

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

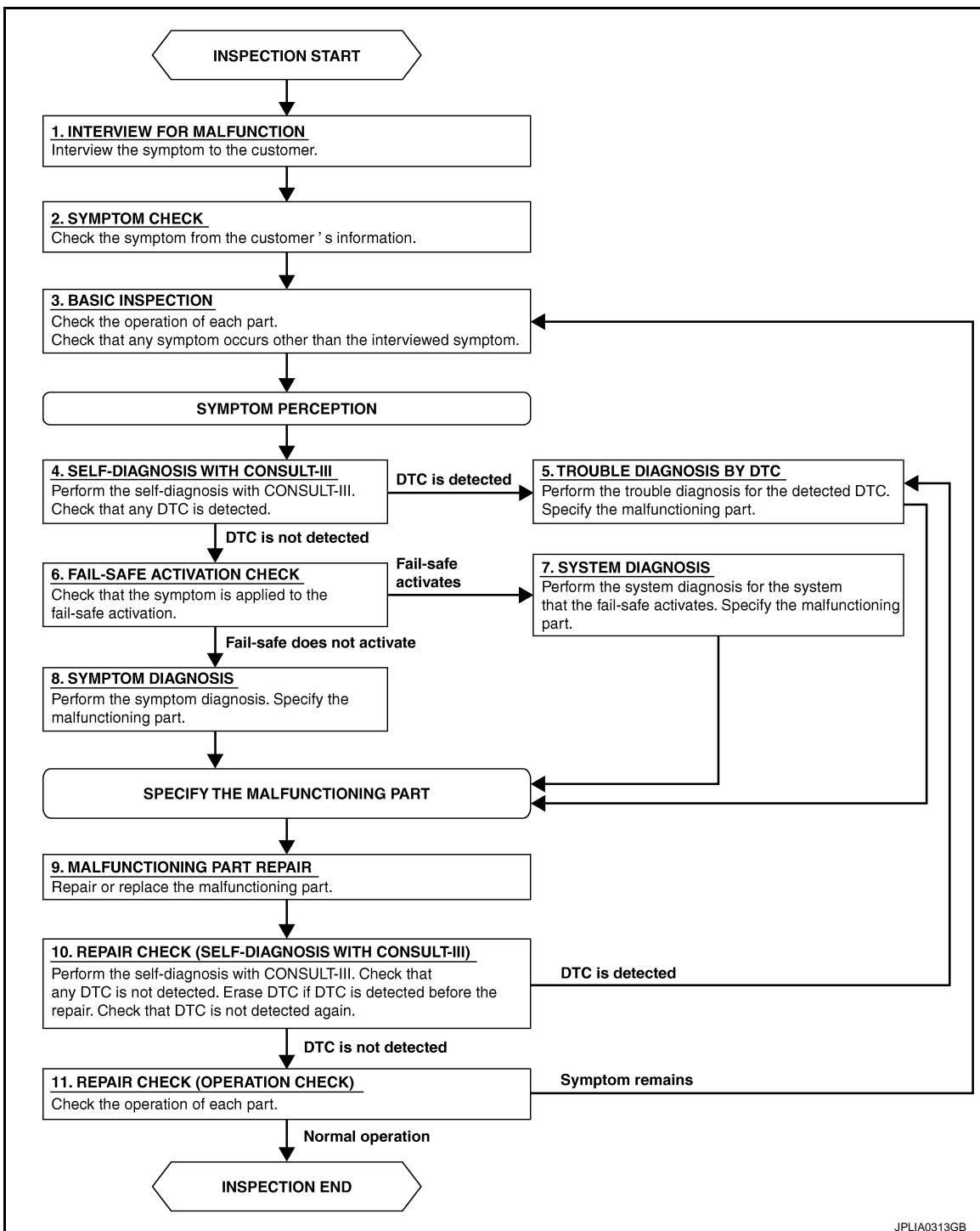
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005516754

OVERALL SEQUENCE



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DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2.

2. SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

3. BASIC INSPECTION

Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.

>> GO TO 4.

4. SELF-DIAGNOSIS WITH CONSULT-III

Perform the self-diagnosis with CONSULT-III. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5. TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

Check that the symptom is applied to the fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

Perform the system diagnosis for the system that the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8. SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9. MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10. REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III)

Perform the self-diagnosis with CONSULT-III. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 3.

INTERIOR ROOM LAMP CONTROL SYSTEM

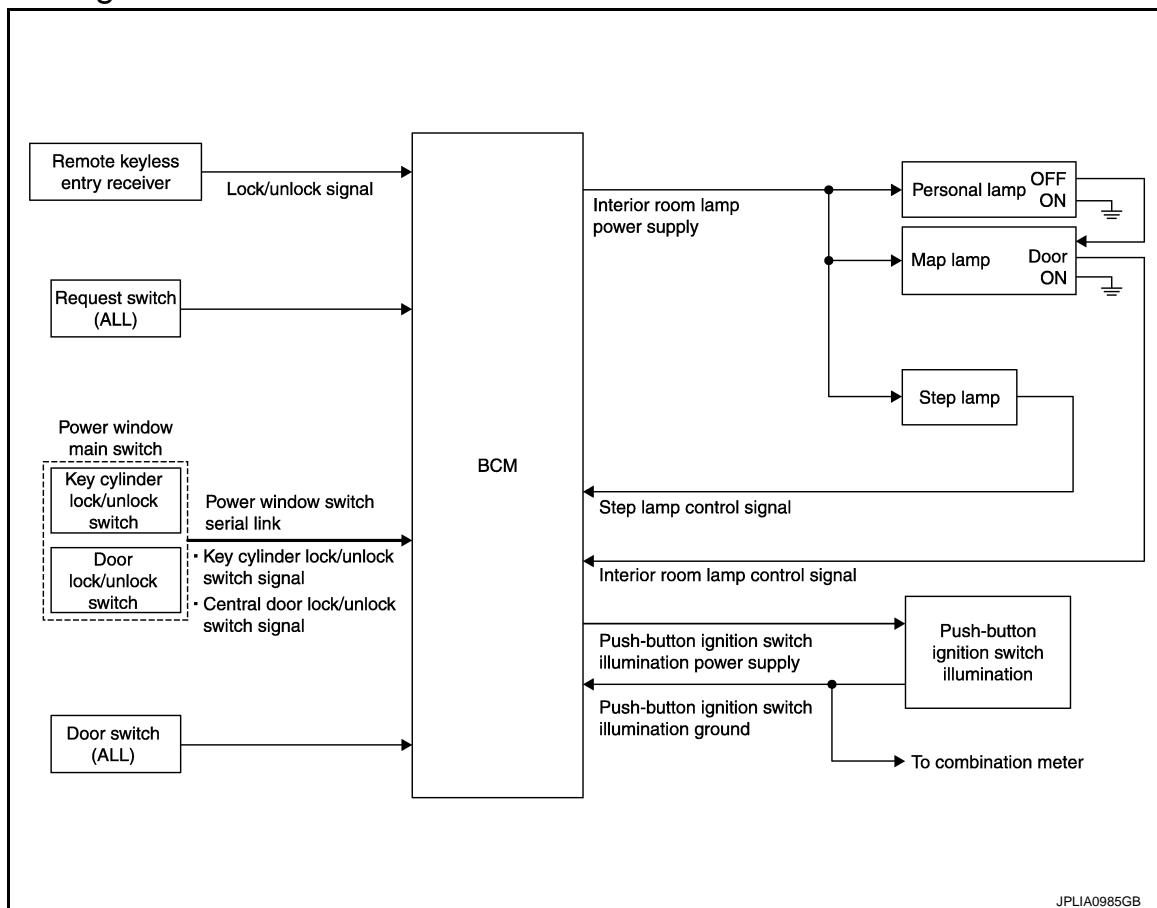
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

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System Description

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OUTLINE

- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
*: Map lamp and personal lamp (when map lamp switch is in DOOR position).
- Step lamp is controlled by step lamp control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.

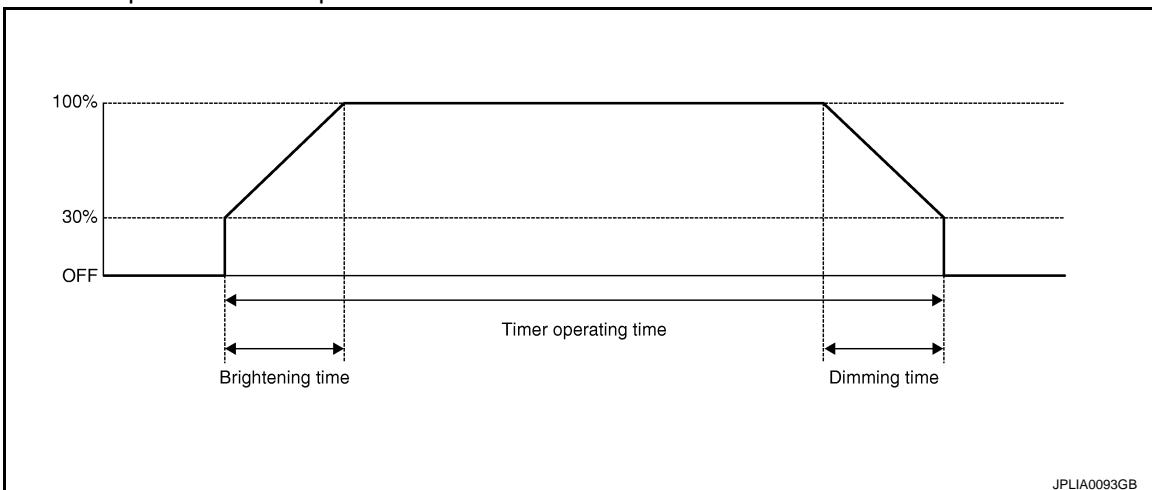
INTERIOR ROOM LAMP TIMER CONTROL

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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Interior Room Lamp Timer Basic Operation



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- The interior room lamp turns ON and OFF (gradual brightening and dimming) by the interior room timer.
- BCM judges the vehicle condition with the following items. It activates the interior room timer.
 - Ignition switch status
 - Door switch signal (ALL)
 - Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)

NOTE:

Each function of interior room lamp timer can be set by CONSULT-III. Refer to [INL-15, "INT LAMP : CONSULT-III Function \(BCM - INT LAMP\)"](#).

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- BCM activates the interior room timer in any of the following conditions to turn the interior room lamp ON for a period of time.
 - Any door opens before all doors close.
 - Ignition switch is turned ON → OFF.
 - Any door unlock signal is detected when all doors close with ignition switch OFF.

NOTE:

Restart the timer if new condition is input during the timer operating time.

Interior Room Lamp OFF Operation

BCM stops the timer in any of the following conditions to turns the interior room lamp OFF.

- The timer operating time is expired.
- Ignition switch position is other than OFF with all doors close.
- Any door lock operation is detected with all doors close.

STEP LAMP CONTROL

BCM controls the step lamp (ground-side) to turn ON with any door switch ON.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

- BCM provides the power supply and the ground to turn the push-button ignition switch illumination ON.
- BCM cuts the ground supply while the each illumination (tail lamp) ON. BCM switches to the ground control with the meter illumination control function.

Push-button Ignition Switch Illumination ON Operation

BCM turns the push-button ignition switch illumination ON in the following conditions.

- Ignition switch ON
- Each illumination (tail lamp) ON
- Any of the following conditions with ignition switch OFF
 - Engine start permission is entered.
 - Intelligent Key inserted into the key slot.
 - Driver door is LOCK → UNLOCK.
 - Driver door is open.

Push-button Ignition Switch Illumination OFF Operation

INTERIOR ROOM LAMP CONTROL SYSTEM

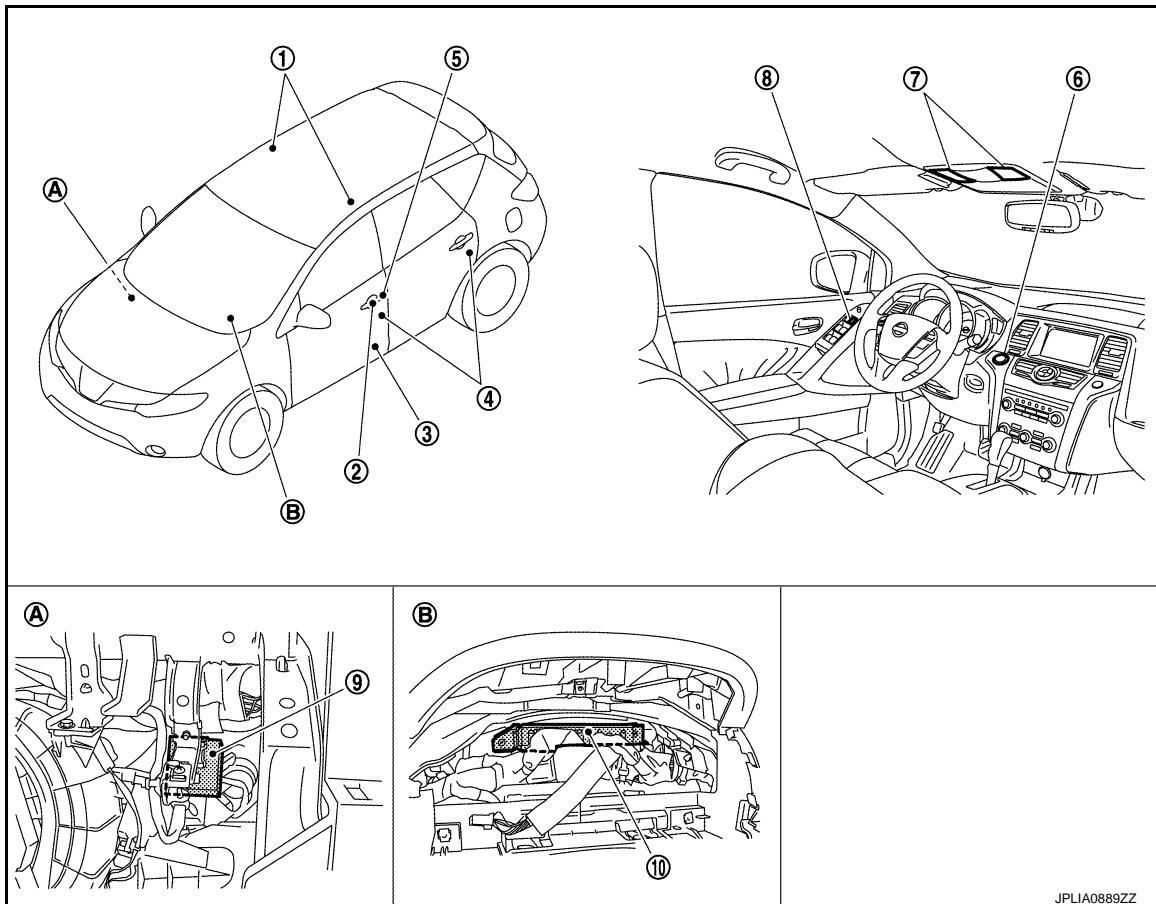
< SYSTEM DESCRIPTION >

BCM turns the push-button ignition switch illumination OFF in any of the following conditions.

- The push-button ignition switch illumination ON conditions do not satisfy.
- All of the following conditions with ignition switch OFF
- Each illumination (tail lamp) OFF
- The push-button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF) or the driver door is UNLOCK → LOCK.

Component Parts Location

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- | | | |
|-----------------------|---------------------------------|---|
| 1. Personal lamp | 2. Request switch | 3. Step lamp |
| 4. Door switch | 5. Key cylinder switch | 6. Push-button ignition switch illumination |
| 7. Map lamp | 8. Door lock switch | 9. Remote keyless entry receiver |
| 10. BCM | | |
| A. Over the glove box | B. Behind the combination meter | |

Component Description

INFOID:0000000005516758

Part	Description
BCM	<ul style="list-style-type: none">• Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamp ON/OFF.• Turns the step lamp ON /OFF according to any door switch status.
Remote keyless entry receiver	<ul style="list-style-type: none">• Receives the lock/unlock signal from keyfob.• Transmits the lock/unlock signal to BCM.
• Request switch • Key cylinder lock/unlock switch • Door lock/unlock switch	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.

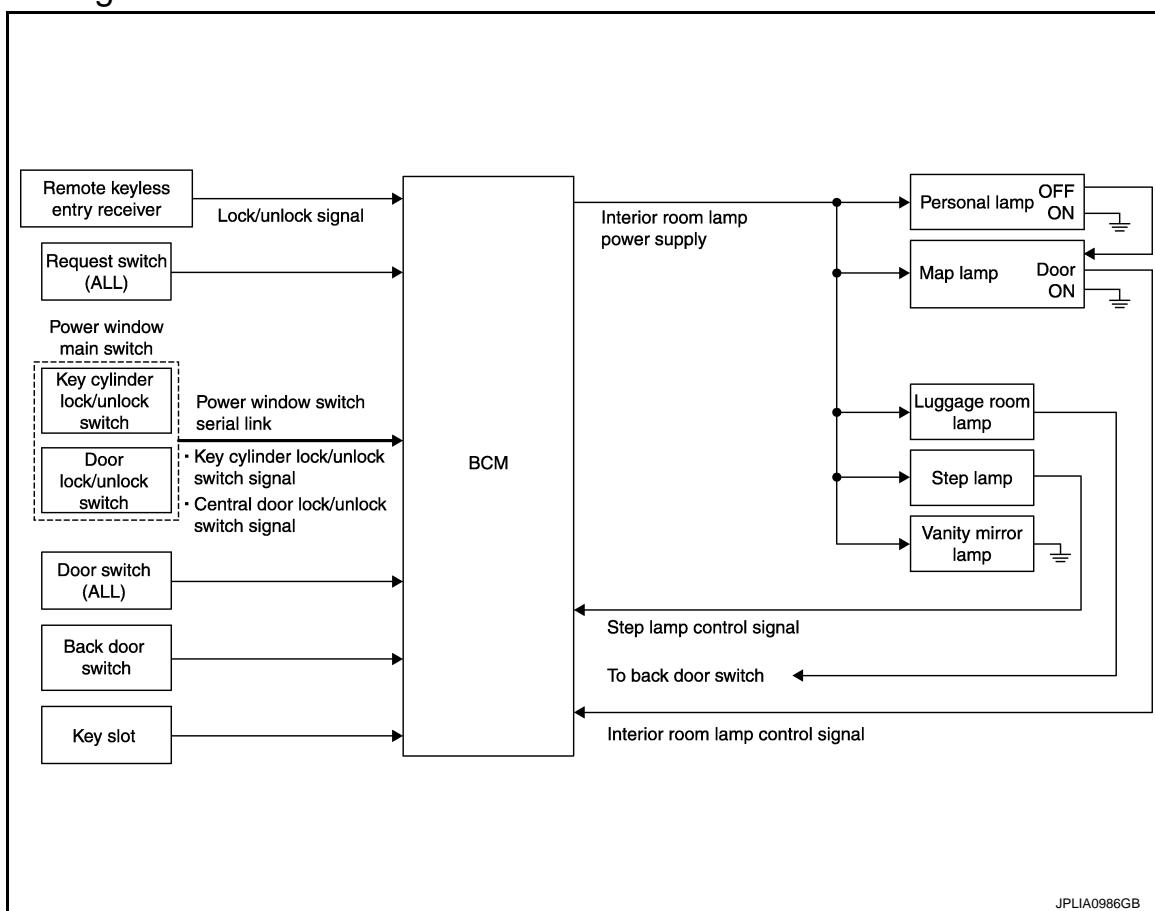
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram

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System Description

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OUTLINE

- Interior room lamp battery saver is controlled by BCM.
- BCM turns applicable lamps OFF depending on the vehicle condition. This function prevents the battery from over-discharging if the driver neglect turning OFF the any lamps.

Applicable lamps

- Map lamp
- Personal lamp
- Step lamp
- Luggage room lamp
- Vanity mirror lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- When the ignition switch is turned OFF, BCM operates the timer for a period of time to cut the interior room lamp power supply.
- BCM restart the timer when any of the following signals changes while operating the timer.
 - Ignition switch status
 - Door switch signal (ALL)
 - Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)
 - Back door switch signal
 - Key switch signal (Key slot)
- BCM provides the interior room lamp power supply continuously when the ignition switch position is other than OFF.

NOTE:

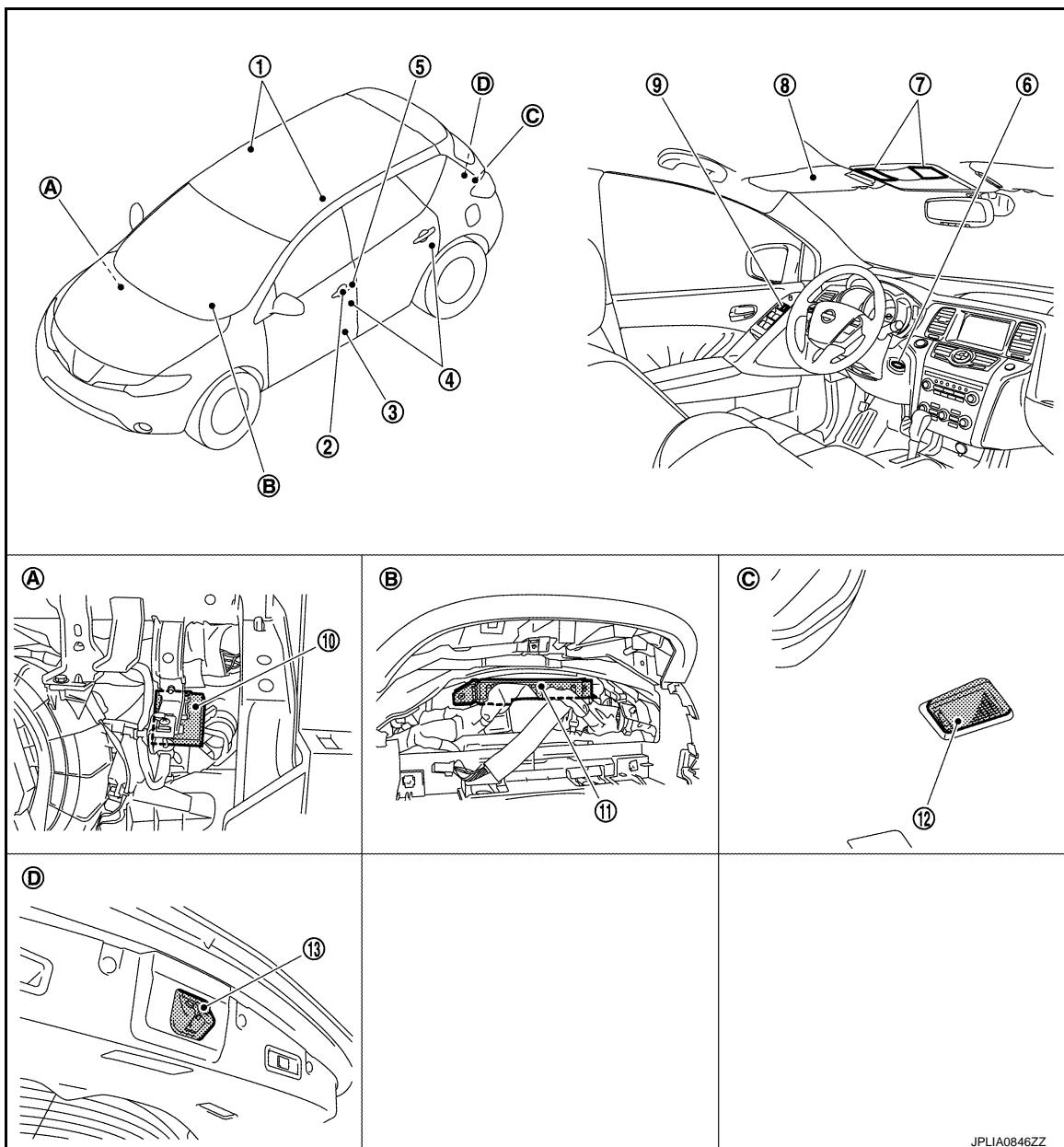
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

Each function of interior room lamp battery saver can be set by CONSULT-III. Refer to [INL-16, "BATTERY SAVER : CONSULT-III Function \(BCM - BATTERY SAVER\)"](#).

Component Parts Location

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|-----------------------------------|---------------------------------|-----------------------|
| 1. Personal lamp | 2. Request switch | 3. Step lamp |
| 4. Door switch | 5. Key cylinder switch | 6. Key slot |
| 7. Map lamp | 8. Vanity mirror lamp | 9. Door lock switch |
| 10. Remote keyless entry receiver | 11. BCM | 12. Luggage room lamp |
| 13. Back door switch | | |
| A. Over the glove box | B. Behind the combination meter | C. Back door |
| D. Back door lock assembly | | |

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INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

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Component Description

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Part	Description
BCM	Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply.
Remote keyless entry receiver	<ul style="list-style-type: none">• Receives the lock/unlock signal from keyfob.• Transmits the lock/unlock signal to BCM.
• Request switch • Key cylinder lock/unlock switch • Door lock/unlock switch	Inputs the lock/unlock signal to BCM.
• Door switch • Back door switch	Inputs a switch signal to BCM.
Key slot	Inputs the Intelligent Key in status to BCM.

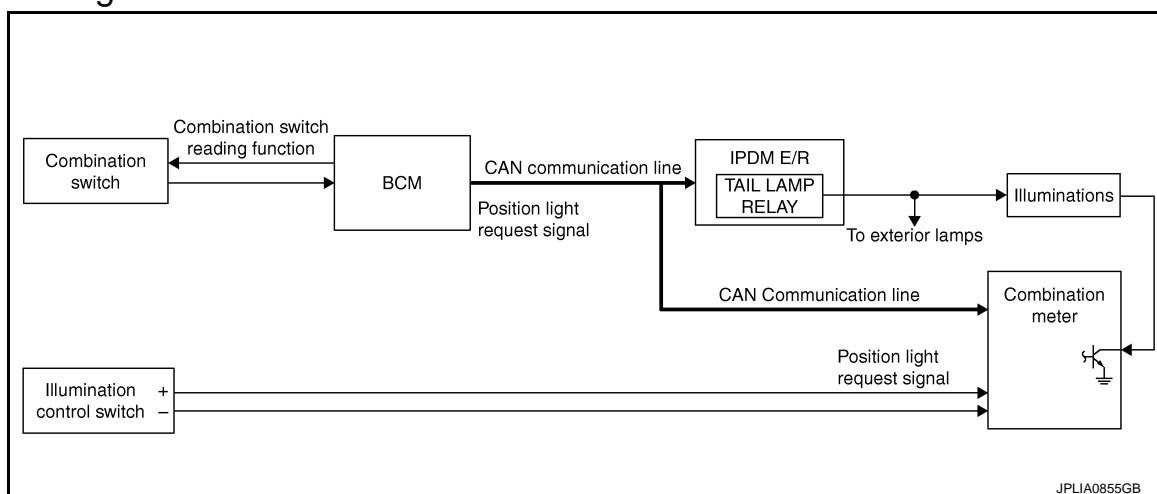
ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram

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System Description

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OUTLINE

Each illumination lamp is controlled by each function of BCM, IPDM E/R and combination meter.

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

- Relay control function

Control by combination meter

- Meter illumination control function (Refer to [MWI-24, "METER ILLUMINATION CONTROL : System Description".](#))

ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter according to tail lamp ON condition.

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Tail lamp ON condition

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (With auto light system)
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal. Under the nighttime mode the combination meter controls the illuminance by controlling the each illumination lamp (ground side).

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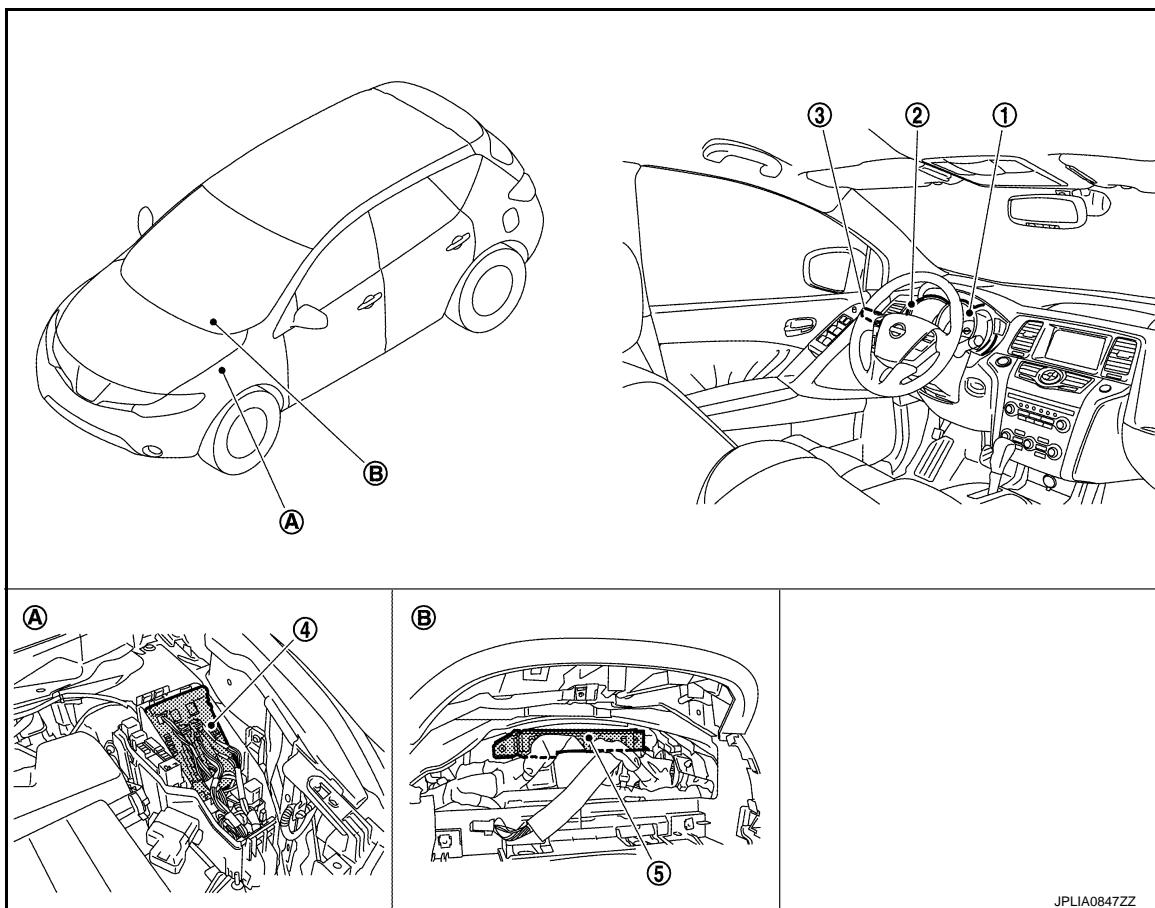
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ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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- | | | |
|----------------------|--------------------------------|-----------------------|
| 1. Combination meter | 2. Illumination control switch | 3. Combination switch |
| 4. IPDM E/R | 5. BCM | |
| A Engine room (LH) | B Behind the combination meter | |

Component Description

INFOID:000000005516766

Part	Description
BCM	<ul style="list-style-type: none">Detects each switch condition by the combination switch reading function.Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication).
IPDM E/R	Controls the integrated relay according to the request from BCM (with CAN communication).
Combination meter	<ul style="list-style-type: none">Enters in nighttime mode according to the request from BCM (with CAN communication).Controls the each illumination in the nighttime mode. Refer to MWI-24, "METER ILLUMINATION CONTROL : System Description".
Combination switch (Lighting & turn signal switch)	Refer to BCS-9, "System Description" .

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000005681433

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

x: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	x	x	x
Rear window defogger	REAR DEFOGGER		x	x
Warning chime	BUZZER		x	x
Interior room lamp timer	INT LAMP	x	x	x
Exterior lamp	HEAD LAMP	x	x	x
Wiper and washer	WIPER	x ^{*1}	x	x
Turn signal and hazard warning lamps	FLASHER	x	x	x
—	AIR CONDITIONER ^{*2}			
• Intelligent Key system • Engine start system	INTELLIGENT KEY	x	x	x
Combination switch	COMB SW		x	
Body control system	BCM	x		
NVIS - NATS	IMMU		x	x
Interior room lamp battery saver	BATTERY SAVER	x	x	x
Back door opener system	TRUNK		x	x
Vehicle security system	THEFT ALM	x	x	x
RAP system	RETAINED PWR		x	
Signal buffer system	SIGNAL BUFFER		x	x
TPMS	TPMS (AIR PRESSURE MONITOR)	x	x	x

NOTE:

- *1: For models with rain sensor this mode is displayed, but is not used.
- *2: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT-III.

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	<p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 	

INT LAMP

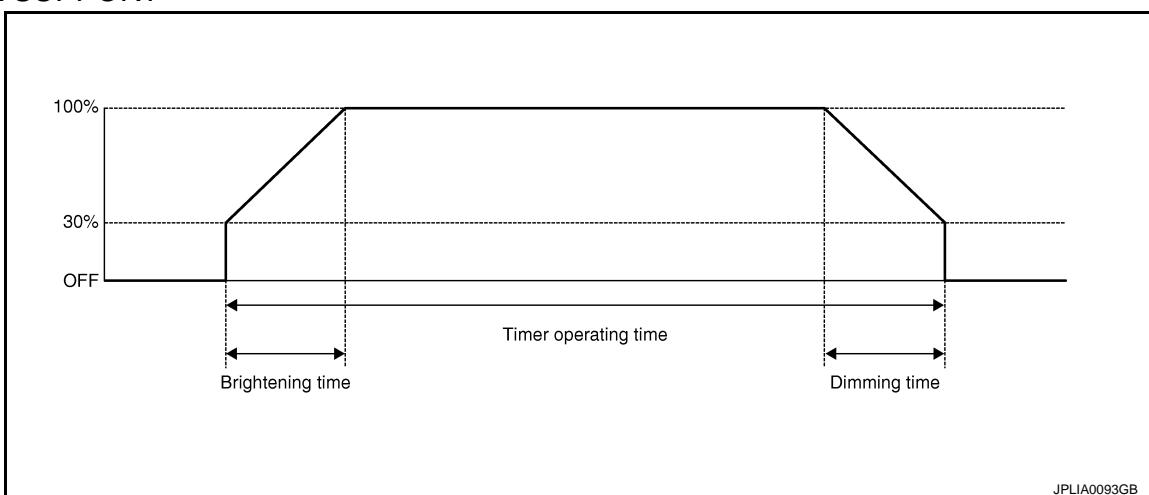
DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT-III Function (BCM - INT LAMP)

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WORK SUPPORT



Service item	Setting item	Setting	
SET I/L D-UNLCK INTCON	ON*	With the interior room lamp timer function	
	OFF	Without the interior room lamp timer function	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 3*	15 sec.	
	MODE 4	30 sec.	
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual brightening time.
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual dimming time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4*	3 sec.	
	MODE 5	0 sec.	
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.	
	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.	

*: Factory setting

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from front request switch (passenger side)
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW-RL [On/Off]	The switch status input from rear door switch LH
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from door lock/unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch by power window switch serial link
BACK DOOR SW [On/Off]	The switch status input from back door switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn map lamp and personal lamp ON (Map lamp switch is in DOOR position).
	Off	Stops the interior room lamp control signal to turn map lamp and personal lamp OFF.
STEP LAMP TEST	On	Outputs the step lamp control signal to turn step lamp ON.
	Off	Stops the step lamp control signal to turn step lamp OFF.
LUGGAGE LAMP TEST	On	NOTE: The item is displayed, but cannot be tested.
	Off	

BATTERY SAVER

BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)

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WORK SUPPORT

Service item	Setting item	Setting	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
	Off	Without the exterior lamp battery saver function	
ROOM LAMP BAT SAV SET	On*	With the interior room lamp battery saver function	
	Off	Without the interior room lamp battery saver function	
ROOM LAMP TIMER SET	MODE 1*	30 min.	Sets the interior room lamp battery saver timer operating time.
	MODE 2	60 min.	

*: Factory setting

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from front request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW-RL [On/Off]	The switch status input from rear door switch LH
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from door lock/unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch by power window switch serial link
BACK DOOR SW [On/Off]	The switch status input from back door switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	Off	Cuts the interior room lamp power supply to turn interior room lamp OFF.
	On	Outputs the interior room lamp power supply to turn interior room lamp ON.*

*: Each lamp switch is in ON position.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT BCM

BCM : Diagnosis Procedure

INFOID:000000005516770

1.CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Battery power supply	L
	10

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

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

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		
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:0000000005516771

Provides the interior room lamp power supply. Also cuts the power supply when the interior room lamp battery saver activating.

Component Function Check

INFOID:0000000005516772

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

① CONSULT-III ACTIVE TEST

1. Turn the ignition switch ON.
2. Turn each interior room lamp ON.
 - Map lamp
 - Personal lamp
 - Step lamp
 - Vanity mirror lamp
 - Luggage room lamp
3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
4. With operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp OFF

On : Interior room lamp ON

Does the interior room lamp turn ON/OFF?

YES >> Interior room lamp power supply circuit is normal.

NO >> Refer to [INL-19, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000005516773

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

① CONSULT-III ACTIVE TEST

1. Turn the ignition switch ON.
2. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
3. With operating the test item, check voltage between BCM harness connector and the ground.

Terminals		Test item	Voltage (Ap- prox.)
(+)	(-)		
BCM		BATTERY SAVER	
Connector	Terminal		
M119	4	Ground	
		Off	0 V
		On	Battery volt- age

Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace BCM.

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect the following connectors.
 - Map lamp
 - Personal lamp
 - Vanity mirror lamp (driver side)
 - Vanity mirror lamp (passenger side)
 - Luggage room lamp (RH)
 - Luggage room lamp (LH)
 - Step lamp (driver side)

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- Step lamp (passenger side)
3. Check continuity between BCM harness connector and each interior room lamp harness connector.

BCM		Each interior room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M119	4	Map lamp	R19	1
		Personal lamp	R21	1
		Vanity mirror lamp (driver side)	R24	2
		Vanity mirror lamp (passenger side)	R10	2
		Luggage room lamp (RH)	D156	2
		Luggage room lamp (LH)	D157	2
		Step lamp (driver side)	D17	1
		Step lamp (passenger side)	D51	1

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3.CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and the ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	4		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Check that each interior room lamp has no internal short circuit.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:0000000005516774

Controls each interior room lamp (ground side) by PWM signal.

NOTE:

PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

Component Function Check

INFOID:0000000005516775

CAUTION:

Before performing the diagnosis, check that the following is normal.

- Interior room lamp power supply
- Map lamp bulb
- Personal lamp bulb

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

(H)CONSULT-III ACTIVE TEST

1. Switch the map lamp switch to DOOR.
2. Turn the ignition switch ON.
3. Select "INT LAMP" of BCM (INT LAMP) active test item.
4. With operating the test items, check that each interior room lamp turns ON/OFF (gradual brightening/dimming).

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

Does the interior room lamp turns ON/OFF (gradual brightening/dimming)?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-21, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000005516776

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(H)CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove all the bulbs of map lamp and personal lamp.
3. Select "INT LAMP" of BCM (INT LAMP) active test item.
4. With operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item	Continuity	
Connector	Terminal		INT LAMP		
M119	19		On	Existed	
			Off	Not existed	

Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM.

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, map lamp connector and personal lamp connector.
3. Check continuity between BCM harness connector, map lamp harness connector and personal lamp harness connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Map lamp/personal lamp			Continuity
Connector	Terminal	Connector		Terminal	
M119	19	Map lamp	R19	2	Existed
		Personal lamp	R21	3	

Does continuity exist?

YES >> Replace the map lamp or the personal lamp.

NO >> Repair the harnesses or connectors.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, map lamp connector and personal lamp connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	19		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Description

INFOID:0000000005516777

Controls the step lamp (ground side) to turn the step lamp ON and OFF.

Component Function Check

INFOID:0000000005516778

CAUTION:

Before performing the diagnosis, check that the following is normal.

- Interior room lamp power supply
- Step lamp bulb

1.CHECK STEP LAMP OPERATION

(B)CONSULT-III ACTIVE TEST

1. Turn the ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. With operating the test items, check that step lamp turns ON/OFF.

On : Step lamp ON

Off : Step lamp OFF

Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is normal.

NO >> Refer to [INL-23, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000005516779

1.CHECK STEP LAMP OUTPUT

(B)CONSULT-III ACTIVE TEST

1. Turn the ignition switch OFF.
2. Remove the step lamp bulbs (driver side and passenger side).
3. Turn the ignition switch ON.
4. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
5. With operating the test item, check continuity between BCM harness connector and the ground.

BCM		Ground	Test item	Continuity
Connector	Terminal		STEP LAMP TEST	
M119	7		On	Existed
			Off	Not existed

Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM.

2.CHECK STEP LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector, and step lamp connector.
3. Check continuity between BCM harness connector and step lamp harness connector.

BCM		Step lamp			Continuity
Connector	Terminal	Connector	Terminal		
M119	7	Driver side	D17	2	Existed
		Passen- ger side	D51	2	

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Does continuity exist?

YES >> Replace step lamp.

NO >> Repair harnesses or connectors.

3.CHECK STEP LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M119	7		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:0000000005516780

Provides the power supply and the ground to control the push-button ignition switch illumination.

Component Function Check

INFOID:0000000005516781

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

(CONSULT-III ACTIVE TEST

1. Turn the ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
3. With operating the test items, check that the push-button ignition switch illumination turns ON/OFF

On : Push-button ignition switch illumination ON

Off : Push-button ignition switch illumination OFF

Does the push-button ignition switch illumination turn ON/OFF?

YES >> Push-button ignition switch illumination circuit is normal.

NO >> Refer to [INL-25. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000005516782

1.CHECK ILLUMINATION CONTROL SWITCHING OPERATION

1. Turn the ignition switch ON.
2. With operating the lighting switch, check that the push-button ignition switch illumination turns ON/OFF

Condition	Push-button ignition switch illumination
• Ignition switch ON • Lighting switch 1ST	ON
• Ignition switch OFF • Lighting switch OFF • Driver door LOCK	OFF

Does the push-button ignition switch illumination turn ON/OFF?

YES >> GO TO 2.

NO >> GO TO 3.

2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector and the push-button ignition switch connector.
3. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M119	14	M101	2	Existed

Does the continuity exist?

YES >> Replace BCM.

NO >> Repair the harness or the connector.

3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

(CONSULT-III ACTIVE TEST

1. Turn the ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
3. With operating the test item, check voltage between BCM harness connector and the ground.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Terminals		Test item	Voltage (Ap-prox.)
(+)	(-)		
BCM	Ground	ENGINE SW ILLUMI	
Connector		ON	5 V
M123		OFF	0 V

Is the measurement value normal?

YES >> GO TO 4.

NO >> GO TO 5.

4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector and the push-button ignition switch connector.
3. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	133	M101	3	Existed

Does the continuity exist?

YES >> Replace push-button ignition switch.

NO >> Repair the harness or the connector.

5.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector and the push-button ignition switch connector.
3. Check continuity between BCM harness connector and the ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	133		Not existed

Does the continuity exist?

YES >> Repair the harness or the connector.

NO >> Replace BCM.

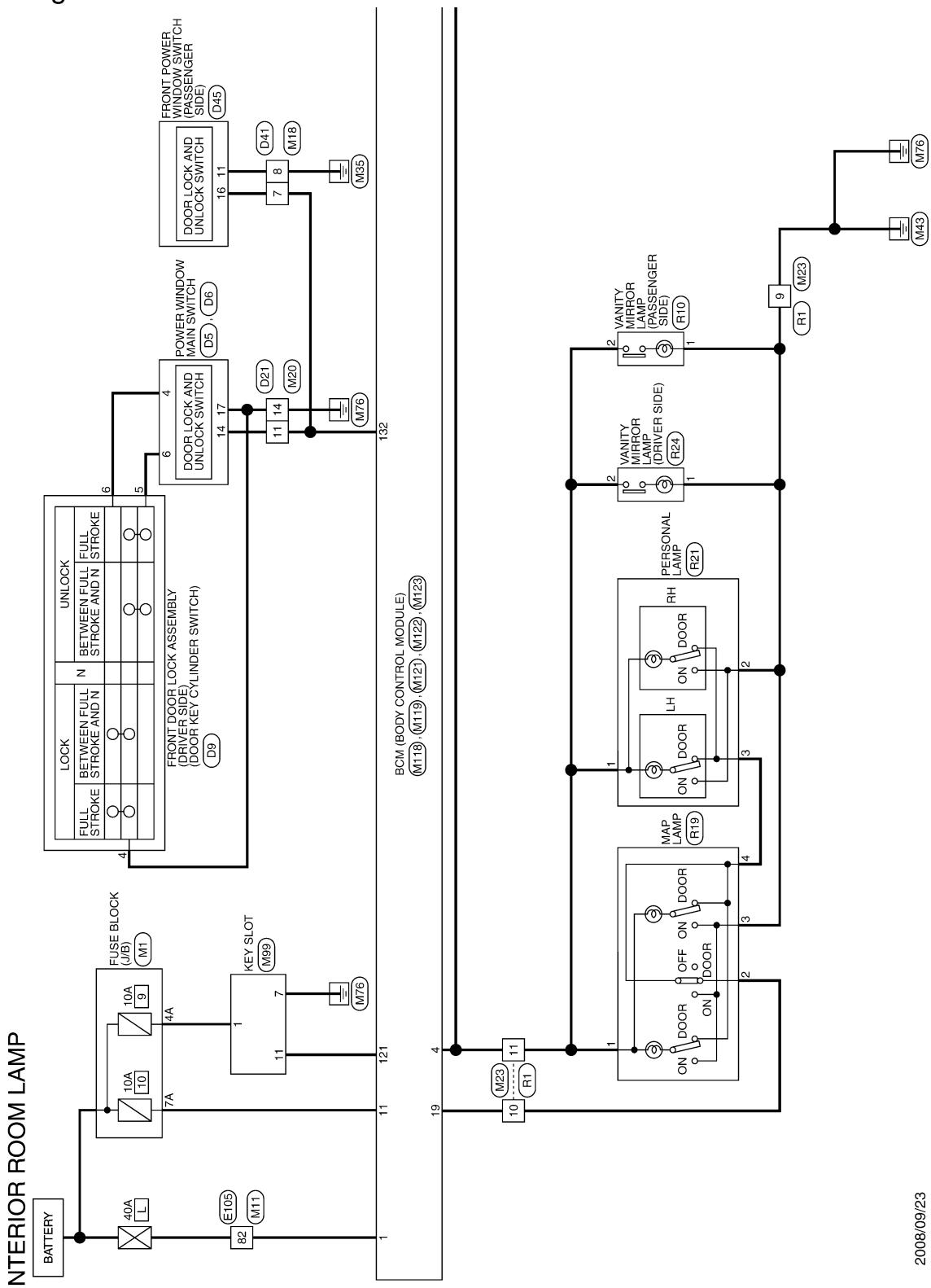
INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SYSTEM

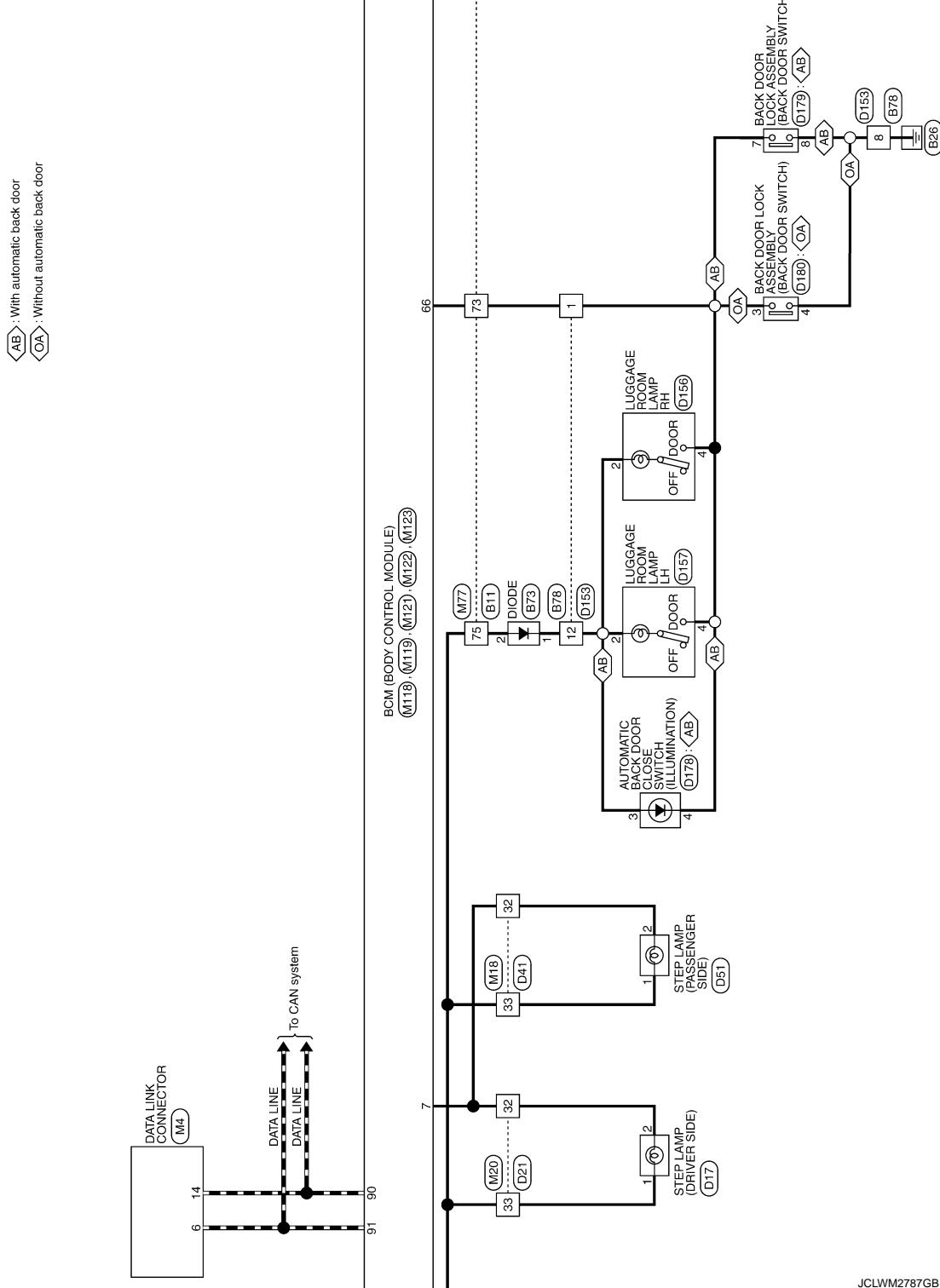
Wiring Diagram - INTERIOR ROOM LAMP -

INFOID:0000000005516783



INTERIOR ROOM LAMP CONTROL SYSTEM

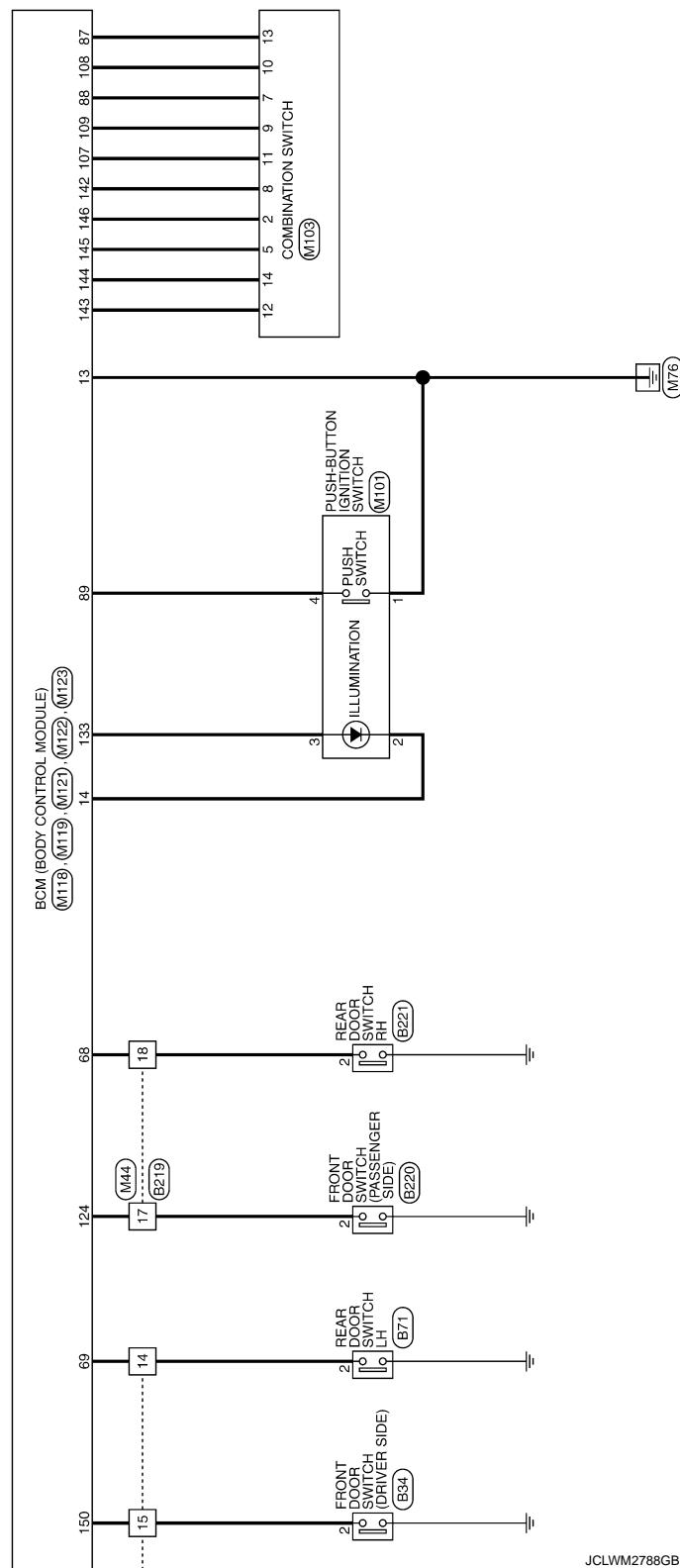
< DTC/CIRCUIT DIAGNOSIS >



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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



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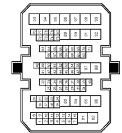
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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	THB6MW-CS 9



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R/L	-
4	R/W	-
5	SB	-
6	P	-
7	V	-
8	SHIELD	-
9	BR/L	-
10	Y/G	-
11	Y/L	-
12	W/L	-
13	L	-
14	BR	-
15	SB	-
16	BR	-
17	V	-
18	SB	-
19	R	-
20	P	-
21	LG	-
22	W	-
23	Y	-
24	GR	-
25	Y	-
26	V	-
27	W/L	-
28	W/L	-
29	P	-
30	O	-
31	O	-
32	BR	-
33	SB	-
34	SB	-
35	SHIELD	-
36	L/O	-
37	LG	-
38	Y	-
39	O	-
40	Y	-
41	O	-
42	SB	-
43	G	-
44	BR	-
45	L	-
46	GR	-
47	V	-
48	GR	-
49	Y	-
50	BR	-
51	B	-
52	B	-
53	Y	-
54	LG	-
55	BR	-
56	P	-
57	L	-
58	R	-
59	SHIELD	-
60	B	-
61	RL	-
62	R/W	-
63	LG	-
64	Y	-
66	GR	-
67	G	-
68	R	-
69	SHIELD	-
70	W/R	-
71	BR	-
72	Y	-
73	LG	-
74	SB	-
75	L	-
76	G	-
77	R	-
78	SHIELD	-
79	B	-
80	W	-
81	R	-
82	L	-
83	BR	-
84	O	-
85	G	-
86	SB	-
87	R	-
88	G	-
89	GR	-
90	Y	-
91	G	-
92	BR	-
93	G	-
94	Y	-
95	BR	-

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	2	■ 4 5 6 7
2	9	10 11 12 13 14 15 16
3	3	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP		
Connector No.	Color of Wire	Signal Name [Specification]
BZ19	WIRE TO WIRE	
Connector Name		
Connector Type	TH32MW-NH	
		
Connector No.	BZ21	Terminal No. 06
Connector Name	REAR DOOR SWITCH RH	Connector Name POWER WINDOW MAIN SWITCH
Connector Type	A03FW	Connector Type NS103IW-CS
		
Terminal No.	1	Terminal No. 1
Color of Wire	G	Color of Wire G
Signal Name	-	Signal Name -
Terminal No.	2	Terminal No. 2
Color of Wire	R	Color of Wire R
Signal Name	-	Signal Name -
POWER WINDOW MAIN SWITCH		
Connector No.	Color of Wire	Signal Name [Specification]
D6	W	
Connector Name		
Connector Type		
		
Terminal No.	1	Terminal No. 17
Color of Wire	B	Color of Wire B
Signal Name	-	Signal Name -
Terminal No.	2	Terminal No. 16
Color of Wire	LG	Color of Wire LG
Signal Name	-	Signal Name -
FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)		
Connector No.	Color of Wire	Signal Name [Specification]
D5	V	
Connector Name		
Connector Type		
		
Terminal No.	1	Terminal No. 1
Color of Wire	G	Color of Wire G
Signal Name	-	Signal Name -
Terminal No.	2	Terminal No. 2
Color of Wire	LG	Color of Wire LG
Signal Name	-	Signal Name -
Terminal No.	3	Terminal No. 3
Color of Wire	LG	Color of Wire LG
Signal Name	-	Signal Name -
Terminal No.	4	Terminal No. 4
Color of Wire	LG	Color of Wire LG
Signal Name	-	Signal Name -
Terminal No.	5	Terminal No. 5
Color of Wire	LG	Color of Wire LG
Signal Name	-	Signal Name -
Terminal No.	6	Terminal No. 6
Color of Wire	LG	Color of Wire LG
Signal Name	-	Signal Name -
Terminal No.	7	Terminal No. 7
Color of Wire	GR/V	Color of Wire GR/V
Signal Name	-	Signal Name -
Terminal No.	8	Terminal No. 8
Color of Wire	W/L	Color of Wire W/L
Signal Name	-	Signal Name -
Terminal No.	9	Terminal No. 9
Color of Wire	SHIELD	Color of Wire SHIELD
Signal Name	-	Signal Name -
Terminal No.	10	Terminal No. 10
Color of Wire	GR/V	Color of Wire GR/V
Signal Name	-	Signal Name -
Terminal No.	11	Terminal No. 11
Color of Wire	W/L	Color of Wire W/L
Signal Name	-	Signal Name -
Terminal No.	12	Terminal No. 12
Color of Wire	SHIELD	Color of Wire SHIELD
Signal Name	-	Signal Name -
Terminal No.	13	Terminal No. 13
Color of Wire	SB	Color of Wire SB
Signal Name	-	Signal Name -
Terminal No.	14	Terminal No. 14
Color of Wire	Y	Color of Wire Y
Signal Name	-	Signal Name -
Terminal No.	15	Terminal No. 15
Color of Wire	R	Color of Wire R
Signal Name	-	Signal Name -
Terminal No.	16	Terminal No. 16
Color of Wire	W	Color of Wire W
Signal Name	-	Signal Name -
Terminal No.	17	Terminal No. 17
Color of Wire	G	Color of Wire G
Signal Name	-	Signal Name -
Terminal No.	18	Terminal No. 18
Color of Wire	P	Color of Wire P
Signal Name	-	Signal Name -
Terminal No.	19	Terminal No. 19
Color of Wire	V	Color of Wire V
Signal Name	-	Signal Name -
Terminal No.	20	Terminal No. 20
Color of Wire	BR	Color of Wire BR
Signal Name	-	Signal Name -
Terminal No.	21	Terminal No. 21
Color of Wire	BR	Color of Wire BR
Signal Name	-	Signal Name -
Terminal No.	22	Terminal No. 22
Color of Wire	-	Color of Wire -
Signal Name	-	Signal Name -
Connector No.	BZ20	Terminal No. 7
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)	Connector Name STEP LAMP (DRIVER SIDE)
Connector Type	A03FW	Connector Type G06FW
		
Terminal No.	8	Terminal No. 8
Color of Wire	P	Color of Wire P
Signal Name	-	Signal Name -
Terminal No.	9	Terminal No. 9
Color of Wire	G	Color of Wire G
Signal Name	-	Signal Name -
Terminal No.	10	Terminal No. 10
Color of Wire	Y	Color of Wire Y
Signal Name	-	Signal Name -
Terminal No.	11	Terminal No. 11
Color of Wire	LG	Color of Wire LG
Signal Name	-	Signal Name -
Terminal No.	12	Terminal No. 12
Color of Wire	Y	Color of Wire Y
Signal Name	-	Signal Name -
Terminal No.	13	Terminal No. 13
Color of Wire	O	Color of Wire O
Signal Name	-	Signal Name -
Terminal No.	14	Terminal No. 14
Color of Wire	O	Color of Wire O
Signal Name	-	Signal Name -
Terminal No.	15	Terminal No. 15
Color of Wire	R	Color of Wire R
Signal Name	-	Signal Name -

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP			
Connector No.	D21	Connector No.	D45
Connector Name	WIRE TO WIRE	Connector Name	-[Without automatic drive positioner]
Connector Type	TH40FW-CS15	Connector Type	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
			
53	L	53	P
	-[With automatic drive positioner]		-[Without automatic drive positioner]
53	P	53	S
	-[Without automatic drive positioner]		-[Without automatic drive positioner]
54	SB	54	LG
	-[Without automatic drive positioner]		-[Without automatic drive positioner]
55	LG	55	O
	-[Without automatic drive positioner]		-[Without automatic drive positioner]
55	O	55	O
	-[Without automatic drive positioner]		-[Without automatic drive positioner]

INTERIOR ROOM LAMP			
Connector No.	D41	Connector No.	D45
Connector Name	WIRE TO WIRE	Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	TH40FW-CS15	Connector Type	NS16FW-CS
			
15	14	15	14
14	13	14	13
13	12	13	12
12	11	12	11
11	10	11	10
10	9	10	9
9	8	9	8
8	7	8	7
7	6	7	6
6	5	6	5
5	4	5	4
4	3	4	3
3	2	3	2
2	1	2	1
1	V	1	L
2	G	2	R
3	P	3	W
4	B	4	Y
5	W	5	LG
6	SB	6	LG
7	P	7	Y
8	BR	8	Y
9	GR	9	LG
10	V	10	LG
11	O	11	Y
12	BR	12	Y
13	6	13	Y
14	LG	14	Y
15	G	15	Y
16	G	16	Y
17	Y	17	Y
18	GR	18	Y
19	BR	19	Y
20	LG	20	Y
21	P	21	Y
22	V	22	Y
23	W	23	Y
24	V	24	Y
25	W	25	Y
26	V	26	Y
27	V	27	Y
28	V	28	Y
29	V	29	Y
30	SB	30	Y
31	BR	31	Y
32	R	32	Y
33	G	33	Y
34	Y	34	Y
35	L	35	Y
36	P	36	Y
37	BR	37	Y
38	SB	38	Y
39	R	39	Y
40	V	40	Y
41	P	41	Y
42	GR	42	Y
43	L	43	Y
44	W	44	Y
45	SB	45	Y
46	R	46	Y
47	V	47	Y
48	P	48	Y
49	BR	49	Y
50	SB	50	Y
51	R	51	Y
52	V	52	Y
53	P	53	Y
54	GR	54	Y
55	L	55	Y

INTERIOR ROOM LAMP			
Connector No.	D41	Connector No.	D45
Connector Name	WIRE TO WIRE	Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	TH40FW-CS15	Connector Type	NS16FW-CS
			
1	V	1	L
2	G	2	R
3	P	3	W
4	B	4	Y
5	W	5	LG
6	SB	6	LG
7	P	7	Y
8	BR	8	Y
9	GR	9	LG
10	V	10	LG
11	O	11	Y
12	BR	12	Y
13	6	13	Y
14	LG	14	Y
15	G	15	Y
16	G	16	Y
17	Y	17	Y
18	GR	18	Y
19	BR	19	Y
20	LG	20	Y
21	P	21	Y
22	V	22	Y
23	W	23	Y
24	V	24	Y
25	W	25	Y
26	V	26	Y
27	V	27	Y
28	V	28	Y
29	V	29	Y
30	SB	30	Y
31	BR	31	Y
32	R	32	Y
33	G	33	Y
34	Y	34	Y
35	L	35	Y
36	P	36	Y
37	BR	37	Y
38	SB	38	Y
39	R	39	Y
40	V	40	Y
41	P	41	Y
42	GR	42	Y
43	L	43	Y
44	W	44	Y
45	SB	45	Y
46	R	46	Y
47	V	47	Y
48	P	48	Y
49	BR	49	Y
50	SB	50	Y
51	R	51	Y
52	V	52	Y
53	P	53	Y
54	GR	54	Y
55	L	55	Y

INTERIOR ROOM LAMP			
Connector No.	D41	Connector No.	D45
Connector Name	WIRE TO WIRE	Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	TH40FW-CS15	Connector Type	NS16FW-CS
			
1	V	1	L
2	G	2	R
3	P	3	W
4	B	4	Y
5	W	5	LG
6	SB	6	LG
7	P	7	Y
8	BR	8	Y
9	GR	9	LG
10	V	10	LG
11	O	11	Y
12	BR	12	Y
13	6	13	Y
14	LG	14	Y
15	G	15	Y
16	G	16	Y
17	Y	17	Y
18	GR	18	Y
19	BR	19	Y
20	LG	20	Y
21	P	21	Y
22	V	22	Y
23	W	23	Y
24	V	24	Y
25	W	25	Y
26	V	26	Y
27	V	27	Y
28	V	28	Y
29	V	29	Y
30	SB	30	Y
31	BR	31	Y
32	R	32	Y
33	G	33	Y
34	Y	34	Y
35	L	35	Y
36	P	36	Y
37	BR	37	Y
38	SB	38	Y
39	R	39	Y
40	V	40	Y
41	P	41	Y
42	GR	42	Y
43	L	43	Y
44	W	44	Y
45	SB	45	Y
46	R	46	Y
47	V	47	Y
48	P	48	Y
49	BR	49	Y
50	SB	50	Y
51	R	51	Y
52	V	52	Y
53	P	53	Y
54	GR	54	Y
55	L	55	Y

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP		
Connector No.	Color of Wire	Signal Name [Specification]
D15J	O	-
Connector Name	V	LUGGAGE ROOM LAMP LH
Connector Type	G	CJ04FW
	L	
	W	
	B	

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Color of Wire	Signal Name [Specification]
1	R	-	I4	O	-
2	V	-	15	BR	-
4	G	-	20	Y	-
5	L	-	21	BR	-
6	W	-	22	P	-
7	LG	-	23	P	-
8	B	-	24	L	-
			25	O	-
			26	G	-
			27	V	-
			28	SB	-
			29	W	-

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Color of Wire	Signal Name [Specification]
1	BR	BACK DOOR CLOCK ASSEMBLY (WITHOUT AUTOMATIC BACK	I50	Color No.	Signal Name [Specification]
2	BR	LOCK ASSSEMBLY	NS04FW-CS	1A	Y
3	BR	-		2A	G
4	BR	-		3A	Y
				4A	GR
				5A	R
				6A	W
				7A	LG
				8A	Y

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Color of Wire	Signal Name [Specification]
1	BR	-	I60	Color No.	Signal Name [Specification]
2	BR	-	NS04FW-CS	1A	Y
3	BR	-		2A	G
4	BR	-		3A	Y
				4A	GR
				5A	R
				6A	W
				7A	LG
				8A	Y

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Color of Wire	Signal Name [Specification]
1	BR	-	I703	Color No.	Signal Name [Specification]
2	BR	-	TH70MW-CS10-M3	1A	Y
3	BR	-		2A	G
4	BR	-		3A	Y
				4A	GR
				5A	R
				6A	W
				7A	LG
				8A	Y

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Color of Wire	Signal Name [Specification]
1	O	-	I703	Color No.	Signal Name [Specification]
2	B	-	TH70MW-CS10-M3	1A	Y
3	W	-		2A	G
4	LG	-		3A	Y
				4A	GR
				5A	R
				6A	W
				7A	LG
				8A	Y

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Color of Wire	Signal Name [Specification]
1	BR	-	I703	Color No.	Signal Name [Specification]
2	BR	-	TH70MW-CS10-M3	1A	Y
3	BR	-		2A	G
4	BR	-		3A	Y
5	BR	-		4A	GR
6	BR	-		5A	R
7	BR	-		6A	W
8	BR	-		7A	LG
9	BR	-		8A	Y

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Color of Wire	Signal Name [Specification]
1	BR	-	I703	Color No.	Signal Name [Specification]
2	BR	-	TH70MW-CS10-M3	1A	Y
3	BR	-		2A	G
4	BR	-		3A	Y
5	BR	-		4A	GR
6	BR	-		5A	R
7	BR	-		6A	W
8	BR	-		7A	LG
9	BR	-		8A	Y

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A B C D E F G H I J K L M N O P Q R S T Z INL

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP		
Connector No.	M11	
Connector Name	WIRE TO WIRE	
Connector Type	TH7DFW-CS10-M3	
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	L	
3	P	
4	O	
5	O	
6	G	
8	R	
11	P	
12	L	
13	V	
14	Y	
15	R	
20	Y	
21	BR	
22	G	
23	P	
24	Y	
25	L	
26	L	
27	O	
28	BR	
29	L	
30	R	
47	P	
48	L	
49	W	
50	GR	
51	LG	
52	Y	
53	V	
54	SB	
55	P	
56	SB	
60	V	
61	GR	
62	O	
63	V	
64	SHEILD	
66	W	
31	V	
32	Y	
33	P	
34	SB	
35	R	
45	P	-
46	P	-
50	V	-
51	O	-
52	GR	[With automatic drive positioner] [Without automatic drive positioner]
52	R	-
53	L	-
53	LG	-
54	G	-
55	SB	-
55	O	-

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-	1	V	-
2	G	-	2	G	-
3	W	-	3	W	-
4	B	-	4	B	-
5	L	-	5	L	-
6	V	-	6	V	-
7	BR	-	7	BR	-
8	O	-	8	O	-
9	SB	-	9	SB	-
10	L	-	10	L	-
11	G	-	11	G	-
14	B	-	14	B	-
15	Y	-	15	Y	-
16	GR	-	16	GR	-
17	Y	-	17	Y	-
18	W	-	18	W	-
19	Y	-	19	Y	-
20	SB	-	20	SB	-
24	P	-	24	P	-
25	V	-	25	V	-
26	W	-	26	W	-
29	R	-	29	R	-
30	L	-	30	L	-
31	SB	-	32	W	-
33	P	-	33	P	-
34	SB	-	34	SB	-
35	R	-	35	R	-
41	LG	-	41	LG	-
42	LG	-	42	LG	-
43	O	-	43	O	-
44	Y	-	44	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-	1	W	-
2	SHEILD	-	2	SHEILD	-
3	B	-	3	B	-
4	SHEILD	-	4	SHEILD	-
6	R	-	6	R	-
7	Y	-	7	Y	-
8	Y	-	8	Y	-
9	B	-	9	B	-
10	Y	-	10	Y	-
11	P	-	11	P	-
12	L	-	12	L	-
13	SB	-	13	SB	-
15	G	-	15	G	-
16	R	-	16	R	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP

Connector No.	M44
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Terminal Color
No. Signal Name [Specification]

2	B	-
3	W	-
4	R	-
5	Y	-
6	W	-
7	G	-
8	SHIELD	-
9	W	-
10	R	-
11	G	-
12	B	-
13	O	-
14	R	-
15	SB	-
16	R	-
17	Y	-
18	P	-
19	P	-
20	LG	-
21	Y	-
22	O	-
23	LG	-
24	SB	-
25	Y	-
26	R	-
27	Y	-
28	R	-
29	LG	-
30	O	-
31	Y	-
32	V	-

Terminal Color
No. Signal Name [Specification]

Connector No.	M99
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal Color
No. Signal Name [Specification]

59	SHIELD	-
60	B	-
61	R	-
62	W	-
63	O	-
64	Y	-
66	L	-
67	R	-
68	G	-
69	SHIELD	-
70	L	-
71	R	-
72	LG	-
73	Y	-
74	R	-
75	P	-
76	L	-
77	BR	-
78	SHIELD	-
79	B	-
80	W	-
81	LG	-
82	L	-
83	W	-
84	R	-
85	V	[With front heated seat and passenger side power seat]
86	GR	[With front heated seat without passenger side power seat]
87	R	-
88	G	-
89	B	-
90	G	-
91	G	-
92	BR	-
93	P	-
94	V	-
95	O	-
96	SB	-
97	L	-
98	LG	-
99	Y	-

Terminal Color
No. Signal Name [Specification]

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK06FBR



Terminal Color
No. Signal Name [Specification]

1	2	3
4	5	6
7	8	9

Terminal Color
No. Signal Name [Specification]

1	2	3
4	5	6
7	8	9

Terminal Color
No. Signal Name [Specification]



Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-CS19

1	SHIELD	-
---	--------	---

Terminal Color No.	Signal Name [Specification]
1	SHIELD

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A
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P
Q
R
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V
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X
Y
Z

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP			
Connector No.	M103	Connector No.	M119
Connector Name	COMBINATION SWITCH	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH1BFW-NH	Connector Type	NS16FW-CS
1 2 3 4 5 6 7 8 9 10 11 12 13 14		4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
1	G	RR	P: INTERIOR ROOM LAMP POWER SUPPLY
2	Y	OUTPUT 4	G: PASSENGER DOOR UNLOCK OUTPUT
3	O	FR	7: W: STEP LAMP OUT/PUT
4	W	IGN	8: V: ALL DOOR FUEL LID LOCK OUT/PUT
5	V	OUTPUT 3	9: G: DRIVER DOOR FUEL LID UNLOCK OUT/PUT
6	B	GND	10: P: REAR DOOR UNLOCK OUT/PUT
7	GR	INPUT 3	11: LG: BAT (FUSE)
8	L	OUTPUT 5	13: B: GND
9	SB	INPUT 2	14: O: PUSH-BUTTON IGNITION SW/L GND
10	P	INPUT 4	15: L: ACC IND
11	O	INPUT 1	17: G: TURN SIGNAL RH
12	W	OUTPUT 1	18: R: TURN SIGNAL LH
13	R	INPUT 5	19: Y: ROOM LAMP/TIMER CONTROL
14	P	OUTPUT 2	
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
34	B	LUGGAGE ROOM ANTI-	34: B: LUGGAGE ROOM ANTI-
35	W	LUGGAGE ROOM ANTI+	35: W: LUGGAGE ROOM ANTI+
38	L	REAR BUMPER ANTI-	38: L: REAR BUMPER ANTI-
39	BR	POWER WINDOW POWER SUPPLY (BAT)	47: L: IGN RELAY IPDM E/R CONT
2	GR	POWER WINDOW POWER SUPPLY (RAP)	52: R: STARTER RELAY CONT
3	L		61: R: BACK DOOR OPENER REQUEST SW
			64: GR: REQUEST SW BUZZER
			65: O: REARWIPER STOP POSITION

INTERIOR ROOM LAMP CONTROL SYSTEM			
Connector No.	M122	Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH	Connector Type	TH40FG-NH
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151	
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
34	B	LUGGAGE ROOM ANTI-	34: B: LUGGAGE ROOM ANTI-
35	W	LUGGAGE ROOM ANTI+	35: W: LUGGAGE ROOM ANTI+
38	L	REAR BUMPER ANTI-	38: L: REAR BUMPER ANTI-
39	BR	POWER WINDOW POWER SUPPLY (BAT)	47: L: IGN RELAY IPDM E/R CONT
2	GR	POWER WINDOW POWER SUPPLY (RAP)	52: R: STARTER RELAY CONT
3	L		61: R: BACK DOOR OPENER REQUEST SW
			64: GR: REQUEST SW BUZZER
			65: O: REARWIPER STOP POSITION
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
34	B	LUGGAGE ROOM ANTI-	34: B: LUGGAGE ROOM ANTI-
35	W	LUGGAGE ROOM ANTI+	35: W: LUGGAGE ROOM ANTI+
38	L	REAR BUMPER ANTI-	38: L: REAR BUMPER ANTI-
39	BR	POWER WINDOW POWER SUPPLY (BAT)	47: L: IGN RELAY IPDM E/R CONT
2	GR	POWER WINDOW POWER SUPPLY (RAP)	52: R: STARTER RELAY CONT
3	L		61: R: BACK DOOR OPENER REQUEST SW
			64: GR: REQUEST SW BUZZER
			65: O: REARWIPER STOP POSITION

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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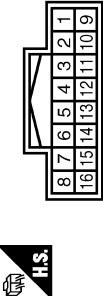
O

P

INL

INTERIOR ROOM LAMP

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Connector No.	R19
Connector Name	MAP LAMP
Connector Type	TK08FCY



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	-	1	P/W	-
2	SHIELD	[With telephone and navigation system] [With telephone without navigation system]	2	Y	-
3	R/L	-	3	B	-
4	B	-	4	SB	-
5	SHIELD	-	5	RY	-
6	R/L	-	6	R/L	-
7	Y/R	-			
8	B/Y	-			
9	B	-			
10	Y	-			
11	P/W	-			
12	B	-			
13	R/Y	-			
14	B/R	-			
15	R	-			
16	R	-			

Connector No.	R21
Connector Name	PERSONAL LAMP
Connector Type	TH05FP-HH



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	P/W	-	1	P/W	-
2	B	-	2	B	-
3	SB	-	3	SB	-

Connector No.	R10
Connector Name	VANITY MIRROR LAMP (PASSENGER SIDE)
Connector Type	MC02FW



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

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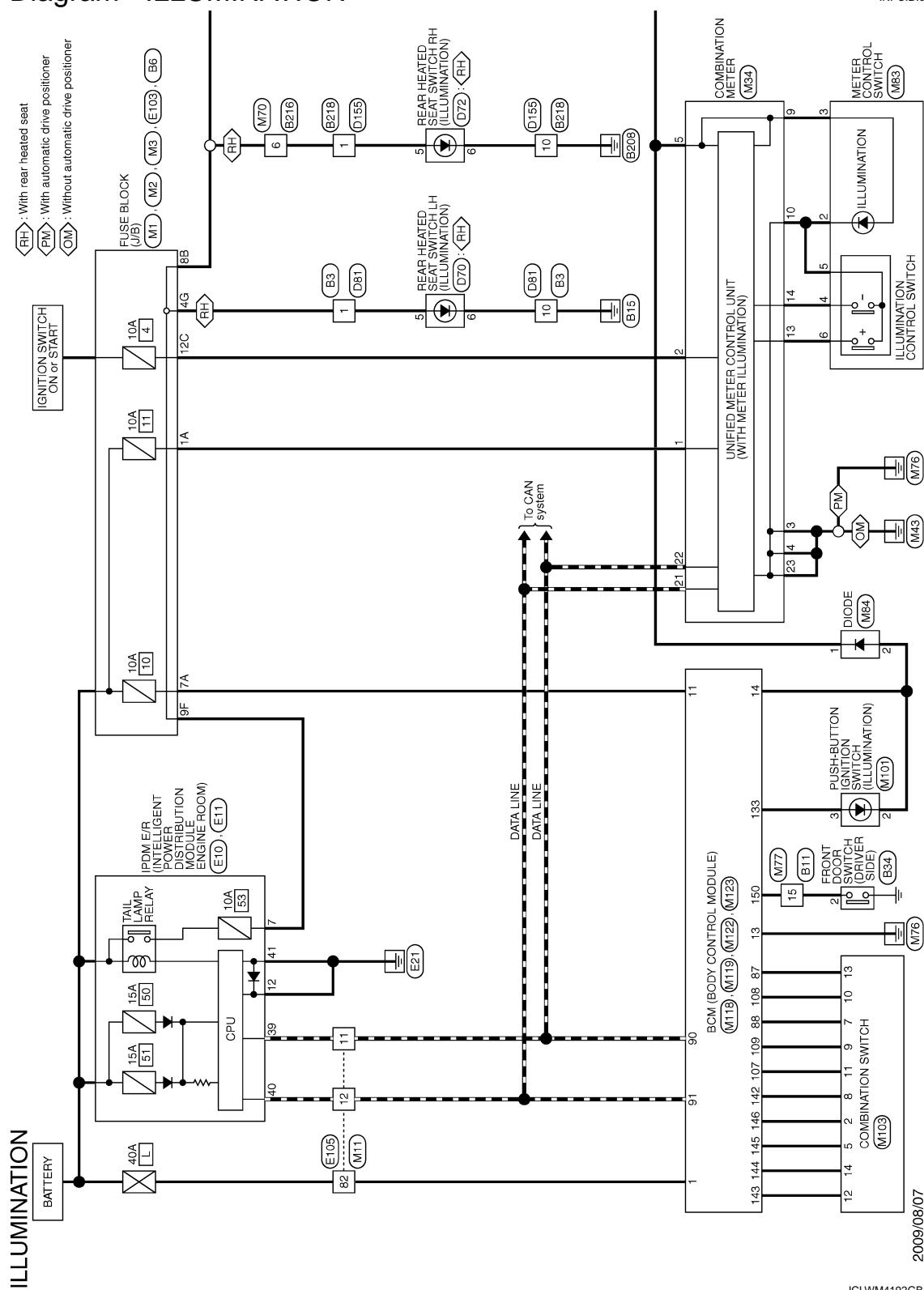
ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Wiring Diagram - ILLUMINATION -

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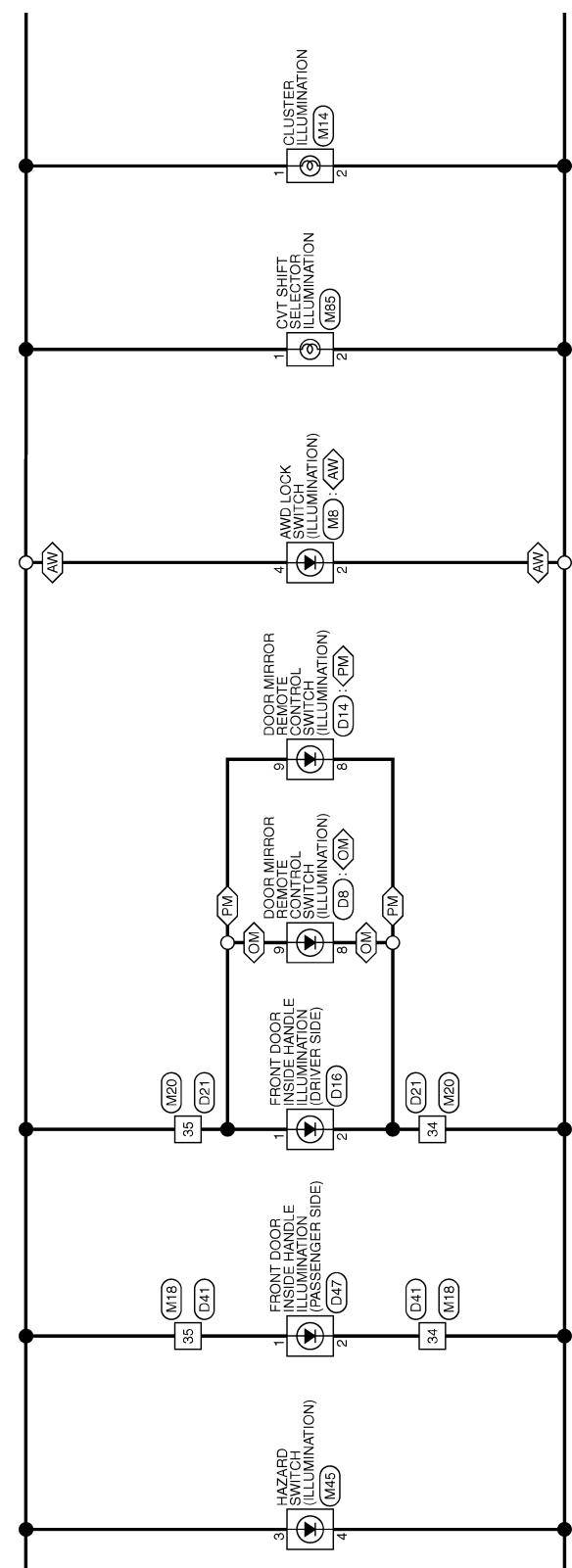


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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

AWD models
 With automatic drive positioner
 Without automatic drive positioner



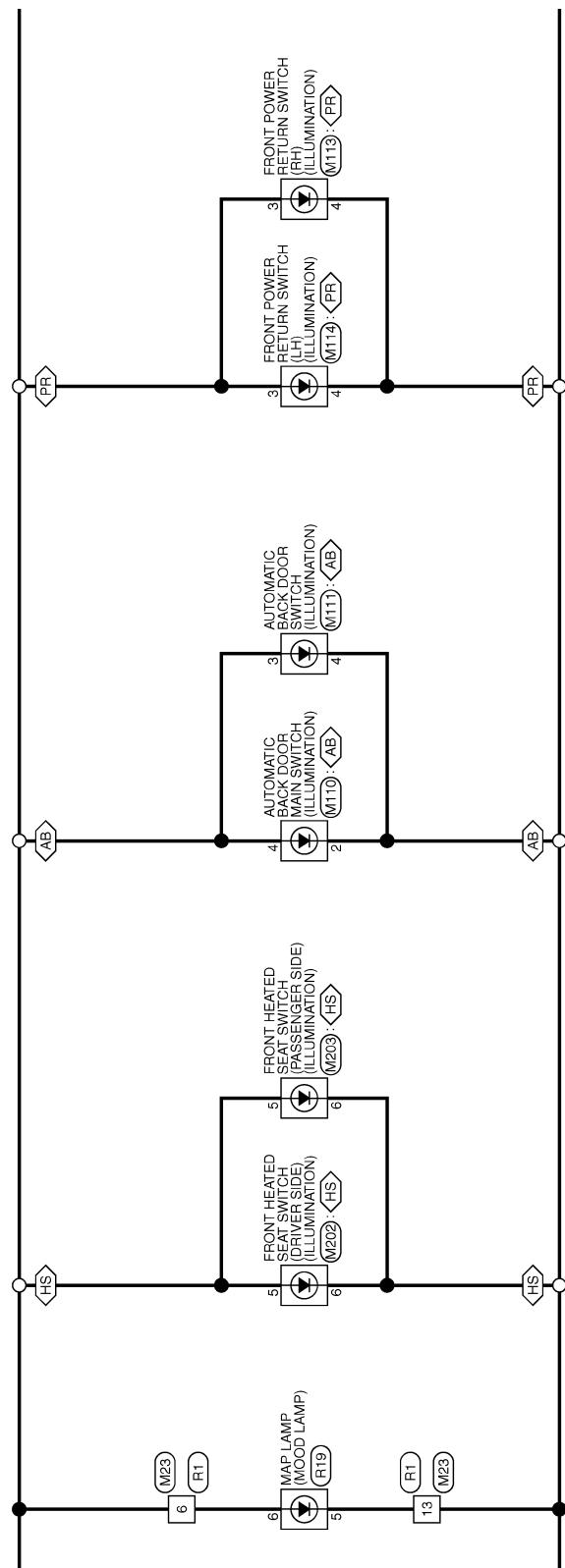
JCLWM4193GB

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

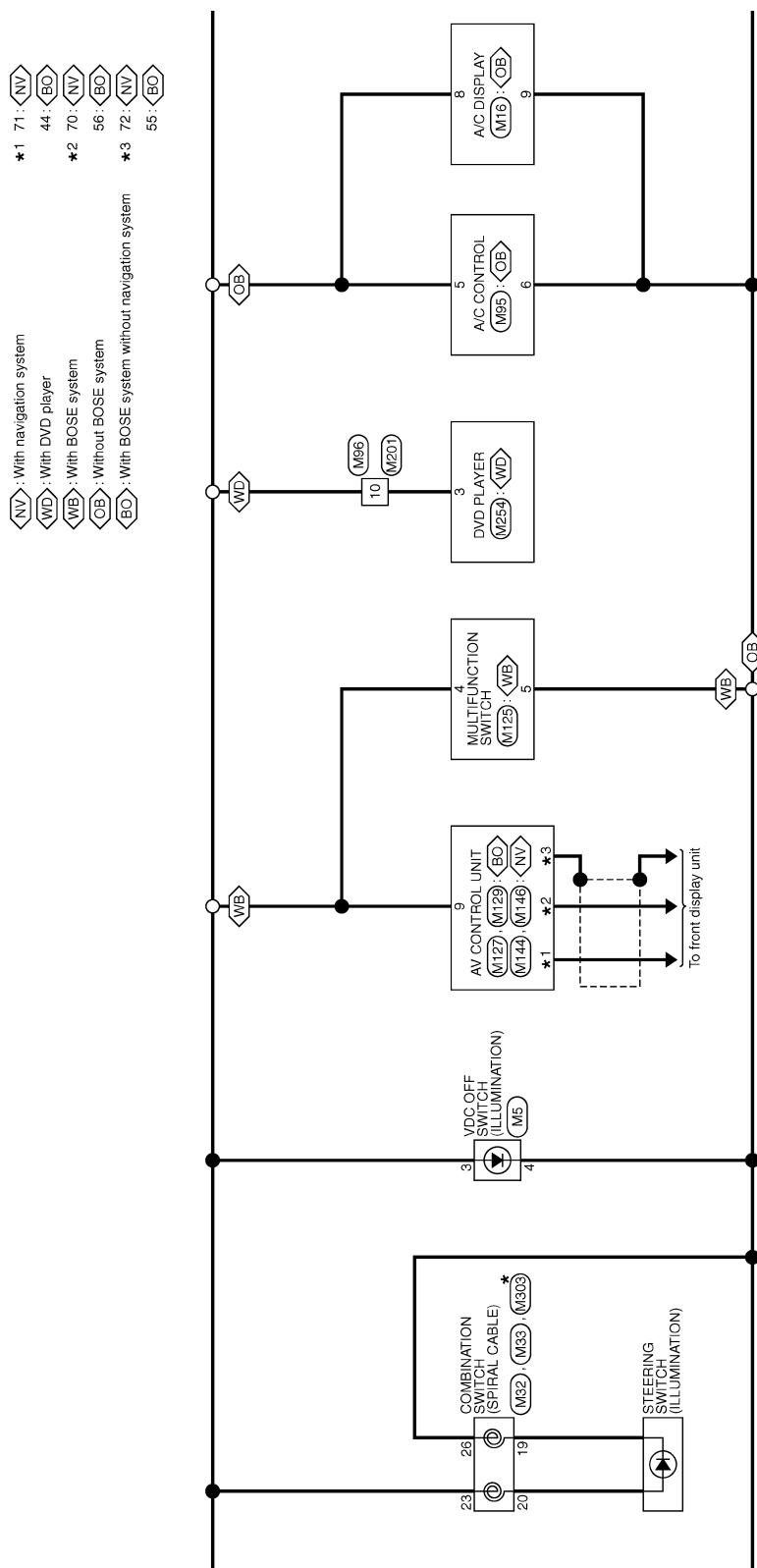
<HS> : With heated seat
 <AB> : With automatic back door
 <PR> : With rear seatback power return system



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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

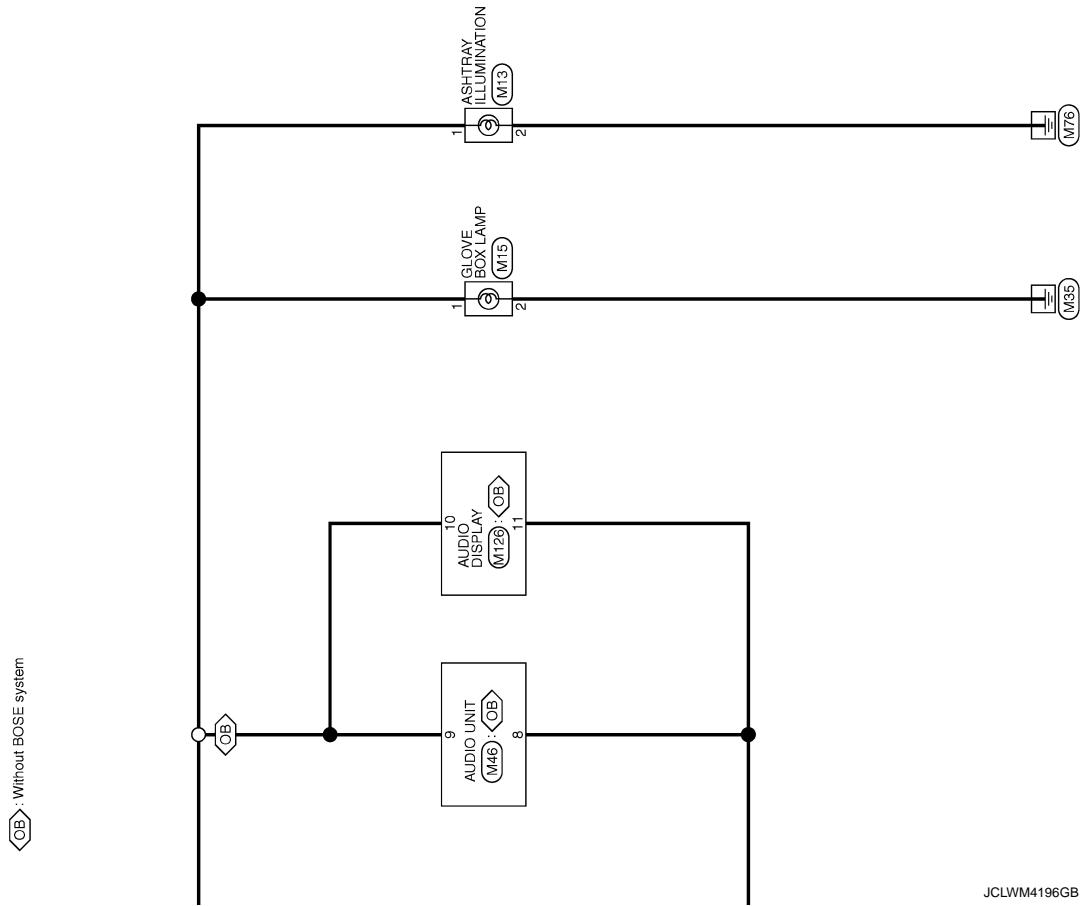


* : This connector is not shown in "Harness Layout".

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >



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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No. B3

Connector Name WIRE TO WIRE

Connector Type TK1DFW-NS8



Terminal Color No. Signal Name [Specification]

1 L	-
4 LG	-
5 O	-
7 LG	-
10 B	-
11 SB	-
12 G	-
13 V	-
14 GR	-
15 BR	-
17 R	-
18 Y	-
12 WL	-
13 L	-
14 BR	-
15 SB	-
16 BR	-
17 V	-
18 SB	-
19 R	-
20 P	-
21 LG	-
22 W	-
23 Y	-
25 Y	-
27 V	-
28 WL	-
30 P	-
31 O	-
32 BR	-
34 SB	-
35 L/O	-
37 LG	-
40 Y	-
41 O	-
42 SB	-
43 G	-

Connector No. B6

Connector Name FUSE BLOCK (J/B)

Connector Type NST2FBR-CS



Terminal Color No. Signal Name [Specification]

2G GR	-
4G L	-
5G P	-
10G Y	-
11G Y	-
2G GR	-
3G GR	-
4G GR	-
5G GR	-
6G GR	-
7G GR	-
8G GR	-
9G GR	-
10G GR	-
11G GR	-
12G GR	-
13V V	-
14R R	-
15P P	-
16SB SB	-

Connector No. B11

Connector Name WIRE TO WIRE

Connector Type TH80MW-CS19



[With rear view camera and telephone]
[Without rear view camera and telephone]

Connector No. E34

Connector Name FRONT DOOR SWITCH (DRIVER SIDE)

Connector Type A03FW



Terminal Color No. Signal Name [Specification]

1 SHIELD	-
2 B	-
3 RL	-
4 RW	-
5 SB	-
6 P	-
7 V	-
8 SHIELD	-
9 BR/L	-
10 Y/G	-
11 Y/L	-
12 WL	-
13 L	-
14 BR	-
15 SB	-
16 BR	-
17 V	-
18 SB	-
19 R	-
20 P	-
21 LG	-
22 W	-
23 Y	-
25 Y	-
27 V	-
28 WL	-
30 P	-
31 O	-
32 BR	-
34 SB	-
35 L/O	-
37 LG	-
40 Y	-
41 O	-
42 SB	-
43 G	-

Terminal Color No. Signal Name [Specification]

44 BR	-
45 L	-
46 GR	-
47 V	-
48 GR	-
49 Y	-
50 SHIELD	-
51 B	-
52 Y	-
53 Y	-
54 LG	-
55 BR	-
56 P	-
57 L	-
58 R	-
59 SHIELD	-
60 B	-
61 RL	-
62 RW	-
63 LG	-
64 Y	-
66 GR	-
67 G	-
68 R	-
69 SHIELD	-
70 W/R	-
71 B/R	-
72 Y	-
73 LG	-
74 SB	-
75 L	-
76 G	-
77 R	-
78 SHIELD	-
79 B	-
80 W	-
81 R	-
82 L	-
83 BR	-
84 O	-
85 G	-
86 SB	-
87 R	-
88 G	-
89 GR	-
90 Y	-
91 G	-
92 BR	-
93 G	-
94 V	-
95 BR	-

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No.	BZ18	15 O	—	53 L	— [With automatic drive positioner]
Connector Name	WIRE TO WIRE	16 SB	—	53 P	— [Without automatic drive positioner]
Connector Type	TK1DFW-NS8			54 SB	— [With automatic drive positioner]
Connector No.	D21			54 LG	— [Without automatic drive positioner]
Connector Name	WIRE TO WIRE			55 LG	— [With automatic drive positioner]
Connector Type	TH40FW-CS15			55 O	— [Without automatic drive positioner]
Connector No.	D41				
Connector Name	WIRE TO WIRE				
Connector Type	TH40FW-CS15				
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	W	—	1	V	—
4	L	[With BOSE system]	2	G	—
4	O	[Without BOSE system]	3	P	—
5	B/P	[With BOSE system]	4	B	—
5	B/P	[Without BOSE system]	5	W	—
7	O	—	6	SB	—
10	B	—	7	P	—
11	Y	—	8	BR	—
12	G	—	9	GR	—
13	V	—	10	V	—
14	P	—	11	O	—
15	SB	—	14	B	—
17	R	—	15	LG	—
18	GR	—	16	G	—
Connector No.	D3		17	Y	—
Connector Name	DOOR/HAND REMOTE CONTROL SWITCH WITHOUT AUTOMATIC DRIVE POSITIONER		18	BR	—
Connector Type	TK1DFW		19	BR	—
Connector No.	D14		20	LG	—
Connector Name	DOOR/HAND REMOTE CONTROL SWITCH WITH AUTOMATIC DRIVE POSITIONER		24	P	—
Connector Type	TK16FBR		25	V	—
Terminal No.	Color of Wire	Signal Name [Specification]	26	W	—
1	W	—	29	W	—
2	Y	—	30	SB	—
3	BR	—	31	BR	—
4	BR	—	32	R	—
5	BR	—	33	G	—
6	BR	—	34	Y	—
7	BR	—	35	L	—
8	Y	—			
9	L	—			
10	V	—			
12	P	—			
13	LG	—			
14	BR	—			

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No.	D47
Connector Name	FRONT DOOR INSIDE HANDLE ILLUMINATION (PASSENGER SIDE)
Connector Type	TK03FGY

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	GR	-
4	B	-
5	W	-
6	B	-



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
3	GR	-
4	B	-
5	W	-
6	B	-



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
3	GR	-
4	B	-
5	W	-
6	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
3	GR	-
4	B	-
5	W	-
6	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	W	-
4	B	-
5	Y	-
6	GR	-
7	LG	-
8	GR	-
9	Y	-
10	LG	-
11	Y	-
12	LG	-
13	GR	-
14	B	-
15	W	-
16	B	-
17	Y	-
18	GR	-
19	LG	-
20	W	-
21	LG	-
22	Y	-
23	GR	-
24	LG	-
25	GR	-
26	Y	-
27	W	-
28	SB	-
29	BR	-
30	V	-
31	G	-
32	O	-
33	P	-
34	O	-
35	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	W	-
4	B	-
5	Y	-
6	GR	-
7	LG	-
8	GR	-
9	Y	-
10	LG	-
11	Y	-
12	LG	-
13	GR	-
14	B	-
15	W	-
16	B	-
17	Y	-
18	GR	-
19	LG	-
20	W	-
21	LG	-
22	Y	-
23	GR	-
24	LG	-
25	GR	-
26	Y	-
27	W	-
28	SB	-
29	BR	-
30	V	-
31	G	-
32	O	-
33	P	-
34	O	-
35	P	-

A B C D E F G H I J K L M N O P Z INL-45

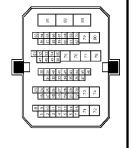
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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No.	Connector Name	Wire To Wire	Connector Type
E106	WIRE TO WIRE		TH70MW-CS10-M3



H.S.

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

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No.	Wire No.	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
MI1	1	WIRE TO WIRE	1	R	WIRE TO WIRE	1	G	-
Connector Name	WIRE TO WIRE		2	SB		2	V	
Connector Type	TH70FW-CS10-M3		3	W		3	W	-
MI1	2	WIRE TO WIRE	4	P	WIRE TO WIRE	4	W	-
Connector Name	WIRE TO WIRE		5	G	WIRE TO WIRE	5	BR	-
Connector Type	TH70FW-CS10-M3		6	BR	WIRE TO WIRE	6	GR	-
MI5	7	GLOVE BOX LAMP	7	L	GLOVE BOX LAMP	7	G	-
Connector Name	GLOVE BOX LAMP		8	W	GLOVE BOX LAMP	8	V	-
Connector Type	AU2FW		9	BR	GLOVE BOX LAMP	9	W	-
MI5	10	GLOVE BOX LAMP	10	R	GLOVE BOX LAMP	10	BR	-
Connector Name	GLOVE BOX LAMP		11	Y	GLOVE BOX LAMP	11	Y	-
Connector Type	AU2FW		12	Y	GLOVE BOX LAMP	12	Y	-
MI3	13	ASHTRAY ILLUMINATION	13	O	ASHTRAY ILLUMINATION	13	W	-
Connector Name	ASHTRAY ILLUMINATION		14	P	ASHTRAY ILLUMINATION	14	W	-
Connector Type	AU2FW		15	BR	ASHTRAY ILLUMINATION	15	W	-
MI6	16	A/C DISPLAY	16	BR	A/C DISPLAY	16	W	-
Connector Name	A/C DISPLAY		17	Y	A/C DISPLAY	17	Y	-
Connector Type	TH70FB-NH		18	Y	A/C DISPLAY	18	W	-
MI4	19	CLUSTER ILLUMINATION	19	BR	CLUSTER ILLUMINATION	19	R	-
Connector Name	CLUSTER ILLUMINATION		20	SB	CLUSTER ILLUMINATION	20	SB	-
Connector Type	AU2FW		21	SB	CLUSTER ILLUMINATION	21	SB	-
MI4	22	CLUSTER ILLUMINATION	22	BR	CLUSTER ILLUMINATION	22	BR	-
Connector Name	CLUSTER ILLUMINATION		23	SB	CLUSTER ILLUMINATION	23	BR	-
Connector Type	AU2FW		24	Y	CLUSTER ILLUMINATION	24	Y	-
MI4	25	CLUSTER ILLUMINATION	25	Y	CLUSTER ILLUMINATION	25	Y	-
Connector Name	CLUSTER ILLUMINATION		26	Y	CLUSTER ILLUMINATION	26	P	-
Connector Type	AU2FW		27	Y	CLUSTER ILLUMINATION	27	P	-
MI4	28	CLUSTER ILLUMINATION	28	Y	CLUSTER ILLUMINATION	28	P	-
Connector Name	CLUSTER ILLUMINATION		29	Y	CLUSTER ILLUMINATION	29	P	-
Connector Type	AU2FW		30	Y	CLUSTER ILLUMINATION	30	P	-
MI4	31	CLUSTER ILLUMINATION	31	Y	CLUSTER ILLUMINATION	31	Y	-
Connector Name	CLUSTER ILLUMINATION		32	Y	CLUSTER ILLUMINATION	32	Y	-
Connector Type	AU2FW		33	Y	CLUSTER ILLUMINATION	33	Y	-
MI4	34	CLUSTER ILLUMINATION	34	Y	CLUSTER ILLUMINATION	34	Y	-
Connector Name	CLUSTER ILLUMINATION		35	Y	CLUSTER ILLUMINATION	35	Y	-
Connector Type	AU2FW		36	Y	CLUSTER ILLUMINATION	36	Y	-
MI4	37	CLUSTER ILLUMINATION	37	Y	CLUSTER ILLUMINATION	37	Y	-
Connector Name	CLUSTER ILLUMINATION		38	Y	CLUSTER ILLUMINATION	38	Y	-
Connector Type	AU2FW		39	Y	CLUSTER ILLUMINATION	39	Y	-
MI4	40	CLUSTER ILLUMINATION	40	Y	CLUSTER ILLUMINATION	40	Y	-
Connector Name	CLUSTER ILLUMINATION		41	Y	CLUSTER ILLUMINATION	41	Y	-
Connector Type	AU2FW		42	Y	CLUSTER ILLUMINATION	42	Y	-
MI4	43	CLUSTER ILLUMINATION	43	Y	CLUSTER ILLUMINATION	43	Y	-
Connector Name	CLUSTER ILLUMINATION		44	Y	CLUSTER ILLUMINATION	44	Y	-
Connector Type	AU2FW		45	Y	CLUSTER ILLUMINATION	45	Y	-
MI4	46	CLUSTER ILLUMINATION	46	Y	CLUSTER ILLUMINATION	46	Y	-
Connector Name	CLUSTER ILLUMINATION		47	Y	CLUSTER ILLUMINATION	47	Y	-
Connector Type	AU2FW		48	Y	CLUSTER ILLUMINATION	48	Y	-
MI4	49	CLUSTER ILLUMINATION	49	Y	CLUSTER ILLUMINATION	49	Y	-
Connector Name	CLUSTER ILLUMINATION		50	Y	CLUSTER ILLUMINATION	50	Y	-
Connector Type	AU2FW		51	Y	CLUSTER ILLUMINATION	51	Y	-
MI4	52	CLUSTER ILLUMINATION	52	Y	CLUSTER ILLUMINATION	52	Y	-
Connector Name	CLUSTER ILLUMINATION		53	Y	CLUSTER ILLUMINATION	53	Y	-
Connector Type	AU2FW		54	Y	CLUSTER ILLUMINATION	54	Y	-
MI4	55	CLUSTER ILLUMINATION	55	Y	CLUSTER ILLUMINATION	55	Y	-
Connector Name	CLUSTER ILLUMINATION		56	Y	CLUSTER ILLUMINATION	56	Y	-
Connector Type	AU2FW		57	Y	CLUSTER ILLUMINATION	57	Y	-
MI4	58	CLUSTER ILLUMINATION	58	Y	CLUSTER ILLUMINATION	58	Y	-
Connector Name	CLUSTER ILLUMINATION		59	Y	CLUSTER ILLUMINATION	59	Y	-
Connector Type	AU2FW		60	Y	CLUSTER ILLUMINATION	60	Y	-
MI4	61	CLUSTER ILLUMINATION	61	Y	CLUSTER ILLUMINATION	61	Y	-
Connector Name	CLUSTER ILLUMINATION		62	Y	CLUSTER ILLUMINATION	62	Y	-
Connector Type	AU2FW		63	Y	CLUSTER ILLUMINATION	63	Y	-
MI4	64	CLUSTER ILLUMINATION	64	Y	CLUSTER ILLUMINATION	64	Y	-
Connector Name	CLUSTER ILLUMINATION		65	Y	CLUSTER ILLUMINATION	65	Y	-
Connector Type	AU2FW		66	Y	CLUSTER ILLUMINATION	66	Y	-

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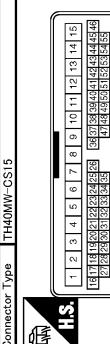
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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH45MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	W	-
4	B	-
5	L	-
6	V	-
7	BR	-
8	O	-
9	SB	-
10	L	-
11	G	-
12	V	-
13	G	-
14	BR	-
15	GR	-
16	L	-
17	Y	-
18	W	-
19	Y	-
20	SB	-
21	P	-
22	W	-
23	R	-
24	R	-
25	L	-
26	W	-
27	R	-
28	R	-
29	R	-
30	L	-
31	SB	-
32	W	-
33	P	-
34	SB	-
35	R	-
41	LG	-
42	LG	-
43	O	-
44	Y	-
45	P	-
46	P	-
50	V	-
51	O	-
52	GR	-[With automatic drive positioner] -[Without automatic drive positioner]

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-[With automatic drive positioner] -[Without automatic drive positioner]
2	G	-[With automatic drive positioner] -[Without automatic drive positioner]
3	W	-[With automatic drive positioner] -[Without automatic drive positioner]
4	B	-[With automatic drive positioner] -[Without automatic drive positioner]
5	L	-[With automatic drive positioner] -[Without automatic drive positioner]

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	W	-
4	B	-
5	L	-
6	V	-
7	BR	-
8	O	-
9	SB	-
10	L	-
11	G	-
12	V	-
13	G	-
14	BR	-
15	GR	-
16	L	-
17	Y	-
18	W	-
19	Y	-
20	SB	-
21	P	-
22	W	-
23	R	-
24	R	-
25	L	-
26	W	-
27	R	-
28	R	-
29	R	-
30	L	-
31	SB	-
32	W	-
33	P	-
34	SB	-
35	R	-
41	LG	-
42	LG	-
43	O	-
44	Y	-
45	P	-
46	P	-
50	V	-
51	O	-
52	GR	-[With automatic drive positioner] -[Without automatic drive positioner]

53	L	-[With automatic drive positioner] -[Without automatic drive positioner]
53	V	-[With automatic drive positioner] -[Without automatic drive positioner]
54	LG	-[With automatic drive positioner] -[Without automatic drive positioner]
55	G	-[With automatic drive positioner] -[Without automatic drive positioner]
55	SB	-[With automatic drive positioner] -[Without automatic drive positioner]
55	O	-[With automatic drive positioner] -[Without automatic drive positioner]
5	SB	ILLUMINATION CONTROL
8	SB	TRIP RESET SWITCH
9	W	SWILL POWER
10	O	METER CONTROL SW GRID
11	L	ENTER SWITCH
12	R	SELECT SWITCH
13	V	ILLUMINATION CONTROL SWITCH (-) [With automatic drive positioner] ILLUMINATION CONTROL SWITCH (+) [Without automatic drive positioner]
14	GR	ILLUMINATION CONTROL SWITCH (-)
15	BR	AIR BAG
18	L	AMBIENT SENSOR GROUND
19	P	AMBIENT SENSOR POWER
20	Y	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	W	FUEL LEVEL SENSOR GROUND
25	BR	CHG
26	G	PARKING BRAKE SWITCH
27	V	Brake fluid level switch
29	R	WASHER LEVEL SWITCH
30	P	VEHICLE SPEED (2-PULSE)
31	V	VEHICLE SPEED (8-PULSE)
32	LG	ON/OFF /SPORTS
34	G	FUEL LEVEL SENSOR
35	SB	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
36	R	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	W	-
4	B	-
5	L	-
6	V	-
7	BR	-
8	O	-
9	SB	-
10	L	-
11	G	-
12	V	-
13	G	-
14	BR	-
15	GR	-
16	L	-
17	Y	-
18	W	-
19	Y	-
20	SB	-
21	P	-
22	W	-
23	R	-
24	R	-
25	L	-
26	W	-
27	R	-
28	R	-
29	R	-
30	L	-
31	SB	-
32	W	-
33	P	-
34	SB	-
35	R	-
41	LG	-
42	LG	-
43	O	-
44	Y	-
45	P	-
46	P	-
50	V	-
51	O	-
52	GR	-[With automatic drive positioner] -[Without automatic drive positioner]

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	W	-
4	B	-
5	L	-
6	V	-
7	BR	-
8	O	-
9	SB	-
10	L	-
11	G	-
12	V	-
13	G	-
14	BR	-
15	GR	-
16	L	-
17	Y	-
18	W	-
19	Y	-
20	SB	-
21	P	-
22	W	-
23	R	-
24	R	-
25	L	-
26	W	-
27	R	-
28	R	-
29	R	-
30	L	-
31	SB	-
32	W	-
33	P	-
34	SB	-
35	R	-
41	LG	-
42	LG	-
43	O	-
44	Y	-
45	P	-
46	P	-
50	V	-
51	O	-
52	GR	-[With automatic drive positioner] -[Without automatic drive positioner]

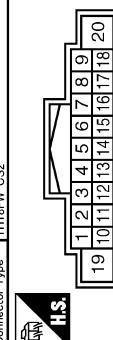
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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

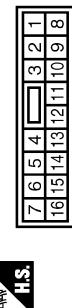
ILLUMINATION

Connector No. M46
Connector Name AUDIO UNIT
Connector Type TH18FW-CS2

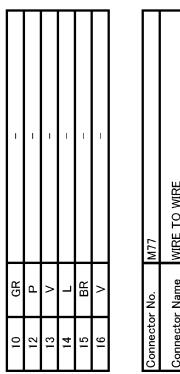


Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color of Wire	Signal Name [Specification]
2	L	SOUND SIGNAL FRONT LH (+)	1	SHIELD
3	G	SOUND SIGNAL FRONT LH (-)	2	B
4	LG	SOUND SIGNAL REAR LH (+)	3	W
5	Y	SOUND SIGNAL REAR LH (-)	4	R
6	W	STRG SW A	5	Y
7	R	ACC	6	V
8	SB	ILLUMINATION CONTROL	7	W
9	R	ILLUMINATION	8	SHIELD
11	BR	SOUND SIGNAL FRONT RH (+)	9	W
12	W	SOUND SIGNAL FRONT RH (-)	10	R
13	O	SOUND SIGNAL REAR RH (+)	11	Y
14	P	SOUND SIGNAL REAR RH (-)	12	V
15	SB	STRG SW GRID	13	W
16	Y	STRG SW B	14	R
19	Y	BATTERY	15	SB

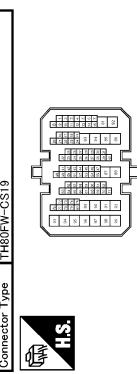
Connector No. M70
Connector Name WIRE TO WIRE
Connector Type NS1DFBR-CS



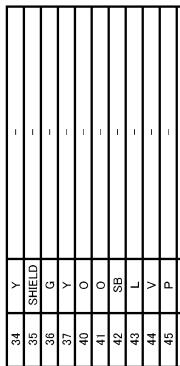
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-	11	G	-
4	P	-	12	B	-
5	O	-	13	O	-
6	R	-	14	R	-
7	W	-	15	SB	-
8	V	-	16	R	-
9	L	-	17	V	-
16	BR	-	18	P	-
19	P	-	20	LG	-
21	Y	-	22	O	-
23	LG	-	24	SB	-
25	Y	-	26	Y	-
27	Y	-	28	R	-
29	Y	-	30	Y	-
31	W	-	32	BR	-



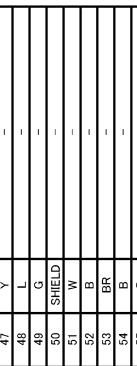
Connector No. M77
Connector Name WIRE TO WIRE
Connector Type TH18OFV-CS9



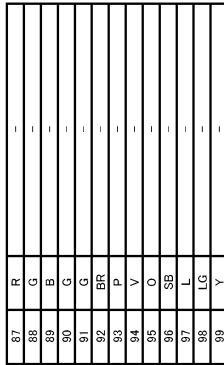
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	2	3	4	5	6
2	1	10	3	11	12
3	12	13	4	14	15
4	15	16	5	17	18
5	17	18	6	19	20



Connector No. M78
Connector Name WIRE TO WIRE
Connector Type TH18OFV-CS9



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	2	3	4	5	6
2	1	10	3	11	12
3	12	13	4	14	15
4	15	16	5	17	18
5	17	18	6	19	20



Connector No. M83
Connector Name MEIER CONTROL SWITCH
Connector Type TH12EW-NH



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-	34	Y	-
2	SHIELD	-	35	SHIELD	-
3	G	-	36	G	-
4	Y	-	37	Y	-
5	O	-	40	O	-
6	SE	-	41	O	-
7	SE	-	42	SB	-
8	P	-	43	L	-
9	V	-	44	V	-
10	R	-	45	P	-
11	SE	-	46	R	-
12	L	-	47	Y	-
13	LG	-	48	L	-
14	G	-	49	G	-
15	W	-	50	SHIELD	-
16	W	-	51	W	-
17	B	-	52	B	-
18	BR	-	53	BR	-
19	B	-	54	B	-

A B C D E F G H I J K L M N O P Q R S Z INL

JCLWM4203GB

ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No.	M84	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	DIODE	3 L	O	-
Connector Name		4 P	W	-
Connector Type	24335 CB002	5 R	BR	-
		6 BR	R	-
		7 ILL+	-	-
		8 ILL-	-	-
Connector No.	M86	6 L	-	-
Connector Name	WIRE TO WIRE	7 P	-	-
Connector Type	TH16FW-NH	8 GR	-	-
HS.				

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Connector Name	Terminal No.	Color of Wire	Signal Name [Specification]
1 SB	-	-	M103	COMBINATION SWITCH	1 Y	-	-
2 O	-	-			2 B	-	-
					3 R	-	-
					4 GS	-	-
HS.							

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Connector Name	Terminal No.	Color of Wire	Signal Name [Specification]
1 Y	-	-	M85	CVT SHIFT SELECTOR ILLUMINATION	1 G	-	-
2 R	-	-			2 RR	-	-
3 L	-	-			3 OUTPUT 4	-	-
4 L	-	-			4 Y	-	-
5 L	-	-			5 FR	-	-
6 R	-	-			6 O	-	-
7 SHIELD	-	-			7 V	-	-
8 R	-	-			8 GND	-	-
9 G	-	-			9 INPUT 3	-	-
10 R	-	-			10 INPUT 2	-	-
11 B	-	-			11 INPUT 1	-	-
12 G	-	-			12 O	-	-
13 R	-	-			13 W	-	-
14 W	-	-			14 P	-	-
15 SHIELD	-	-			15 INPUT 4	-	-
16 B	-	-			16 INPUT 1	-	-
HS.					17 INPUT 2	-	-
					18 INPUT 3	-	-
					19 INPUT 4	-	-
					20 INPUT 5	-	-
					21 GS	-	-
					22 FR	-	-
					23 O	-	-
					24 V	-	-
					25 GND	-	-

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Connector Name	Terminal No.	Color of Wire	Signal Name [Specification]
1 R	-	-	M85	A/C CONTROL	1 2 3 4 5 6	-	-
2 SB	-	-			7 8 9 10 11 12	-	-
HS.							

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Connector Name	Terminal No.	Color of Wire	Signal Name [Specification]
1 G	-	-	M10	PUSH-BUTTON IGNITION SWITCH	1 O	-	-
2 B	-	-			2 B	-	-
HS.					3 R	-	-
					4 R	-	-

Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Connector Name	Terminal No.	Color of Wire	Signal Name [Specification]
1 B	-	-	M111	AUTOMATIC BACK DOOR SWITCH	1 2 3 4 5 6	-	-
HS.					7 8 9 10 11 12	-	-

JCLWM4204GB

ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

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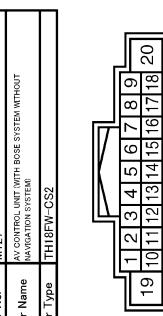
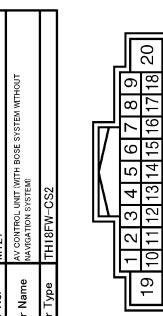
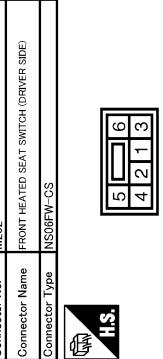
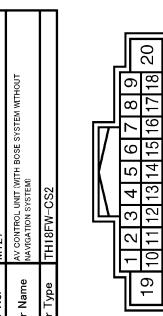
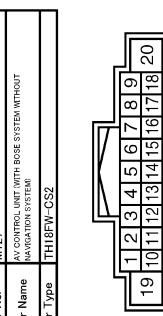
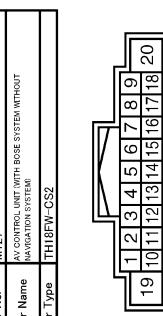
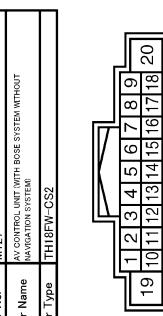
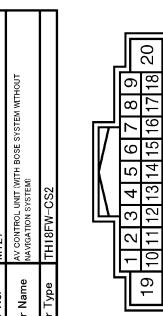
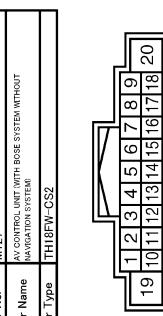
Connector No.	Signal Name [Specification]	Terminal Color of Wire No.	Signal Name [Specification]	Terminal Color of Wire No.	Signal Name [Specification]
M114	SHIFT P	9	V	99	PASSENGER DOOR REQUEST SW
Connector Name FRONT POWER RETURN SWITCH (LH)	INTERIOR ROOM LAMP POWER SUPPLY	4	P	100	DRIVER DOOR REQUEST SW
Connector Type TH40FW	PASSENGER DOOR UNLOCK OUTPUT	5	G	101	Y
	STEP LAMP OUTPUT	7	W	102	Y
	ALL DOOR FUEL LED LOCK OUTPUT	8	V	103	L
	DRIVER DOOR FUEL LED UNLOCK OUTPUT	9	G	106	Y
	REAR DOOR UNLOCK OUTPUT	10	P	107	O
	BAT (FUSE)	11	LG	108	P
	GND	13	B	109	SB
	PUSH-BUTTON IGNITION SW/L GND	14	O	110	G
	ACC IND	15	L	111	LG
	TURN SIGNAL RH	17	G		
	TURN SIGNAL LH	18	BR		
	ROOM LAMP TIMER CONTROL	19	Y		
M115	BCM (BODY CONTROL MODULE)	4	3	2	1
Connector Name BCM (BODY CONTROL MODULE)	BCM (BODY CONTROL MODULE)	5	2	3	1
Connector Type NS16FW-NH	BCM (BODY CONTROL MODULE)	6	2	3	1
	BCM (BODY CONTROL MODULE)	7	2	3	1
	ROOM ANT2-	72	B		
	ROOM ANT2+	73	V		
	PASSENGER DOOR AN-	74	Y		
	PASSENGER DOOR AN-	75	LG		
	DRIVER DOOR AN-	76	V		
	DRIVER DOOR AN-	77	P		
	IMMOBILIZER ANTENNA CONTROL	80	SB		
	IMMOBILANTENNA SIGNAL	81	O		
	(IGNORE IF B) CONT	82	BR		
	KEYLESS ENTRY RECEIVER SIGNAL	83	P		
	COMBI SW INPUT 5	87	R		
	COMBI SW INPUT 3	88	GR		
	PUSH SW	89	BR		
	CAN-L	90	P		
	CAN-H	91	L		
	KEY SLOT-ILL	92	R		
	ON IND	93	P		
	ACC RELAY CONT	95	L		
	CVT SHIFT SELECTOR POWER SUPPLY	96	Y		
	S/L CONDITION 1	97	O		
	S/L CONDITION 2	98	L		
	REAR WINDOW DEFROGGER RELAY	151	G		
M116	AUDIO DISPLAY	1	B		
Connector Name AUDIO DISPLAY	AUDIO DISPLAY	2	R		
Connector Type TH12FW-NH	AUDIO DISPLAY	3	R		
	AUDIO DISPLAY	4	R		
	RAIN SENSOR SERIAL LINK	112	R		
	OPTICAL SENSOR	113	O		
	FUSE CHECK	116	GR		
	STOP LAMP SW	118	L		
	DEF DOOR UNLOCK SENSOR	119	W		
	KEY SLOT SW	121	Y		
	IGN F/B	123	Q		
	PASSENGER DOOR SW	124	R		
	REAR DE-FOGGER SW	130	BR		
	POWER WINDOW SW COMM	132	G		
	PUSH-BUTTON IGNITION SW/ILL POWER	133	W		
	LOCK IND	134	R		
	RECEIVER SENSOR GND	137	P		
	RECEIVER-SENSOR-POWER SUPPLY	138	V		
	TIRE PRESS RECEIVER SIGNAL	139	O		
	SHIFT N/P	140	GR		
	SECURITY INDICATOR OUTPUT	141	O		
	COMBI SW OUTPUT 5	142	L		
	COMBI SW OUTPUT 1	143	W		
	COMBI SW OUTPUT 2	144	P		
	COMBI SW OUTPUT 3	145	Y		
	COMBI SW OUTPUT 4	146	Y		
	TIRE PRESS/WARNING CHECK SW	149	W		
	DRIVER DOOR SW	150	SB		
	REAR WINDOW DEFROGGER RELAY	151	G		
M117	AV COMM (L)	1	G		
Connector Name AV COMM (L)	AV COMM (L)	2	R		
Connector Type NS16FW-CS	AV COMM (L)	3	B		
	AV COMM (L)	8	R		
	ACC	9	Y		
	+B	10	R		
	ILL+	11	SE		
	ILL-				

JCLWM4205GB

ILLUMINATION

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ILLUMINATION

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ILLUMINATION

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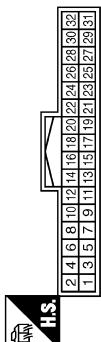
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ILLUMINATION

Connector No.	M354
Connector Name	DVD PLAYER
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
13	-	-	1	P/W	-
14	-	-	2	Y	-
15	-	-	3	B	-
16	-	-	4	SB	-
17	-	-	5	R/Y	-
18	-	-	6	R/L	-
19	-	-			
20	-	-			



Connector No.	M354
Connector Name	DVD PLAYER
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND	1	P/W	-
2	Y	BATTERY	2	Y	-
3	R	ILLUMINATION	3	B	-
4	V	ACCO	4	SB	-
5	SHIELD	SHIELD	5	R/Y	-
7	P	DVD IMAGE SIGNAL	6	R/L	-
11	B	AUX SOUND SIGNAL LH (-)	8	7	6
12	W	AUX SOUND SIGNAL RH (-)	9	5	4
13	G	AUX SOUND SIGNAL LH (+)	10	14	3
14	R	AUX SOUND SIGNAL RH (+)	11	12	2
16	SHIELD	SHIELD	12	11	1
17	G	HEADPHONE SOUND SIGNAL LH (+)	13	10	-
18	R	HEADPHONE SOUND SIGNAL LH (-)	14	9	-
19	V	HEADPHONE SOUND SIGNAL RH (+)	15	8	-
20	LG	HEADPHONE SOUND SIGNAL RH (-)	16	7	-
21	B	SOUND SIGNAL LH (-)	17	6	-
22	G	SOUND SIGNAL LH (+)	18	5	-
23	R	SOUND SIGNAL RH (-)	19	4	-
24	W	SOUND SIGNAL RH (+)	20	3	-
29	L	AV COMM (L)	21	2	-
30	R	AV COMM (R)	22	1	-
31	L	AV COMM (L)	23	0	-
32	R	AV COMM (R)	24	1	-



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	-	1	R/W	-
2	R/L	(With telephone and navigation system)	2	R/L	(With telephone without navigation system)
3	B	-	3	B	-
4	SHIELD	-	4	SHIELD	-
6	R/L	-	6	R/L	-
7	Y/R	-	7	Y/R	-
8	B/Y	-	8	B/Y	-
9	B	-	9	B	-
10	Y	-	10	Y	-
11	P/W	-	11	P/W	-
12	B	-	12	B	-
13	R/Y	-	13	R/Y	-
15	B/R	-	15	B/R	-
16	R	-	16	R	-



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
19	18	COMBINATION SWITCH (SIGNAL CABLE)	20	19	COMBINATION SWITCH (SIGNAL CABLE)
18	17	TK08FGY	17	16	TK08FGY
16	15	-	15	14	-
14	13	-	13	-	-

Connector No.	M303
Connector Name	COMBINATION SWITCH (SIGNAL CABLE)
Connector Type	TK08FGY



JCLWM4207GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005681428

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
	Front wiper switch INT/AUTO	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver 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
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	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
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW NOTE: For models with BOSE audio system this item is not monitored.	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of Intelligent Key is not pressed	Off
	LOCK button of Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed	On
RKE-TR/BD	BACK DOOR OPEN button of Intelligent Key is not pressed	Off
	BACK DOOR OPEN button of Intelligent Key is pressed	On
RKE-PANIC	PANIC button of Intelligent Key is not pressed	Off
	PANIC button of Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed and held	On

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	Stop lamp switch 1 signal circuit is normal	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK NOTE: For models without steering lock unit this item is not displayed.	Steering is unlocked	Off
Steering is locked	On	
S/L -UNLOCK NOTE: For models without steering lock unit this item is not displayed.	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-F/B NOTE: For models without steering lock unit this item is not displayed.	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
UNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM NOTE: For models without steering lock unit this item is not displayed.	Steering is unlocked	Off
S/L UNLK-IPDM NOTE: For models without steering lock unit this item is not displayed.	Steering is locked	On
	Steering is unlocked	Off
S/L RELAY-REQ NOTE: For models without steering lock unit this item is not displayed.	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK.	Off
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK.	On
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Power supply position in LOCK position	Reset
	Power supply position in any position other than LOCK	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	Intelligent Key is not inserted into key slot	Off
	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—

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BCM (BODY CONTROL MODULE)

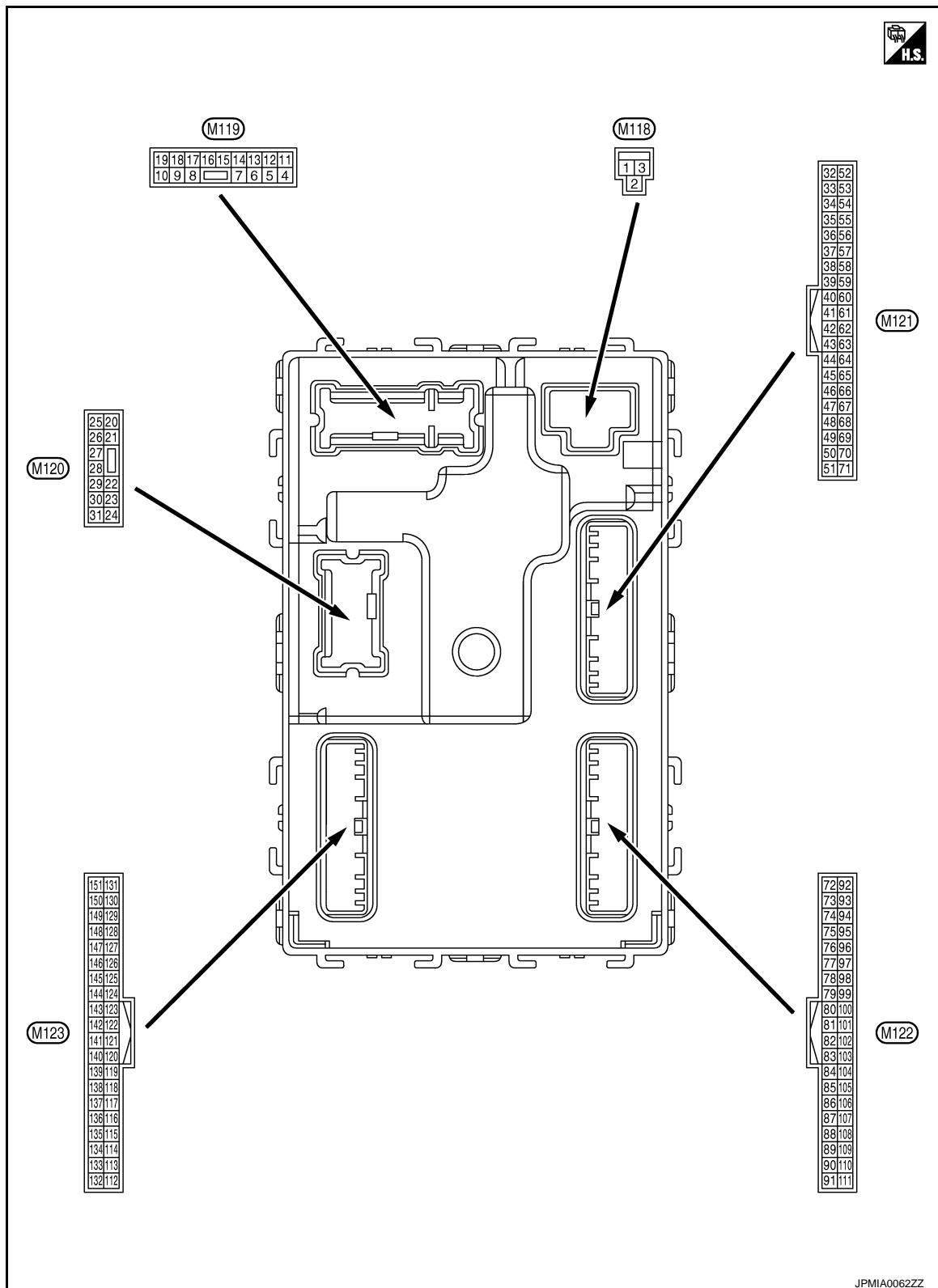
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID ALL	The Intelligent Key ID that the key slot receives is not recognized by any Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by any Intelligent Key ID registered to BCM.	Done
CONFIRM ID4	The Intelligent Key ID that the key slot receives is not recognized by the fourth Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the fourth Intelligent Key ID registered to BCM.	Done
CONFIRM ID3	The Intelligent Key ID that the key slot receives is not recognized by the third Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the third Intelligent Key ID registered to BCM.	Done
CONFIRM ID2	The Intelligent Key ID that the key slot receives is not recognized by the second Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the second Intelligent Key ID registered to BCM.	Done
CONFIRM ID1	The Intelligent Key ID that the key slot receives is not recognized by the first Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the first Intelligent Key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



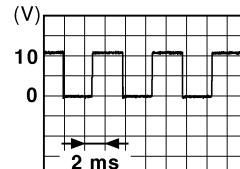
PHYSICAL VALUES

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
2 (GR)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF	Battery voltage
3 (L)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	Battery voltage
4 (P)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)	0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)	Battery voltage
5 (G)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)
					0 V
7 (W)	Ground	Step lamp	Output	Step lamp	ON
					0 V
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)
					0 V
9 (G)	Ground	Driver door UNLOCK	Output	Driver door	UNLOCK (Actuator is activated)
					0 V
10 (P)	Ground	Rear RH door and rear LH door UN- LOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)
					0 V
11 (LG)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON	0 V
14 (O)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF
					ON
15 (L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK and ON indicator lamps are not illuminated.)
					ACC



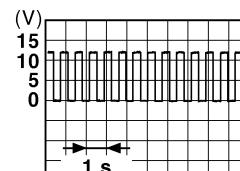
NOTE:
When the illumination brightening/dimming level is in the neutral position

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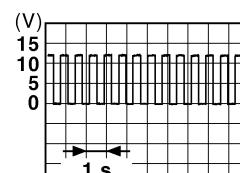
BCM (BODY CONTROL MODULE)

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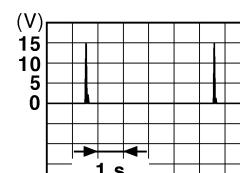
Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	+	-			
17 (G)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF
					Turn signal switch RH
18 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF
					Turn signal switch LH
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF
					ON
23 (BR)	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)
					Other than OPEN (Back door opener actuator is not activated)
26 (G)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)
					ON (Operated)
34 (B)	Ground	Luggage room antenna (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment
					When Intelligent Key is not in the passenger compartment



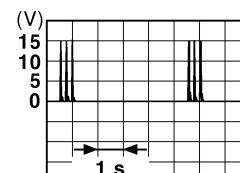
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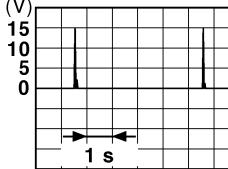
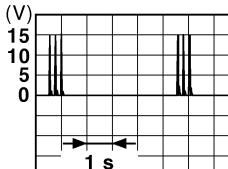
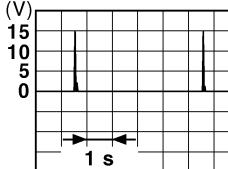
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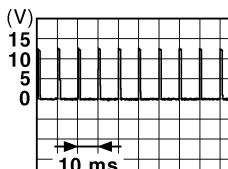
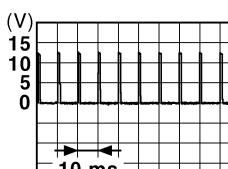
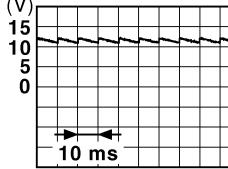
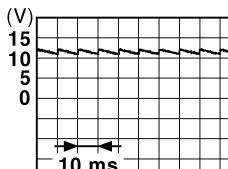
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
35 (W)	Ground	Luggage room antenna (+)	Output Ignition switch OFF	When Intelligent Key is in the passenger compartment
				 JMKA0062GB
38 (L)	Ground	Rear bumper antenna (-)	Output When the back door request switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the passenger compartment
				 JMKA0063GB
39 (BR)	Ground	Rear bumper anten- na (+)	Output When the back door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area
				 JMKA0062GB
47 (L)	Ground	Ignition relay (IPDM E/R) control	Output Ignition switch	OFF or ACC
				Battery voltage
				ON 0 V

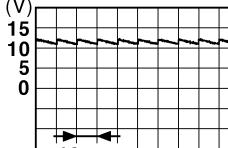
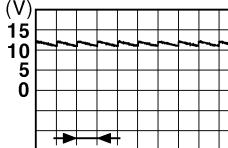
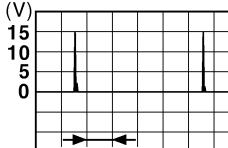
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
52 (R)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	Battery voltage
					When selector lever is not in P or N position	0.3 V
				Ignition switch OFF		0 V
61 (R)	Ground	Back door request switch	Input	Back door re- quest switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <small>JPMIA0016GB</small> 1.0 V
64 (GR)	Ground	Warning buzzer	Output	Warning buzzer	Sounding	0 V
					Not sounding	Battery voltage
65 (O)	Ground	Rear wiper stop posi- tion	Input	Rear wiper	In stop position	 <small>JPMIA0016GB</small> 1.0 V
					Not in stop position	0 V
66 (Y)	Ground	Back door switch	Input	Back door switch	OFF (When back door closes)	 <small>JPMIA0011GB</small> 11.8 V
					ON (When back door opens)	0 V
67 (LG)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 <small>JPMIA0011GB</small> 11.8 V

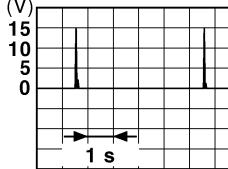
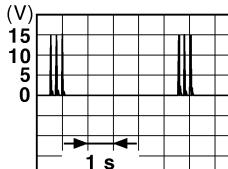
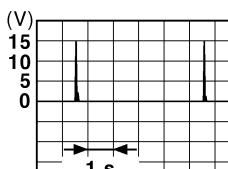
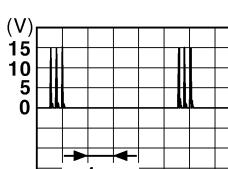
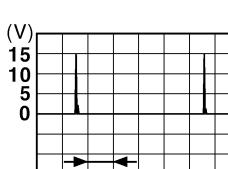
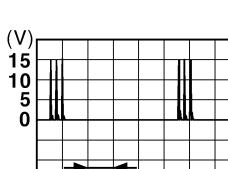
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
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68 (W)	Ground	Rear RH door switch	Input	<p>Rear RH door switch</p> <p>OFF (When rear RH door closes)</p>  <p>JPMIA0011GB</p> <p>11.8 V</p>
69 (R)	Ground	Rear LH door switch	Input	<p>Rear LH door switch</p> <p>OFF (When rear LH door closes)</p>  <p>JPMIA0011GB</p> <p>11.8 V</p>
72 (B)	Ground	Room antenna (-) (Center console)	Output	<p>Ignition switch OFF</p> <p>When Intelligent Key is in the passenger compartment</p>  <p>JMKIA0062GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	+	-	Signal name	Input/ Output		
73 (W)	Ground	Room antenna (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 (V) 15 10 5 0 1 s <small>JMKIA0062GB</small>
					When Intelligent Key is not in the passenger compart- ment	 (V) 15 10 5 0 1 s <small>JMKIA0063GB</small>
74 (Y)	Ground	Passenger door an- tenna (-)	Output	When the pas- senger door re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	 (V) 15 10 5 0 1 s <small>JMKIA0062GB</small>
					When Intelligent Key is not in the antenna detection area	 (V) 15 10 5 0 1 s <small>JMKIA0063GB</small>
75 (LG)	Ground	Passenger door an- tenna (+)	Output	When the pas- senger door re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	 (V) 15 10 5 0 1 s <small>JMKIA0062GB</small>
					When Intelligent Key is not in the antenna detection area	 (V) 15 10 5 0 1 s <small>JMKIA0063GB</small>

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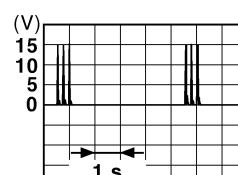
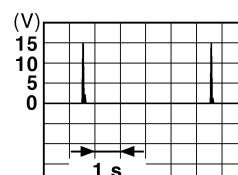
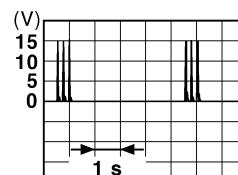
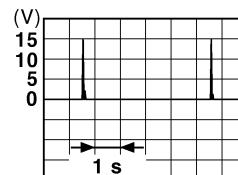
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BCM (BODY CONTROL MODULE)

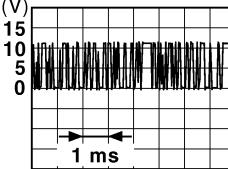
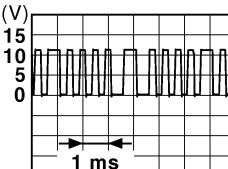
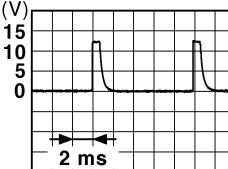
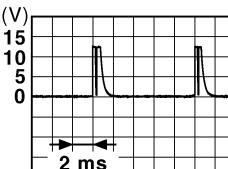
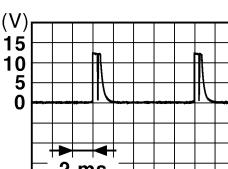
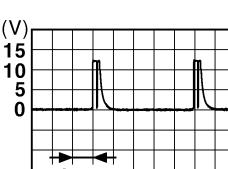
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	Signal name	Input/ Output				
+	-					
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area		
				When the driver door request switch is oper- ated with ignition switch OFF		
77 (P)	Ground	Driver door antenna (+)	Output	When Intelligent Key is not in the antenna detection area		
				When the driver door request switch is oper- ated with ignition switch OFF		
80 (SB)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (O)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (BR)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage



BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	+	-	Signal name	Input/ Output	
83 (P)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting	 (V) 15 10 5 0 1 ms <small>JMKIA0064GB</small>
				When operating either button on Intelligent Key	 (V) 15 10 5 0 1 ms <small>JMKIA0065GB</small>
87 (R)	Ground	Combination switch INPUT 5	Input	All switches OFF (Wiper intermittent dial 4)	 (V) 15 10 5 0 2 ms <small>JPMIA0041GB</small> 1.4 V
				Front fog lamp switch ON (Wiper intermittent dial 4)	 (V) 15 10 5 0 2 ms <small>JPMIA0037GB</small> 1.3 V
				Rear wiper switch ON (Wiper intermittent dial 4)	 (V) 15 10 5 0 2 ms <small>JPMIA0039GB</small> 1.3 V
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	 (V) 15 10 5 0 2 ms <small>JPMIA0040GB</small> 1.3 V

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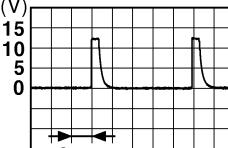
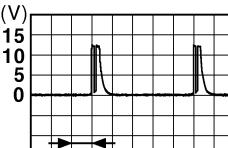
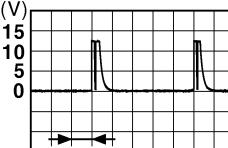
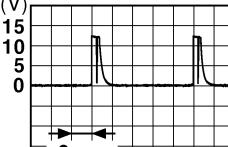
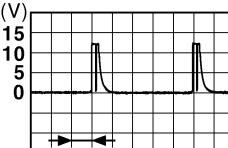
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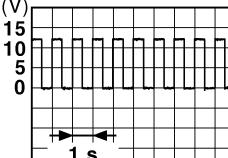
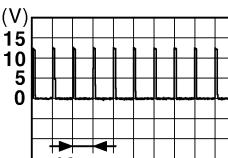
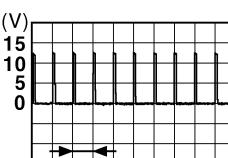
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
88 (GR)	Ground	Combination switch INPUT 3	Input	 All switches OFF (Wiper intermittent dial 4)  Lighting switch HI (Wiper intermittent dial 4)  Lighting switch 2ND (Wiper intermittent dial 4)  Rear washer switch ON (Wiper intermittent dial 4)  Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3
				JPMIA0041GB 1.4 V
				JPMIA0036GB 1.3 V
				JPMIA0037GB 1.3 V
				JPMIA0039GB 1.3 V
89 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button igni- tion switch (push switch) Pressed Not pressed
				0 V
90 (P)	Ground	CAN - L	Input/ Output	—
91 (L)	Ground	CAN - H	Input/ Output	—

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
92 (R)	Ground	Key slot illumination	Output	Key slot illumination	OFF	0 V
					Blinking	 JPMIA0015GB 6.5 V
					ON	Battery voltage
93 (P)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK and ACC indicator lamps are not illuminated.)	Battery voltage
					ON	0 V
95 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (Y)	Ground	CVT shift selector (detention switch) power supply	Output	—		Battery voltage
97* ¹ (O)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98* ¹ (L)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (V)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	Battery voltage
100 (P)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
101 (W)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
102 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
103 (L)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage

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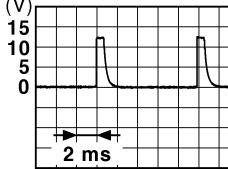
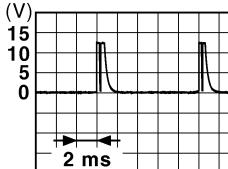
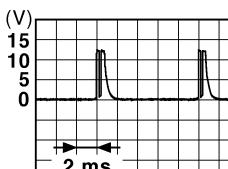
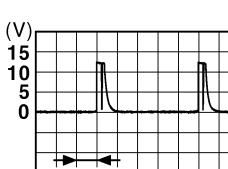
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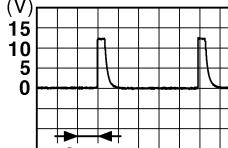
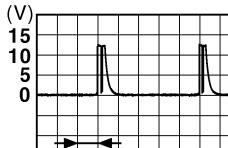
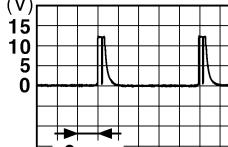
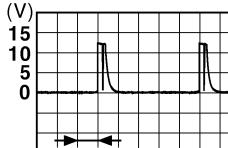
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	+	-				
106*1 (Y)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC ON	Battery voltage 0 V
					All switches OFF	 JPMIA0041GB 1.4 V
					Turn signal switch LH	 JPMIA0037GB 1.3 V
107 (O)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	Turn signal switch RH	 JPMIA0036GB 1.3 V
					Front wiper switch LO	 JPMIA0038GB 1.3 V
					Front washer switch ON	 JPMIA0039GB 1.3 V

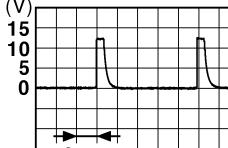
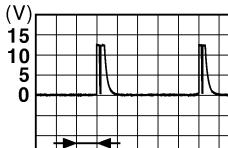
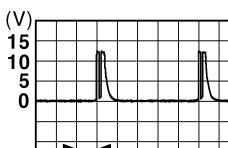
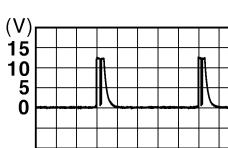
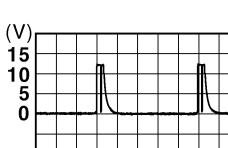
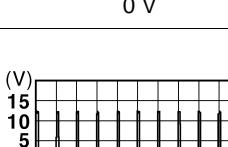
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	Signal name	Input/ Output			
+	-				
108 (P)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)
					 JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)
					 JPMIA0038GB 1.3 V
					Lighting switch 1ST (Wiper intermittent dial 4)
					Rear wiper switch INT (Wiper intermittent dial 4)
					 JPMIA0040GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6
					 JPMIA0039GB 1.3 V

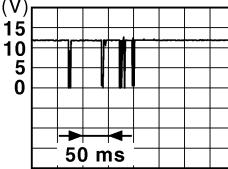
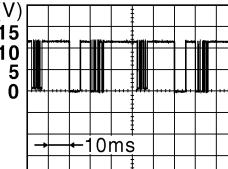
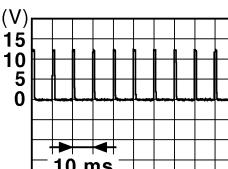
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
109 (SB)	Ground	Combination switch INPUT 2	Combination switch (Wiper intermittent dial 4)	All switches OFF
				 JPMIA0041GB 1.4 V
				 JPMIA0037GB 1.3 V
				 JPMIA0036GB 1.3 V
				 JPMIA0038GB 1.3 V
110 (G)	Ground	Hazard switch	Hazard switch	ON
				 JPMIA0040GB 0 V
				OFF
				 JPMIA0012GB 1.1 V

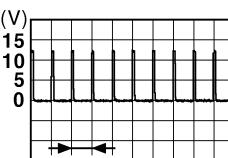
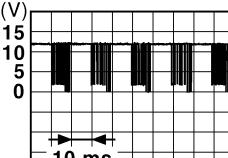
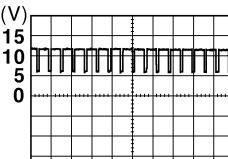
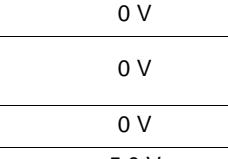
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
111*1 (LG)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	 (V) 15 10 5 0 50 ms <small>JMKIA0066GB</small>
					For 15 seconds after UN-LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		 (V) 15 10 5 0 10ms <small>JPMIA0156GB</small> 8.7 V
113 (O)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
116 (GR)	Ground	Stop lamp switch 1	Input	—		Battery voltage
118 (L)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
119 (W)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (unlock sensor switch OFF)	 (V) 15 10 5 0 10 ms <small>JPMIA0012GB</small> 1.1 V
					UNLOCK status (unlock sensor switch ON)	0 V
121 (Y)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot		Battery voltage
				When Intelligent Key is not inserted into key slot		0 V
123 (G)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage

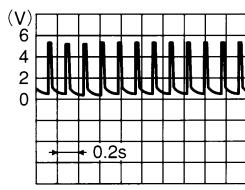
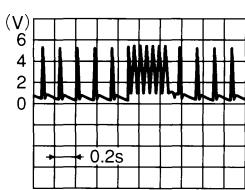
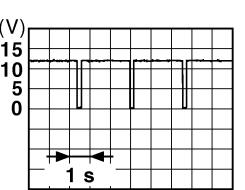
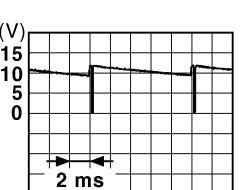
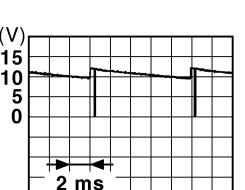
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
124 (R)	Ground	Passenger door switch	Input	 OFF (When passenger door closes) ON (When passenger door opens)
130*2 (BR)	Ground	Rear window defogger switch	Input	 Rear window defogger switch OFF Rear window defogger switch ON
				0 V
132 (G)	Ground	Power window switch communication	Input/ Output	 Ignition switch ON Ignition switch OFF or ACC
133 (W)	Ground	Push-button ignition switch illumination	Output	 ON (When tail lamps OFF) NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
				OFF
134 (R)	Ground	LOCK indicator lamp	Output	 OFF (ACC and ON indicator lamps are not illuminated.) ON
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON
138 (V)	Ground	Receiver and sensor power supply	Output	OFF
				ACC or ON
				5.0 V

BCM (BODY CONTROL MODULE)

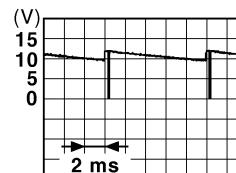
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	+	-				
139 (O)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					When receiving the signal from the transmitter	 OCC3880D
140 (GR)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	Battery voltage
					Except P and N positions	0 V
141 (O)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	Battery voltage
142 (L)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 1ST	
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	 JPMIA0031GB 10.7 V
143 (W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
					Rear wiper switch INT (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	 JPMIA0032GB 10.7 V

BCM (BODY CONTROL MODULE)

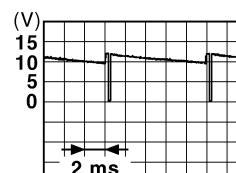
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
+	-			
144 (P)	Ground	Combination switch OUTPUT 2	Output	All switches OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 4) Rear wiper switch ON (Wiper intermittent dial 4) Rear washer switch ON (Wiper intermittent dial 4) Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6
145 (V)	Ground	Combination switch OUTPUT 3	Output	All switches OFF Front wiper switch INT/AUTO Front wiper switch LO Lighting switch AUTO
146 (Y)	Ground	Combination switch OUTPUT 4	Output	All switches OFF Front fog lamp switch ON Lighting switch 2ND Lighting switch PASS Turn signal switch LH
149 (W)	Ground	Tire pressure warning check switch	Input	Ignition switch ON
150 (SB)	Ground	Driver door switch	Input	OFF (When driver door closes)
				ON (When driver door opens)



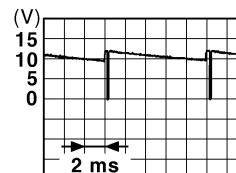
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10.7 V



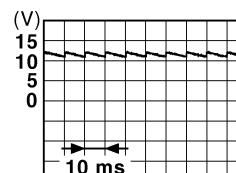
JPMIA0034GB

10.7 V



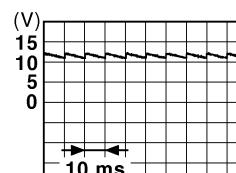
JPMIA0035GB

10.7 V



JPMIA0011GB

11.8 V



JPMIA0011GB

11.8 V

0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	Signal name	Input/ Output				
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window de- fogger	Active Not activated	0 V Battery voltage

NOTE:

- *1: With steering lock unit
- *2: Without BOSE audio system

A

B

C

D

E

F

G

H

I

J

K

INL

M

N

O

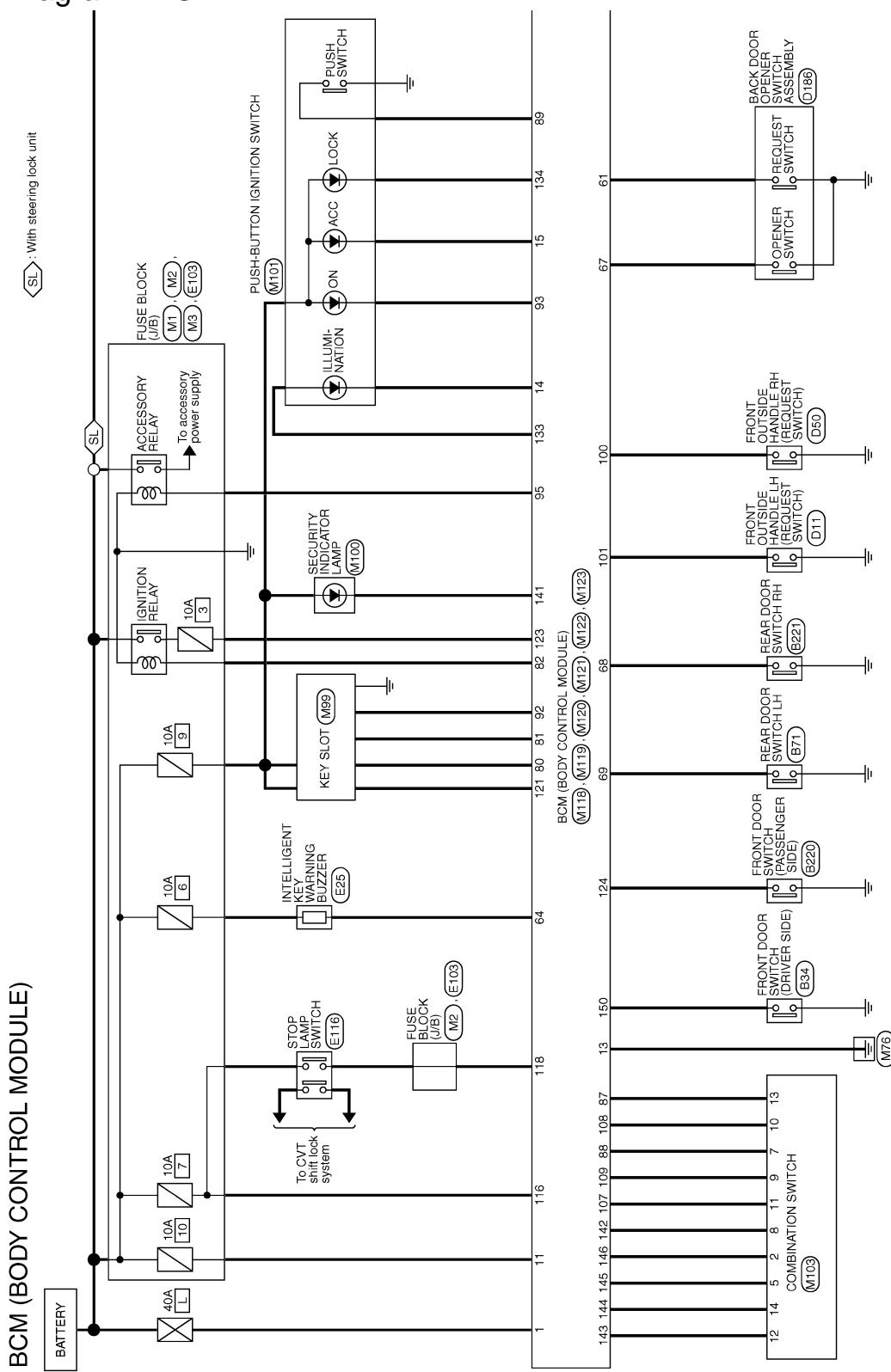
P

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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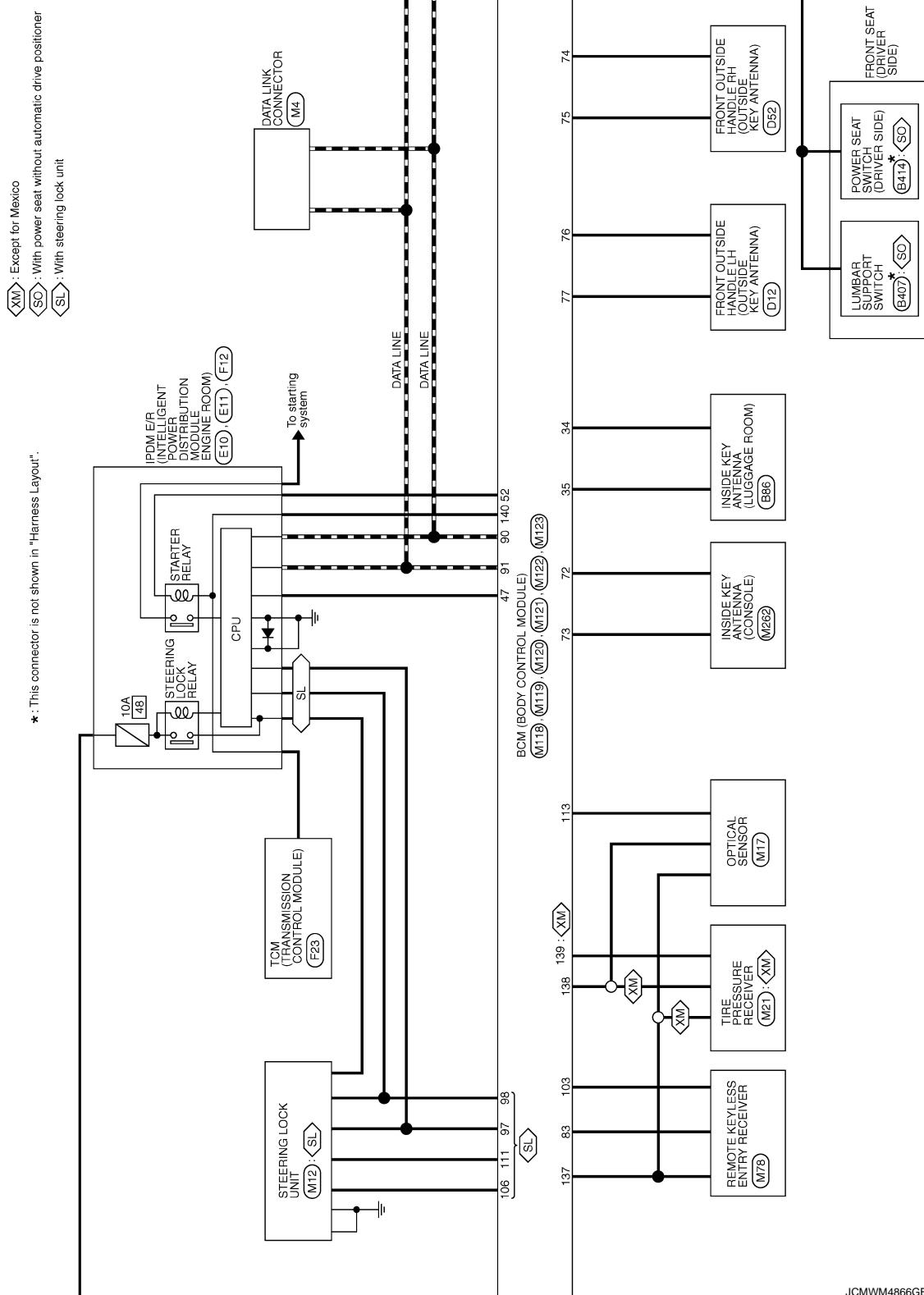


2009/08/07

JCMWM4865GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

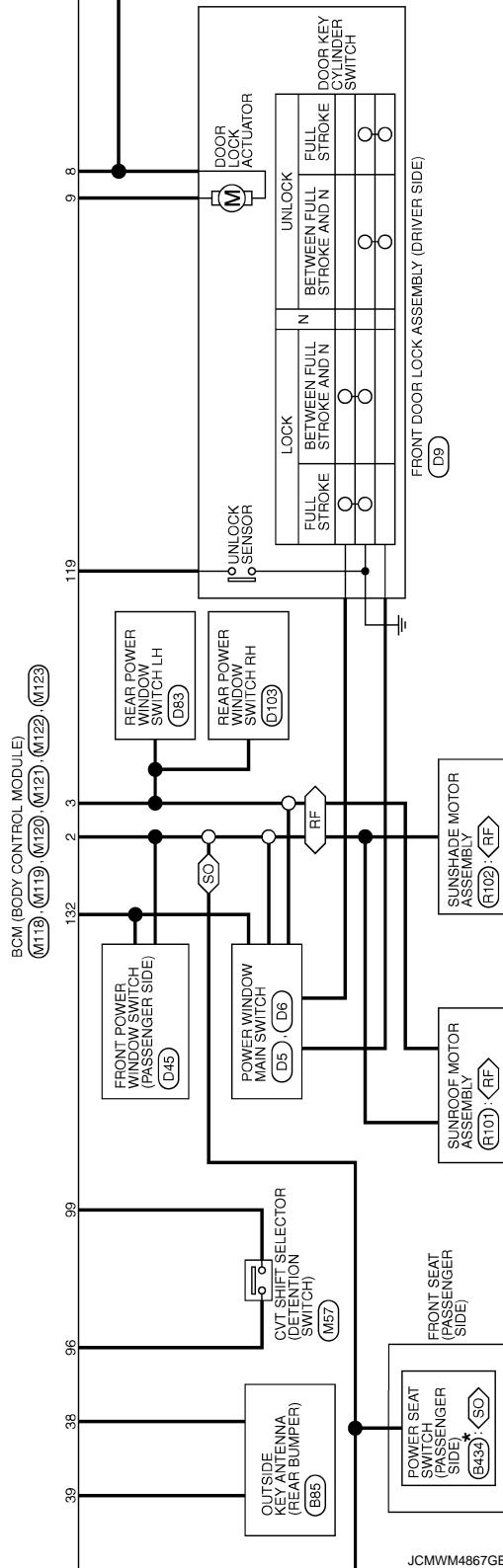
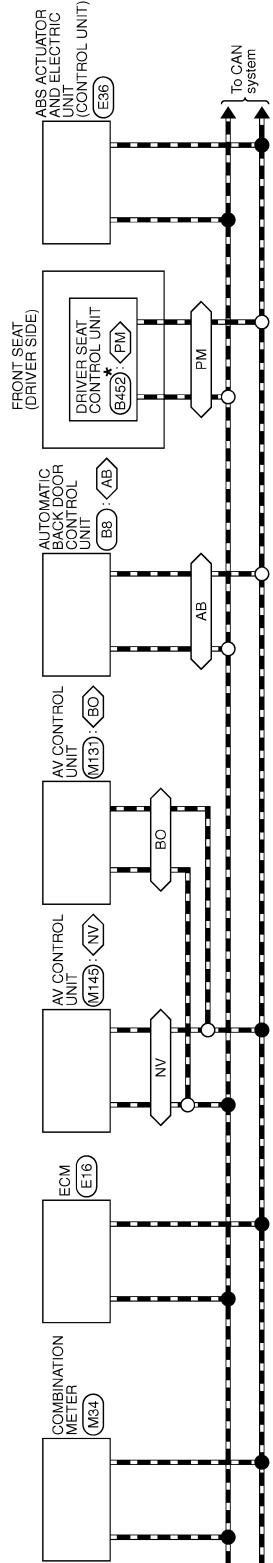


JCMWM4866GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

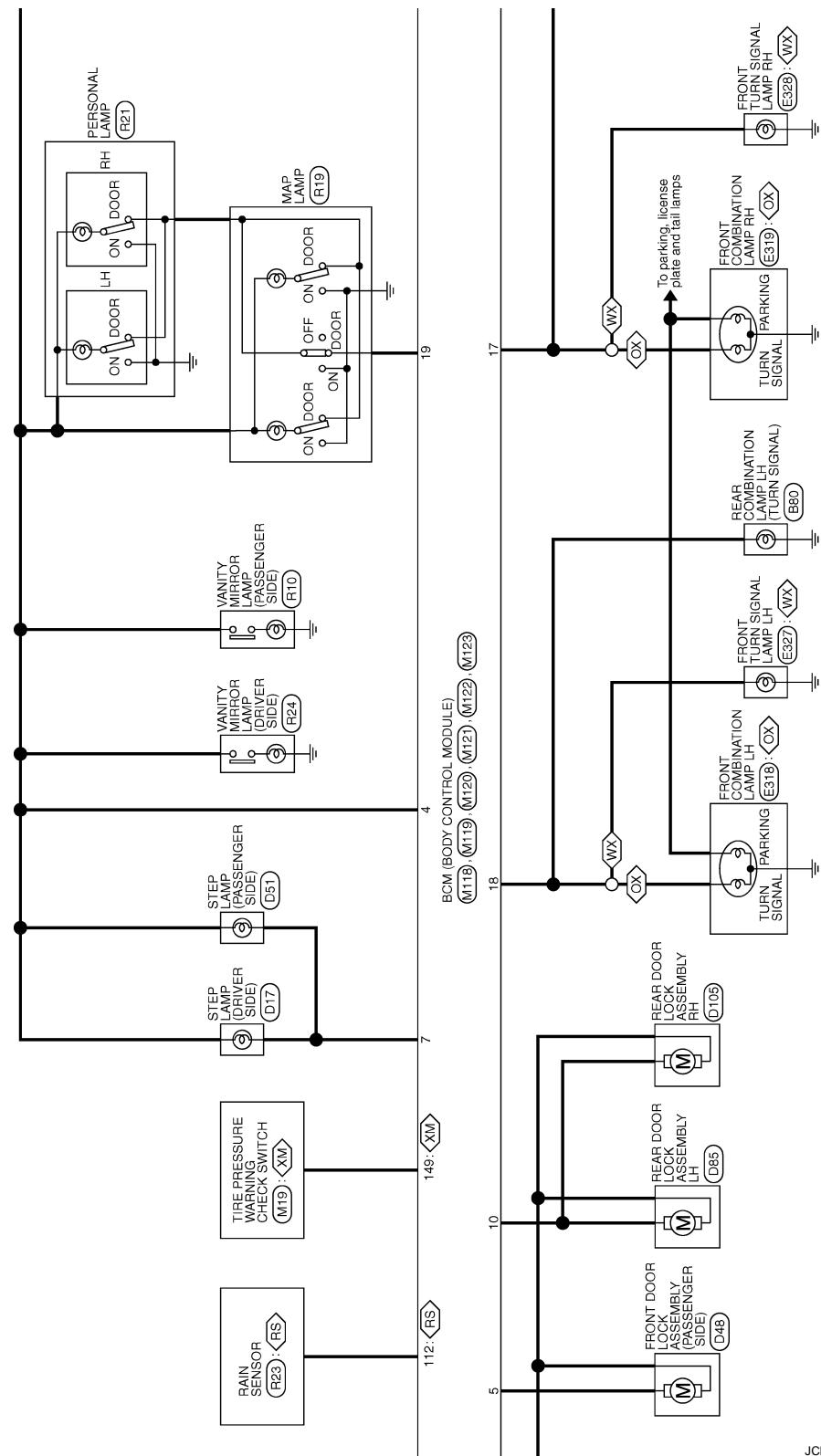
- : With navigation system
 - : With BOSE system without navigation system
 - : With sunroof
 - : With automatic drive positioner
 - : With power seat without automatic drive positioner
 - : With automatic back door
- * : This connector is not shown in "Harness Layout".



BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

- : Except for Mexico
- : With rain sensor
- : With xenon headlamp
- : Without xenon headlamp

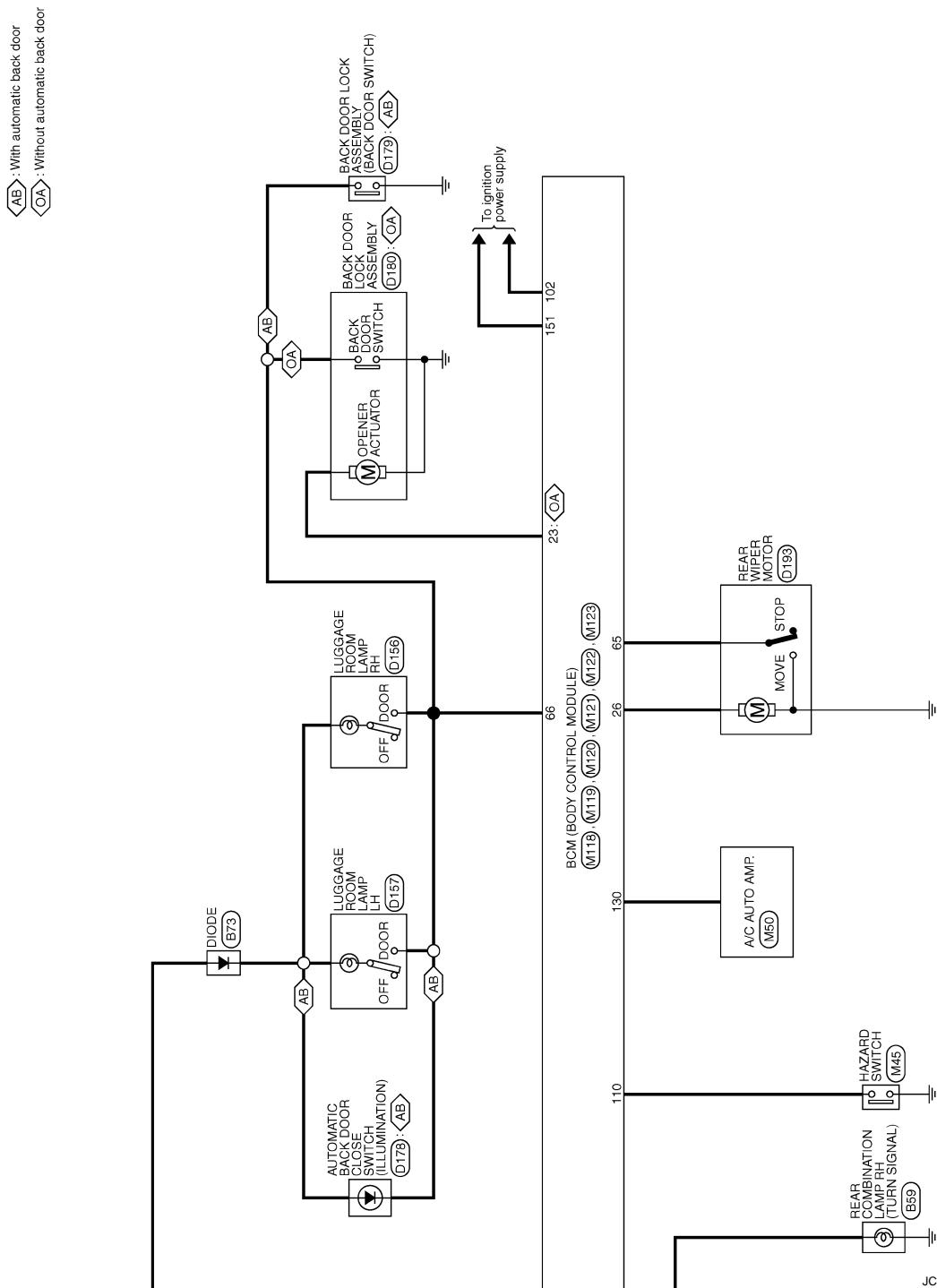


JCMWMM4868GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JCMWMM4869GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	B6
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	TH20DFW-1B6

Terminal Color No. Signal Name [Specification]

1	BR	BUZZER
2	Y	ABD SW
4	Y	AED CLOSE SW
6	L	CAN HI
7	P	CAN LOW
8	LG	HALF LATCH SW
9	GR	IGN
10	SB	BAT
11	V	CLOSURE MTR (CLOSE)
12	R	CLOSURE MTR (OPEN)
14	V	TOUCH SENS LH
15	O	TOUCH SENS GRID
16	W	TOUCH SENS RH
17	LG	MAIN SW
19	P	CLOSE SW
20	L	OPEN SW
21	B	GND
22	B	GND
23	GR	ENCODER B
24	BR	ENCODER A
25	Y	ENCODER PWR
26	G	

Connector No.	B59
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04MW-CS

Terminal Color No. Signal Name [Specification]

1	LG	-[With rear view camera]
1	BY	-[Without rear view camera]
2	BR	-
3	P	-
4	L	-

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	AG3FW

Terminal Color No. Signal Name [Specification]

2	BR	-
1	BR	OUTSIDE KEY ANTENNA (REAR BUMPER)
2	BR	RK02GY
3	BR	

Connector No.	B36
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02GY

Terminal Color No. Signal Name [Specification]

1	W	-
2	W	-

Connector No.	B220
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)

Terminal Color No. Signal Name [Specification]

1	W	-
2	B	-

Connector No.	B73
Connector Name	DIODE
Connector Type	243S5 C3902

Terminal Color No. Signal Name [Specification]

1	W	-
2	W	-

Connector No.	B85
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	AG3FW

Terminal Color No. Signal Name [Specification]

1	W	-
2	W	-

A B C D E F G H I J K L M N O P Q R S T Z

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.		Signal Name [Specification]		Terminal No.		Signal Name [Specification]		Terminal No.		Signal Name [Specification]		Terminal No.		Signal Name [Specification]		Terminal No.		Signal Name [Specification]	
Connector No.	B221	REAR DOOR SWITCH R/H	-	2	B	-	-	16	Y/R	-	-	1	G	-	-	17	LG/B	-	
Connector Name				3	G	-	-	17	LG/B	-	-	2	G/R	-	-	18	LG/R	-	
Connector Type	AS3FW			4	G/R	-	-	19	G/Y	-	-	3	Y	-	-	20	R/Y	-	
				5	V	-	-	21	L/Y	-	-					22	BR/Y	-	
				6	R/L	-	-	23	P	-	-					24	P/L	-	
				7	L	-	-	25	G/O	-	-					26	L/O	-	
				8	L/W	-	-	27	V	-	-					28	V/W	-	
				9	L/R	-	-	29	O/L	-	-					30	BR	-	
				10	L/B	-	-	31	BR/W	-	-					32	W/L	-	
								33	W	-	-								
Connector No.	B234																		
Connector Name		POWER SEAT SWITCH (PASSENGER SIDE)																	
Connector Type	NS10FW-CS																		
Connector No.	B407																		
Connector Name		LUMBAR SUPPORT SWITCH																	
Connector Type	NS50FER-CS																		
Connector No.	B414																		
Connector Name		POWER SEAT SWITCH (DRIVER SIDE)																	
Connector Type	NS1DFW-CS																		

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	D50	Connector No.	D83
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)	Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS16FW-CS	Connector Type	NS38FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-	1	O	-
2	G	-	2	B	-
3	V	-	3	S	-
4	R	-	4	LG	-
8	L	-	5	L	-
9	G	-			
10	P	-			
11	B	-			
12	Y	-			
15	G	-			
16	O	-			



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
3	V	-	1	O	-
4	R	-	2	B	-
8	L	-	3	S	-
9	G	-	4	LG	-
10	P	-	5	L	-
11	B	-			
12	Y	-			
15	G	-			
16	O	-			



Connector No.	D50	Connector No.	D55
Connector Name	STEP LAMP (PASSENGER SIDE)	Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	CD2FW	Connector Type	CD2FW



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



Connector No.	D48	Connector No.	D52
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)	Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	ED0FY-RS	Connector Type	ED0FY-RS



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



Connector No.	D17	Connector No.	D56
Connector Name	STEP LAMP (DRIVER SIDE)	Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	CD2FW	Connector Type	ED0FY-RS



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
5	V	-	1	LG	-
6	G	-	2	W	-



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

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

JCMWM4872GB

A B C D E F G H I J K L M N O P Q R S T U V Z

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

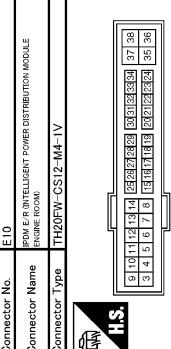
Connector No.		Signal Name [Specification]		Terminal No.		Color of Wire		Signal Name [Specification]		Terminal No.		Color of Wire		Signal Name [Specification]	
Connector No.	D103			2	W			1	R			1	W		
Connector Name	REAR POWER WINDOW SWITCH RH			4	LG			2	V			2	B		
Connector Type	NS08FW-CS							4	G			3	B		
								5	L			4	V		
								6	W						
Connector No.	D157							7	LG						
Connector Name	LUIGGAGE ROOM LAMP LH							8	B						
Connector Type	CJ04FW														
Connector No.	D179														
Connector Name	BACK DOORLOCK ASSEMBLY (WITH AUTOMATIC BACK DOOR)														
Connector Type	NS08FW-CS														
Connector No.	D186														
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY														
Connector Type	TH04FW-NH														
Connector No.	D178														
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH														
Connector Type	TK08FGY														
Connector No.	D180														
Connector Name	BACK DOORLOCK ASSEMBLY (WITHOUT AUTOMATIC BACK DOOR)														
Connector Type	NS08FW-CS														
Connector No.	D193														
Connector Name	REAR WIPER MOTOR														
Connector Type	CJ04FW-1V														
Connector No.	D156														
Connector Name	LUIGGAGE ROOM LAMP RH														
Connector Type	CJ04FW														

JCMWM4873GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)



Connector No.	E11	Power & R INTELLIGENT POWER DISTRIBUTION MODULE
Connector Name	POWER & R INTELLIGENT POWER DISTRIBUTION MODULE	Engine Room
Connector Type	TH20DFW-CS12-M4-IV	TH08FW-NH
Terminal No.	97	P
	98	L
	100	G
	102	R
	104	SB
	105	Y
	106	SB
	107	B
	108	B
	109	W
	110	G
	111	B
	112	B
	113	GND
	114	IGN
	115	CANL
	121	P
	122	Y
	123	L
	125	W
	126	B/W

Connector No.	E103	FUSE BLOCK (J/B)
Connector Name	H.S.	H.S.
Connector Type	NS16FW-CS	NS16FW-CS
Terminal No.	1	1
	2	2
	3	3

Connector No.	E103	FUSE BLOCK (J/B)
Connector Name	H.S.	H.S.
Connector Type	NS16FW-CS	NS16FW-CS
Terminal No.	7F	7F
	6F	6F
	5F	5F
	4F	4F
	3F	3F
	2F	2F
	1F	1F
	LG	LG
	BR	BR
	Y	Y
	W	W
	1F	1F
	2F	2F
	3F	3F
	4F	4F
	5F	5F
	6F	6F
	7F	7F
	8F	8F
	9F	9F
	10F	10F
	11F	11F
	12F	12F
	13F	13F
	14F	14F
	15F	15F
	16F	16F
	17F	17F
	18F	18F
	19F	19F
	20F	20F

Connector No.	E225	INTELLIGENT KEY WARNING BUZZER
Connector Name	H.S.	H.S.
Connector Type	RK03FB	RK03FB
Terminal No.	1	1
	2	2
	3	3

Connector No.	E16	ECM
Connector Name	RH24FB-FZ25-L-LH	RH24FB-FZ25-L-LH
Connector Type		
Terminal No.	81	APSL
	82	APSL
	83	AVCC2-FTPRES
	84	AVCC1-APS1
	85	GND-A-APS1
	86	ASCD SW
	87	FTPRES
	88	AVCC2-APS2
	89	KLINE
	90	AVCC2-FTPRES
	91	GND-A-APS2
	92	AVCC1-APS1
	93	ASCD SW
	94	FTPRES
	95	TACHOGEN
	96	GND-A-FTPRES

JCMWMM4874GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

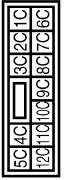
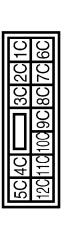
BCM (BODY CONTROL MODULE)			
Connector No.	Signal Name [Specification]	Terminal No.	Color of Wire
E116	-	1 R	-
Connector Name	STOP LAMP SWITCH	2 B	-
Connector Type	MD45W-LC	3 G	-
Connector No.	F12	6 O	K-LINE
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE PHONE IC	7 W	SENSOR GND
Connector Type	TH20W-CS12-M4	8 G/W	CLOCK SEL2
Connector No.	E127	9 L/R	CHE SELECT (SEL1)
Connector Name	FRONT TURN SIGNAL LAMP LH	10 B/R	DATA I/O (SEL3)
Connector Type	RS20FGY	11 B/R	INH SW_L
Terminal No.	Color of Wire	13 V	ATF TEMP SENSOR
Signal Name [Specification]	-	14 R/W	PRI PRESS SENSOR
Connector No.	E527	15 V/W	SEC PRESS SENSOR
Connector Name	FRONT TURN SIGNAL LAMP RH	16 G/B	REV AMP RELAY
Connector Type	RS20FGY	17 R/B	STRAUTER RELAY
Terminal No.	Color of Wire	25 W/R	Sensor GND
Signal Name [Specification]	-	26 L/O	SENSOR POWER SOURCE(5V)
Connector No.	E518	27 R/G	SAM-D
Connector Name	FRONT COMBINATION LAMP LH	28 R	SAM-C
Connector Type	Z03FBR	29 O/B	SAM-B
Terminal No.	Color of Wire	30 G/R	SAM-A
Signal Name [Specification]	-	31 P	CAN-L
Connector No.	E528	32 L	CAN-H
Connector Name	FRONT TURN SIGNAL LAMP RH	33 LG	PRI SPEED SENSOR
Connector Type	RS20FGY	34 L/G	SEC SPEED SENSOR
Terminal No.	Color of Wire	35 R/Y	L/USB-SEL-ON/OFF SOL
Signal Name [Specification]	-	36 O	L/USB LINEAR SOL
Connector No.	E519	37 Y	SE-C LINEAR SOL
Connector Name	FRONT COMBINATION LAMP RH	38 W/B	PL LINEAR SOL
Connector Type	Z03FBR	39 B	-
Terminal No.	Color of Wire	40 R/Y	-
Signal Name [Specification]	-	41 O	GND
Connector No.	E23	42 G	-
Connector Name	TCM (TRANSMISSION CONTROL MODULE)	43 Y	VIGN
Connector Type	RH40FB-RZ8-L-RH	44 R/R	BATT
Terminal No.	Color of Wire	45 B	VIGN
Signal Name [Specification]	-	46 Y	-
Connector No.	F23	47 R/R	-
Connector Name	-	48 Y	-
Connector Type	-	49 B	-
Terminal No.	Color of Wire	50 P/B	INH SW 2
Signal Name [Specification]	-	51 P/L	INH SW 3
Connector No.	E519	52 G/O	INH SW 4
Connector Name	FRONT COMBINATION LAMP RH	53 GR	INH SW 3 MON
Connector Type	Z03FBR	54 B	GND

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

<table border="1"> <thead> <tr> <th>Connector No.</th> <th>M1</th> </tr> </thead> <tbody> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NSD0FW-M2</td> </tr> </tbody> </table>  	Connector No.	M1	Connector Name	FUSE BLOCK (J/B)	Connector Type	NSD0FW-M2	<table border="1"> <thead> <tr> <th>Connector No.</th> <th>M3</th> </tr> </thead> <tbody> <tr> <td>Connector Name</td> <td>FUSE BLOCK (J/B)</td> </tr> <tr> <td>Connector Type</td> <td>NS12FW-CS</td> </tr> </tbody> </table>  	Connector No.	M3	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS12FW-CS	<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>IA</td> <td>Y</td> <td>-</td> </tr> <tr> <td>2A</td> <td>G</td> <td>-</td> </tr> <tr> <td>3A</td> <td>Y</td> <td>-</td> </tr> <tr> <td>4A</td> <td>GR</td> <td>-</td> </tr> <tr> <td>5A</td> <td>R</td> <td>-</td> </tr> <tr> <td>6A</td> <td>W</td> <td>-</td> </tr> <tr> <td>7A</td> <td>LG</td> <td>-</td> </tr> <tr> <td>8A</td> <td>Y</td> <td>-</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	IA	Y	-	2A	G	-	3A	Y	-	4A	GR	-	5A	R	-	6A	W	-	7A	LG	-	8A	Y	-						
Connector No.	M1																																														
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7A	LG	-																																													
8A	Y	-																																													
<table border="1"> <thead> <tr> <th>Connector No.</th> <th>M12</th> </tr> </thead> <tbody> <tr> <td>Connector Name</td> <td>STEERING LOCK UNIT</td> </tr> <tr> <td>Connector Type</td> <td>TH03FW-NH</td> </tr> </tbody> </table>  	Connector No.	M12	Connector Name	STEERING LOCK UNIT	Connector Type	TH03FW-NH	<table border="1"> <thead> <tr> <th>Connector No.</th> <th>M19</th> </tr> </thead> <tbody> <tr> <td>Connector Name</td> <td>TIRE PRESSURE WARNING CHECK SWITCH</td> </tr> <tr> <td>Connector Type</td> <td>TK02FW</td> </tr> </tbody> </table>  	Connector No.	M19	Connector Name	TIRE PRESSURE WARNING CHECK SWITCH	Connector Type	TK02FW	<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>W</td> <td>S/L 12V MECHANICAL(Y1)</td> </tr> <tr> <td>2</td> <td>LG</td> <td>S/L COM</td> </tr> <tr> <td>3</td> <td>O</td> <td>S/L CONDITION 1</td> </tr> <tr> <td>4</td> <td>B</td> <td>GND 1</td> </tr> <tr> <td>5</td> <td>B</td> <td>GND 2</td> </tr> <tr> <td>6</td> <td>B</td> <td>GND 2</td> </tr> <tr> <td>7</td> <td>Y</td> <td>S/L 12V CPU(Y2)</td> </tr> <tr> <td>8</td> <td>L</td> <td>S/L CONDITION 2</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	W	S/L 12V MECHANICAL(Y1)	2	LG	S/L COM	3	O	S/L CONDITION 1	4	B	GND 1	5	B	GND 2	6	B	GND 2	7	Y	S/L 12V CPU(Y2)	8	L	S/L CONDITION 2						
Connector No.	M12																																														
Connector Name	STEERING LOCK UNIT																																														
Connector Type	TH03FW-NH																																														
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8	L	S/L CONDITION 2																																													
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	Connector Name	Connector Type	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
M34	COMBINATION METER	TH40FW-NH	1	Y	BAT	39	B	GND(POWER)
			2	O	IGN	40	Y	BAT
			3	B	GROUND			
			4	B	GROUND			
			5	SB	ILLUMINATION CONTROL			
			8	SB	TRIP RESET SWITCH	1	GR	BAT
			9	W	SHILL POWER	2	SG	CLOCK
			10	O	METER CONTROL SW GND	3	O	DATA
			11	L	ENTER SWITCH	5	GR	ILL BAT
			12	R	SELECT SWITCH	6	R	LL
			13	V	ILLUMINATION CONTROL SWITCH (SWITCH ACTUATOR, AUTO ON/OFF, PROTECTION)	7	B	GND
			14	GR	ILLUMINATION CONTROL SWITCH (-)	11	Y	KEY SWITCH SIGNAL
			15	BR	AIR BAG			
			18	L	AMBIENT SENSOR			
			19	P	AMBIENT SENSOR POWER			
			20	Y	AMBIENT SENSOR GROUND			
			21	L	CAN-H			
			22	P	CAN-L			
			23	B	GROUND			
			24	W	FUEL LEVEL SENSOR GROUND	1	GR	CAN-H
			25	BR	CRG	2	P	CAN-L
			26	G	PARKING BRAKE SWITCH	6	L	TX(AMP>SWD(SIP))
			27	V	BRAKE FLUID LEVEL SWITCH	7	P	RX(SWAMP)
			28	R	WASHER LEVEL SWITCH	10	L	LAN SIG
			30	P	VEHICLE SPEED (Z-PULSE)	11	R	VACTR
			31	V	VEHICLE SPEED (Z-PULSE)	15	O	SUN SENS
			32	LG	OD OFF/SPORTS	16	G	INTAKE SENS
			34	G	FUEL LEVEL SENSOR	17	R	ACC
			35	SB	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	19	B	GND
			36	R	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)	20	G	IGN
			26	GR	RR DEF F/B			
			27	BR	RR DEF ON			
			32	L	FAN PWM			
			34	P	AMB POWER			
			35	L	AMB SENS			
			36	LG	INCAR SENS			
			37	Y	SENS GND			

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No. M101

Connector Name PUSH-BUTTON IGNITION SWITCH

Connector Type TH04FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	O	BAT (FL)
3	W	-
4	BR	POWER WINDOW POWER SUPPLY (BAT)
5	R	-
6	L	-
7	P	-
8	GR	POWER WINDOW POWER SUPPLY (RAP)

Connector No. M118

Connector Name BCM (BODY CONTROL MODULE)

Connector Type MD3FB-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (FL)
2	QR	POWER WINDOW POWER SUPPLY (BAT)
3	L	POWER WINDOW POWER SUPPLY (RAP)
4	BR	-
5	R	-
6	L	-
7	P	-
8	GR	-

Connector No. M119

Connector Name BCM (BODY CONTROL MODULE)

Connector Type NS16FW-CS

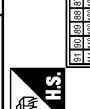


Terminal No.	Color of Wire	Signal Name [Specification]
4	5	6
5	6	7
6	7	8
7	8	9
8	9	10
9	10	11
10	11	12
11	12	13
12	13	14
13	14	15
14	15	16
15	16	17
16	17	18
17	18	19

Connector No. M120

Connector Name BCM (BODY CONTROL MODULE)

Connector Type NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
23	BR	BACK DOOR OPEN OUTPUT
26	G	REAR WIPER OUTPUT
27	BR	-
28	G	-
29	BR	-
30	G	-
31	BR	-

Connector No. M121

Connector Name BCM (BODY CONTROL MODULE)

Connector Type TH04GY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	IGN RELAY PDME/R CONT
2	BR	STARTER RELAY CONT
3	W	ALL DOOR FUEL LID UNLOCK OUTPUT
4	GR	DRIVER DOOR FUEL LID UNLOCK OUTPUT
5	W	REAR DOOR FUEL LID UNLOCK OUTPUT
6	GR	FRONT DOOR FUEL LID UNLOCK OUTPUT
7	BR	REAR DOOR OPEN REQUEST SW
8	W	FRONT DOOR OPEN REQUEST SW
9	GR	FRONT DOOR OPEN REQUEST SW
10	W	FRONT DOOR OPEN REQUEST SW
11	GR	FRONT DOOR OPEN REQUEST SW
12	W	FRONT DOOR OPEN REQUEST SW
13	GR	FRONT DOOR OPEN REQUEST SW
14	W	FRONT DOOR OPEN REQUEST SW
15	GR	FRONT DOOR OPEN REQUEST SW
16	W	FRONT DOOR OPEN REQUEST SW
17	GR	FRONT DOOR OPEN REQUEST SW
18	W	FRONT DOOR OPEN REQUEST SW
19	GR	FRONT DOOR OPEN REQUEST SW

Connector No. M122

Connector Name BCM (BODY CONTROL MODULE)

Connector Type TH04FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	KEYLESS ENTRY RECEIVER POWER SUPPLY
2	BR	S/L POWER SUPPLY
3	W	COMBI SW INPUT 1
4	GR	COMBI SW INPUT 2
5	W	COMBI SW INPUT 3
6	GR	COMBI SW INPUT 4
7	BR	COMBI SW INPUT 5
8	GR	COMBI SW INPUT 6
9	BR	COMBI SW INPUT 7
10	GR	COMBI SW INPUT 8
11	BR	COMBI SW INPUT 9
12	GR	COMBI SW INPUT 10
13	BR	COMBI SW INPUT 11
14	GR	COMBI SW INPUT 12
15	BR	COMBI SW INPUT 13
16	GR	COMBI SW INPUT 14
17	BR	COMBI SW INPUT 15
18	GR	COMBI SW INPUT 16
19	BR	COMBI SW INPUT 17
20	GR	COMBI SW INPUT 18
21	BR	COMBI SW INPUT 19
22	GR	COMBI SW INPUT 20
23	BR	COMBI SW INPUT 21
24	GR	COMBI SW INPUT 22
25	BR	COMBI SW INPUT 23
26	GR	COMBI SW INPUT 24
27	BR	COMBI SW INPUT 25
28	GR	COMBI SW INPUT 26
29	BR	COMBI SW INPUT 27
30	GR	COMBI SW INPUT 28
31	BR	COMBI SW INPUT 29
32	GR	COMBI SW INPUT 30

BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)			
Connector No.	M123	Connector No.	M145
Connector Name	BCM(BODY CONTROL MODULE)	Connector Name	AV CONTROL UNIT (WITHOUT NAVIGATION SYSTEM)
Connector Type	TH40FG-NH	Connector Type	TH40FW-NH
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
12	R	RAIN SENSOR SERIAL LINK	GND
13	O	OPTICAL SENSOR	TEL VOICE SIGNAL (-)
16	GR	FUSE CHECK	TEL VOICE SIGNAL (+)
18	L	STOP LAMP SW	SHIELD
19	W	DR DOOR UNLOCK SENSOR	SOUND SIGNAL RH (-) (With DVD player)
21	Y	KEY SLOT SW	iPod SOUND SIGNAL RH (-) (Without DVD player)
23	G	IGN FB	iPod SOUND SIGNAL RH (+) (Without DVD player)
24	R	PASSENGER DOOR SW	GND
30	BR	REAR DEFOGGER SW COMM	CAN-H
32	G	POWER WINDOW SW COMM	CAN-L
33	W	PUSH-BUTTON IGNITION SW/LI POWER	R
34	R	LOOK AND	AV COMM (L)
37	P	RECEIVER/SENSOR GND	AV COMM (R)
38	V	RECEIVER/SENSOR POWER SUPPLY	AV COMM (L)
39	O	TIRE PRESS RECEIVER SIGNAL	AUX SOUND SIGNAL RH (-)
40	GR	SHIFT MUP	AUX SOUND SIGNAL LH (-)
41	O	SECURITY INDICATOR OUTPUT	AUX SOUND SIGNAL GND
42	L	COMBI SW OUTPUT 5	SW GND
43	W	COMBI SW OUTPUT 1	COMBI SW OUTPUT 1
44	P	COMBI SW OUTPUT 2	COMBI SW OUTPUT 2
45	V	COMBI SW OUTPUT 3	COMBI SW OUTPUT 3
46	Y	COMBI SW OUTPUT 4	COMBI SW OUTPUT 4
49	W	TIRE PRESS WARNING CHECK SW	SW GND
50	SB	DRIVER DOOR SW	EFFECT SIGNAL
51	G	REAR WINDOW DEFROGER RELAY	IGNITION
103	V	REVERSE	REVERSE
104	G	PARKING BRAKE	PARKING BRAKE
106	G	VEHICLE SPEED (8-PULSE)	VEHICLE SPEED (8-PULSE)
107	V		

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BCM (BODY CONTROL MODULE)

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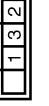
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BCM (BODY CONTROL MODULE)		
Connector No.	R21	-
Connector Name	PERSONAL LAMP	-
Connector Type	TH04FW-NH	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
1	P/W	-
2	B	-
3	SB	-

R21		
Terminal No.	Color of Wire	Signal Name [Specification]
1	P/W	-
2	B	-
3	SB	-

SUNROOF MOTOR ASSEMBLY		
Connector No.	R101	-
Connector Name	SUNROOF MOTOR ASSEMBLY	-
Connector Type	YE10FGY	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	O	GND
3	L	IGN
4	Y	PUSH SW
5	G	OPEN SW
6	R	BAT
7	P	COMM
8	BR	SPEED(DP)
9	W	2ND SW
10	V	CLOSE SW

SUNSHADE MOTOR ASSEMBLY		
Connector No.	R102	-
Connector Name	SUNSHADE MOTOR ASSEMBLY	-
Connector Type	YE10FGY	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
1	2	3
2	7	8
3	9	10

VANITY MIRROR LAMP (DRIVER SIDE)		
Connector No.	R24	-
Connector Name	VANITY MIRROR LAMP (DRIVER SIDE)	-
Connector Type	MC02FW	-
		
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	G	BAT
3	P	COMM
4	BR	SPEED(DP)

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Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Power position: IGN • Selector lever P/N position signal: Except P and N positions (0 V) • Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

BCM (BODY CONTROL MODULE)

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Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When the following steering lock conditions agree <ul style="list-style-type: none"> • BCM steering lock control status • Steering lock condition No. 1 signal status • Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Steering lock unit status signal (CAN) is received normally • The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled <ul style="list-style-type: none"> • Steering condition No. 1 signal: LOCK (0V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF ⇒ ON and front wiper switch is INT/AUTO position, BCM operates a fail-safe control.

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

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

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stop.

BCM (BODY CONTROL MODULE)

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2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none">• U1000: CAN COMM• U1010: CONTROL UNIT(CAN)
3	<ul style="list-style-type: none">• B2190: NATS ANTENNA AMP• B2191: DIFFERENCE OF KEY• B2192: ID DISCORD BCM-ECM• B2193: CHAIN OF BCM-ECM• B2195: ANTI SCANNING
4	<ul style="list-style-type: none">• B2013: ID DISCORD BCM-S/L• B2014: CHAIN OF S/L-BCM• B2553: IGNITION RELAY• B2555: STOP LAMP• B2556: PUSH-BTN IGN SW• B2557: VEHICLE SPEED• B2560: STARTER CONT RELAY• B2601: SHIFT POSITION• B2602: SHIFT POSITION• B2603: SHIFT POSI STATUS• B2604: PNP SW• B2605: PNP SW• B2606: S/L RELAY• B2607: S/L RELAY• B2608: STARTER RELAY• B2609: S/L STATUS• B260A: IGNITION RELAY• B260B: STEERING LOCK UNIT• B260C: STEERING LOCK UNIT• B260D: STEERING LOCK UNIT• B260F: ENG STATE SIG LOST• B2612: S/L STATUS• B2614: ACC RELAY CIRC• B2615: BLOWER RELAY CIRC• B2616: IGN RELAY CIRC• B2617: STARTER RELAY CIRC• B2618: BCM• B2619: BCM• B261A: PUSH-BTN IGN SW• B261E: VEHICLE TYPE• B26E9: S/L STATUS• B26EA: KEY REGISTRATION• C1729: VHCL SPEED SIG ERR• U0415: VEHICLE SPEED SIG

BCM (BODY CONTROL MODULE)

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Priority	DTC
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1734: CONTROL UNIT
6	<ul style="list-style-type: none"> • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

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NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [INL-13, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM	—	—	—	—	BCS-38
U1010: CONTROL UNIT(CAN)	—	—	—	—	BCS-39
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-40
B2013: ID DISCORD BCM-S/L*	×	×	—	—	SEC-51
B2014: CHAIN OF S/L-BCM*	×	×	—	—	SEC-52
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-43
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-46
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-47
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-49
B2195: ANTI SCANNING	×	—	—	—	SEC-50
B2553: IGNITION RELAY	—	×	—	—	PCS-48
B2555: STOP LAMP	—	×	—	—	SEC-55
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-57
B2557: VEHICLE SPEED	×	×	×	—	SEC-59
B2560: STARTER CONT RELAY	×	×	×	—	SEC-60
B2562: LOW VOLTAGE	—	×	—	—	BCS-41
B2601: SHIFT POSITION	×	×	×	—	SEC-61
B2602: SHIFT POSITION	×	×	×	—	SEC-64
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-66
B2604: PNP SW	×	×	×	—	SEC-69

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2605: PNP SW	×	×	×	—	SEC-71
B2606: S/L RELAY*	×	×	×	—	SEC-73
B2607: S/L RELAY*	×	×	×	—	SEC-74
B2608: STARTER RELAY	×	×	×	—	SEC-76
B2609: S/L STATUS*	×	×	×	—	SEC-78
B260A: IGNITION RELAY	×	×	×	—	PCS-50
B260B: STEERING LOCK UNIT*	—	×	×	—	SEC-82
B260C: STEERING LOCK UNIT*	—	×	×	—	SEC-83
B260D: STEERING LOCK UNIT*	—	×	×	—	SEC-84
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-85
B2612: S/L STATUS*	×	×	×	—	SEC-88
B2614: ACC RELAY CIRC	—	×	×	—	PCS-52
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-55
B2616: IGN RELAY CIRC	—	×	×	—	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-92
B2618: BCM	×	×	×	—	PCS-61
B2619: BCM*	×	×	×	—	SEC-94
B261A: PUSH-BTN IGN SW	—	×	×	—	SEC-95
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-98
B2622: INSIDE ANTENNA	—	×	—	—	DLK-91
B2623: INSIDE ANTENNA	—	×	—	—	DLK-93
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	—	SEC-86
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	SEC-87
C1704: LOW PRESSURE FL	—	—	—	×	WT-25
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	WT-27
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-30
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-32
C1734: CONTROL UNIT	—	—	—	×	WT-34

NOTE:

*: For models without steering lock unit this DTC is not applied.

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

COMBINATION METER

Reference Value

INFOID:0000000005681434

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition		Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km/h or mph]	Ignition switch ON	—	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading NOTE: 8191.875 is displayed when the malfunction signal is received
FUEL METER [L]	Ignition switch ON	—	Values according to fuel level
W TEMP METER [°C]	Ignition switch ON	—	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
ABS W/L	Ignition switch ON	ABS warning lamp ON	On
		ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON	On
		VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch ON	SLIP Indicator lamp ON	On
		SLIP indicator lamp OFF	Off
BRAKE W/L	Ignition switch ON	Brake warning lamp ON	On
		Brake warning lamp OFF	Off
DOOR W/L	Ignition switch ON	Door warning lamp ON	On
		Door warning lamp OFF	Off
HI-BEAM IND	Ignition switch ON	High-beam indicator lamp ON	On
		High-beam indicator lamp OFF	Off
TURN IND	Ignition switch ON	Turn signal indicator lamp ON	On
		Turn signal indicator lamp OFF	Off
LIGHT IND	Ignition switch ON	Light indicator lamp ON	On
		Light indicator lamp OFF	Off
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On
		Oil pressure warning lamp OFF	Off
MIL	Ignition switch ON	Malfunction indicator lamp ON	On
		Malfunction indicator lamp OFF	Off
CRUISE IND	Ignition switch ON	CRUISE indicator lamp ON	On
		CRUISE indicator lamp OFF	Off

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
O/D OFF IND	Ignition switch ON	O/D OFF indicator lamp ON	On
		O/D OFF indicator lamp OFF	Off
4WD W/L	Ignition switch ON	AWD warning lamp ON	On
		AWD warning lamp OFF	Off
4WD LOCK IND	Ignition switch ON	AWD LOCK indicator lamp ON	On
		AWD LOCK indicator lamp OFF	Off
FUEL W/L	Ignition switch ON	Low-fuel warning lamp ON	On
		Low-fuel warning lamp OFF	Off
WASHER W/L	Ignition switch ON	Washer warning displayed	On
		Washer warning not displayed	Off
AIR PRES W/L	Ignition switch ON	Low tire pressure lamp ON	On
		Low tire pressure lamp OFF	Off
KEY G/Y W/L	Ignition switch ON	Key warning lamp (green/yellow) ON	On
		Key warning lamp (green/yellow) OFF	Off
LCD	Ignition switch ON	Engine start information display	B&P I
	Ignition switch ACC	Engine start information display	B&P N
	Ignition switch LOCK	Key ID warning display	ID NG
	Ignition switch LOCK	Steering lock information display	ROTAT
	Ignition switch LOCK	P position warning display	SFT P
	Ignition switch LOCK	Intelligent Key insert information display	INSRT
	Ignition switch LOCK	Intelligent Key low battery warning display	BATT
	Ignition switch ON	Take away warning display	NO KY
	Ignition switch LOCK	Key warning display	OUTKY
SHIFT IND	Ignition switch ON	Shift position indicator P display	P
		Shift position indicator R display	R
		Shift position indicator N display	N
		Shift position indicator D display	D
		Shift position indicator L display	L
O/D OFF SW	Ignition switch ON	Overdrive control switch ON	On
		Overdrive control switch OFF	Off
M RANGE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
NM RANGE SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off

COMBINATION METER

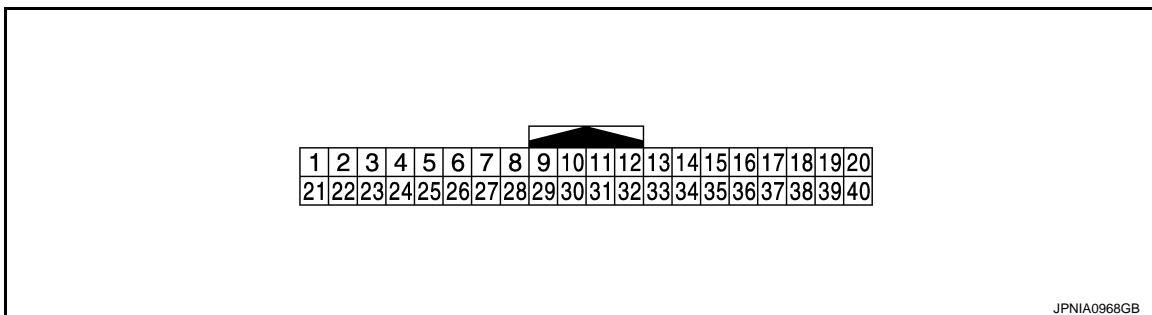
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
AT SFT UP SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
AT SFT DWN SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ST SFT UP SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
ST SFT DWN SW	Ignition switch ON	NOTE: This item is displayed, but cannot be monitored.	Off
PKB SW	Ignition switch ON	Parking brake switch ON	On
		Parking brake switch OFF	Off
BUCKLE SW	Ignition switch ON	Seat belt (driver side) not fastened	On
		Seat belt (driver side) fastened	Off
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On
		Brake fluid level switch OFF	Off
DISTANCE [km]	Ignition switch ON	—	Possible driving distance calculated by combination meter
A/C AMP CONN	Ignition switch ON	Other than the following	On
		Receives ambient sensor power signal	Off
ENTER SW	Ignition switch ON	When is pressed	On
		Other than the above	Off
SELECT SW	Ignition switch ON	When is pressed	On
		Other than the above	Off
OUTSIDE TEMP [°C] or [°F]	Ignition switch ON	—	Equivalent to ambient temperature NOTE: This may not match the indicated value on the information display.
FUEL LOW SIG	Ignition switch ON	Low fuel warning displayed	On
		Low fuel warning not displayed	Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off

NOTE:

Some items are not available according to vehicle specification.

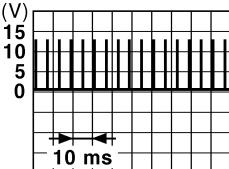
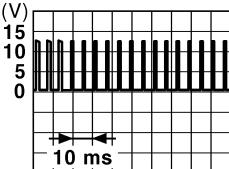
TERMINAL LAYOUT



PHYSICAL VALUES

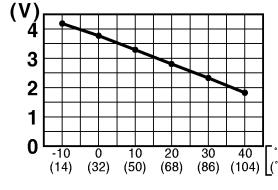
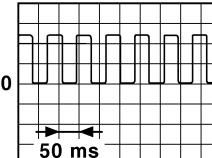
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (O)	Ground	IGN signal	Input	Ignition switch ON	—	Battery voltage
3 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
5 (SB)	Ground	Illumination control signal	Output	Ignition switch ON	<ul style="list-style-type: none"> • Lighting switch 1ST • When meter illumination is maximum 	 <small>JPNIA0828GB</small>
					<ul style="list-style-type: none"> • Lighting switch 1ST • When meter illumination is minimum 	 <small>JPNIA0827GB</small>
8 (SB)	10 (O)	Trip reset signal	Input	Ignition switch ON	When trip reset switch is pressed.	0 V
					Other than the above	5 V
10 (O)	Ground	Meter control switch ground	—	Ignition switch ON	—	0 V
11 (L)	10 (O)	Enter switch signal	Input	Ignition switch ON	When  is pressed.	0 V
					Other than the above	5 V
12 (R)	10 (O)	Select switch signal	Input	Ignition switch ON	When  is pressed.	0 V
					Other than the above	5 V
13 (Y ^{*1} or V ^{*2})	10 (O)	Illumination control switch signal (+)	Input	Ignition switch ON	When  is pressed.	0 V
					Other than the above	5 V
14 (GR)	10 (O)	Illumination control switch signal (-)	Input	Ignition switch ON	When  is pressed.	0 V
					Other than the above	5 V
15 (BR)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V
					Air bag warning lamp OFF	0 V

COMBINATION METER

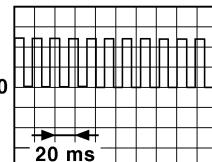
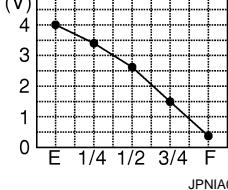
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
18 (L)	Ground	Ambient sensor signal	Input	Ignition switch ON	Changes depending to ambient temperature.	 JSNIA0014GB
19 (P)	Ground	Ambient sensor power	Input	Ignition switch ON	—	5 V
20 (Y)	Ground	Ambient sensor ground	Input	Ignition switch ON	—	0 V
21 (L)	—	CAN-H	—	—	—	—
22 (P)	—	CAN-L	—	—	—	—
23 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
24 (W)	Ground	Fuel level sensor signal ground	—	Ignition switch ON	—	0 V
25 (BR)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	2 V
					Charge warning lamp OFF	12 V
26 (G)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	5 V
27 (V)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal	12 V
					Brake fluid level is less than LOW level	0 V
29 (R)	Ground	Washer level switch signal	Input	Ignition switch ON	Washer level switch ON	0 V
					Washer level switch OFF	5 V
30 (P)	Ground	Vehicle speed signal output (2-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).
						 JSNIA0015GB

A
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 INL
 M
 N
 O
 P

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
31 (V)	Ground	Vehicle speed signal output (8-pulse)	Output	Ignition switch ON	Speedometer operated [When vehicle speed is approx. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).  <small>JSNIA0012GB</small>
32 (LG)	Ground	Overdrive control switch signal	Input	Ignition switch ON	Overdrive control switch pressed.	0 V
					Overdrive control switch not pressed.	12 V
34 (G)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 <small>JPNIA0740ZZ</small>
35 (SB)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When driver seat belt is fastened.	12 V
					When driver seat belt is unfastened.	0 V
36 (R)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	<ul style="list-style-type: none"> • When getting in the passenger seat. • When passenger seat belt is fastened. 	12 V
					<ul style="list-style-type: none"> • When getting in the passenger seat. • When passenger seat belt is unfastened. 	0 V

*1: Without automatic drive positioner

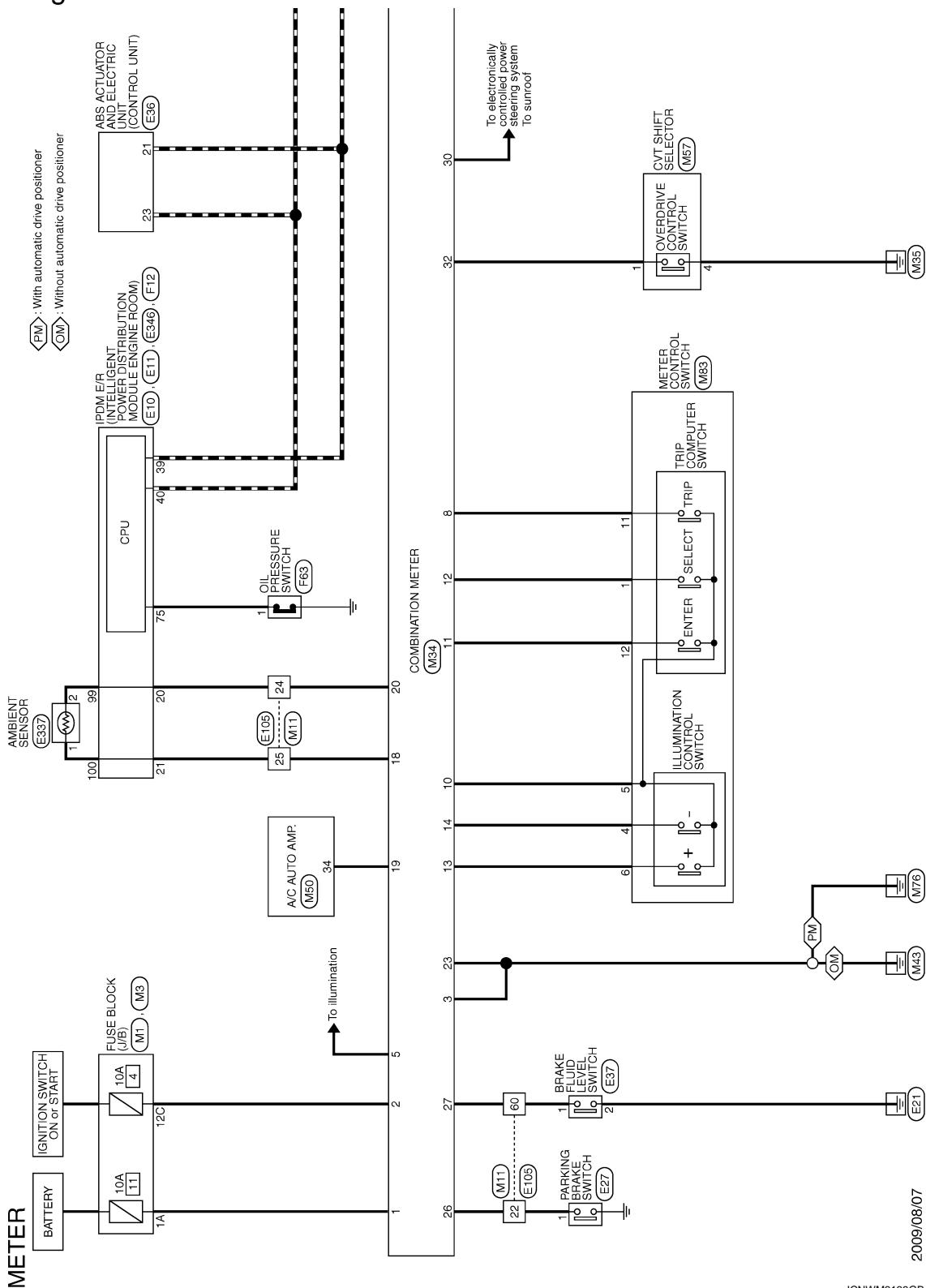
*2: With automatic drive positioner

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - METER -

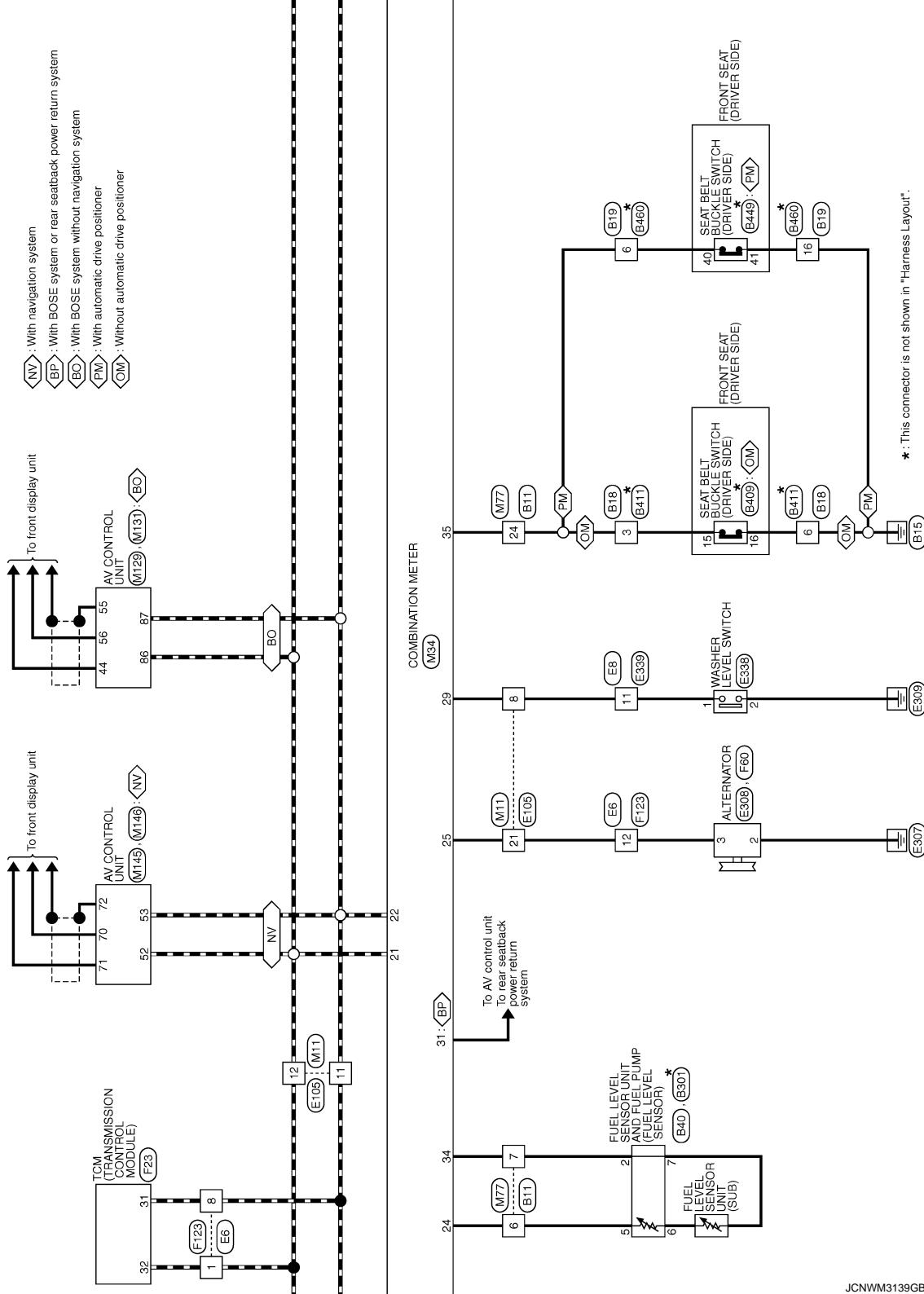
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COMBINATION METER

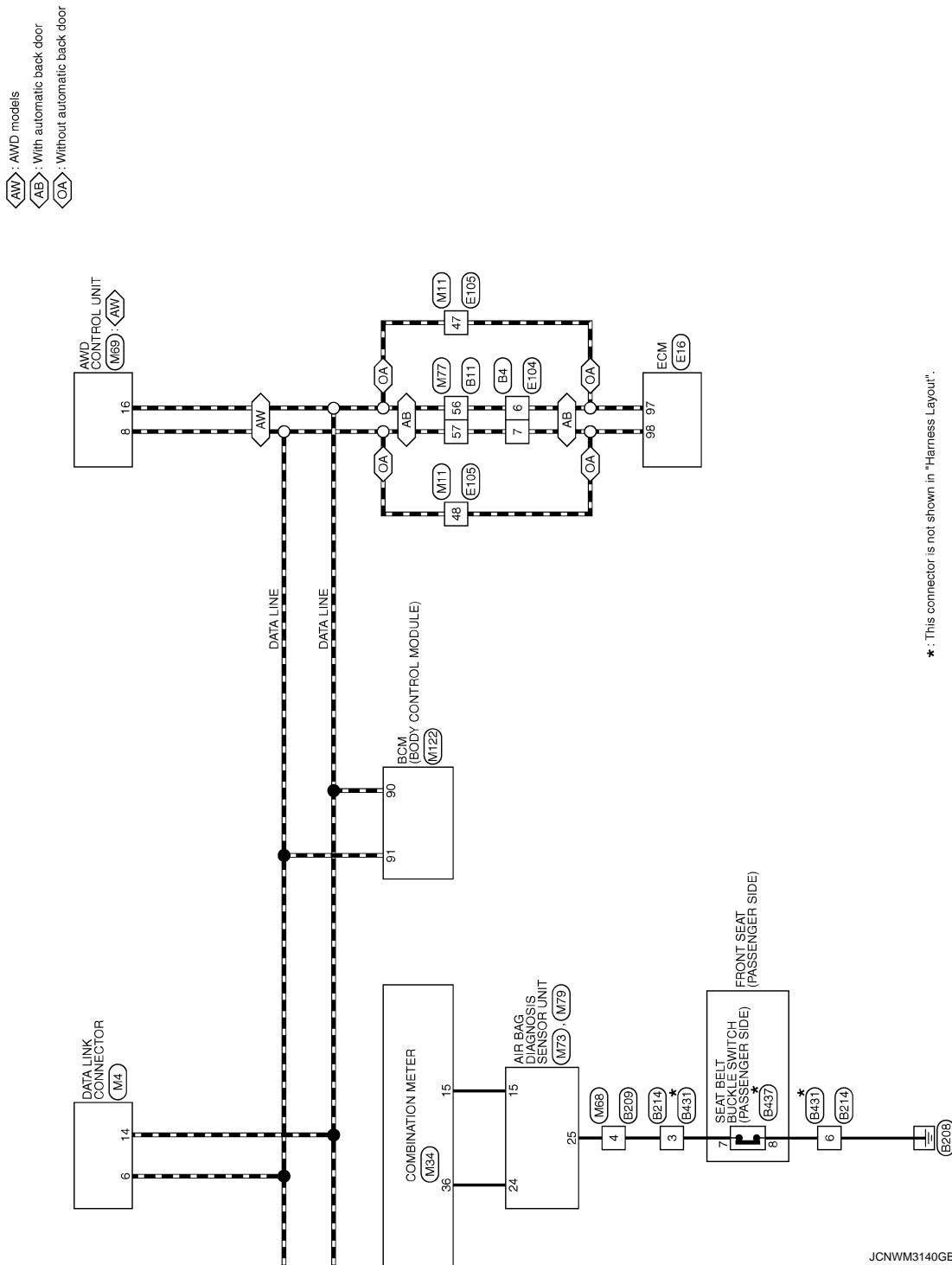
< ECU DIAGNOSIS INFORMATION >



JCNWM3139GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >



JCNWM3140GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER		Connector No.		Signal Name [Specification]		Terminal Color of Wire No.		Signal Name [Specification]		Terminal Color of Wire No.		Signal Name [Specification]	
Connector No.	B4	7	V	-	-	63	LG	-	-	1	BR	-	-
Connector Name	WIRE TO WIRE	8	SHIELD	-	-	64	Y	-	-	2	B	-	-
Connector Type	NS16MW-CS	9	BR/L	-	-	66	GR	-	-	3	GR	-	-
		10	Y/G	-	-	67	G	-	-	4	O	-	-
		11	Y/L	-	-	68	R	-	-	5	G	-	-
		12	W/L	-	-	69	SHIELD	-	-	6	B/W	-	-
		B19		Connector No.		WIRE TO WIRE		Signal Name [Specification]		NS16FW-CS		Terminal Color of Wire No.	
		1 2 3 ■ 4 5 6 7		1 2 3 4 ■ 5 6 7		8 9 10 11 12 13 14 15 16		8 9 10 11 12 13 14 15 16		1 2 3 4 ■ 5 6 7		8 9 10 11 12 13 14 15 16	
		B18		Connector No.		WIRE TO WIRE		Signal Name [Specification]		NS16FW-CS		Terminal Color of Wire No.	
		1 ■ 2 3 4 5 6 7		1 ■ 2 3 4 5 6 7		3 4 5 6		3 4 5 6		1 ■ 2 3 4 5 6 7		3 4 5 6	
Connector No.	B11	1	SB	-	-	20	P	-	-	77	R	-	-
Connector Name	WIRE TO WIRE	2	W	-	-	21	LG	-	-	78	SHIELD	-	-
Connector Type	TH80MW-CS19	3	G	-	-	22	W	-	-	79	B	-	-
		4	R	-	-	23	Y	-	-	80	W	-	-
		5	O	-	-	24	GR	-	-	81	R	-	-
		6	P	-	-	25	Y	-	-	82	L	-	-
		7	L	-	-	27	V	-	-	83	BR	-	-
		8	E	-	-	28	W/L	-	-	84	O	-	-
		9	LG	-	-	30	P	-	-	85	G	-	-
		10	V	-	-	31	O	-	-	86	SB	-	-
		11	L	-	-	32	BR	-	-	87	R	-	-
		12	BR	-	-	34	SB	-	-	88	G	-	-
		13	P	-	-	35	SHIELD	-	-	89	GR	-	-
		14	BR	-	-	36	L/O	-	-	90	Y	-	-
		15	O	-	-	37	LG	-	-	91	O	-	-
		16	G	-	-	40	Y	-	-	92	BR	-	-
						41	O	-	-	93	G	-	-
						42	SB	-	-	94	V	-	-
						43	Q	-	-	95	BR	-	-
						44	BR	-	-	96	GR	-	-
						45	L	-	-	97	R	-	-
						46	GR	-	-	98	LG	-	-
						47	V	-	-	99	O	-	-
						48	GR	-	-				
								-With rear view camera and telephone]					
						49	Y	-	-				
						50	SHIELD	-	-				
						51	B	-	-				
						52	SHIELD	-	-				
						53	Y	-	-				
						54	LG	-	-				
						55	BR	-	-				
						56	P	-	-				
						57	L	-	-				
						58	R	-	-				
						59	SHIELD	-	-				
						60	B	-	-				
						61	R/L	-	-				
						62	R/W	-	-				

JCNWM3141GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Connector No.	Connector Name	Connector Type	Terminal No.	Color of Wire	Signal Name [Specification]	Connector No.	Connector Name	Connector Type	Terminal No.	Color of Wire	Signal Name [Specification]
B40	FUEL LEVEL SENSOR UNIT AND FUEL PUMP	E051GY-RS	1	W	-	B214	WIRE TO WIRE	NS06FW-CS	15	W/G	-
			2	V	-				16	GR	-
			3	B	-						
			4	SB	-						
			5	P	-						
			6	B/W	-						
B209	WIRE TO WIRE	TK12MG-Y-BD	1	O	-				1	R	-
			2	B	-				2	B	-
			3	BR	-				3	W/G	-
			4	GR	-				4	GR	-
			5	G	-				5	B/R	-
			6	W	-				6	GR	-
B301	FUEL LEVEL SENSOR UNIT AND FUEL PUMP	-	1	2	-				1	R	-
			2	3	-				2	B	-
			3	4	-				3	W/G	-
			4	5	-				4	GR	-
			5	6	-				5	B/R	-
			6	7	-				6	GR	-
B431	WIRE TO WIRE	NS06WM-CS	1	2	-				1	R	-
			2	3	-				2	B	-
			3	4	-				3	W/G	-
			4	5	-				4	GR	-
			5	6	-				5	B/R	-
			6	7	-				6	GR	-
B408	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)	A03MW-P	1	R	-				1	R	-
			2	W	-				2	B	-
			3	L	-				3	W/G	-
			4	BR	-				4	W/R	-
			5	Y	-				5	B/R	-
			6	G	-				6	GR	-
			7	SHIELD	-						
			8	LG	-						
			9	P	-						
			10	SB	-						
			11	SB	-						

JCNWM3142GB

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

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER		
Connector No.	B460	
Connector Name	WIRE TO WIRE	
Connector Type	NS15MW-CS	
Terminal No.	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	Signal Name [Specification]  HS
1	R	-
2	P	-
3	G/O	-
4	O/L	-
5	BR	-
6	W/G	-
7	B	-
8	W/L	-
9	P/L	-
10	L/O	-
11	V	-
12	V/W	-
13	W/R	-
14	BR/W	-
15	B/R	-
16	GR	-

E16		
Connector No.	E16	
Connector Name	ECM	
Connector Type	RH24FB-RZ8-L-LH	
Terminal No.	15 16 19 20 21 22 23 24 25 26 27 28	W L/Y Y L O SB GR G GR Y W SB
Signal Name [Specification]		
81	85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109	85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109

E8		
Connector No.	E8	
Connector Name	WIRE TO WIRE	
Connector Type	NS12MFR-CS	
Terminal No.	1 2 3 4 5 6 7 8 9 10 11 12	Signal Name [Specification]  HS
1	1	2
2	2	3
3	3	4
4	4	5
5	5	6
6	6	7
7	7	8
8	8	9
9	9	10
10	10	11
11	11	12

E18		
Connector No.	E18	
Connector Name	SPNE E/R INTELLIGENT POWER DISTRIBUTION MODULE	
Connector Type	ENGINE ROOM	
Terminal No.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name [Specification]  HS
1	42	41
2	40	40
3	39	39
4	46	44
5	43	43

E10		
Connector No.	E10	
Connector Name	SPNE E/R INTELLIGENT POWER DISTRIBUTION MODULE	
Connector Type	ENGINE ROOM	
Terminal No.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name [Specification]  HS
1	9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8
2	13 14 15 16	13 14 15 16
3	15 16	15 16
4	17 18 19 20	17 18 19 20
5	21 22 23 24	21 22 23 24
6	25 26 27 28	25 26 27 28
7	29 30 31 32	29 30 31 32
8	33 34 35 36	33 34 35 36
9	37 38 39 40	37 38 39 40
10	41 42 43 44	41 42 43 44
11	45 46 47 48	45 46 47 48
12	49 50 51 52	49 50 51 52
13	53 54 55 56	53 54 55 56

E18		
Connector No.	E18	
Connector Name	SPNE E/R INTELLIGENT POWER DISTRIBUTION MODULE	
Connector Type	ENGINE ROOM	
Terminal No.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name [Specification]  HS
1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
2	17 18 19 20	17 18 19 20
3	21 22 23 24	21 22 23 24
4	25 26 27 28	25 26 27 28
5	29 30 31 32	29 30 31 32
6	33 34 35 36	33 34 35 36
7	37 38 39 40	37 38 39 40
8	41 42 43 44	41 42 43 44
9	45 46 47 48	45 46 47 48
10	49 50 51 52	49 50 51 52
11	53 54 55 56	53 54 55 56

E18		
Connector No.	E18	
Connector Name	SPNE E/R INTELLIGENT POWER DISTRIBUTION MODULE	
Connector Type	ENGINE ROOM	
Terminal No.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name [Specification]  HS
1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
2	17 18 19 20	17 18 19 20
3	21 22 23 24	21 22 23 24
4	25 26 27 28	25 26 27 28
5	29 30 31 32	29 30 31 32
6	33 34 35 36	33 34 35 36
7	37 38 39 40	37 38 39 40
8	41 42 43 44	41 42 43 44
9	45 46 47 48	45 46 47 48
10	49 50 51 52	49 50 51 52
11	53 54 55 56	53 54 55 56

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER	
Connector No.	E27
Connector Name	PARKING BRAKE SWITCH
Connector Type	PO11B-A
	
Terminal No.	26
Color of Wire	B/W
Signal Name [Specification]	VALVE/ECU GND
1	P
	
Terminal No.	26
Color of Wire	B/W
Signal Name [Specification]	VALVE/ECU SUPPLY
1	R
	
Terminal No.	2
Color of Wire	Y
Signal Name [Specification]	WSS RL SIG(-)
3	L
	
Terminal No.	3
Color of Wire	GR
Signal Name [Specification]	WSS RL PWR(+)
4	B
	
Terminal No.	5
Color of Wire	W
Signal Name [Specification]	WSS FR SIG(+)
6	V
	
Terminal No.	6
Color of Wire	LG
Signal Name [Specification]	WSS FR SIG(-)
7	SB
	
Terminal No.	7
Color of Wire	V
Signal Name [Specification]	WSS EL SIG(-)
8	W
	
Terminal No.	8
Color of Wire	SB
Signal Name [Specification]	WSS EL PWR(+)
9	BR
	
Terminal No.	9
Color of Wire	SB
Signal Name [Specification]	CLUSTER GND
10	SB
	
Terminal No.	10
Color of Wire	P
Signal Name [Specification]	WSS RR PWR(+)
11	P
	
Terminal No.	11
Color of Wire	V
Signal Name [Specification]	WSS RR SIG(-)
12	SB
	
Terminal No.	12
Color of Wire	SB
Signal Name [Specification]	MOTOR GND
13	BR
	
Terminal No.	13
Color of Wire	G
Signal Name [Specification]	MOTOR SUPPLY
14	SB
	
Terminal No.	14
Color of Wire	BL
Signal Name [Specification]	CAN2 H
15	BR
	
Terminal No.	15
Color of Wire	IGN
16	SB
	
Terminal No.	16
Color of Wire	P
Signal Name [Specification]	CAN1 L
17	BR
	
Terminal No.	17
Color of Wire	V
Signal Name [Specification]	VDC OFF SW
18	Y
	
Terminal No.	18
Color of Wire	Y
Signal Name [Specification]	CAN1 H
19	L
	
Terminal No.	19
Color of Wire	CAN1 L
20	BR
	
Terminal No.	20
Color of Wire	P
Signal Name [Specification]	VDC OFF SW
21	P
	
Terminal No.	21
Color of Wire	V
Signal Name [Specification]	CAN1 H
22	Y
	
Terminal No.	22
Color of Wire	Y
Signal Name [Specification]	CAN2 L
23	L
	
Terminal No.	23
Color of Wire	W
Signal Name [Specification]	CAN2 H
24	W
	
Terminal No.	24
Color of Wire	W
Signal Name [Specification]	CAN2 L
25	W
	
Terminal No.	25
Color of Wire	W
Signal Name [Specification]	CAN2 H

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70WM-CS10-M3

Connector No.	E37
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	YY02FGY

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Connector No.	E36
Connector Name	ASV ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	AZ722FB-AJZ4-LH

Connector No.	E337
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER		Connector No.	E338	7	GR	-	
Terminal No.	Color of Wire			80	B		
1	R	WASHER LEVEL SWITCH	TH16FW-NH				
2	B						
Terminal No.	Color of Wire	Signal Name [Specification]					
91	R		91				
92	LG		92				
99	BR		99				
100	SB						
101	L						
102	B						
103	P						
Terminal No.	Color of Wire	Signal Name [Specification]					
54	54	54	54	54	54	54	
55	55	55	55	55	55	55	
56	56	56	56	56	56	56	
57	57	57	57	57	57	57	
58	58	58	58	58	58	58	
59	59	59	59	59	59	59	
60	60	60	60	60	60	60	
61	61	61	61	61	61	61	
62	62	62	62	62	62	62	
63	63	63	63	63	63	63	
64	64	64	64	64	64	64	
65	65	65	65	65	65	65	
66	66	66	66	66	66	66	
67	67	67	67	67	67	67	
68	68	68	68	68	68	68	
69	69	69	69	69	69	69	
70	70	70	70	70	70	70	
71	71	71	71	71	71	71	
72	72	72	72	72	72	72	
73	73	73	73	73	73	73	
74	74	74	74	74	74	74	
75	75	75	75	75	75	75	
76	76	76	76	76	76	76	
77	77	77	77	77	77	77	
78	78	78	78	78	78	78	
79	79	79	79	79	79	79	
80	80	80	80	80	80	80	
81	81	81	81	81	81	81	
82	82	82	82	82	82	82	

CONNECTOR F14		Connector No.	F14	1	GR	-	
Terminal No.	Color of Wire	Signal Name [Specification]					
1	R						
2	B						
3	Y						
4	G						
5	O						
6	W						
7	LG						
8	BR						
9	SB						
10	L						
11	R						
12	LG						
13	BR						
14	W						
15	Y						
16	G						
17	O						
18	SB						
19	L						
20	R						
21	B						
22	Y						
23	G						
24	O						
25	W						
26	Y						
27	G						
28	O						
29	B						
30	R						
31	P						
32	L						
33	LG						
34	LGR						
35	V						
36	R						
37	Y						
38	W						
39	WB						
40	R/Y						
41	B						
42	Y						
43	GND						
44	VIGN						
45	BATT						
46	VIGN						
47	Y						
48	Y						
49	LG						
50	BR						
51	W						
52	Y/G						
53	R/W						
54	G/W						
55	W/L						
56	R/Y						
57	O						
58	Y						
59	WB						
60	O						
61	R/B						
62	LG						
63	BR						
64	W						
65	Y						
66	G						
67	O						
68	WB						
69	R/Y						
70	B						
71	Y						
72	GND						
73	VIGN						
74	BATT						
75	VIGN						
76	Y						
77	LG						
78	BR						
79	W						
80	Y						
81	G						
82	O						
83	WB						
84	R/Y						
85	B						
86	Y						
87	G						
88	O						
89	WB						
90	R/Y						
91	B						
92	Y						
93	G						
94	O						
95	WB						
96	R/Y						
97	B						
98	Y						
99	G						
100	O						
101	WB						
102	R/Y						
103	B						
104	Y						
105	G						
106	O						
107	WB						
108	R/Y						
109	B						
110	Y						
111	G						
112	O						
113	WB						
114	R/Y						
115	B						
116	Y						
117	G						
118	O						
119	WB						
120	R/Y						
121	B						
122	Y						
123	G						
124	O						
125	WB						
126	R/Y						
127	B						
128	Y						
129	G						
130	O						
131	WB						
132	R/Y						
133	B						
134	Y						
135	G						
136	O						
137	WB						
138	R/Y						
139	B						
140	Y						
141	G						
142	O						
143	WB						
144	R/Y						
145	B						
146	Y						
147	G						
148	O						
149	WB						
150	R/Y						
151	B						
152	Y						
153	G						
154	O						
155	WB						
156	R/Y						
157	B						
158	Y						
159	G						
160	O						
161	WB						
162	R/Y						
163	B						
164	Y						
165	G						
166	O						
167	WB						
168	R/Y						
169	B						
170	Y						
171	G						
172	O						
173	WB						
174	R/Y						
175	B						
176	Y						
177	G						
178	O						
179	WB						
180	R/Y						
181	B						
182	Y						
183	G						
184	O						
185	WB						
186	R/Y						
187	B						
188	Y						
189	G						
190	O						
191	WB						
192	R/Y						
193	B						
194	Y						
195	G						
196	O						
197	WB						
198	R/Y						
199	B						
200	Y						
201	G						

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER		Connector No.	M3	Connector No.	M11																																																			
Connector Name		WIRE TO WIRE	WIRE TO WIRE	Connector Name	WIRE TO WIRE																																																			
Connector Type		TK1DFG7-IV	NS12FW-CS	Connector Type	TH70FW-CS10-M3																																																			
																																																								
<table border="1" style="width: 100%; text-align: center;"> <tr> <td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td> </tr> <tr> <td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td> </tr> <tr> <td>9</td><td>8</td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		7	6	5	4	3	2	1	16	15	14	13	12	11	10	9	8						<table border="1" style="width: 100%; text-align: center;"> <tr> <td>5C</td><td>4C</td><td></td><td></td><td>3C</td><td>2C</td><td>C</td> </tr> <tr> <td>12</td><td>11</td><td>10</td><td>9</td><td>8C</td><td>7C</td><td>GC</td> </tr> </table>		5C	4C			3C	2C	C	12	11	10	9	8C	7C	GC	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> </table>		9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8
7	6	5	4	3	2	1																																																		
16	15	14	13	12	11	10																																																		
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5C	4C			3C	2C	C																																																		
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9	10	11	12	13	14	15	16																																																	
1	2	3	4	5	6	7	8																																																	
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]																																																			
1	L	-	6C	BR	-																																																			
3	Q/R	-	7C	B	-																																																			
4	G/B	-	8C	G	-																																																			
5	R	-	9C	GR	-																																																			
6	L/R	-	10C	SB	-																																																			
8	P	-	11C	R	-																																																			
10	Y/B	-	12C	O	-																																																			
11	BR/W	-																																																						
12	BR	-																																																						
13	G	-																																																						
14	B	-																																																						
15	O	-																																																						
																																																								
Connector No.	M1	Connector Name	DATA LINK CONNECTOR	Terminal No.	Color of Wire																																																			
Connector Name	FUSE BLOCK (J/B)	Connector Type	BD16FW	1	Y																																																			
Connector Type	NS50FW-M2			2	BR																																																			
																																																								
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]																																																			
4	B	-	4	B	-																																																			
5	B	-	5	B	-																																																			
6	L	-	6	L	-																																																			
7	O	-	7	GR	-																																																			
8	G	-	8	LG	-																																																			
14	P	-	9	Y	-																																																			
16	Y	-	10	V	-																																																			
<table border="1" style="width: 100%; text-align: center;"> <tr> <td>3A</td><td>2A</td><td>A</td> </tr> <tr> <td>8A</td><td>7A</td><td>6A</td> </tr> <tr> <td>5A</td><td>4A</td><td></td> </tr> </table>		3A	2A	A	8A	7A	6A	5A	4A		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> </table>		9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>3A</td><td>2A</td><td>A</td> </tr> <tr> <td>8A</td><td>7A</td><td>6A</td> </tr> <tr> <td>5A</td><td>4A</td><td></td> </tr> </table>		3A	2A	A	8A	7A	6A	5A	4A																		
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3A	2A	A																																																						
8A	7A	6A																																																						
5A	4A																																																							
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]																																																			
IA	Y	-	11	Y	-																																																			
2A	G	-	12	GR	-																																																			
3A	Y	-	13	W	-																																																			
5A	GR	-	14	GR	-																																																			
6A	R	-	15	GR	-																																																			
8A	W	-	16	O	-																																																			
TA	LG	-																																																						
DA	Y	-																																																						
																																																								

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER		Connector No.	M34	Connector Name	COMBINATION METER	Connector Type	TH4DFW-NH	HS
Connector No.		M50	Connector Name	A/C AUTO AMP	Connector Type	SAB40FW		
Terminal No.		1 2 3 4 5 6 7 8 9 [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]	Color of Wire	SB	Signal Name [Specification]	TRIP RESET SWITCH	Color of Wire	R
1		Y	BAL	IGN	SWITCH	1	GND	
2		O	CAN-H	GROUND	SWITCH	2	GND	
3		B	CAN-L	GROUND	SWITCH	3	IGN	
4		B	TXAMP>SW&DSP	SELECT SWITCH	ACC	4	IGN	
5		SB	RXSW/AMP	ILLUMINATION CONTROL	GRD	5	IGN	
6		SB	VACTR	TRIP RESET SWITCH	RR DEF F/S	6	IGN	
7		W	SUN SENS	SWITCH	RR DEF ON	7	SHIELD	
8		W	INTAKE SENS	SWITCH	FAN PWM	8	V	
9		W	AMBIENT SENS	SWITCH	AMBIENT POWER	9	V	
10		O	METER CONTROL SW GND	SWITCH	AMB SENS	10	Y	
11		L	ENTER SWITCH	SWITCH	INCAR SENS	11	Y	
12		R	SELECT SWITCH	SWITCH	SEATBELT W/L	12	V	
13		V	ILLUMINATION CONTROL SWITCH (with automatic drive position)	SWITCH	RR DEF F/S	13	IGN	
14		Y	ILLUMINATION CONTROL SWITCH (without automatic drive position)	SWITCH	RR DEF ON	14	IGN	
15		GR	SWITCH	SWITCH	FAN PWM	15	IGN	
16		BR	SWITCH	SWITCH	AMBIENT POWER	16	IGN	
17		L	SWITCH	SWITCH	AMB SENS	17	IGN	
18		L	SWITCH	SWITCH	INCAR SENS	18	IGN	
19		P	SWITCH	SWITCH	SEATBELT W/L	19	IGN	
20		Y	SWITCH	SWITCH	RR DEF F/S	20	IGN	
21		L	SWITCH	SWITCH	RR DEF ON	21	IGN	
22		P	SWITCH	SWITCH	FAN PWM	22	IGN	
23		B	SWITCH	SWITCH	AMBIENT POWER	23	IGN	
24		W	SWITCH	SWITCH	AMB SENS	24	IGN	
25		BR	SWITCH	SWITCH	INCAR SENS	25	IGN	
26		G	SWITCH	SWITCH	SEATBELT W/L	26	IGN	
27		V	SWITCH	SWITCH	RR DEF F/S	27	IGN	
28		R	SWITCH	SWITCH	RR DEF ON	28	IGN	
29		R	SWITCH	SWITCH	FAN PWM	29	IGN	
30		P	SWITCH	SWITCH	AMBIENT POWER	30	IGN	
31		V	SWITCH	SWITCH	AMB SENS	31	IGN	
32		LG	SWITCH	SWITCH	INCAR SENS	32	IGN	
33		G	SWITCH	SWITCH	SEATBELT W/L	33	IGN	
34		SB	SWITCH	SWITCH	RR DEF F/S	34	IGN	
35		R	SWITCH	SWITCH	RR DEF ON	35	IGN	
36		R	SWITCH	SWITCH	FAN PWM	36	IGN	
CVT SHIFT SELECTOR		Connector No.	M57	Connector Name	CVT SHIFT SELECTOR	Connector Type	TK10FW	HS
Terminal No.		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Color of Wire	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Signal Name [Specification]	Signal Name [Specification]		
1		LG	AVD SOL+	AVD SOL+	AVD SOL+	1	LG	
2		L	AVD SOL-	AVD SOL-	AVD SOL-	2	L	
3		R	IGN	IGN	IGN	3	R	
4		LG	CAN-H	CAN-H	CAN-H	4	LG	
5		G	SOL BAT	SOL BAT	SOL BAT	5	G	
6		B	GND	GND	GND	6	B	
7						7		
8						8		
9						9		
10						10		

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER			
Connector No.	M77	Wire To Wire	
Connector Name	WIRE TO WIRE	[With automatic drive positioner]	
Connector Type	THBDFW-CS19	[Without automatic drive positioner]	
44	V	-	95 O -
45	P	-	96 SB -
46	R	-	97 L -
47	Y	-	98 LG -
48	L	-	99 Y -
49	G	-	
50	SHIELD	-	
51	W	-	
52	B	-	
53	BR	-	
54	TK2PF-IV-EX	-	
55	G	-	
56	P	-	
57	L	-	
58	SB	-	
59	SHIELD	-	
60	B	-	
61	R	-	
62	V	-	
63	O	-	
64	Y	-	
65	L	-	
66	ELR RH+	-	72 B
67	R	-	73 W
68	G	-	74 Y
69	SHIELD	-	75 LG
70	L	-	76 V
71	R	-	77 P
72	BUCKLE SW RH	-	80 SB
73	Y	-	81 O
74	RH	-	82 BR
75	INF CURTAIN RH+	-	83 P
76	W	-	87 GR
77	O	-	88 PUSH SW
78	INF CURTAIN RH-	-	90 P
79	RH	-	91 L
80	SIDE INF RH+	-	92 R
81	R	-	93 P
82	SIDE SENS RH+	-	95 L
83	G	-	96 Y
84	RH	-	97 O
85	Y	-	98 V
86	W	-	100 P
87	LG	-	101 W
88	L	-	102 Y
89	W	-	103 L
90	GR	-	106 Y
91	G	-	107 O
92	BR	-	108 P
93	P	-	109 SB
94	V	-	110 G
95	O	-	111 LG

METER			
Connector No.	M79	Wire To Wire	
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT	[With automatic drive positioner]	
Connector Type	TH40FB-NH	[Without automatic drive positioner]	
32	28	-	31
26	27	-	31
3	39	7	36
39	7	36	30

METER			
Connector No.	M122	Wire To Wire	
Connector Name	BCM (BODY CONTROL MODULE)	[With automatic drive positioner]	
Connector Type	TH40FB-NH	[Without automatic drive positioner]	
HS.			

METER			
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
1	SHIELD	-	72 B
2	B	-	73 W
3	W	-	74 Y
4	R	-	75 LG
5	Y	-	76 V
6	W	-	77 P
7	G	-	80 SB
8	SHIELD	-	81 O
9	W	-	82 BR
10	R	-	83 P
11	G	-	87 GR
12	B	-	88 PUSH SW
13	O	-	90 P
14	R	-	91 L
15	SB	-	92 R
16	R	-	93 P
17	V	-	95 L
18	P	-	96 Y
19	P	-	97 O
20	LG	-	98 V
21	Y	-	100 P
22	O	-	101 W
23	LG	-	102 Y
24	SB	-	103 L
25	Y	-	106 Y
26	Y	-	107 O
27	Y	-	108 P
28	R	-	109 SB
29	Y	[With front heated seat and passenger side power seat]	110 G
30	Y	[With front heated seat without passenger side power seat]	111 LG
31	W	-	
32	BR	-	
33	Y	-	
34	Y	-	
35	SHIELD	-	
36	G	-	
37	Y	-	
38	R	-	
39	B	-	
40	O	-	
41	O	-	
42	SB	-	
43	L	-	

METER			
Terminal No.	Color of Wire	Signal Name [Specification]	Signal Name [Specification]
1	2	3	4
2	5	6	
7	8	9	10
8	11	12	

JCNWMM3148GB

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER																																																																																																													
Connector No.	M123																																																																																																												
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVIGATION SYSTEM)																																																																																																												
Connector Type	TH24FW-NH																																																																																																												
Terminal No.	Color of Wire	Signal Name [Specification]																																																																																																											
36	L	COMPOSITE IMAGE SIGNAL																																																																																																											
37	P	RGB (BLUE) SIGNAL																																																																																																											
38	Y	RGB (GREEN) SIGNAL																																																																																																											
39	L	RGB (RED) SIGNAL																																																																																																											
40	G	RGB SYNC																																																																																																											
41	B	SIGNAL GND																																																																																																											
42	SHIELD	SHIELD																																																																																																											
43	W	RGB AREA (YS) SIGNAL																																																																																																											
44	G	COMM (DISP->CONT)																																																																																																											
45	G	HP																																																																																																											
46	LG	SIGNAL GND																																																																																																											
47	O	SIGNAL Y/GC																																																																																																											
49	SHIELD	SHIELD																																																																																																											
50	SHIELD	SHIELD																																																																																																											
55	R	COMM (CONT->DISP)																																																																																																											
56	R	VP																																																																																																											
58	BR	INVERTER GND																																																																																																											
59	Y	INVERTER VCC																																																																																																											
																																																																																																													
[Signal Name: REVERSE, VEHICLE SPEED (G-PULSE), VEHICLE SPEED (R-PULSE), CONNECTION RECOGNITION, CONTROL SIGNAL, CONTROL SIGNAL, CAN-H, CAN-L, AV COMM (H), AV COMM (L), AV COMM (L), AV COMM (H), CAN-H, CAN-L]																																																																																																													
[Connector No. M1146, Connector Name AV CONTROL UNIT (WITH NAVIGATION SYSTEM), Connector Type TH12FW-NH]																																																																																																													
																																																																																																													
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications
Speedometer		
Tachometer		Reset to zero by suspending communication.
Engine coolant temperature gauge		
Illumination control		When suspending communication, changes to nighttime mode.
Information display	Door open warning	
	Parking brake release warning	The display turns off by suspending communication.
	Instantaneous fuel warning	
	Average fuel consumption	
	Average vehicle speed	<ul style="list-style-type: none"> When reception time of an abnormal signal is 2 seconds or less, the last received datum is used for calculation to indicate the result. When reception time of an abnormal signal is more than two seconds, the last result calculated during normal condition is indicated.
	Travel distance	
Buzzer		The buzzer turns off by suspending communication.
Warning lamp/indicator lamp	ABS warning lamp	
	VDC OFF indicator lamp	
	SLIP indicator lamp	
	Brake warning lamp	The lamp turns on by suspending communication.
	AWD warning lamp	
	Malfunction indicator lamp	
	Low tire pressure warning lamp	The lamp turns ON after flashing for 1 minute.
	High beam indicator lamp	
	Turn signal indicator lamp	
	Light indicator lamp	
	Oil pressure warning lamp	
	CRUISE indicator lamp	
	O/D OFF indicator lamp	
	AWD LOCK indicator lamp	
	Key warning lamp	The lamp turns off by suspending communication.

DTC Index

INFOID:0000000005681437

INL

Display contents of CONSULT-III	Diagnostic item is detected when ...	Refer to
CAN COMM CIRCUIT [U1000]	When combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	MWI-38_ "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	When detecting error during the initial diagnosis of the CAN controller of combination meter.	MWI-39_ "Diagnosis Procedure"
VEHICLE SPEED [B2205]	The abnormal vehicle speed signal is input from the ABS actuator and electric unit (control unit) for 2 seconds or more.	MWI-40_ "Diagnosis Procedure"
ENGINE SPEED [B2267]	If ECM continuously transmits abnormal engine speed signals for 2 seconds or more.	MWI-41_ "Diagnosis Procedure"
WATER TEMP [B2268]	If ECM continuously transmits abnormal engine coolant temperature signals for 60 seconds or more.	MWI-42_ "Diagnosis Procedure"

INTERIOR LIGHTING SYSTEM SYMPTOMS

<SYMPTOM DIAGNOSIS>

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000005516794

CAUTION:

Perform the self-diagnosis with CONSULT-III before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item
All the following lamps are not turned ON. <ul style="list-style-type: none">• Map lamp• Personal lamp• Luggage room lamp• Step lamp• Vanity mirror lamp	<ul style="list-style-type: none">• Harness between BCM and each interior room lamp• BCM	Interior room lamp power supply circuit Refer to INL-19 .
<ul style="list-style-type: none">• Interior room lamp is not turned ON even though the door is open. (It turns ON when turning the interior room lamp ON.)• Interior room lamp does not turn OFF even though the door is closed.	<ul style="list-style-type: none">• Harness between BCM and each door switch• Harness between BCM and each interior room lamp• BCM	Door switch circuit Refer to DLK-97 . Interior room lamp control circuit Refer to INL-21 .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to INL-15 .
Step lamps (driver side and passenger side) are not turned ON. (Map lamp and personal lamp are turned ON.)	<ul style="list-style-type: none">• Harness between BCM and each step lamp• BCM	Step lamp circuit Refer to INL-23 .
Step lamps (driver side and passenger side) are not turned OFF. (Map lamp and personal lamp are turned OFF.)	<ul style="list-style-type: none">• Harness between BCM and push-button ignition switch• BCM	Push-button ignition switch illumination circuit Refer to INL-25 .
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to INL-16 .

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000005516795

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

Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

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

WARNING:

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

FOR MEXICO

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

INFOID:000000005716388

INL

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

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

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s)

PRECAUTIONS

< PRECAUTION >

-
- with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
 - When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

MAP LAMP

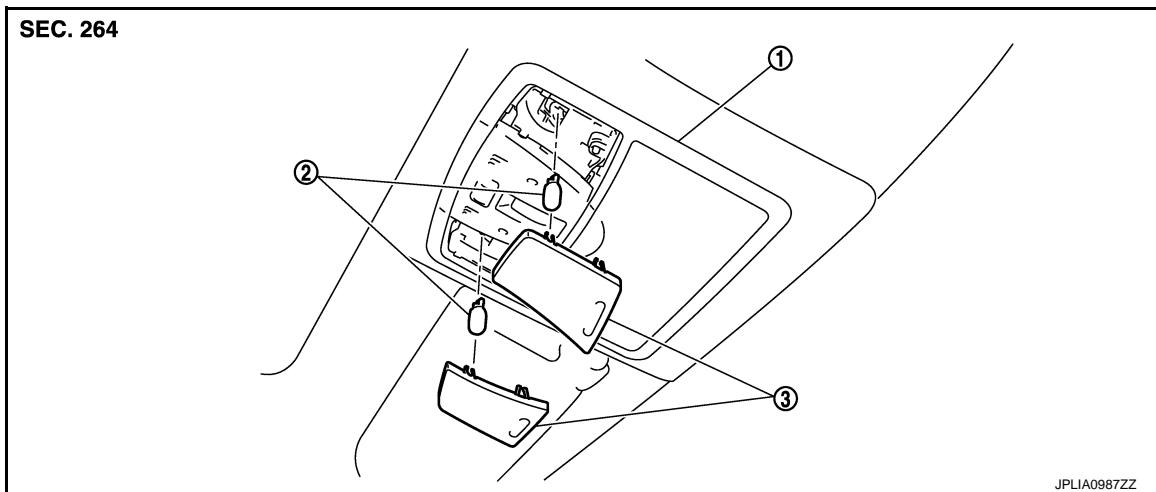
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:000000005516797



1. Map lamp assembly

2. Bulb

3. Lens

Removal and Installation

INFOID:000000005516798

Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (Normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (With sunroof) for the map lamp assembly installation/removal.

Replacement

INFOID:000000005516799

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

MAP LAMP BULB

INL

1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

M

N

O

P

MOOD LAMP

< REMOVAL AND INSTALLATION >

MOOD LAMP

MAP LAMP

MAP LAMP : Replacement

INFOID:0000000005516800

MAP LAMP

Mood lamp (map lamp) is integrated into the map lamp assembly. Refer to [INL-121, "Exploded View"](#).

FRONT DOOR GRIP

FRONT DOOR GRIP : Replacement

INFOID:0000000005516801

FRONT DOOR

Mood lamp (front door grip) is integrated into the front door trim. Refer to [INT-12, "FRONT DOOR FINISHER : Exploded View"](#).

ROOF CENTER

ROOF CENTER : Replacement

INFOID:0000000005516802

ROOF CENTER

Mood lamp (roof center) is integrated into the headlining.

- Refer to [INT-26, "NORMAL ROOF : Exploded View"](#) (Normal roof).
- Refer to [INT-30, "SUNROOF : Exploded View"](#) (With sunroof).

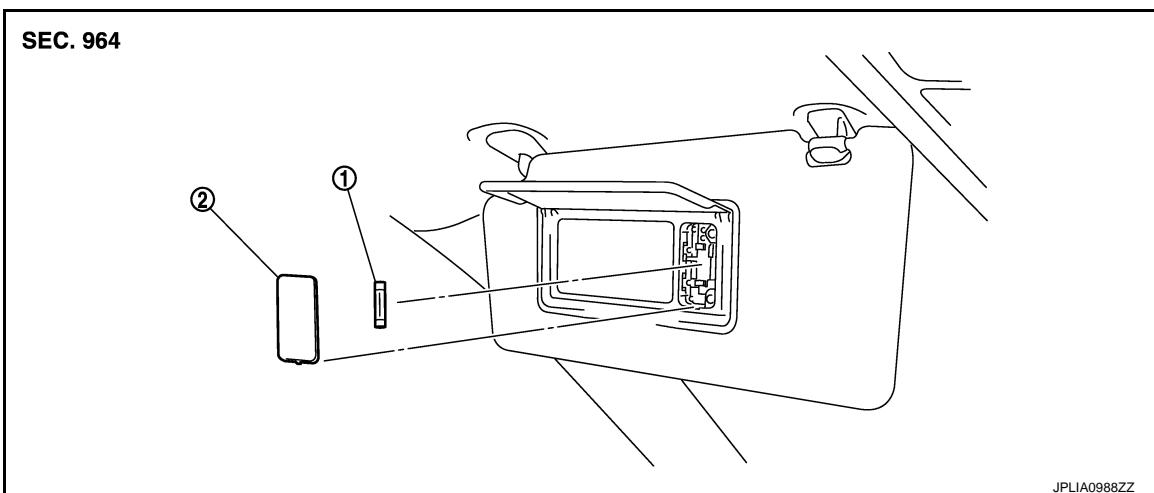
VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Exploded View

INFOID:0000000005516803



1. Bulb 2. Lens

Replacement

INFOID:0000000005516804

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

VANITY MIRROR LAMP BULB

1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

A

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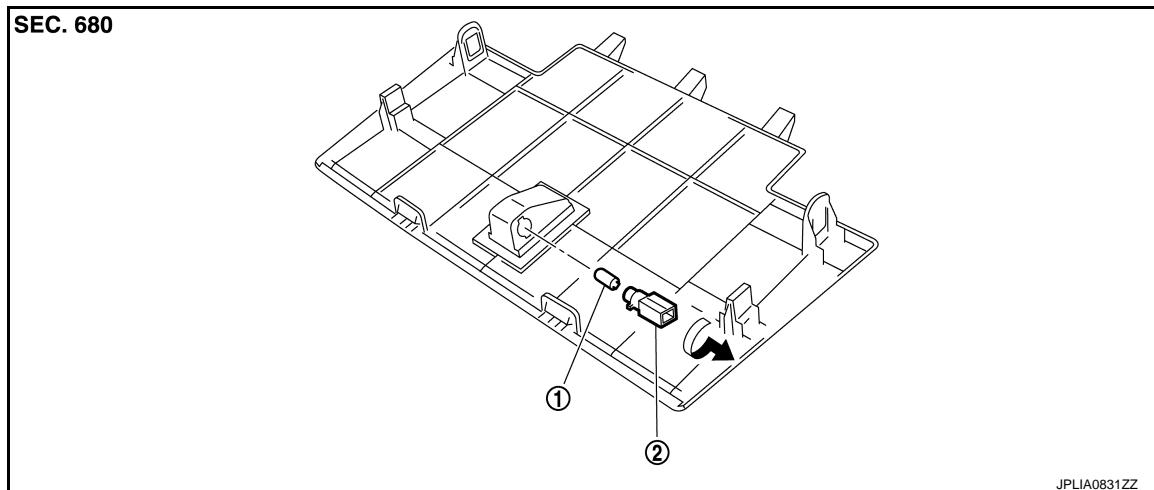
CONSOLE POCKET LAMP

< REMOVAL AND INSTALLATION >

CONSOLE POCKET LAMP

Exploded View

INFOID:0000000005516805



1. Bulb
2. Bulb socket

Replacement

INFOID:0000000005516806

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

CONSOLE POCKET LAMP BULB

1. Remove the cluster lid C (lower). Refer to [IP-12, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

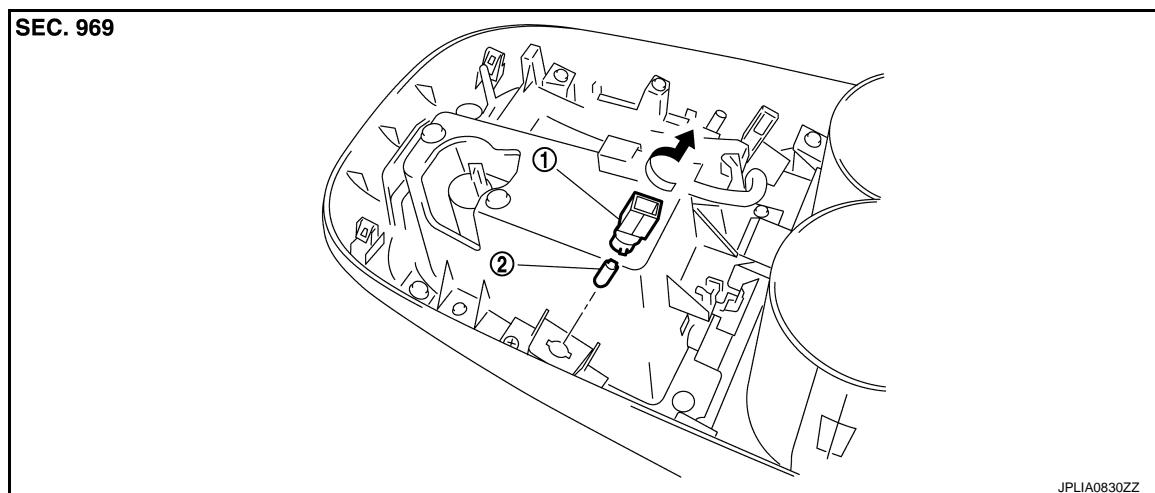
ASHTRAY ILLUMINATION

< REMOVAL AND INSTALLATION >

ASHTRAY ILLUMINATION

Exploded View

INFOID:0000000005516807



1. Bulb socket

2. Bulb

Replacement

INFOID:0000000005516808

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

ASHTRAY ILLUMINATION BULB

1. Remove the console finisher assembly. Refer to [IP-20, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

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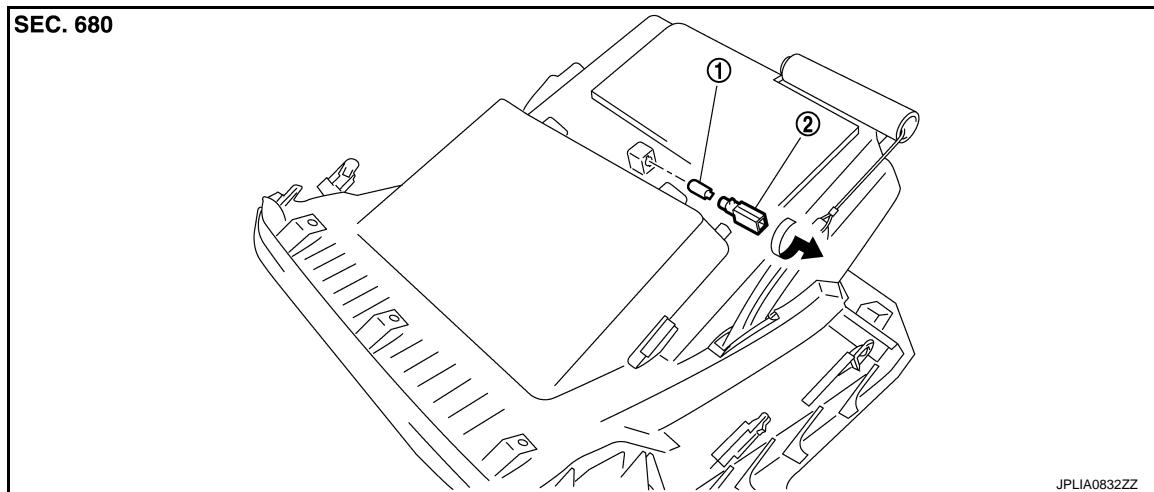
GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View

INFOID:0000000005516809



1. Bulb

2. Bulb socket

Replacement

INFOID:0000000005516810

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

GLOVE BOX LAMP BULB

1. Remove the glove box assembly. Refer to [IP-12, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

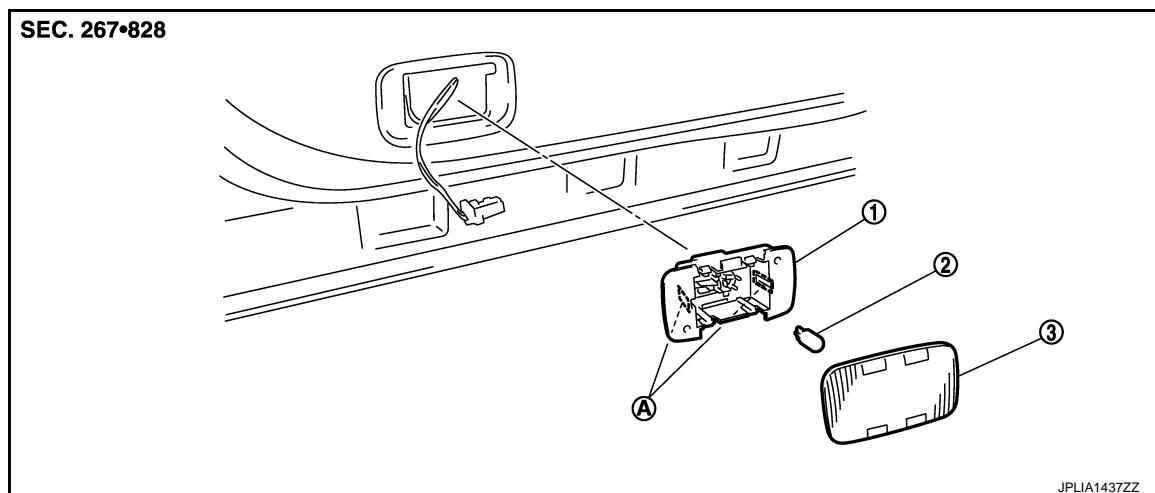
STEP LAMP

< REMOVAL AND INSTALLATION >

STEP LAMP

Exploded View

INFOID:0000000005516811



1. Step lamp case

2. Bulb

3. Lens

A Metal clip

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Removal and Installation

INFOID:0000000005516812

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the step lamp and the door trim. Remove the step lamp.
2. Disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000005516813

CAUTION:

- **Disconnect the battery negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.**
- **Never touch bulb by hand while it is lit or right after being turned off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

STEP LAMP BULB

1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

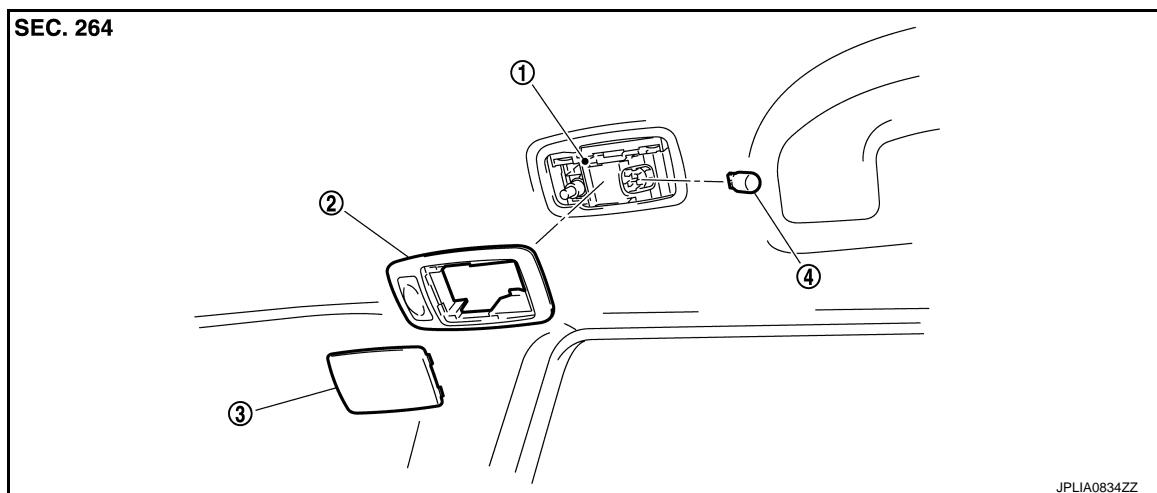
PERSONAL LAMP

< REMOVAL AND INSTALLATION >

PERSONAL LAMP

Exploded View

INFOID:0000000005516814



1. Personal lamp case
2. Personal lamp finisher
3. Lens
4. Bulb

NOTE:

Replace the personal lamp case as a set (right and left). After removing the headlining assembly, remove the personal lamp case. Refer to [INT-26, "NORMAL ROOF : Exploded View"](#) (Normal roof) or [INT-30, "SUNROOF : Exploded View"](#) (With sunroof).

Removal and Installation

INFOID:0000000005516815

CAUTION:

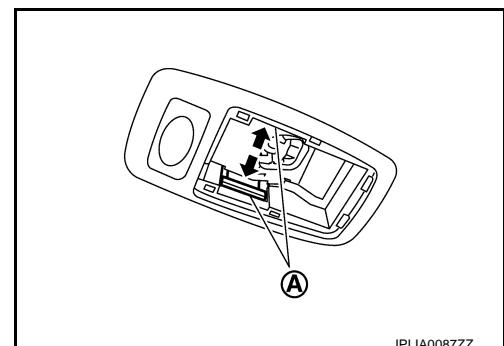
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Remove the headlining assembly. Refer to [INT-26, "NORMAL ROOF : Exploded View"](#) (Normal roof) or [INT-30, "SUNROOF : Exploded View"](#) (With sunroof).
2. Insert any appropriate tool into the gap between the lens. Remove the lens.
3. Press the both side pawls (A) to the arrow direction (➡). Remove the personal lamp finisher.
4. Remove the personal lamp case from the headlining assembly.

NOTE:

Replace the personal lamp case as a set (right and left).



INSTALLATION

Install in the reverse order of removal.

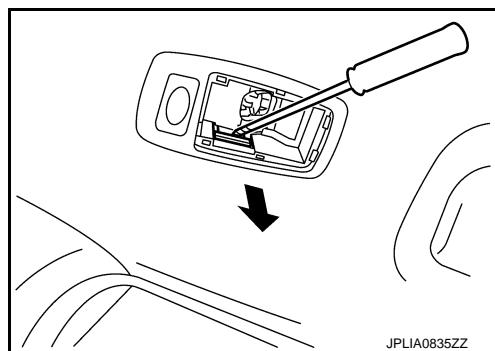
NOTE:

The following is easier to install the personal lamp finisher.

PERSONAL LAMP

< REMOVAL AND INSTALLATION >

- Press the personal lamp finisher to the headlining. Pull the personal lamp case pawl to the arrow direction () with any appropriate tool.



INFOID:000000005516816

Replacement

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

PERSONAL LAMP BULB

1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

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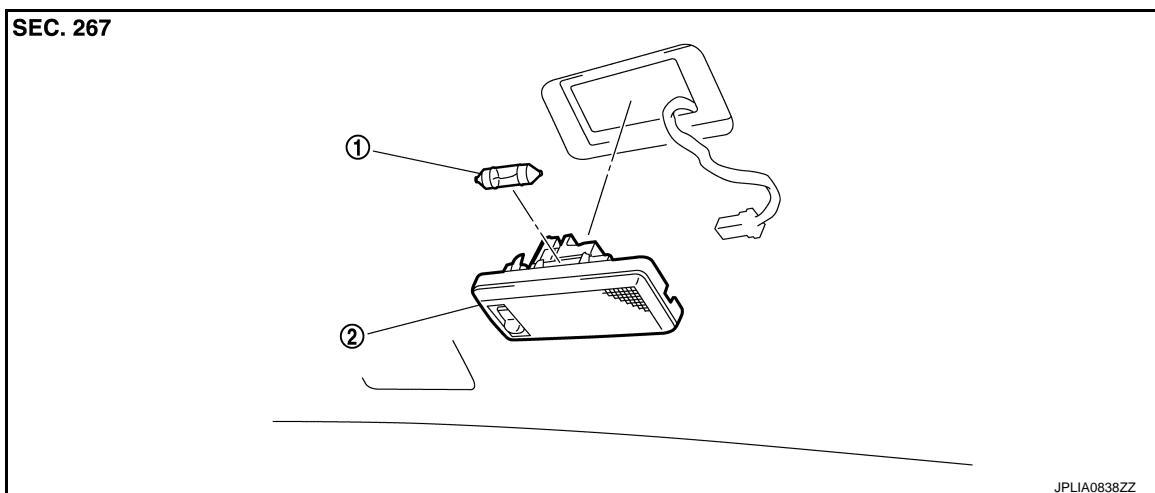
LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM LAMP

Exploded View

INFOID:0000000005516817



JPLIA0838ZZ

1. Bulb
2. Luggage room lamp assembly

Removal and Installation

INFOID:0000000005516818

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the luggage room lamp assembly and back door finisher inner. Remove the luggage room lamp assembly.
2. Disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000005516819

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

LUGGAGE ROOM LAMP BULB

1. Remove the luggage room lamp assembly.
2. Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000005516820

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	Wedge	8
Mood lamp	Map lamp	LED
	Front door grip	LED
	Roof center	LED
Vanity mirror lamp	—	2
Console pocket lamp	Wedge	1.4
Ashtray illumination	Wedge	1.4
Glove box lamp	Wedge	1.4
Step lamp	Wedge	2.7
Personal lamp	Wedge	8
Luggage room lamp	—	8

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