from radiator core support upper center.
23. Disassembly radiator core support side from radiator core support lower.

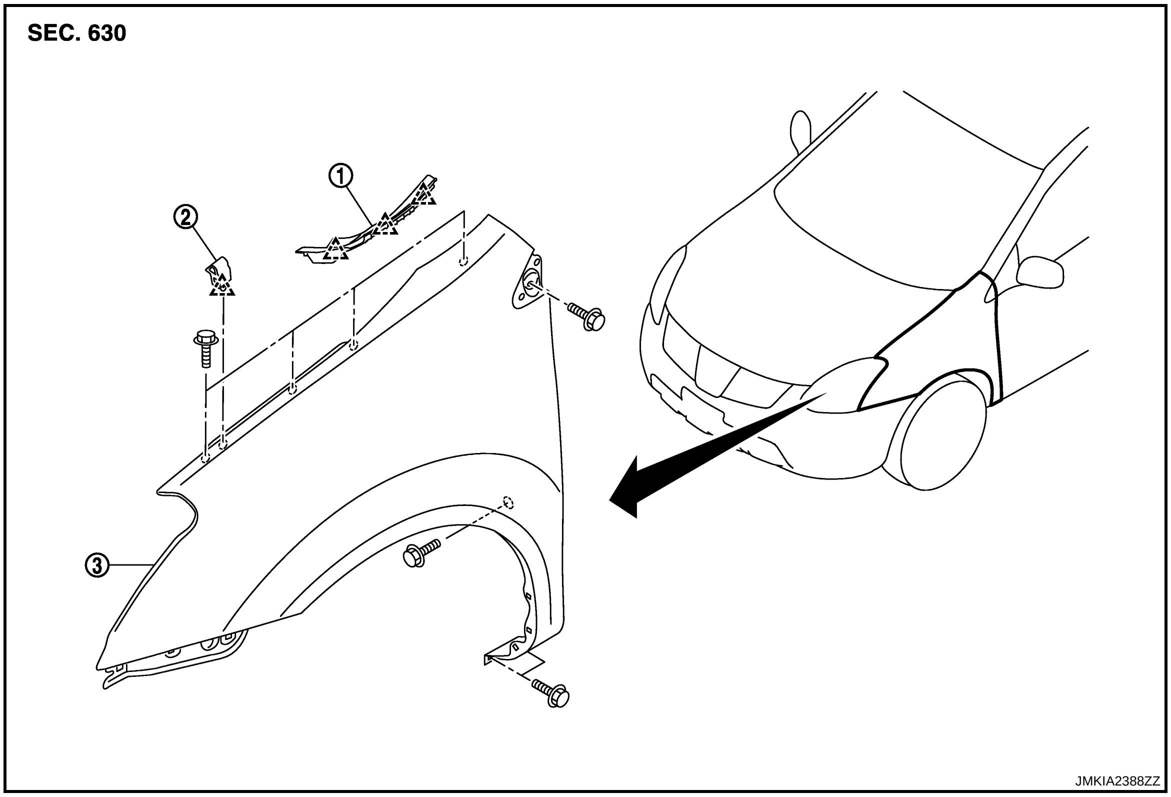
INSTALLATION

Install in the reverse order of removal.

FRONT FENDER

Exploded View

INFOID:0000000003072800



1. Front fender finisher
2. Bumper rubber
3. Front fender

: Pawl

Removal and Installation

INFOID:0000000003072801

CAUTION:
Use a shop cloth to protect the body from being damaged during removal and installation.

REMOVAL

1. Remove front bumper facia. Refer to EXT-14, "Removal and Installation".
2. Remove front combination lamp. Refer to EXL-121, "Removal and Installation" (XENON TYPE), EXL-255, "Removal and Installation" (HALOGEN TYPE).
3. Remove fender protector. Refer to EXT-22, "Removal and Installation".
4. Remove front fender finisher.
5. Remove mounting bolts and remove front fender.
   CAUTION:
   An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, peel of the urethane foam bit at a time, and carefully to remove it.

INSTALLATION

Install in the reverse order of removal.
CAUTION:
- **After installation, check front fender adjustment. Refer to DLK-459, "HOOD ASSEMBLY : Adjustment" and DLK-469, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.**

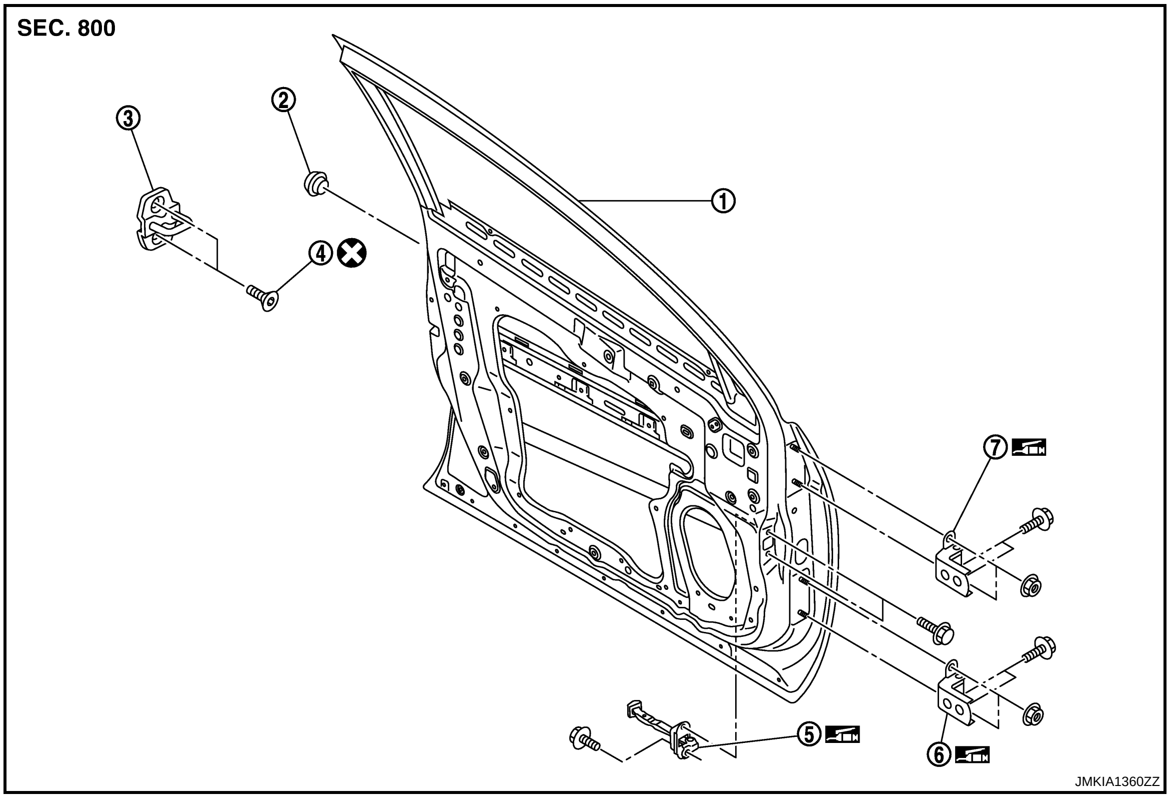
FRONT DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000003072802

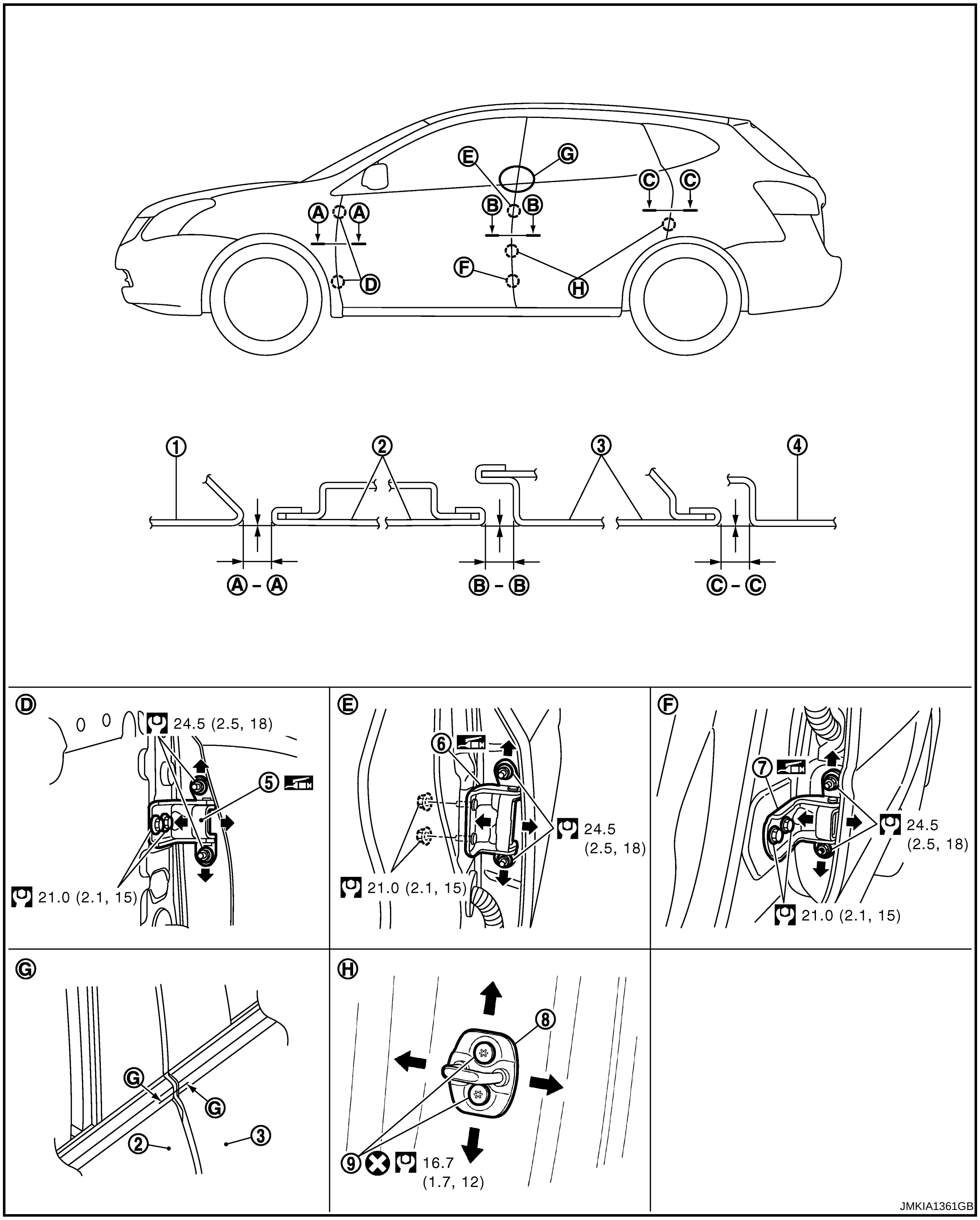
REMOVAL



1. Front door panel
2. Grommet
3. Door striker
4. TORX bolt
5. Door check link
6. Door hinge (lower)
7. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1.	Front fender	2.	Front door	3.	Rear door
4.	Body side outer	5.	Front door hinge	6.	Rear door hinge (upper)
7.	Rear door hinge (lower)	8.	Door striker	9.	TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000003072803

CAUTION:

- **Perform work with 2 workers, because of its heavy weight.**
- **When removing and installing front door assembly, support door with a jack and cloth to protect door and body.**

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Remove front door harness grommet, and then pull out the harness from the vehicle.
3. Disconnect front door harness connector.
4. Remove door hinge mounting nuts (door side), and then remove door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Check front door open/close, lock/unlock operation after installation.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, perform the fitting adjustment. Refer to** **DLK-469, "DOOR ASSEMBLY : Adjustment"****.**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**

DOOR ASSEMBLY : Adjustment

INFOID:0000000003072804

Check the clearance and surface height between front door and each part by visually and touching.
In case any parts are out of specification, adjust them according to the procedures shown below.

Unit : mm (in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	- 1.5 – 1.5 (- 0.059 – 0.059)

1. Remove front fender. Refer to DLK-268, "Removal and Installation".
2. Loosen door hinge mounting nuts on door side.
3. Adjust the surface height of front door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting bolts on body side.
6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
7. After adjustment tighten bolts and nuts to the specified torque.
8. Install front fender. Refer to refer to DLK-268, "Removal and Installation".

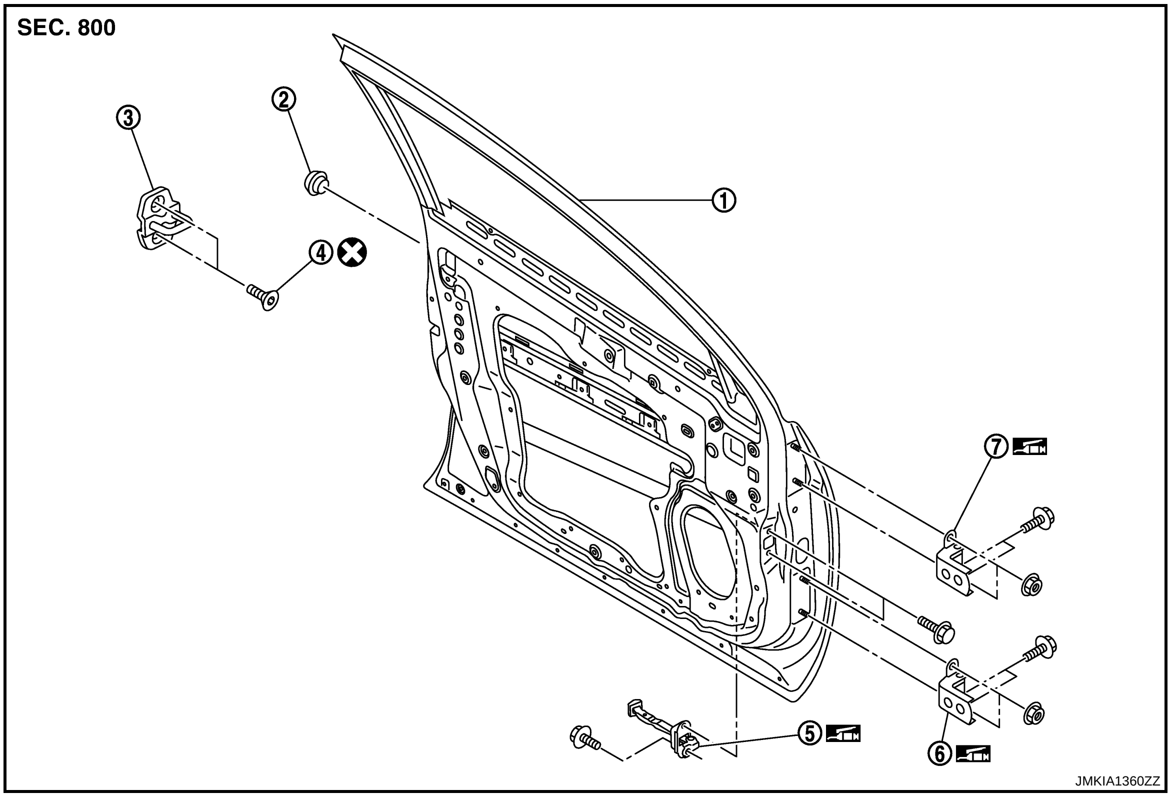
DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Exploded View

INFOID:0000000003072805



1. Front door panel	2. Grommet	3. Door striker
4. TORX bolt	5. Door check link	6. Door hinge (lower)
7. Door hinge (upper)		

Refer to GI-4, "Components" for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:0000000003072806

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

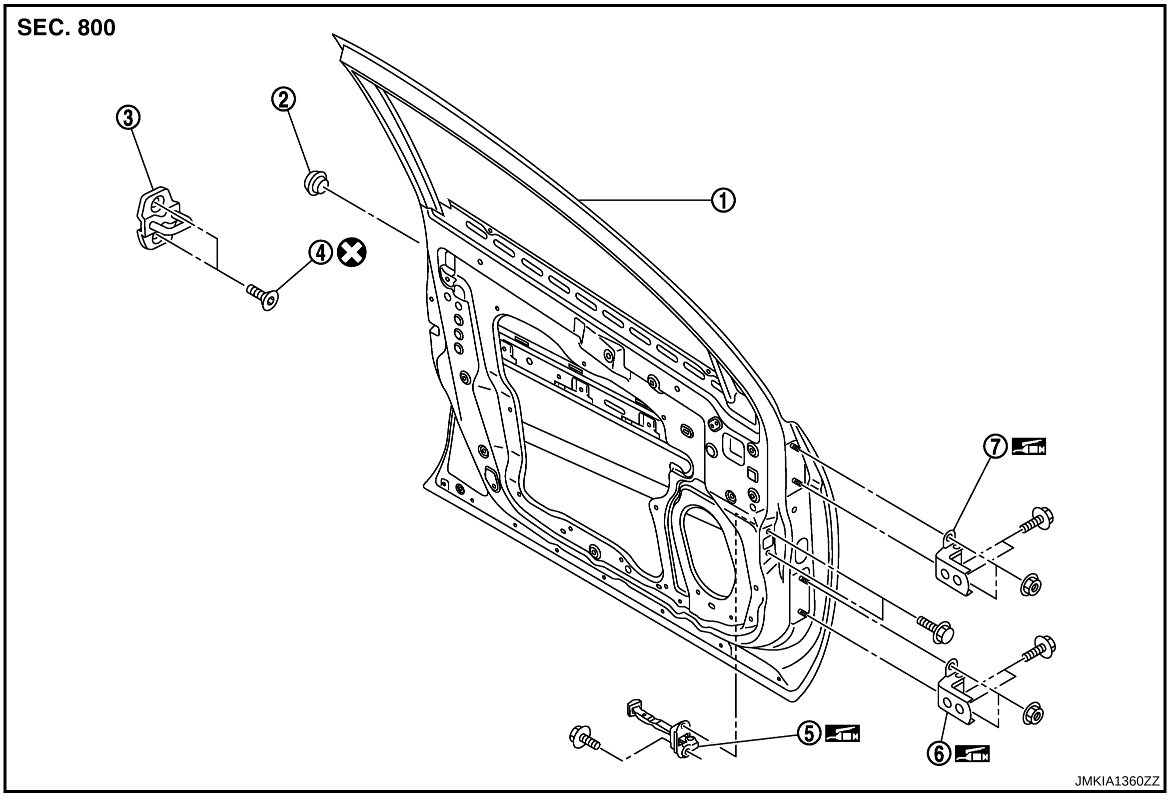
CAUTION:

- **Check front door open/close, lock/unlock operation after installation.**
- **After installation, be sure to perform the fitting adjustment. Refer to DLK-469, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:0000000003072807



1.	Front door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Door check link	6.	Door hinge (lower)
7.	Door hinge (upper)				

Refer to GI-4, "Components" for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:0000000003072809

REMOVAL

1. Remove front door assembly. Refer to DLK-468, "DOOR ASSEMBLY : Removal and Installation".
2. Remove front door hinge mounting bolts, and then remove front door hinge.

INSTALLATION

Install in the reverse order of removal.

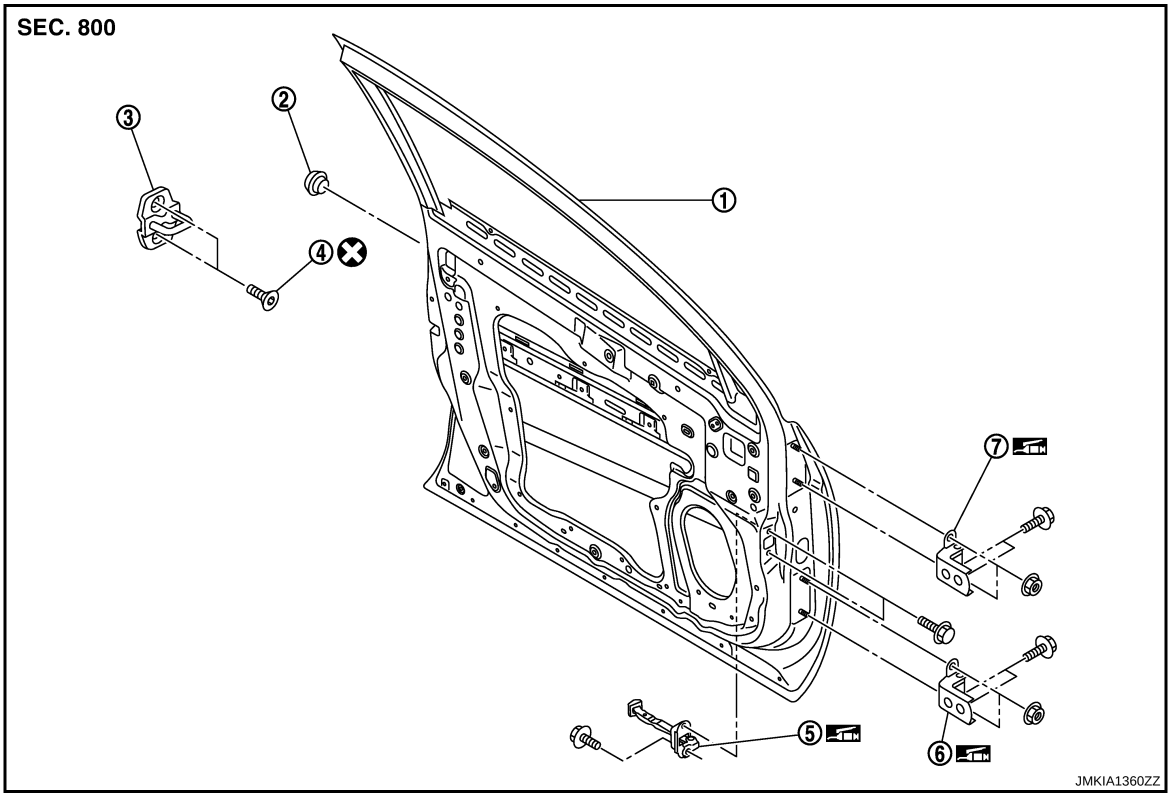
CAUTION:

- **Check front door open/close, lock/unlock operation after installation.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, perform the fitting adjustment. Refer to DLK-469, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**

DOOR CHECK LINK

DOOR CHECK LINK : Exploded View

INFOID:0000000003072810



1.	Front door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Door check link	6.	Door hinge (lower)
7.	Door hinge (upper)				

Refer to GI-4, "Components" for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:0000000003072812

REMOVAL

1. Fully close the front door window.
2. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER : Removal and Installation".
3. Remove front door speaker.
4. Remove mounting bolts of door check link on the vehicle.
5. Remove mounting bolts of door check link on door panel.
6. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check front door open/close operation after installation.

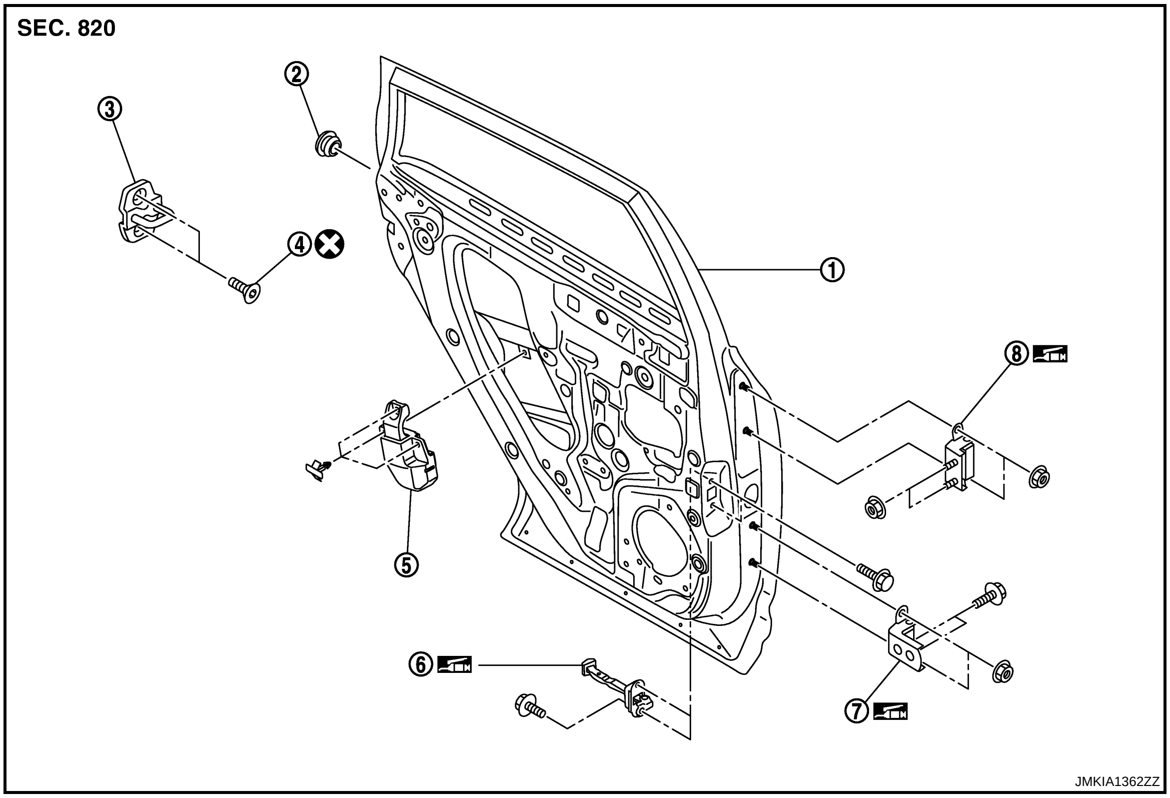
REAR DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000003072813

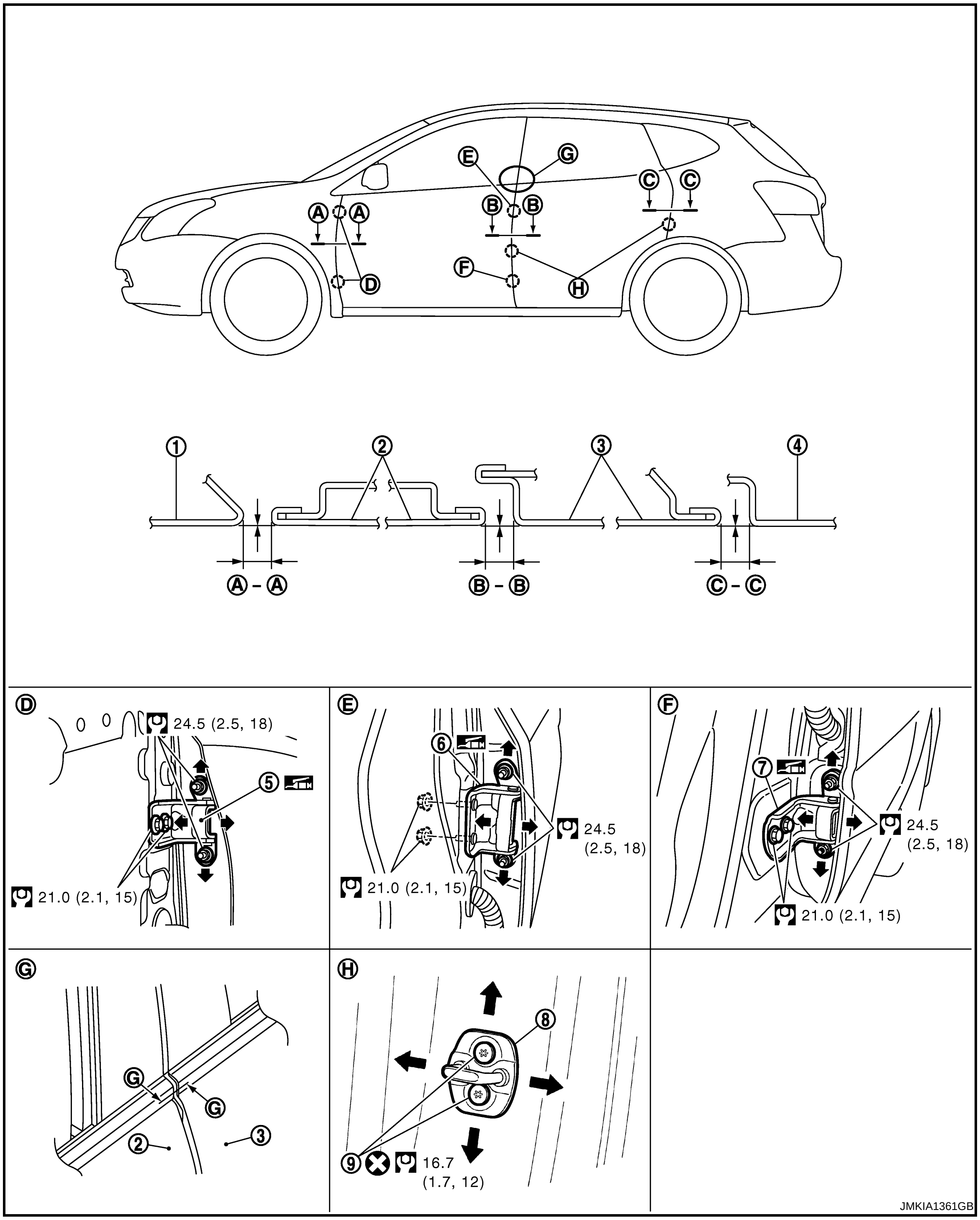
REMOVAL



1.	Rear door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Pad	6.	Door check link
7.	Door hinge (lower)	8.	Door hinge (upper)		

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1.	Front fender	2.	Front door	3.	Rear door
4.	Body side outer	5.	Front door hinge	6.	Rear door hinge (upper)
7.	Rear door hinge (lower)	8.	Door striker	9.	TORX bolt

Refer to GI-4, "Components" for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000003072814

CAUTION:

- **Perform work with 2 workers, because of it's heavy weight.**
- **When removing and installing rear door assembly, support door with a jack and cloth to protect door and body.**

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Remove rear door harness grommet, and then pull out door harness from the vehicle.
3. Disconnect rear door harness connector.
4. Remove door hinge mounting nuts (door side), and then remove rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Check rear door open/close, lock/unlock operation after installation.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, perform the fitting adjustment. Refer to DLK-475, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**

DOOR ASSEMBLY : Adjustment

INFOID:0000000003072815

Check the clearance and surface height between rear door and each part by visually and touching.
In case any parts are out of specification, adjust them according to the procedures shown below.

Unit : mm (in)

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Rear door – Body side outer	C – C	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	-1.5 – 1.5 (-0.059 – 0.059)

1. Remove center pillar lower garnish. Refer to 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 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".

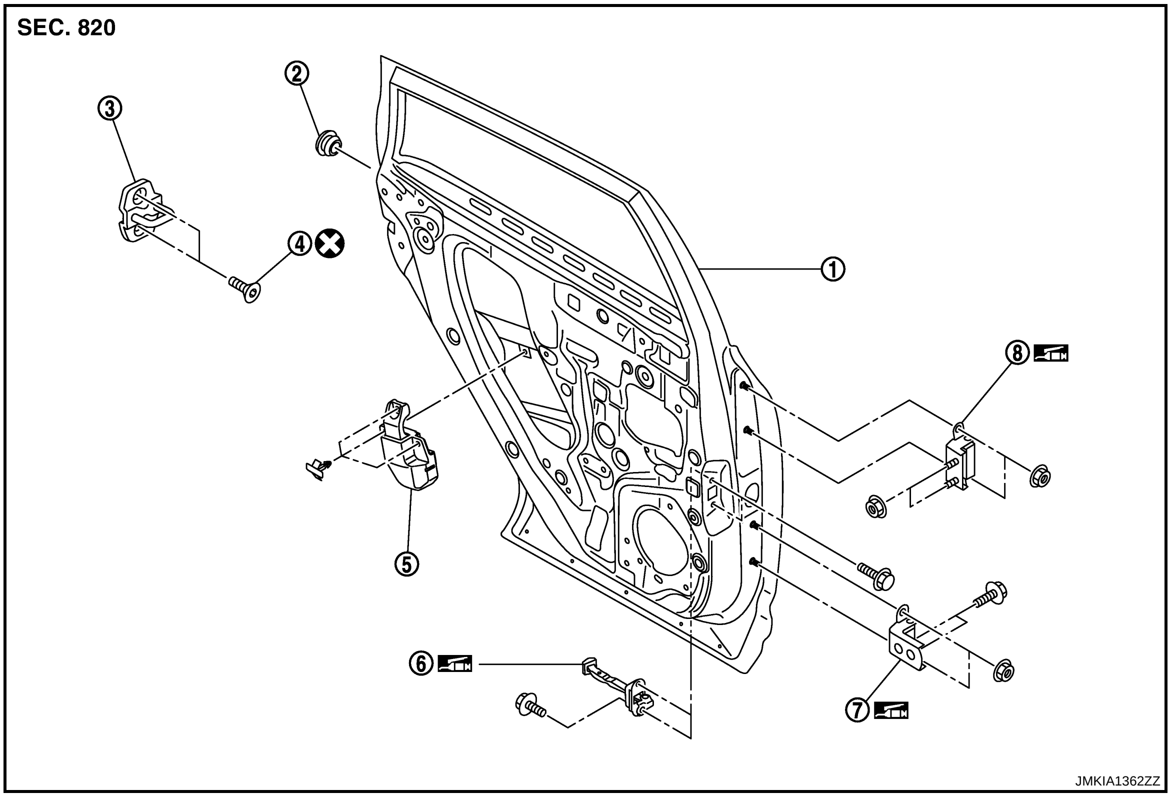
DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Exploded View

INFOID:0000000003072816



1. Rear door panel
2. Grommet
3. Door striker
4. TORX bolt
5. Pad
6. Door check link
7. Door hinge (lower)
8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:0000000003072817

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

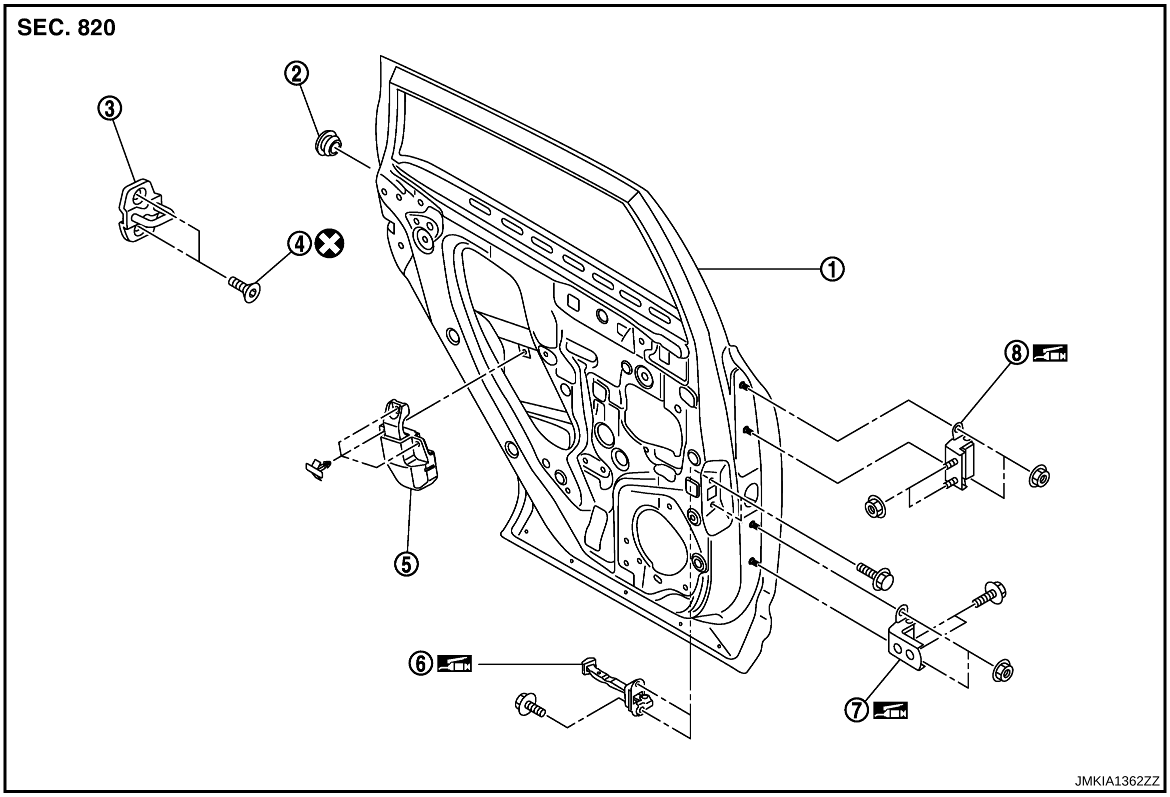
CAUTION:

- **Check rear door open/close, lock/unlock operation after installation.**
- **After installation, be sure to perform the fitting adjustment. Refer to DLK-475, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:0000000003072818



1.	Rear door panel	2.	Grommet	3.	Door striker
4.	TORX bolt	5.	Pad	6.	Door check link
7.	Door hinge (lower)	8.	Door hinge (upper)		

Refer to GI-4, "Components" for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:0000000003072820

REMOVAL

1. Remove center pillar lower garnish. Refer to INT-17, "Removal and Installation".
2. Remove rear door assembly. Refer to DLK-474, "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.

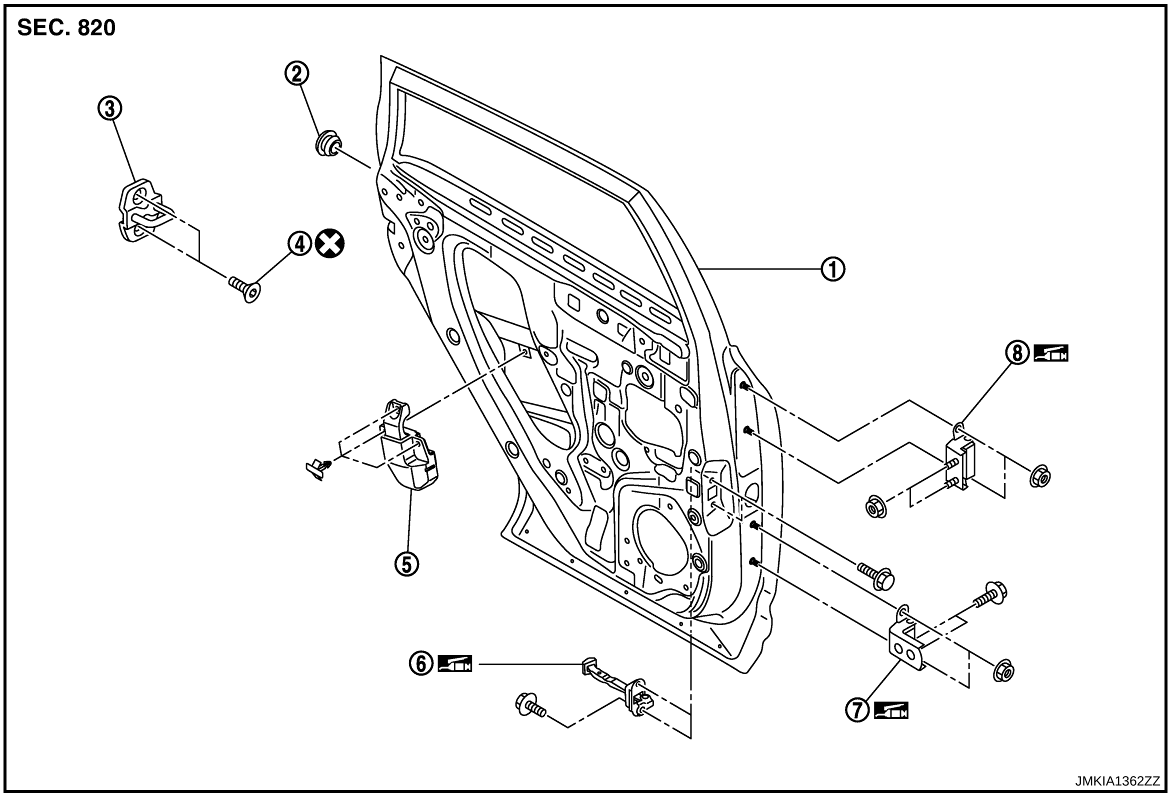
CAUTION:

- **Check rear door open/close operation after installation.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **When removing and installing rear door assembly, perform the fitting adjustment. Refer to DLK-475, "DOOR ASSEMBLY : Adjustment".**
- **After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.**

DOOR CHECK LINK

DOOR CHECK LINK : Exploded View

INFOID:0000000003072821



1. Rear door panel
2. Grommet
3. Door striker
4. TORX bolt
5. Pad
6. Door check link
7. Door hinge (lower)
8. Door hinge (upper)

Refer to GI-4, "Components" for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:0000000003072823

REMOVAL

1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Remove rear door speaker.
3. Remove mounting bolts of the check link on the vehicle.
4. Remove mounting bolts of the check link on door panel.
5. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check rear door open/close operation after installation.

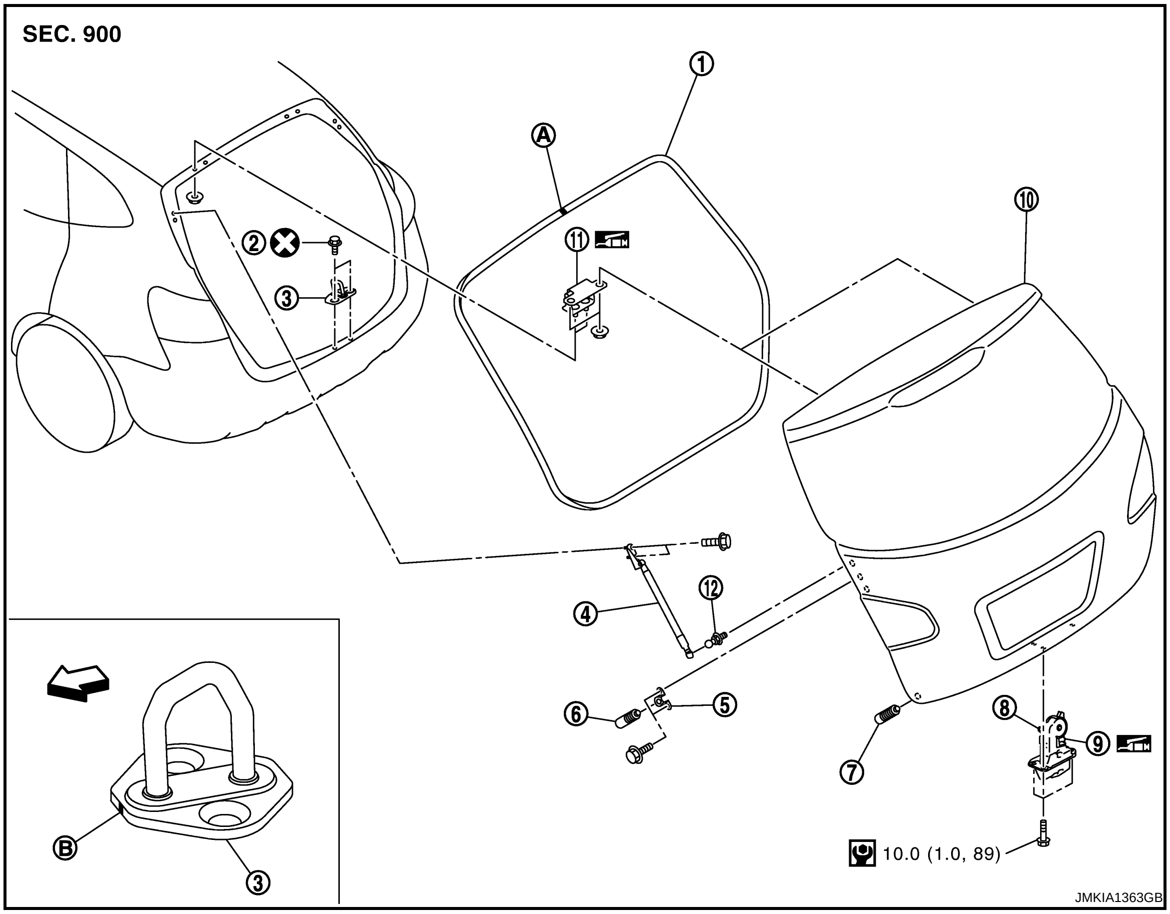
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:0000000003072824

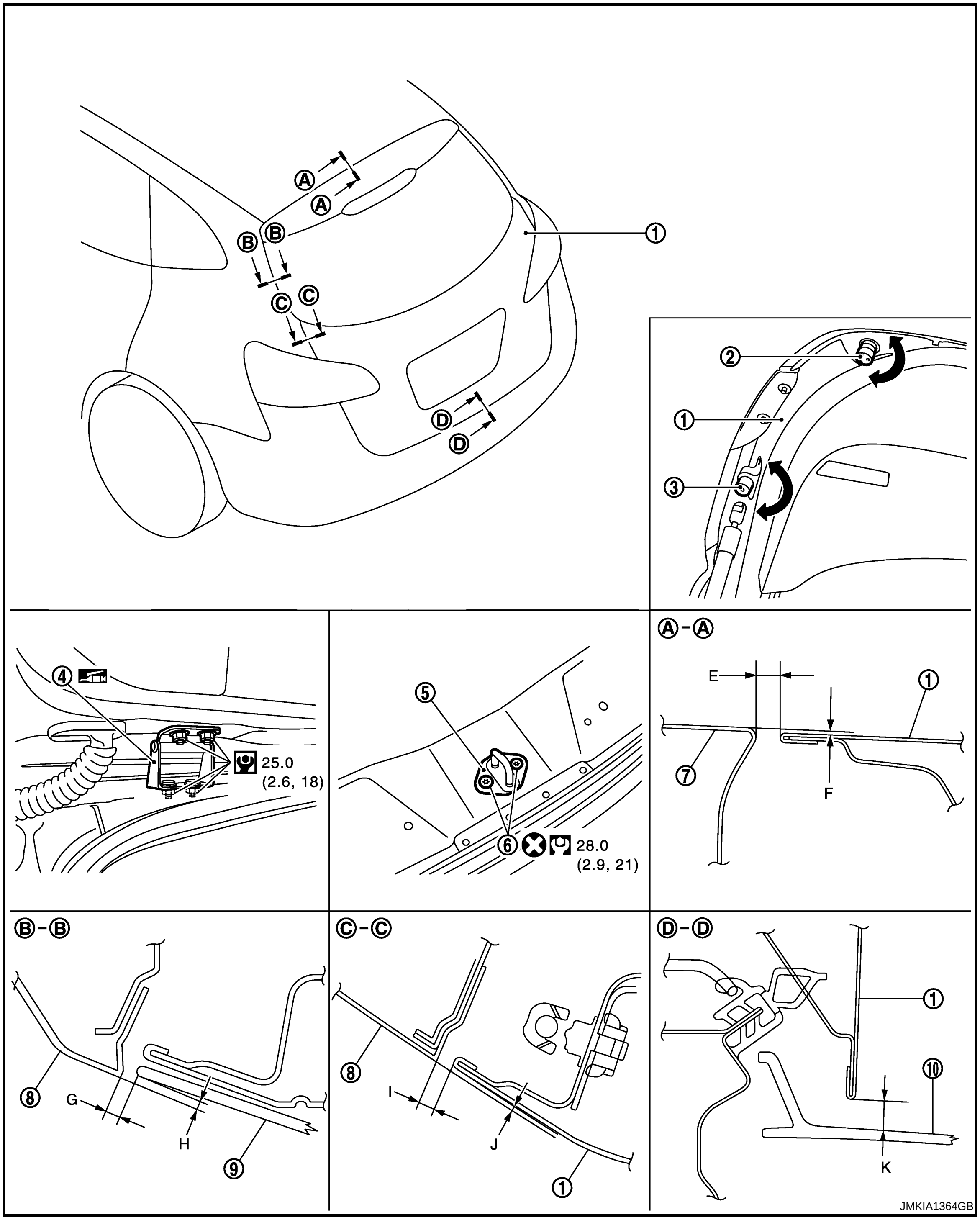
REMOVAL



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1. Back door assembly
2. Bumper rubber lower
3. Bumper rubber side
4. Back door hinge
5. Back door striker
6. TORX bolt
7. Roof
8. Body side outer
9. Back door glass
10. Rear bumper

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:0000000003072825

REMOVAL

1. Remove back door lower finisher inner, back door upper finisher inner, back door side finisher inner. Refer to INT-34, "Removal and Installation".

2. Disconnect connectors in back door, and then remove grommet, and pull out harness.
3. Remove grommet, and then disconnect connectors, and washer tube.
4. Pull harness and washer tube out of back door.
5. Support back door lock with the proper material to prevent it from falling.
6. Remove back door stay. Refer to DLK-484, "BACK DOOR STAY : Removal and Installation".
   CAUTION:
   Perform work with 2 workers, because of its heavy weight.
7. Remove back door hinge mounting nuts on back door and remove back door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Check back door open/close, lock/unlock operation after installation.**
- **After installation, perform fitting adjustment. Refer to DLK-481, "BACK DOOR ASSEMBLY : Adjustment".**

BACK DOOR ASSEMBLY : Adjustment

INFOID:0000000003072826

Check the clearance and the surface height between back door and each part by visually and touching.
In case any parts are out of specification, adjust them according to the procedures shown below.

Unit : mm (in)

Portion				Standard
Back door – Roof	A – A	E	Clearance	4.3 – 6.8 (0.169 – 0.268)
		F	Surface height	-2.0 – 0.5 (-0.079 – 0.020)
Back door glass – Body side outer	B – B	G	Clearance	2.7 – 7.3 (0.106 – 0.287)
		H	Surface height	0.4 – 4.1 (0.016 – 0.161)
Back door – Body side outer	C – C	I	Clearance	4.1 – 6.1 (0.161 – 0.240)
		J	Surface height	-0.2 – 1.8 (-0.008 – 0.071)
Back door – Rear bumper	D – D	K	Clearance	5.9 – 9.9 (0.232 – 0.390)

1. Loosen bumper rubber.
2. Loosen back door striker mounting bolts.
3. Lift up back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with back door closed.
4. Check the clearance and surface height.
5. Finally tighten back door striker.

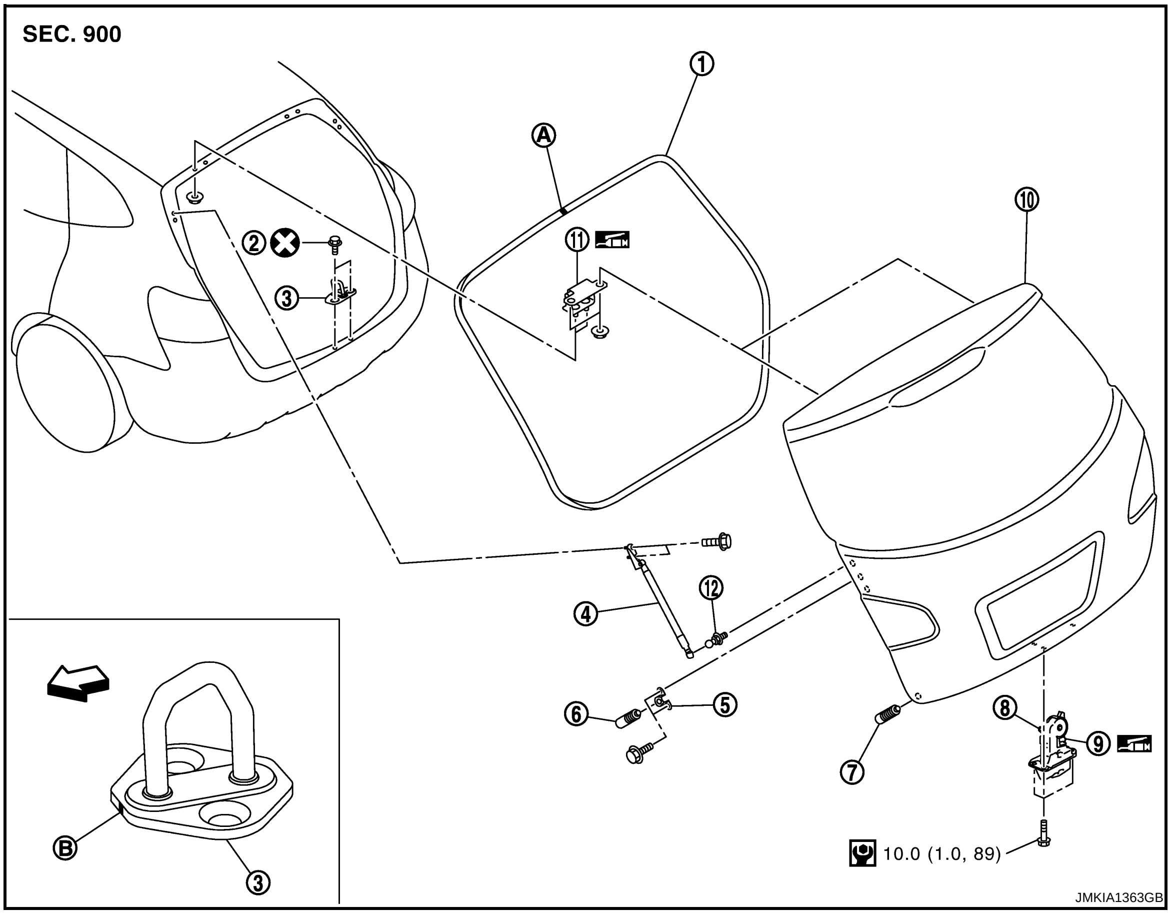
BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that i becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

BACK DOOR STRIKER : Exploded View

INFOID:0000000003072827



1. Back door weather-strip	2. TORX bolt	3. Back door striker
4. Back door stay	5. Bumper rubber bracket	6. Bumper rubber side
7. Bumper rubber lower	8. Emergency lever	9. Back door lock assembly
10. Back door assembly	11. Back door hinge	12. Back door stay stud ball
A :Center mark	B :Front mark	
⇦ :Vehicle front		

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:0000000003072828

REMOVAL

Remove TORX bolts, and then remove back door striker.

INSTALLATION

Install in the reverse order of removal.

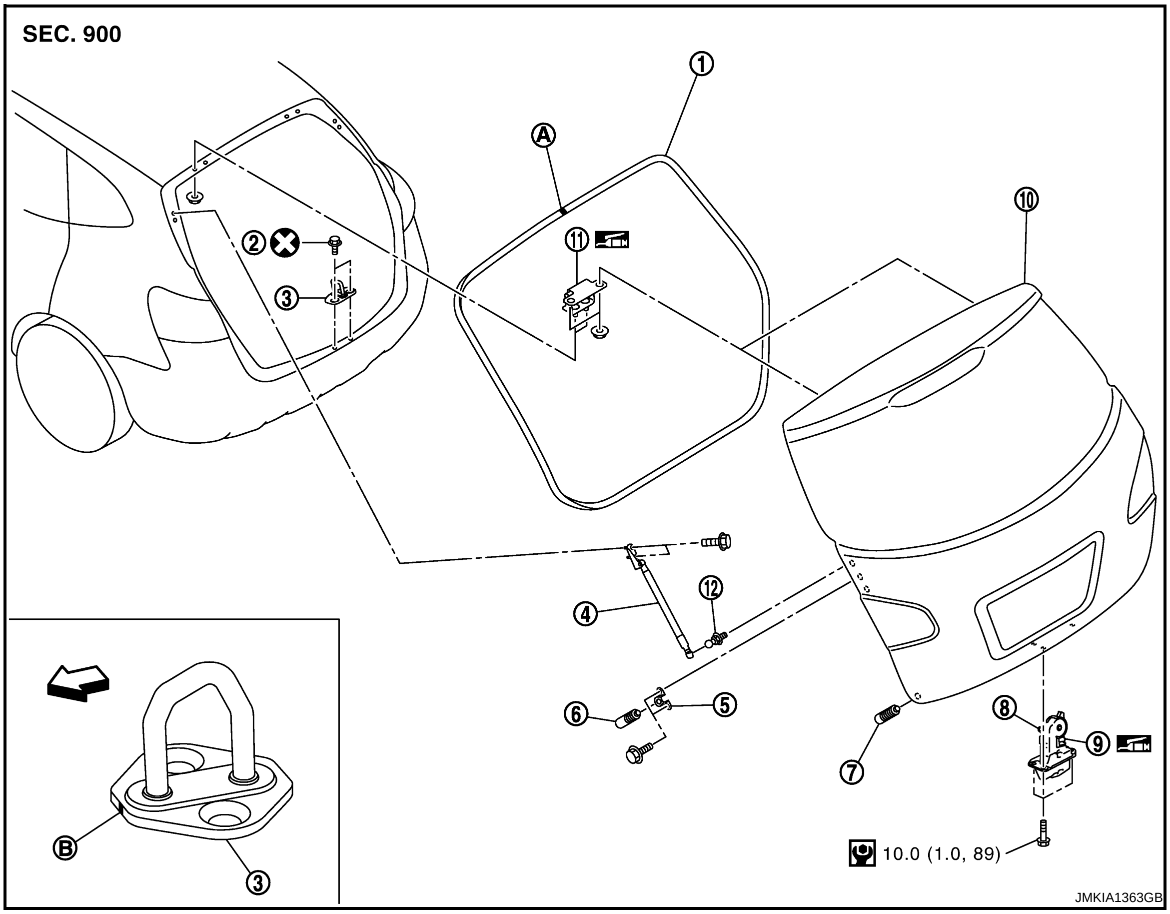
CAUTION:

- **Check back door open/close operation after installation.**
- **When removing and installing back door striker, be sure to perform the fitting adjustment. Refer to DLK-481, "BACK DOOR ASSEMBLY : Adjustment".**

BACK DOOR HINGE

BACK DOOR HINGE : Exploded View

INFOID:0000000003072829



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:0000000003072831

REMOVAL

1. Remove back door assembly. Refer to DLK-480, "BACK DOOR ASSEMBLY : Removal and Installation".
2. Remove back door weather-strip. Refer to DLK-485, "BACK DOOR WEATHER-STRIP : Removal and Installation".
3. Remove luggage side lower finisher and luggage side upper finisher. Refer to INT-32, "Removal and Installation".
4. Using remover tool, remove headlining clip at the rear side of headlining. Refer to INT-24, "NORMAL ROOF : Removal and Installation" (NORMAL ROOF), INT-27, "SUNROOF : Removal and Installation" (SUNROOF).
5. Remove rear side of headlining. Refer to INT-24, "NORMAL ROOF : Exploded View" (NORMAL ROOF), INT-27, "SUNROOF : Exploded View" (SUNROOF).
6. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

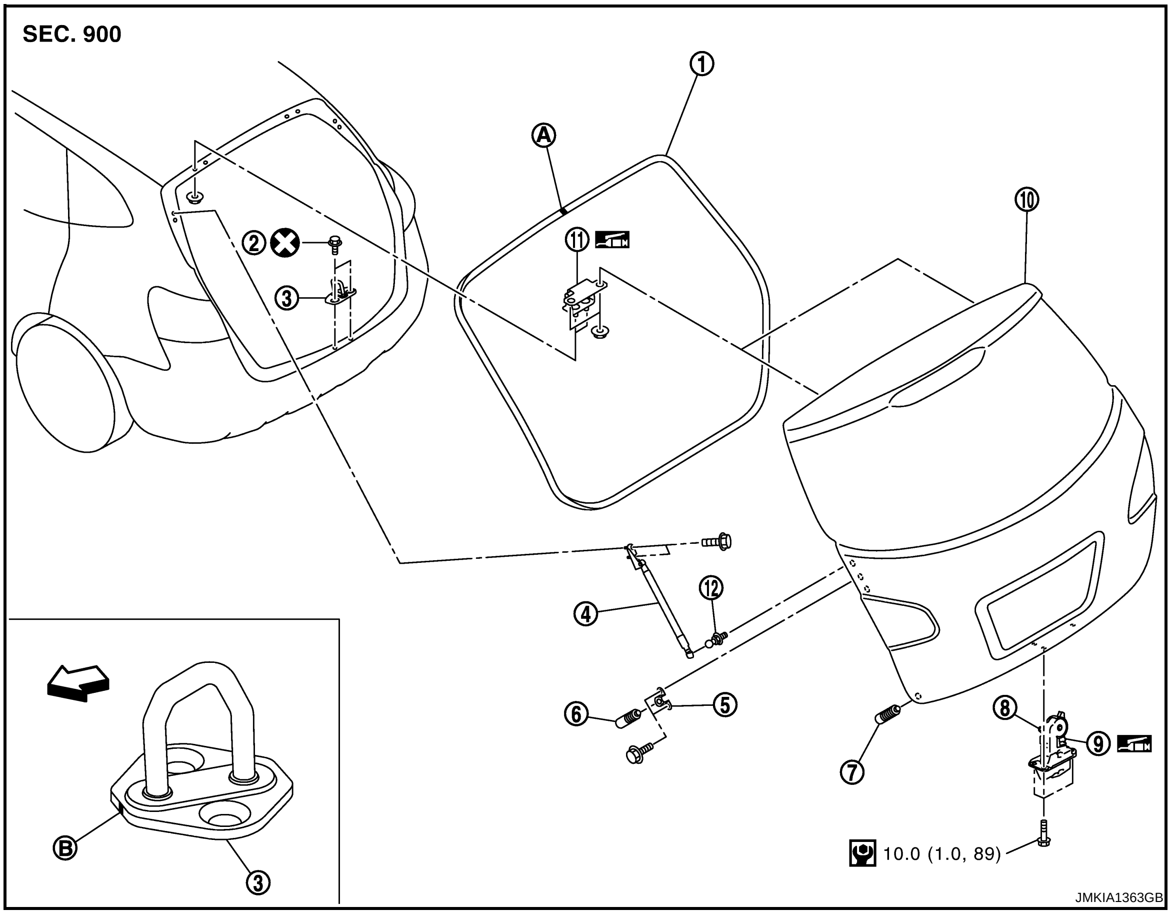
Install in the reverse order of removal.

CAUTION:
- **Check back door open/close operation after installation.**
- **Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **When removing and installing back door assembly, perform the fitting adjustment. Refer to DLK-481, "BACK DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.**

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:0000000003072832



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:0000000003072834

REMOVAL

1. Remove mounting bolts (body side), and then remove back door stay bracket.
2. Remove stud ball (back door side), and then remove back door stay.

INSTALLATION

Install in the reverse order of removal.

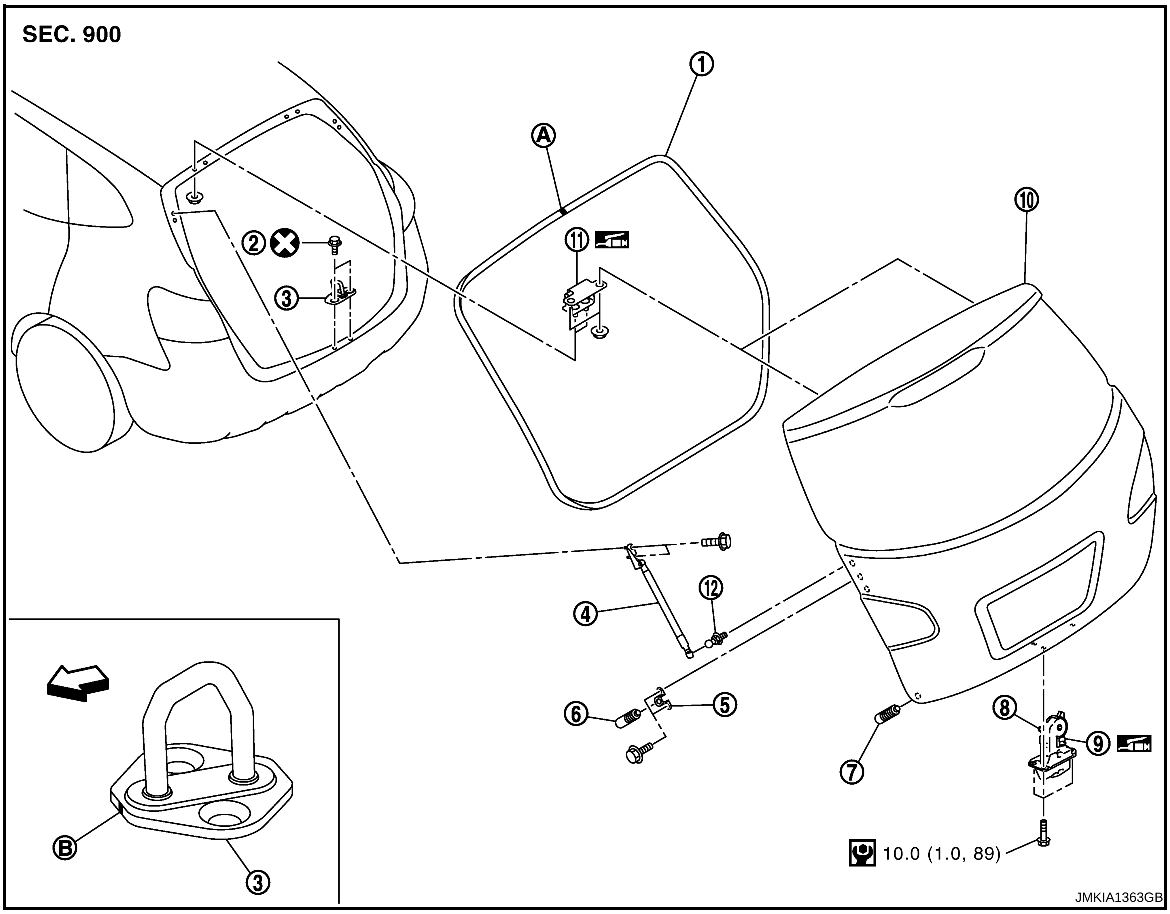
CAUTION:

Check back door open/close operation after installation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:0000000003072835



1.	Back door weather-strip	2.	TORX bolt	3.	Back door striker
4.	Back door stay	5.	Bumper rubber bracket	6.	Bumper rubber side
7.	Bumper rubber lower	8.	Emergency lever	9.	Back door lock assembly
10.	Back door assembly	11.	Back door hinge	12.	Back door stay stud ball
A	:Center mark	B	:Front mark		
⇦	:Vehicle front				

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000003072837

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

After removal, do not pull strongly on weather-strip.

INSTALLATION

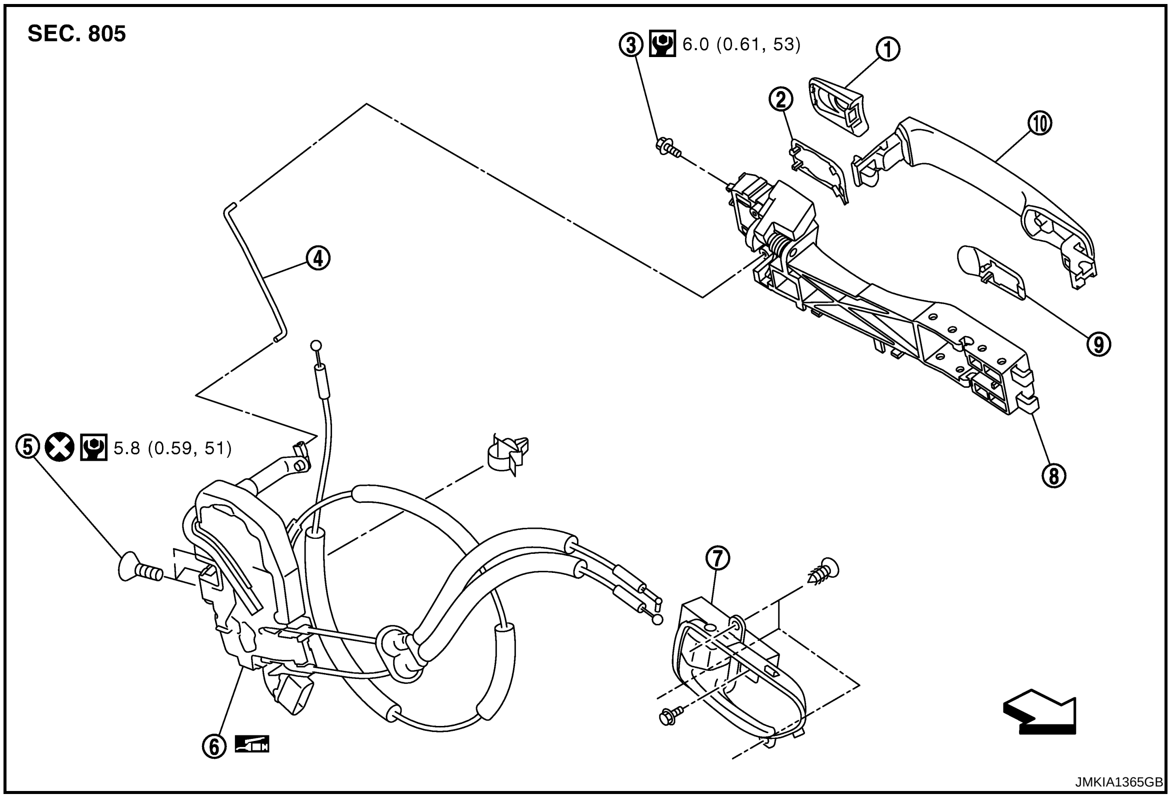
1. Working from the upper section, align weather-strip mark with vehicle center position mark and install weather-strip onto the vehicle.
2. For the lower section, align weather-strip seam with center of back door striker.
3. After installation, pull weather-strip gently to ensure that there is no loose section.
   NOTE:
   Make sure that weather-strip is fit tightly at each corner and luggage rear plate.

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000003072838



1. Door key cylinder assembly (driver side)
   Outside handle escutcheon (passenger side)
2. Rear gasket
3. TORX bolt
4. Key rod
5. TORX bolt
6. Door lock assembly
7. Inside handle
8. Outside handle bracket
9. Front gasket
10. Outside handle assembly

⇦ :Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

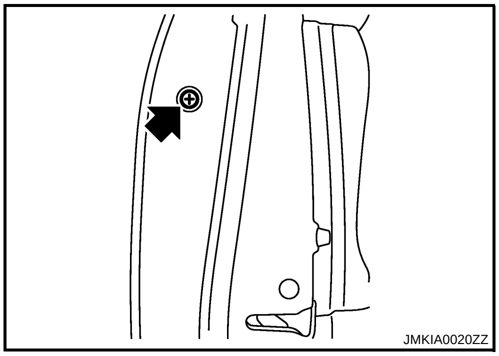
DOOR LOCK : Removal and Installation

INFOID:0000000003072839

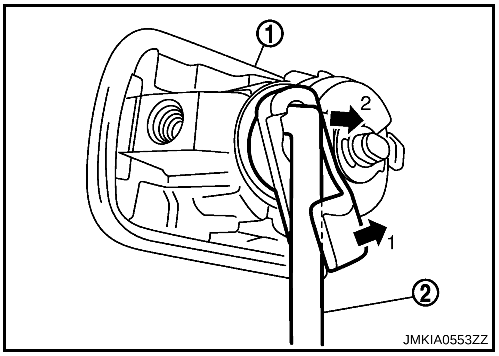
REMOVAL

1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove front door glass. Refer to GW-19, "Removal and Installation".
4. Remove front door module assembly. Refer to GW-22, "Removal and Installation".
5. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

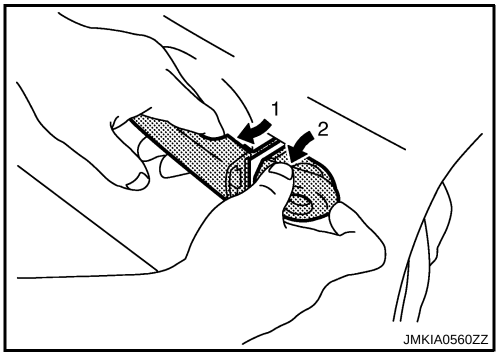
6. Remove door side grommet, and loosen TORX bolt from grommet hole.
   CAUTION:
   Do not forcibly remove TORX bolt.



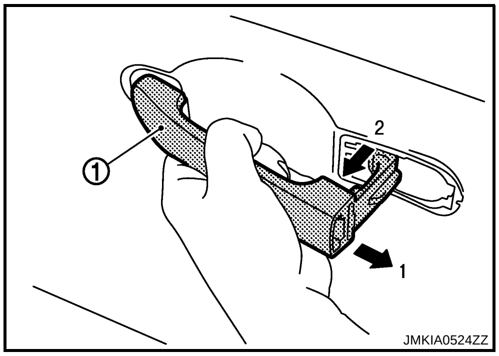
7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).
   1. Door key cylinder assembly
   2. Key rod



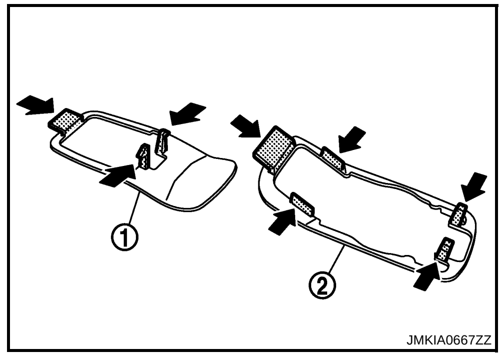
8. While pulling outside handle, remove door key cylinder assembly.



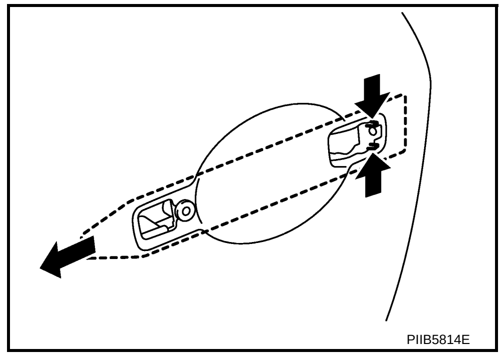
9. Disconnect front door request switch harness connector (models with Intelligent Key system).
10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



13. Reach in to separate outside handle cable connection on outside handle bracket.
14. Remove door lock assembly TORX bolts.
15. Disconnect door lock actuator connector, and then remove door lock assembly.
16. Remove key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

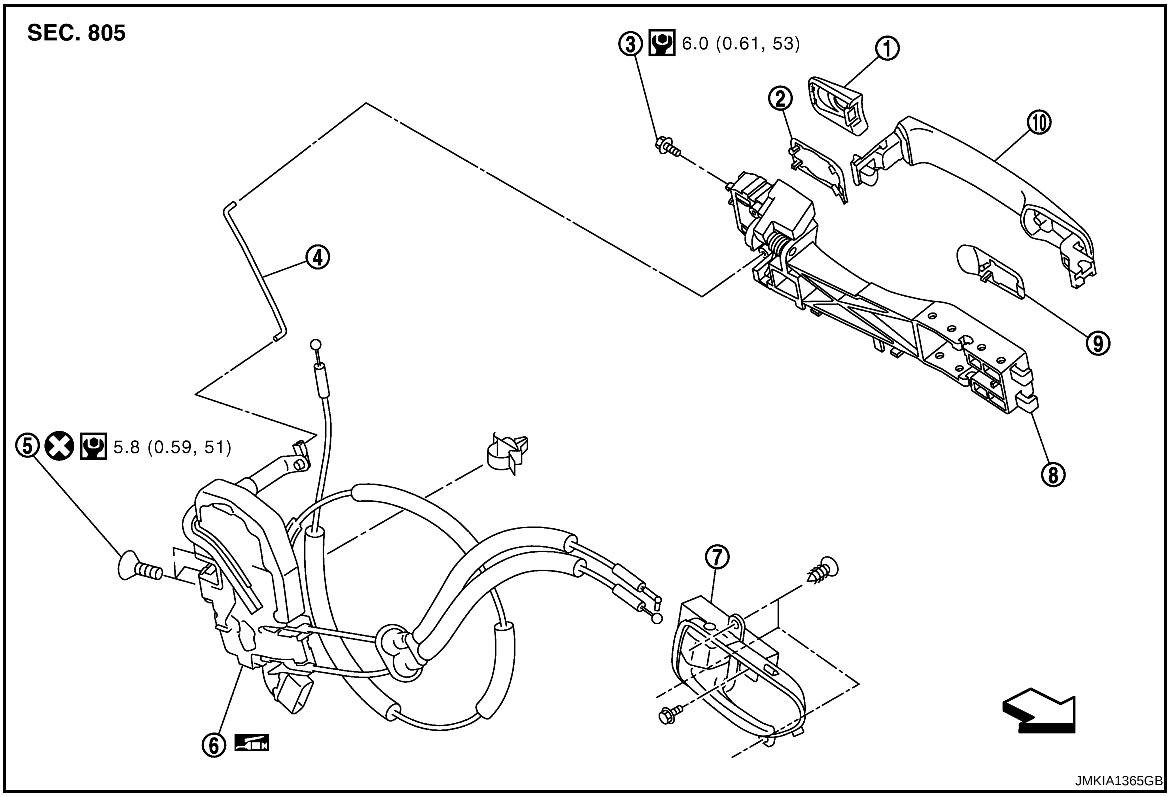
CAUTION:

- **To install each rod, rotate rod holder until a click is felt.**
- **Check door open/close, lock/unlock operation after installation.**

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:0000000003072840



1.	Door key cylinder assembly (driver side) Outside handle escutcheon (passenger side)	2.	Rear gasket	3.	TORX bolt
4.	Key rod	5.	TORX bolt	6.	Door lock assembly
7.	Inside handle	8.	Outside handle bracket	9.	Front gasket
10.	Outside handle assembly				

⇦ :Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:0000000003072842

REMOVAL

1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER : Removal and Installation".
2. Remove inside handle mounting screws.
3. Disconnect inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

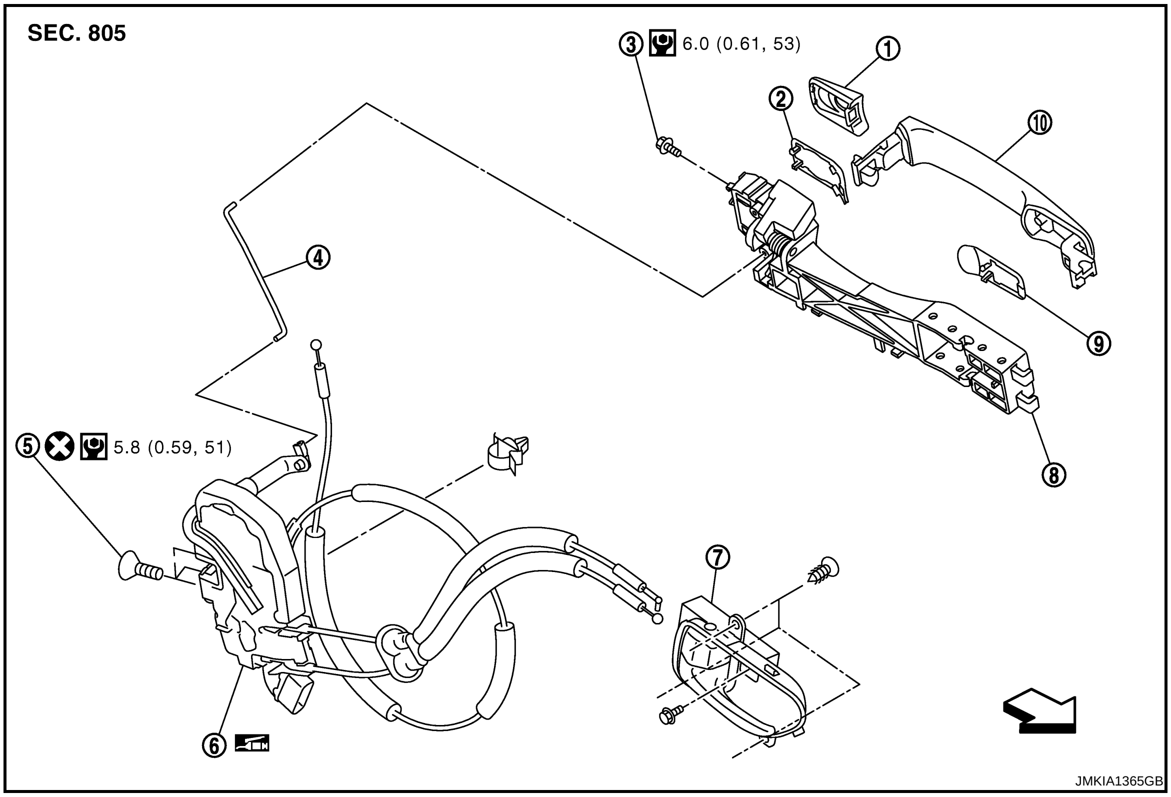
CAUTION:

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:0000000003072843



1. Door key cylinder assembly (driver side)
   Outside handle escutcheon (passenger side)
2. Rear gasket
3. TORX bolt
4. Key rod
5. TORX bolt
6. Door lock assembly
7. Inside handle
8. Outside handle bracket
9. Front gasket
10. Outside handle assembly

⇦ :Vehicle front

Refer to GI-4, "Components" for symbols in the figure.

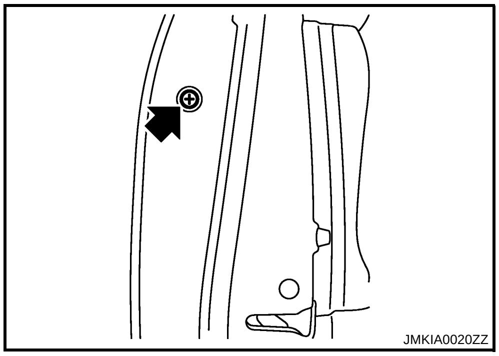
OUTSIDE HANDLE : Removal and Installation

INFOID:0000000003072845

REMOVAL

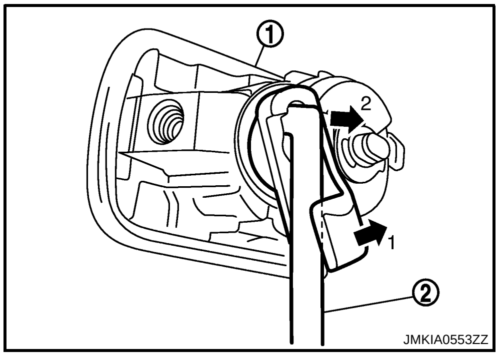
1. Remove front door finisher. Refer to INT-11, "FRONT DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove front door glass. Refer to GW-19, "Removal and Installation".
4. Remove front door module assembly. Refer to GW-22, "Removal and Installation".
5. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

6. Remove door side grommet, and loosen TORX bolt from grommet hole.
   CAUTION:
   Do not forcibly remove TORX bolt.

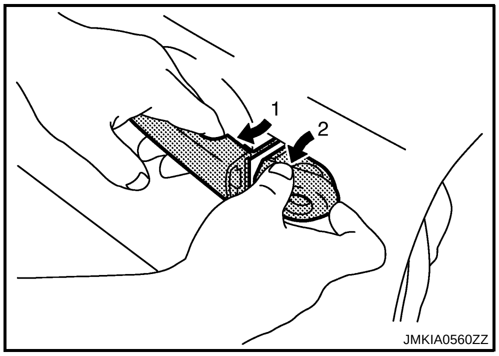


7. Reach in to separate door key cylinder rod connection (on the handle) (driver side).

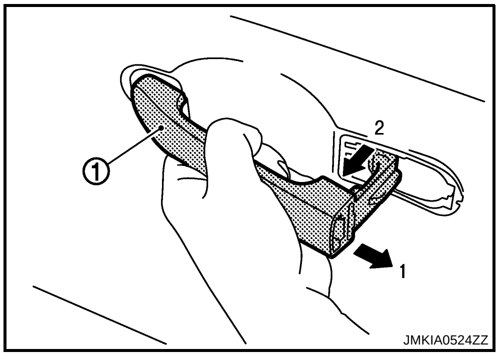
   1. Door key cylinder assembly
   2. Key rod



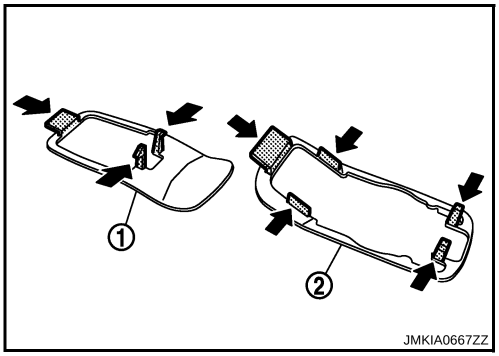
8. While pulling outside handle, remove door key cylinder assembly.



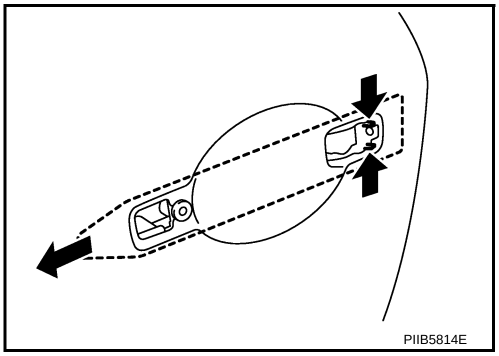
9. Disconnect front door request switch harness connector (models with Intelligent Key system).
10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



11. Remove front gasket (1) and rear gasket (2).



12. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



13. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

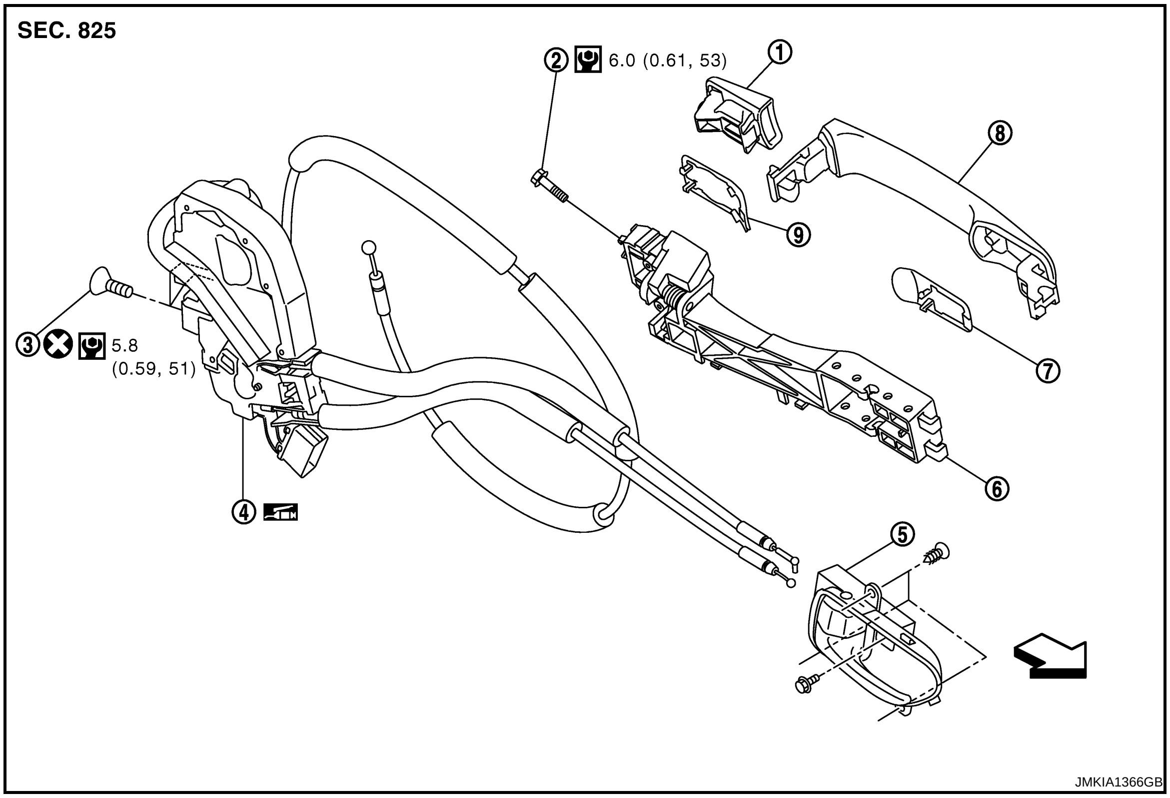
- **To install each rod, rotate rod holder until a click is felt.**
- **Check door open/close, lock/unlock operation after installation.**

REAR DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000003072846



1.	Outside handle escutcheon	2.	TORX bolt	3.	TORX bolt
4.	Door lock assembly	5.	Inside handle	6.	Outside handle bracket
7.	Front gasket	8.	Outside handle assembly	9.	Rear gasket

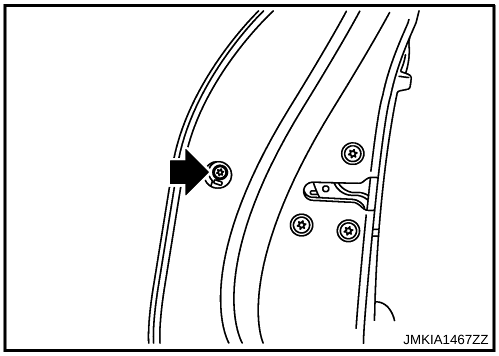
Refer to GI-4, "Components" for symbols in the figure.

DOOR LOCK : Removal and Installation

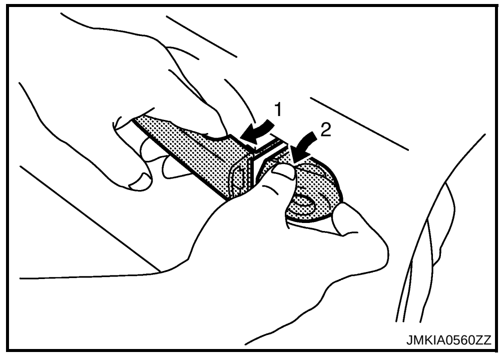
INFOID:0000000003072847

REMOVAL

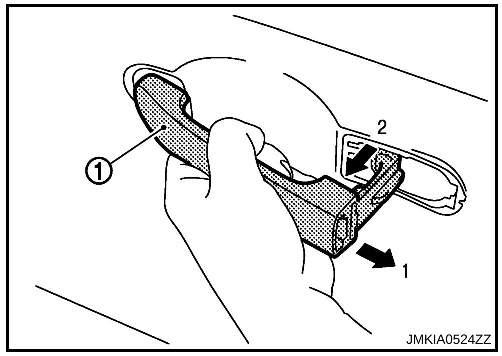
1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove rear door glass. Refer to GW-25, "Removal and Installation".
4. Remove door side grommet, and loosen TORX bolt from grommet hole.



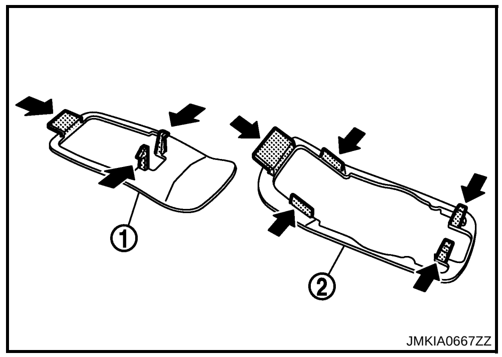
5. While pulling outside handle, remove outside handle escutcheon.



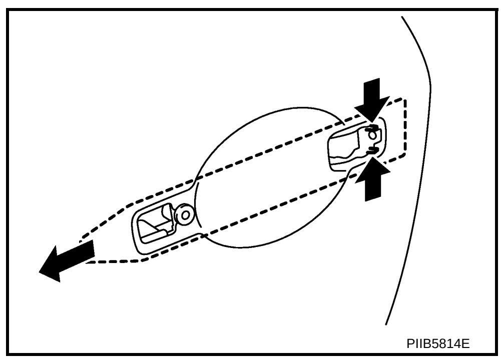
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.
10. Disconnect harness connector on door lock actuator.
11. Remove door lock mounting bolts.
12. Remove door lock assembly.

INSTALLATION

Install in the reverse order of removal.

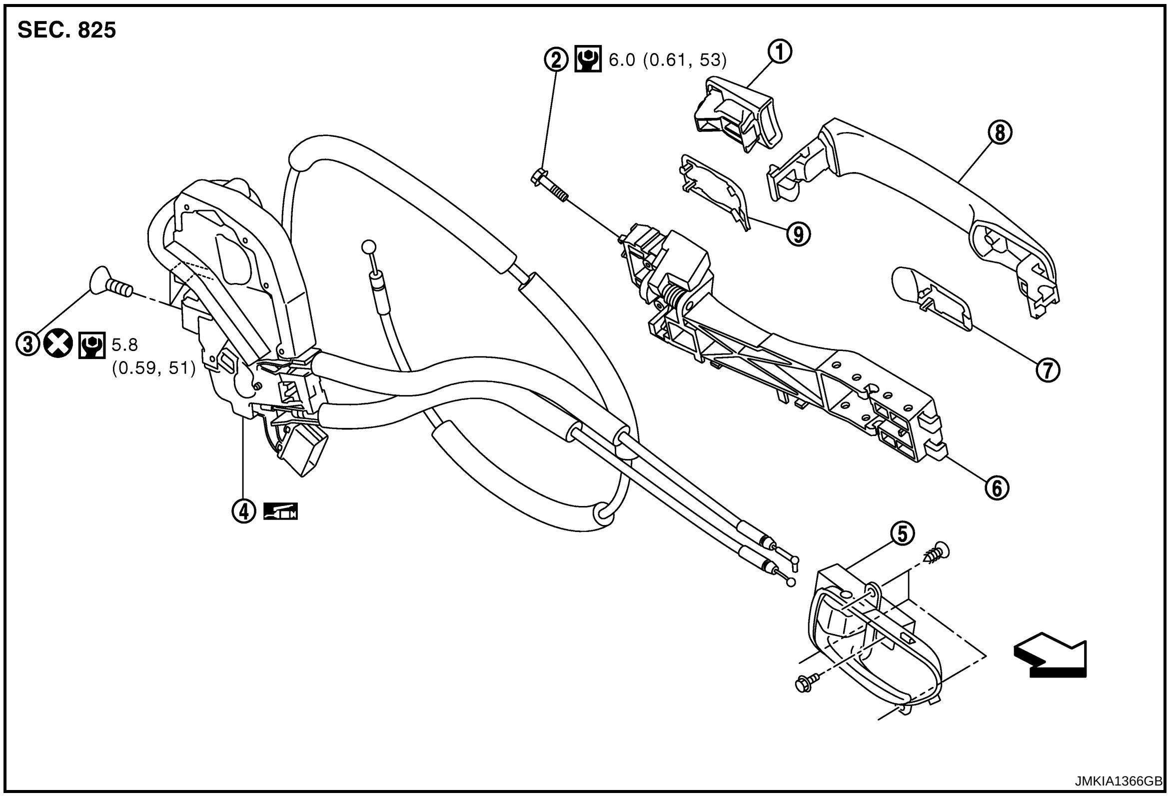
CAUTION:

Check door open/close, lock/unlock operation after installation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:0000000003072848



1.	Outside handle escutcheon	2.	TORX bolt	3.	TORX bolt
4.	Door lock assembly	5.	Inside handle	6.	Outside handle bracket
7.	Front gasket	8.	Outside handle assembly	9.	Rear gasket

Refer to GI-4, "Components" for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:0000000003072850

REMOVAL

1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Remove inside handle mounting screws.
3. Disconnect inside handle cable, and then remove inside handle.

INSTALLATION

Install in the reverse order of removal.

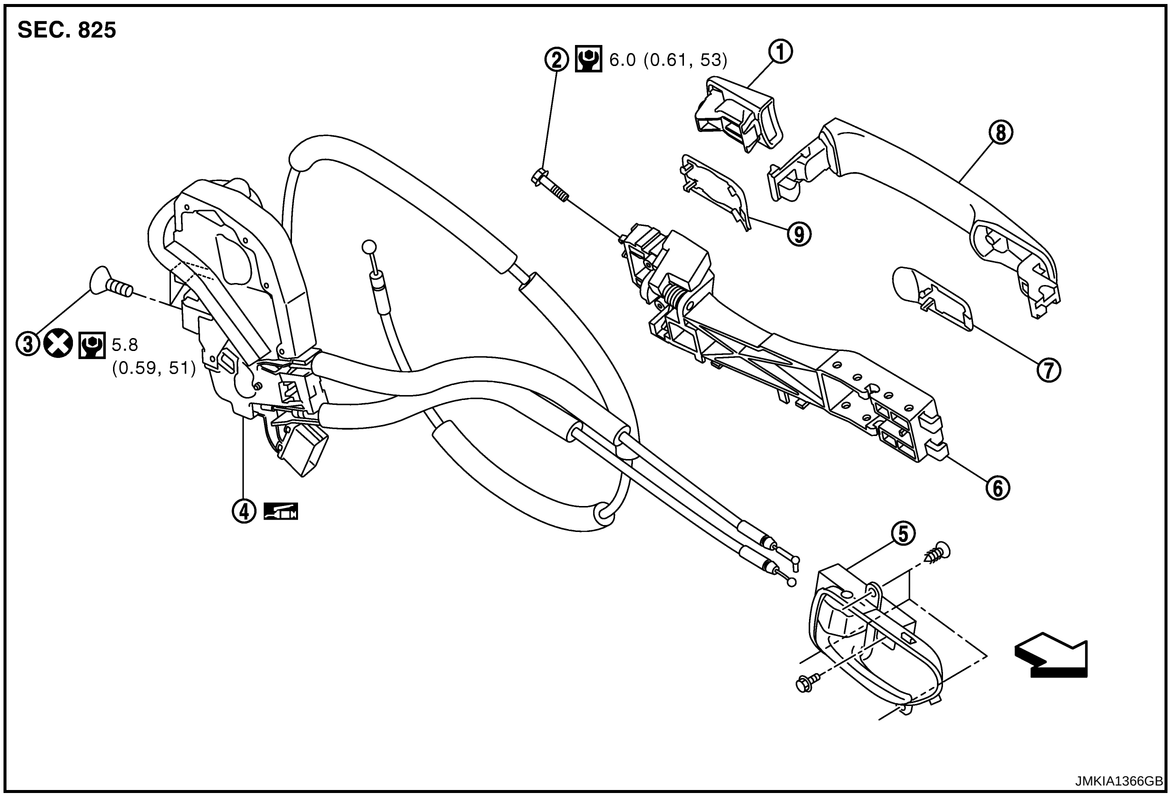
CAUTION:

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:0000000003072851



1. Outside handle escutcheon
2. TORX bolt
3. TORX bolt
4. Door lock assembly
5. Inside handle
6. Outside handle bracket
7. Front gasket
8. Outside handle assembly
9. Rear gasket

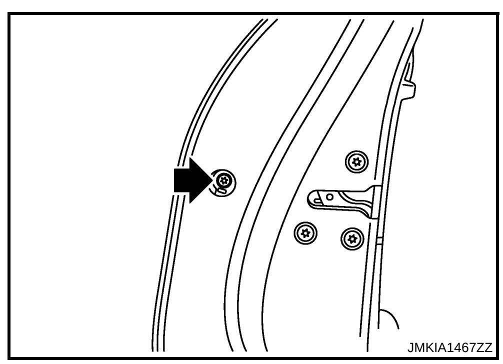
Refer to GI-4, "Components" for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

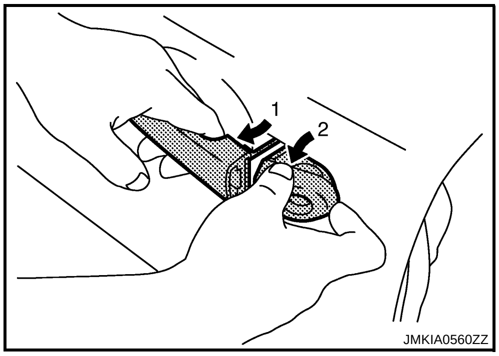
INFOID:0000000003072853

REMOVAL

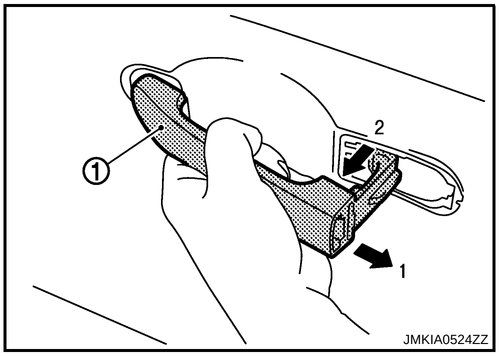
1. Remove rear door finisher. Refer to INT-14, "REAR DOOR FINISHER : Removal and Installation".
2. Disconnect inside handle cable.
3. Remove rear door glass. Refer to GW-25, "Removal and Installation".
4. Remove door side grommet, and loosen TORX bolt from grommet hole.



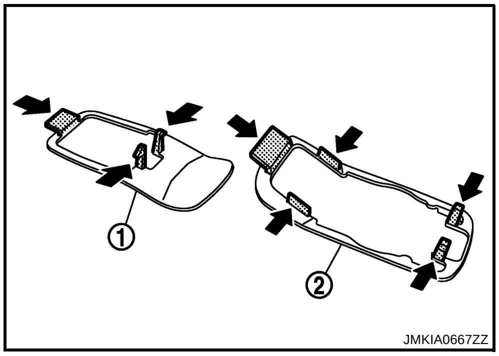
5. While pulling outside handle, remove outside handle escutcheon.



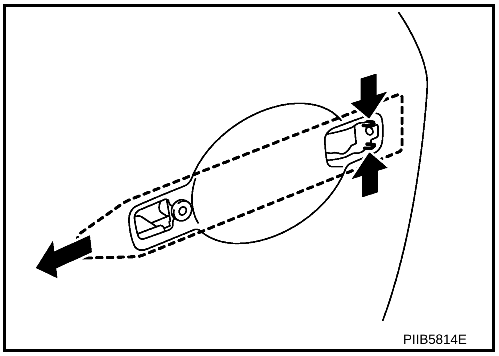
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).



8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

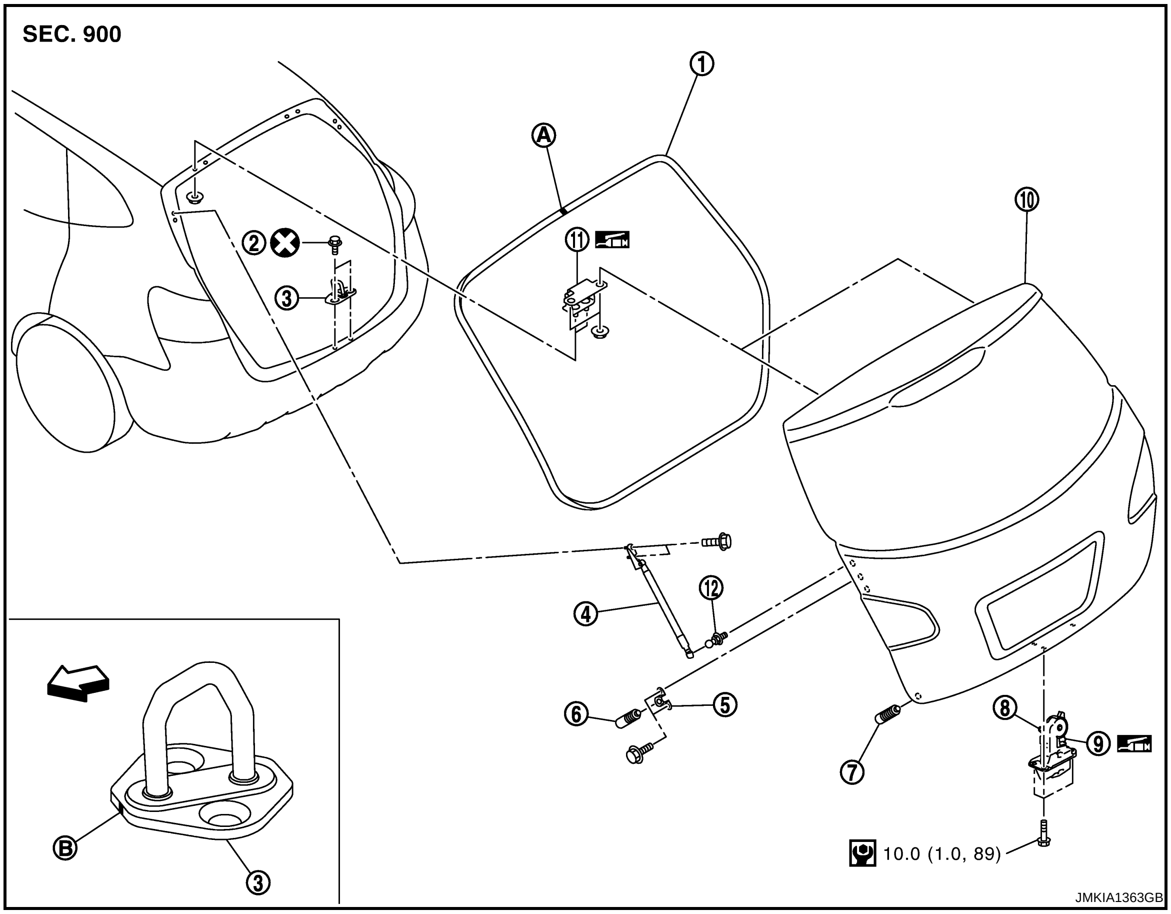
Check door open/close, lock/unlock operation after installation.

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000003072854



1. Back door weather-strip	2. TORX bolt	3. Back door striker
4. Back door stay	5. Bumper rubber bracket	6. Bumper rubber side
7. Bumper rubber lower	8. Emergency lever	9. Back door lock assembly
10. Back door assembly	11. Back door hinge	12. Back door stay stud ball
A :Center mark	B :Front mark	
⇦ :Vehicle front		

Refer to GI-4, "Components" for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:0000000003072856

REMOVAL

1. Remove back door lower finisher inner. Refer to INT-34, "Removal and Installation".
2. Disconnect back door lock assembly and back door opener switch connectors.
3. Remove back door lock mounting bolts, and then remove back door lock assembly.

INSTALLTION

Install in the reverse order of removal.

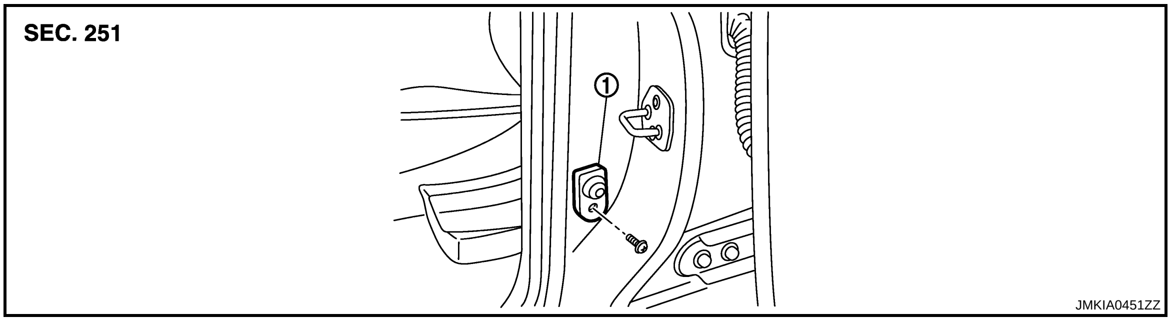
CAUTION:

Check back door open/close, lock/unlock operation after installation.

DOOR SWITCH

Exploded View

INFOID:0000000001729800



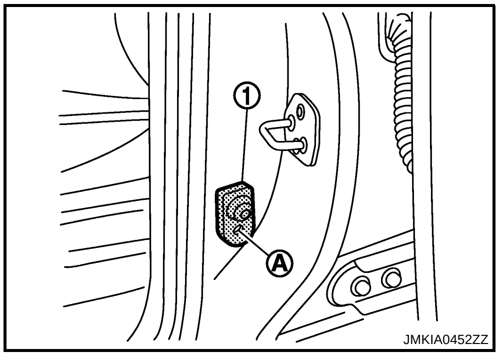
1. Door switch (driver side)

Removal and Installation

INFOID:0000000001729801

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).
   NOTE:
   The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



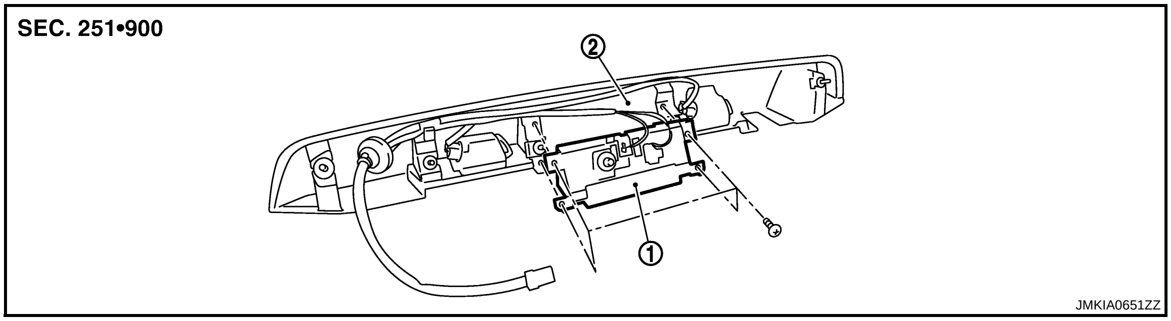
INSTALLATION

Install in the reverse order of removal.

BACK DOOR OPENER SWITCH

Exploded View

INFOID:0000000001729802



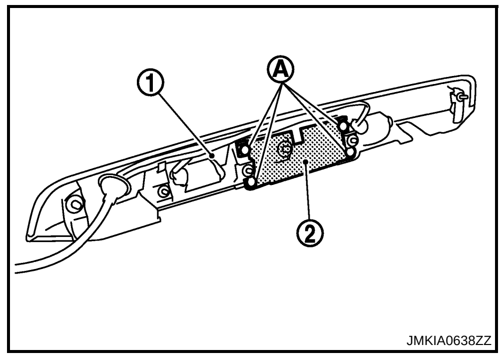
1. Back door opener switch assembly
2. Back door finisher

Removal and Installation

INFOID:0000000001729803

REMOVAL

1. Remove the back door finisher. Refer to EXT-31, "Removal and Installation".
2. Remove the back door opener switch assembly mounting bolt (A).
3. Remove the back door opener switch assembly (2) from back door finisher (1).



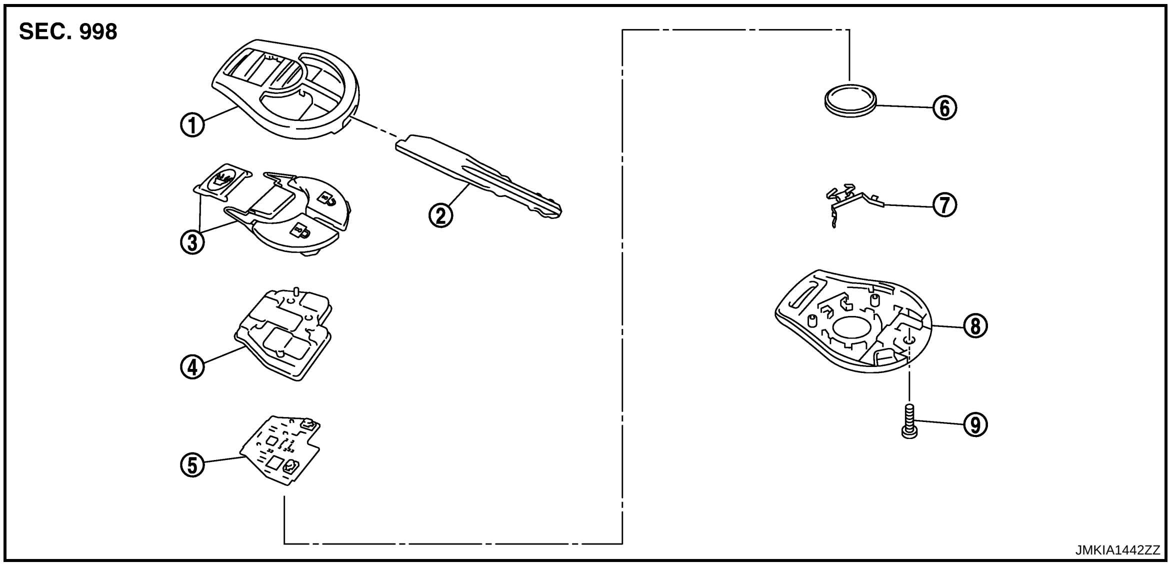
INSTALLATION

Install in the reverse order of removal.

KEYFOB BATTERY

Exploded View

INFOID:0000000001729804



1. Upper case
2. Key
3. Switch cover
4. Switch rubber
5. Board surface
6. Battery
7. plate
8. Lower case
9. Screw

Removal and Installation

INFOID:0000000001729805

REMOVAL

1. Remove screw (9) on the rear of keyfob.
2. Place the key with the lower case (8) facing up. Set a screw-driver wrapped with tape between upper case (1) and lower case (8) and then separate the lower case (8) from the upper case (1).
   CAUTION:
   - **Do not touch the circuit board or battery terminal.**
   - **The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.**
3. When replacing the circuit board assembly, remove circuit board assembly from the upper case (1).
   [Circuit board assembly: Switch rubber (4) + Board surface (5)]
   CAUTION:
   Do not touch the printed circuits directly.
4. Remove the battery (6) from the lower case (8) and replace it.

   Battery replacement : Coin-type lithium battery (CR1620)

   CAUTION:
   When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
5. After replacement, fit the lower and upper cases together, part (4), (7) and tighten with the screw.
   CAUTION:
   After replacing the battery, Be sure to check that door locking operates normally using the keyfob.
   Refer to DLK-365, "Component Function Check".

INSTALLATION

Install in the reverse order of removal.

A B C D E F G H I J DLK L M N O P

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:0000000003209137

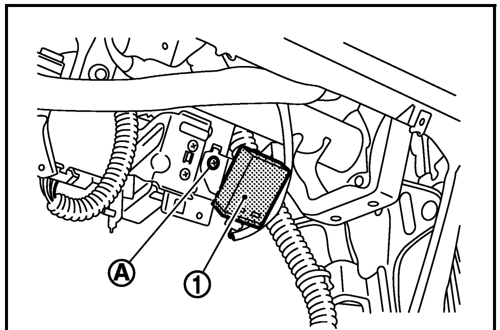
Refer to IP-12, "Exploded View".

Removal and Installation

INFOID:0000000003209138

REMOVAL

1. Remove the glove box. Refer to IP-13, "Removal and Installation".
2. Remove the remote keyless entry receiver mounting bolt (A), and then remove remote keyless entry receiver (1).



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INSTALLATION

Install in the reverse order of removal.