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SECTION

INL

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

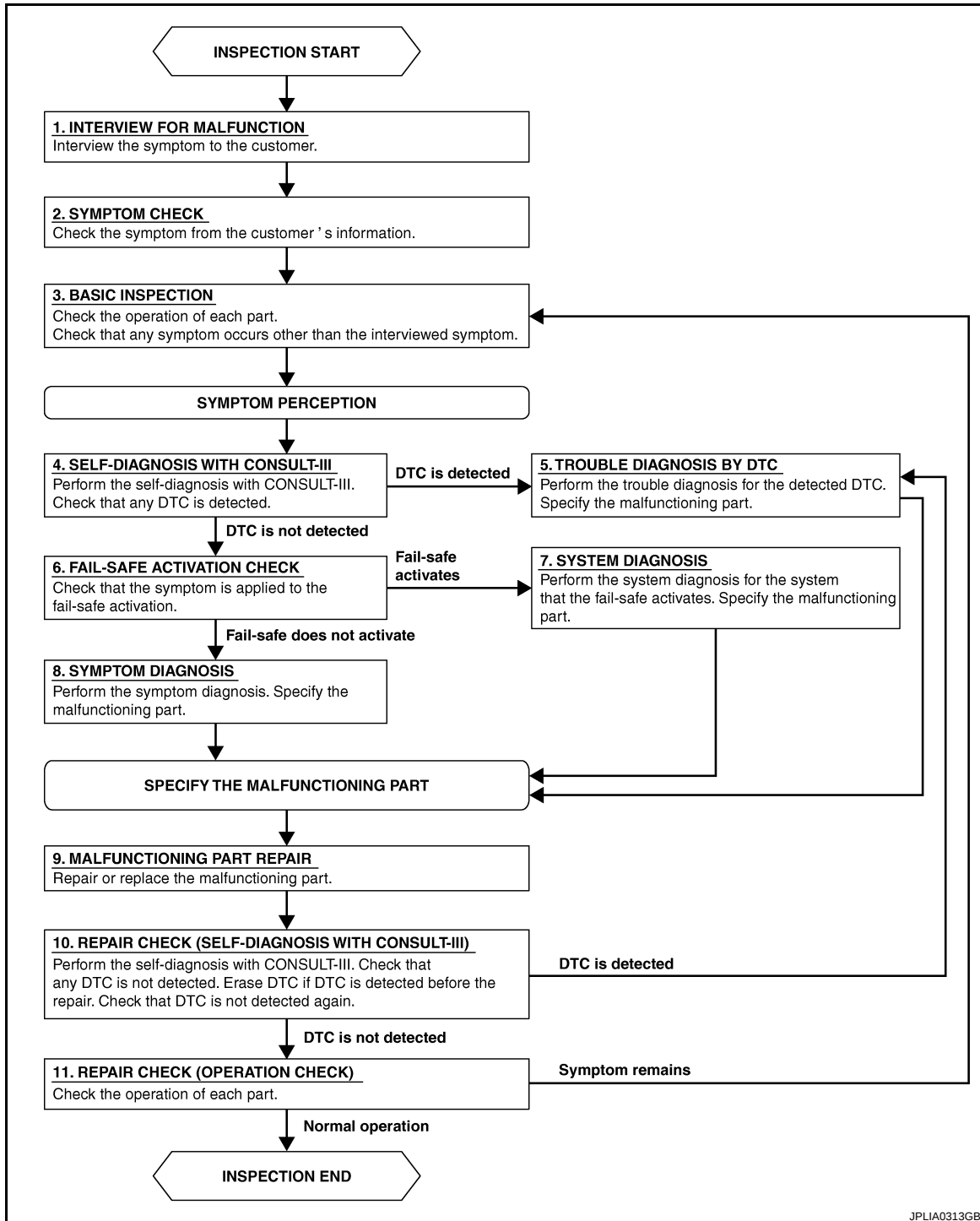
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003774538

OVERALL SEQUENCE



DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

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.

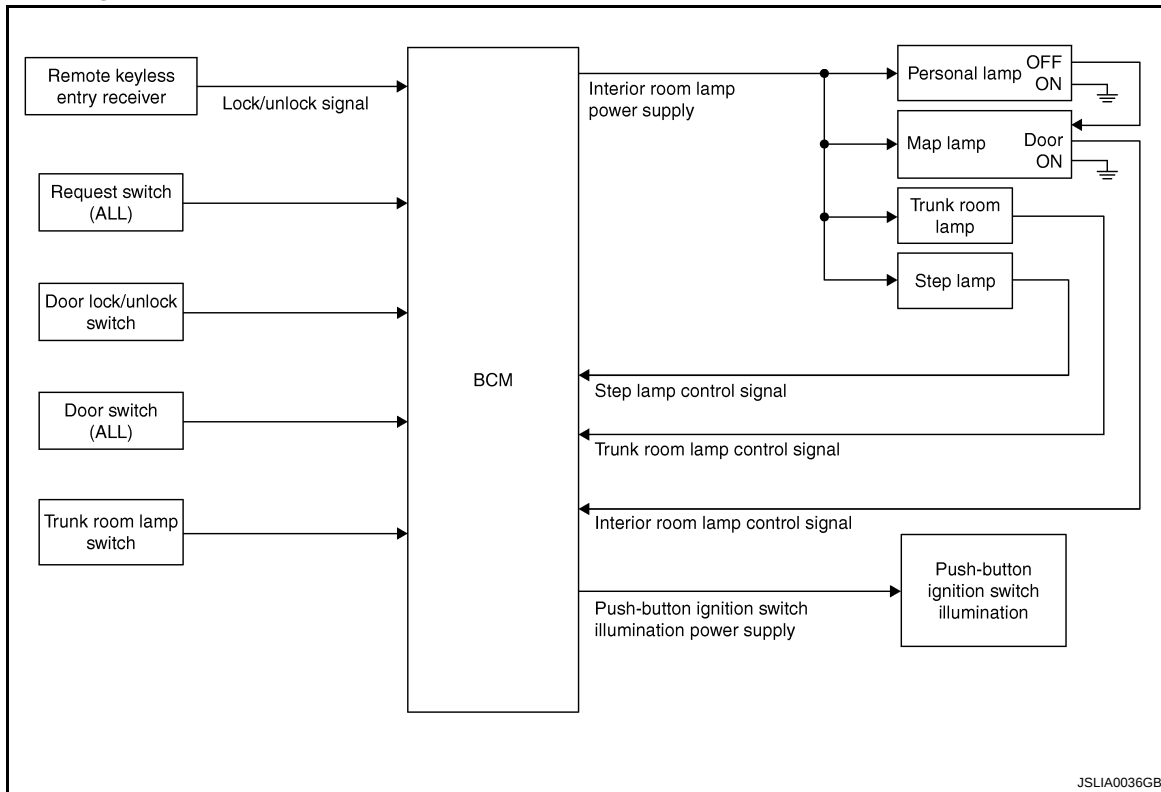
INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

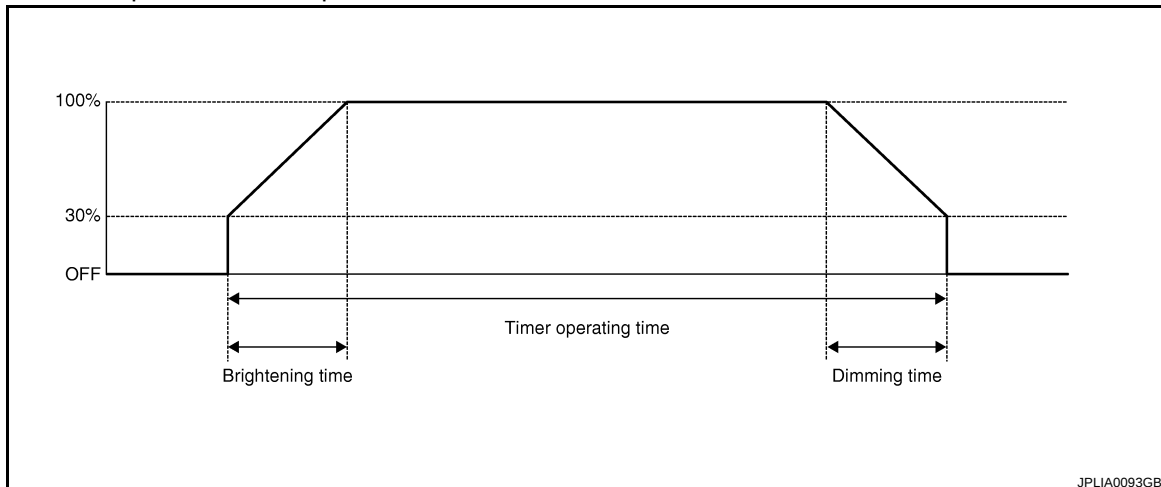
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OUTLINE

- 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.
- Trunk room lamp is controlled by trunk room 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

Interior Room Lamp Timer Basic Operation



INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

- 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, door lock/unlock switch)

NOTE:

Each function of interior room lamp timer can be set by CONSULT-III. Refer to [INL-16. "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 turn 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.

TRUNK ROOM LAMP CONTROL

BCM controls the trunk room lamp (ground-side) to turn ON with trunk room lamp switch ON.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

BCM provides the power supply to turn the push-button ignition switch illumination ON.

Push-button Ignition Switch Illumination ON Operation

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

- Ignition switch 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

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

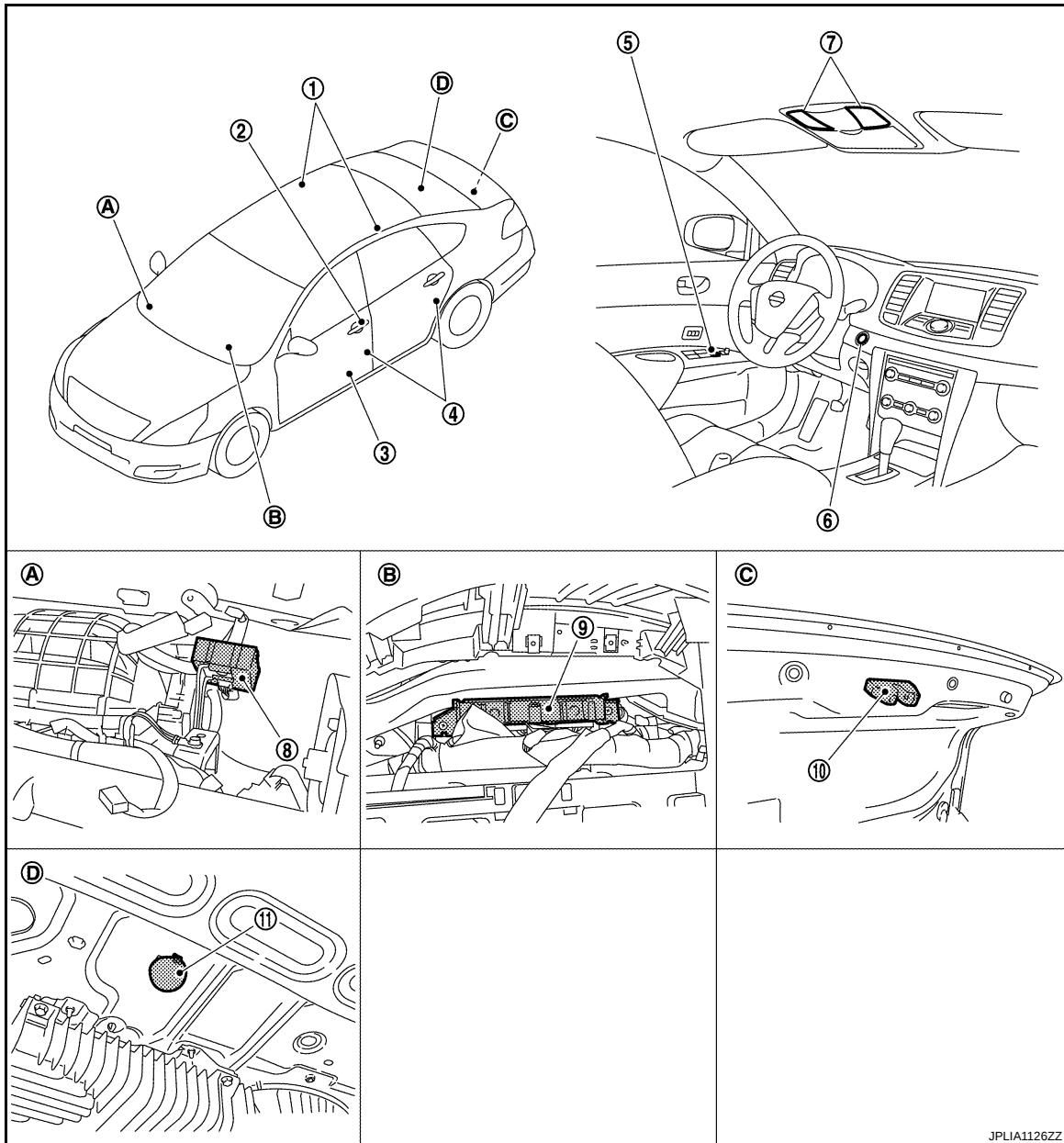
- The push-button ignition switch illumination ON conditions do not satisfy.
- All of the following conditions with ignition switch OFF
 - The push-button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF) or the driver door is UNLOCK → LOCK.

INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003774541



- | | | |
|----------------------------|----------------------------------|---|
| 1. Personal lamp | 2. Request switch | 3. Step lamp |
| 4. Door switch | 5. Door lock/unlock switch | 6. Push-button ignition switch illumination |
| 7. Map lamp | 8. Remote keyless entry receiver | 9. BCM |
| 10. Trunk room lamp switch | 11. Trunk room lamp | |
| A. Over the glove box | B. Behind the combination meter | C. Trunk lid lock assembly |
| D. Trunk room upward | | |

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INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000003774542

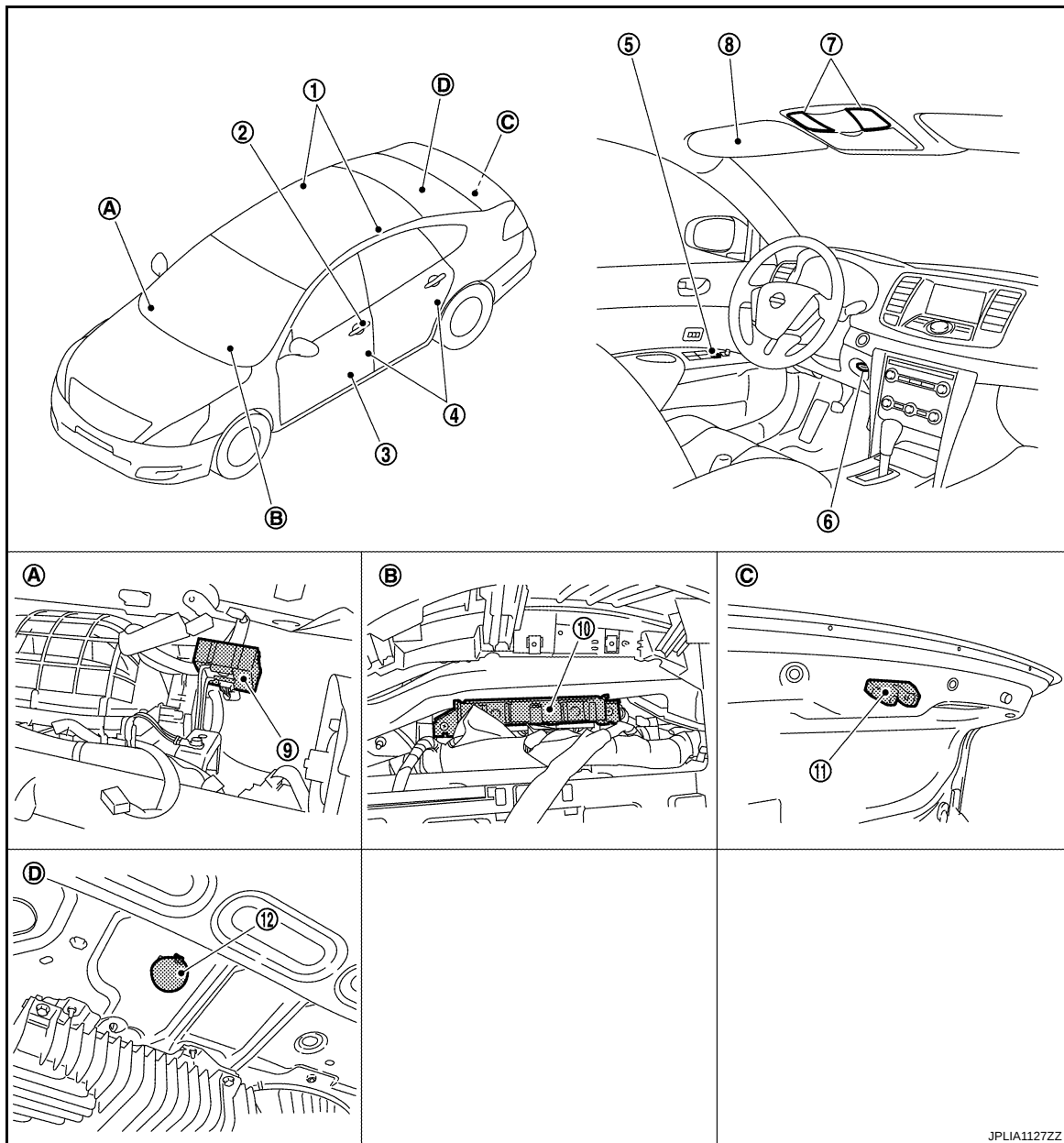
Part	Description
BCM	• Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamp ON/OFF. • Turns the step lamp ON/OFF according to any door switch status.
Remote keyless entry receiver	• Receives the lock/unlock signal from keyfob. • Transmits the lock/unlock signal to BCM.
• Request switch • Door lock/unlock switch	Inputs the lock/unlock signal to BCM.
• Door switch • Trunk room lamp switch	Inputs the switch signal to BCM.

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003774545



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

Component Description

INFOID:000000003774546

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	- Receives the lock/unlock signal from keyfob. - Transmits the lock/unlock signal to BCM.

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< FUNCTION DIAGNOSIS >

Part	Description
- Request switch - Door lock/unlock switch	Inputs the lock/unlock signal to BCM.
- Door switch - Trunk room lamp switch	Inputs the switch signal to BCM.
Key slot	Inputs the key switch status to BCM.

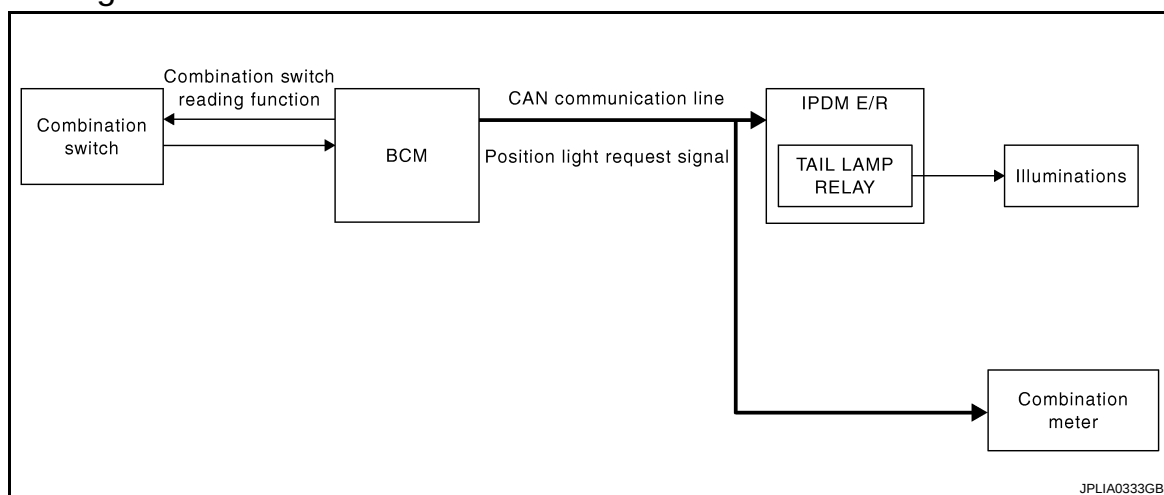
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ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

INFOID:000000003774548

OUTLINE

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

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

- Relay control function

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.

Tail lamp ON condition

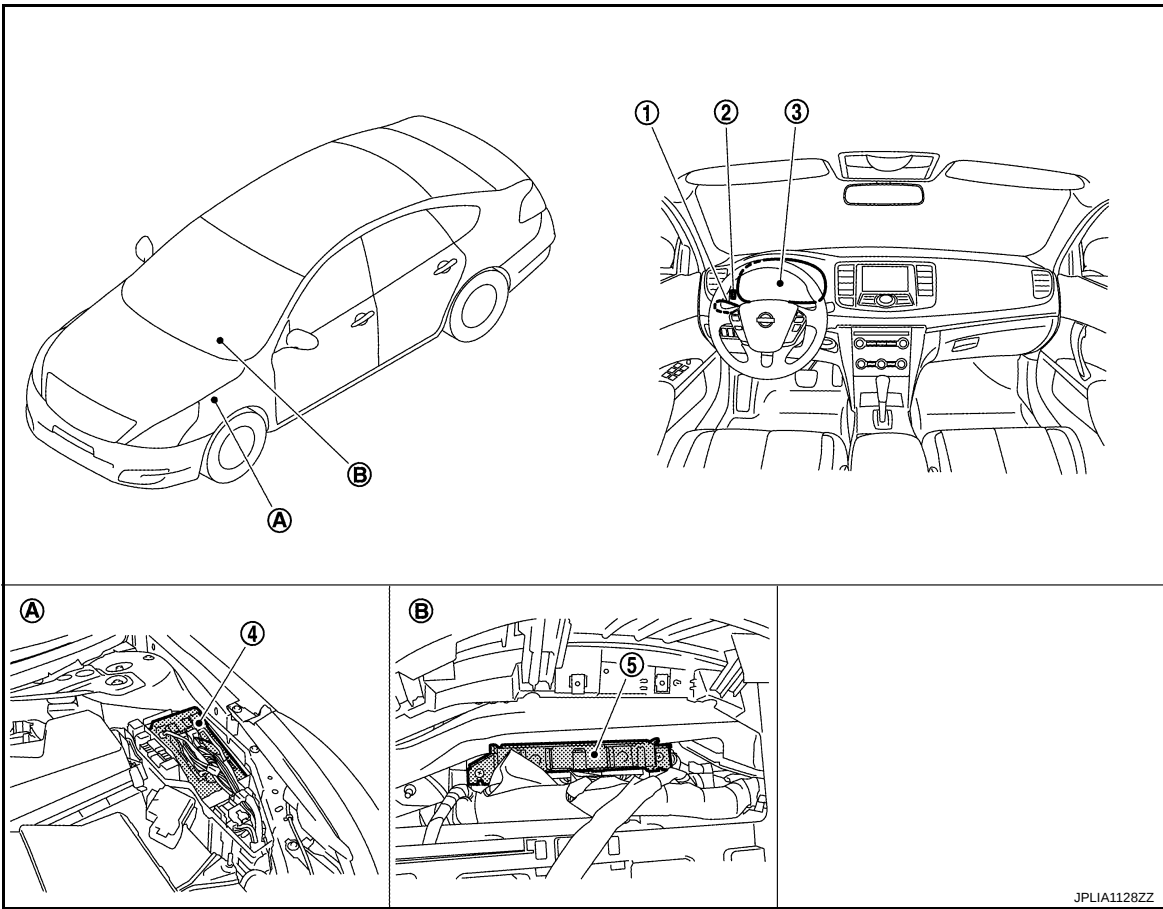
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (With auto light system)
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter dims the meter illumination according to position light request signal.

ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003774549



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

Component Description

INFOID:000000003774550

Part	Description
BCM	• 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	Illuminates the meter illumination according to the request signal from BCM (with CAN communication).
Combination switch (Lighting & turn signal switch)	Refer to BCS-8. "System Diagram" .

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000003894737

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	- 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.

×: Applicable item

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

NOTE:

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

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

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

CONSULT screen terms	Description
SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK".)
SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
LOCK>ACC	While turning power supply position from "LOCK" to "ACC"
ACC>ON	While turning power supply position from "ACC" to "IGN"
RUN>ACC	While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is 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

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

- The number is 0 when a malfunction is detected 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

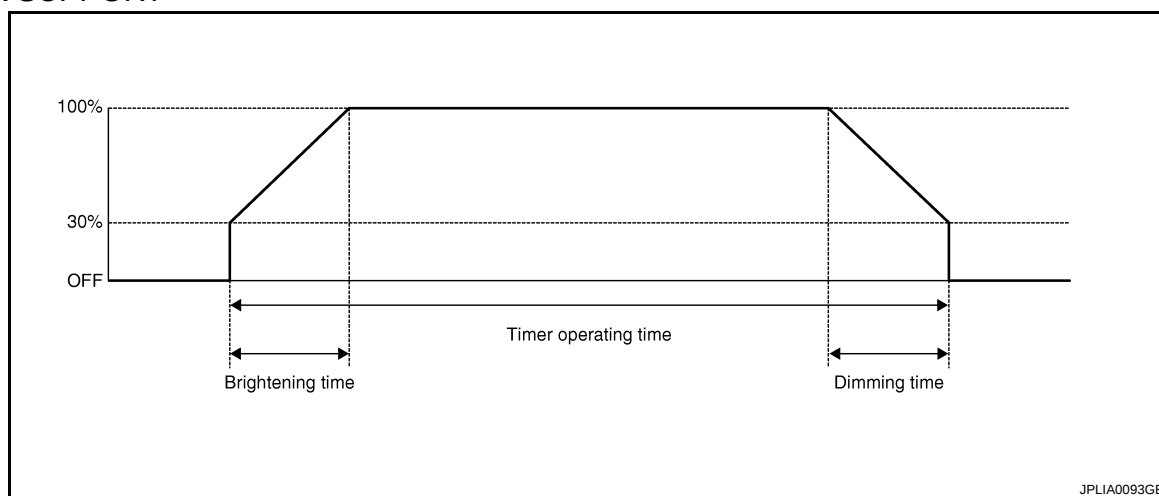
DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

INFOID:000000003774552

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)

< FUNCTION DIAGNOSIS >

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
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch
KEY CYL LK-SW [On/Off]	NOTE: The item is indicated, but not monitored.
KEY CYL UN-SW [On/Off]	NOTE: The item is indicated, but not monitored.
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp 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	Outputs the trunk room lamp control signal to turn trunk room lamp ON.
	Off	Stops the trunk room lamp control signal to turn trunk room lamp OFF.

BATTERY SAVER

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

INFOID:000000003774553

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)

< FUNCTION DIAGNOSIS >

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
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
CDL UNLOCK SW [On/Off]	Unlock switch status received from door lock/unlock switch
KEY CYL LK-SW [On/Off]	NOTE: The item is indicated, but not monitored.
KEY CYL UN-SW [On/Off]	NOTE: The item is indicated, but not monitored.
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp 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.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000003894738

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	I
	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		Voltage (Approx.)
(+)	(-)	
BCM		Ground Battery voltage
Connector	Terminal	
M118	1	
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

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:000000003774555

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

Component Function Check

INFOID:000000003774556

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

ⓅCONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
 - Map lamp
 - Personal lamp
 - Step lamp
 - Vanity mirror lamp
 - Trunk 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-20. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003774557

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

ⓅCONSULT-III ACTIVE TEST

1. Turn 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 ground.

Terminals		Test item	Voltage (Approx.)
(+)	(-)		
BCM		BATTERY SAVER	
Connector	Terminal		
M119	4	Off	0 V
		On	Battery voltage

Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace BCM.

2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

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

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

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	Existed
		Personal lamp	R21	1	
		Vanity mirror lamp (driver side)	R24	2	
		Vanity mirror lamp (passenger side)	R10	2	
		Trunk room lamp	B91	1	
		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 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.

INL

INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000003774558

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:000000003774559

NOTE:

Replace the personal lamp assembly if the map lamp is turned ON but the personal lamp LH and RH are not turn ON.

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

ⒺCONSULT-III ACTIVE TEST

1. Switch the map lamp switch to DOOR.
2. Turn 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-22. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003774560

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

Ⓔ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 and map lamp connector.
3. Check continuity between BCM harness connector and map lamp harness connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M119	19	R19	2	Existed

Does continuity exist?

YES >> Replace the map lamp.

NO >> Repair the harnesses or connectors.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and map 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.

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STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

STEP LAMP CIRCUIT

Description

INFOID:000000003774561

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

Component Function Check

INFOID:000000003774562

CAUTION:

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

- Interior room lamp power supply
- Step lamp bulb

1.CHECK STEP LAMP OPERATION

CONSULT-III ACTIVE TEST

1. Turn 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-24, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003774563

1.CHECK STEP LAMP OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove the step lamp bulbs (driver side and passenger side).
3. Turn 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 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 ignition switch OFF.
2. Disconnect BCM connector, and step lamp connector.
3. Check continuity between BCM harness connector and step lamp harness connector.

STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

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

Does continuity exist?

YES >> Replace step lamp.

NO >> Repair harnesses or connectors.

3.CHECK STEP LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M119	7		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

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TRUNK ROOM LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

TRUNK ROOM LAMP CIRCUIT

Description

INFOID:000000003812232

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

Component Function Check

INFOID:000000003812233

CAUTION:

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

- Interior room lamp power supply
- Trunk room lamp bulb

1.CHECK TRUNK ROOM LAMP OPERATION

CONSULT-III ACTIVE TEST

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

On : Trunk room lamp ON

Off : Trunk room lamp OFF

Does the trunk room lamp turn ON/OFF?

YES >> Trunk room lamp circuit is normal.

NO >> Refer to [INL-26, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003812234

1.CHECK TRUNK ROOM LAMP OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove trunk room lamp bulb.
3. Turn ignition switch ON.
4. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
5. With operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item	Continuity
Connector	Terminal		LUGGAGE LAMP TEST	
M120	30		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 TRUNK ROOM LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and trunk room lamp connector.
3. Check continuity between BCM harness connector and trunk room lamp harness connector.

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M120	30	B91	2	Existed

Does continuity exist?

YES >> Replace trunk room lamp.

TRUNK ROOM LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

NO >> Repair harnesses or connectors.

3.CHECK TRUNK ROOM LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and trunk room lamp connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M120	30		Not existed

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> Replace BCM.

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PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< COMPONENT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:000000003774564

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

Component Function Check

INFOID:000000003774565

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-28, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003774566

1.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 ground.

Terminals		Test item	Voltage (Approx.)		
(+)	(-)				
BCM		ENGINE SW ILLUMI			
Connector	Terminal				
M123	133			ON	9.5 V
				OFF	0 V

Is the measurement value normal?

YES >> GO TO 2.

NO >> GO TO 3.

2.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 >> GO TO 4.

NO >> Repair the harness or the connector.

3.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 push-button ignition switch harness connector.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< COMPONENT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M123	133		Not existed

Does the continuity exist?

YES >> Repair the harness or the connector.

NO >> Replace BCM.

4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

Check continuity between the push-button ignition switch harness connector and ground.

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M101	2		Existed

Does the continuity exist?

YES >> Replace push-button ignition switch.

NO >> Repair the harness or the connector.

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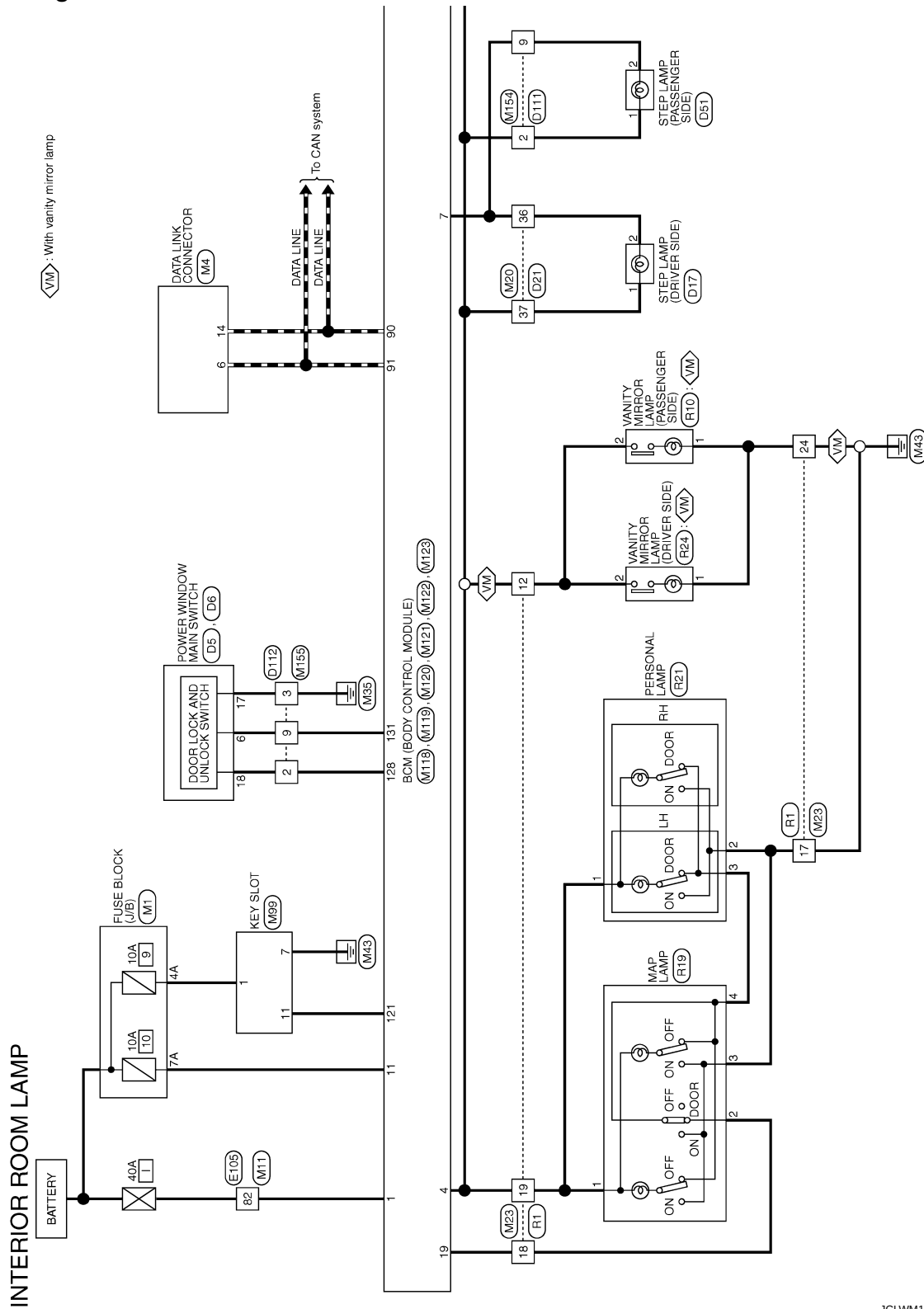
INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram - INTERIOR ROOM LAMP -

INFOID:000000003774567

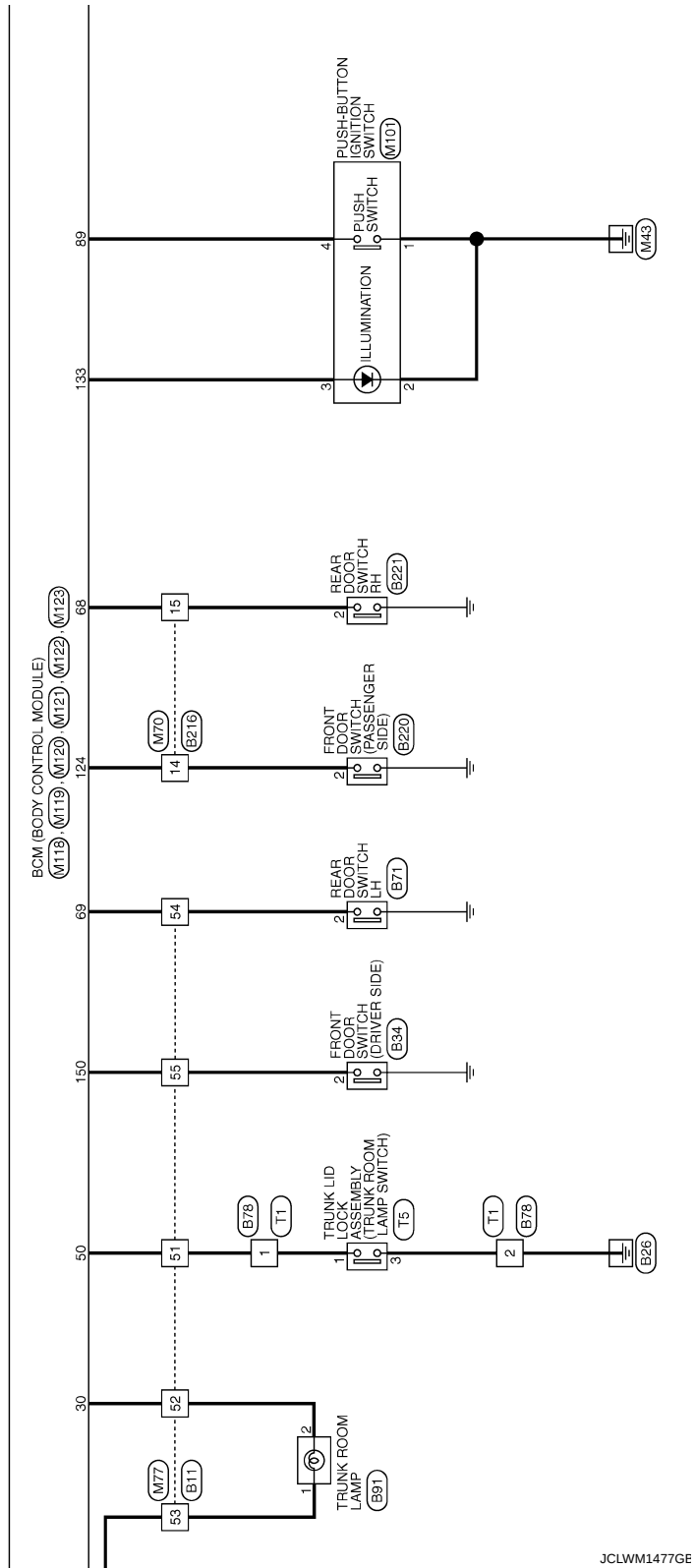


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INTERIOR ROOM LAMP CONTROL SYSTEM

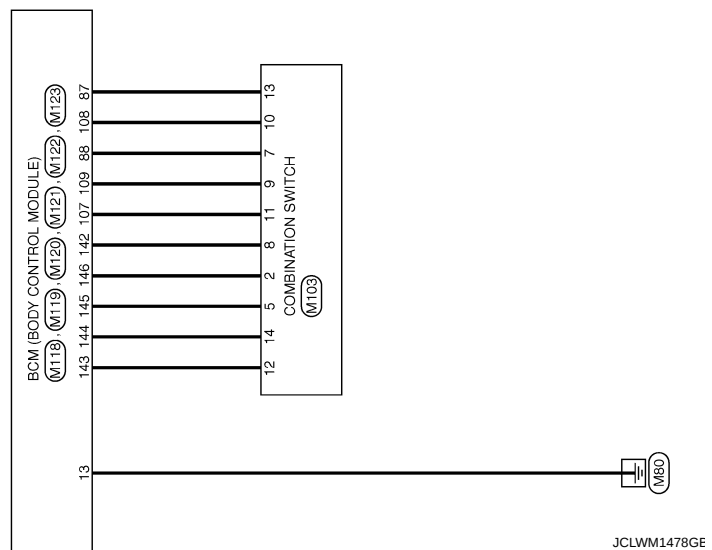
< COMPONENT DIAGNOSIS >



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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

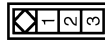


INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS19



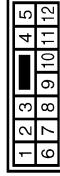
Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



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



Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	NS12MF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
51	R	-
52	W	-
53	L	-
54	BR	-
55	SB	-

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

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

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

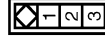
Connector No.	B91
Connector Name	TRUNK ROOM LAMP
Connector Type	S02FW-US



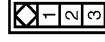
Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS



Connector No.	B220
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Connector No.	B221
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



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

Terminal No.	Color of Wire	Signal Name [Specification]
14	R	-
15	W	-

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

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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
6	LG	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30FW-CS



17	18	19
----	----	----

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

Connector No.	D17
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TB02FW



21

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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
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Terminal No.	Color of Wire	Signal Name [Specification]
36	O	-
37	G	-

Connector No.	D51
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW



21

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

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
9	R	-

Connector No.	D112
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-
3	B	-
9	LG	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70MW-CS10-M3



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
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Terminal No.	Color of Wire	Signal Name [Specification]
82	LG	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

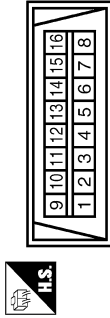
INTERIOR ROOM LAMP

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



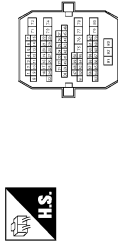
Terminal No.	Color of Wire	Signal Name [Specification]
4A	G/Y	-
7A	Y/R	-

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



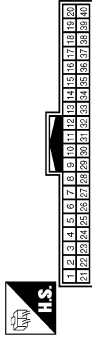
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH10FW-CS10-M3



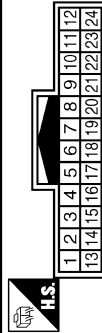
Terminal No.	Color of Wire	Signal Name [Specification]
82	W/B	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH

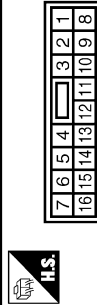


Terminal No.	Color of Wire	Signal Name [Specification]
36	R/W	-
37	P/W	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS



Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH8JFW-CS19



Connector No.	M89
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
12	P/W	-
17	B	-
18	Y	-
19	P/W	-
24	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
14	R/B	-
15	R/W	-

Terminal No.	Color of Wire	Signal Name [Specification]
51	W	-
52	V/W	-
53	P/W	-
54	R/B	-
55	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/Y	BAT
7	B	GND
11	Y	KEY SWITCH SIGNAL

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

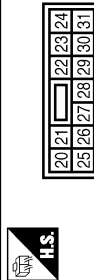
INTERIOR ROOM LAMP

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08BR



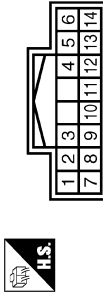
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	W	-
4	BR	-

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



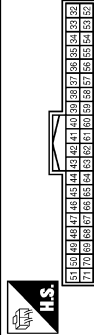
Terminal No.	Color of Wire	Signal Name [Specification]
30	V/W	TRUNK LAMP OUTPUT

Connector No.	M103
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	G/Y	OUTPUT 4
5	LG/R	OUTPUT 3
7	R/G	INPUT 3
8	LG/B	OUTPUT 5
9	R/B	INPUT 2
10	P/B	INPUT 4
11	R/W	INPUT 1
12	L/W	OUTPUT 1
13	R/Y	INPUT 5
14	G/B	OUTPUT 2

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FY-NH



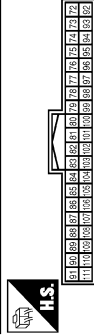
Terminal No.	Color of Wire	Signal Name [Specification]
50	W	TRUNK SW
68	R/W	REAR RH DOOR SW
69	R/B	REAR LH DOOR SW

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



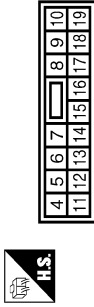
Terminal No.	Color of Wire	Signal Name [Specification]
1	W/B	BAT (F/L)

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



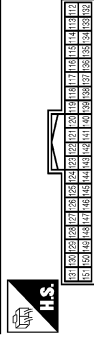
Terminal No.	Color of Wire	Signal Name [Specification]
87	R/Y	COMBI SW INPUT 5
88	R/G	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
107	R/W	COMBI SW INPUT 1
108	P/B	COMBI SW INPUT 4
109	R/B	COMBI SW INPUT 2

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	P/W	INTERIOR ROOM LAMP POWER SUPPLY
7	R/W	STEP LAMP OUTPUT
11	Y/R	BAT (FUSE)
13	B	GND
19	Y	ROOM LAMP TIMER CONTROL

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



Terminal No.	Color of Wire	Signal Name [Specification]
121	Y	KEY SLOT SW
124	R/B	PASSENGER DOOR SW
128	GR	CENTRAL LOCK SW
131	GR/R	CENTRAL UNLOCK SW
133	W	PUSH-BUTTON IGNITION SW ILL POWER
142	LG/B	COMBI SW OUTPUT 5
143	L/W	COMBI SW OUTPUT 1
144	G/B	COMBI SW OUTPUT 2
145	LG/R	COMBI SW OUTPUT 3
146	G/Y	COMBI SW OUTPUT 4
150	SS	DRIVER DOOR SW

JCLWM1482GE

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP

Connector No.	M154
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



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

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

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-
3	B/P	-
9	GR/R	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name [Specification]
12	V	-
17	B/W	-
18	Y	-
19	O	-
24	B/L	-

Connector No.	R10
Connector Name	VANITY MIRROR LAMP (PASSENGER SIDE)
Connector Type	MCA02FW



1	2
---	---

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

Connector No.	R19
Connector Name	MAP LAMP
Connector Type	TK06FGY



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

Connector No.	R21
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH



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

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

Connector No.	R24
Connector Name	VANITY MIRROR LAMP (DRIVER SIDE)
Connector Type	MCA02FW



1	2
---	---

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

Connector No.	T1
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



5	4		3	2	1	
12	11	10	9	8	7	6

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

JCLWM1483GE

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP		
Connector No.	T5	
Connector Name	TRUNK LID LOCK ASSEMBLY	
Connector Type	TB03FW	



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

JCLWM1484GE

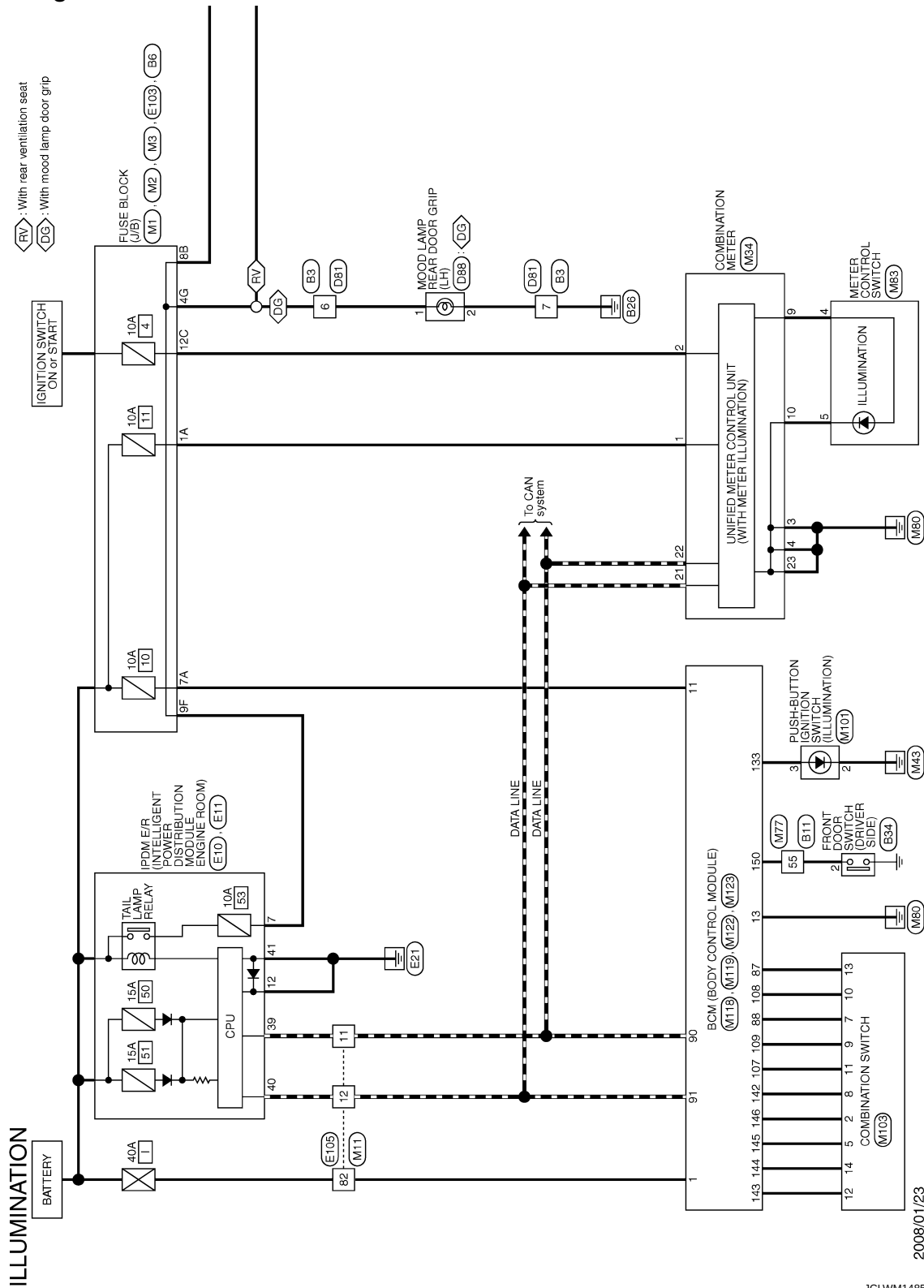
ILLUMINATION

< COMPONENT DIAGNOSIS >

ILLUMINATION

Wiring Diagram - ILLUMINATION -

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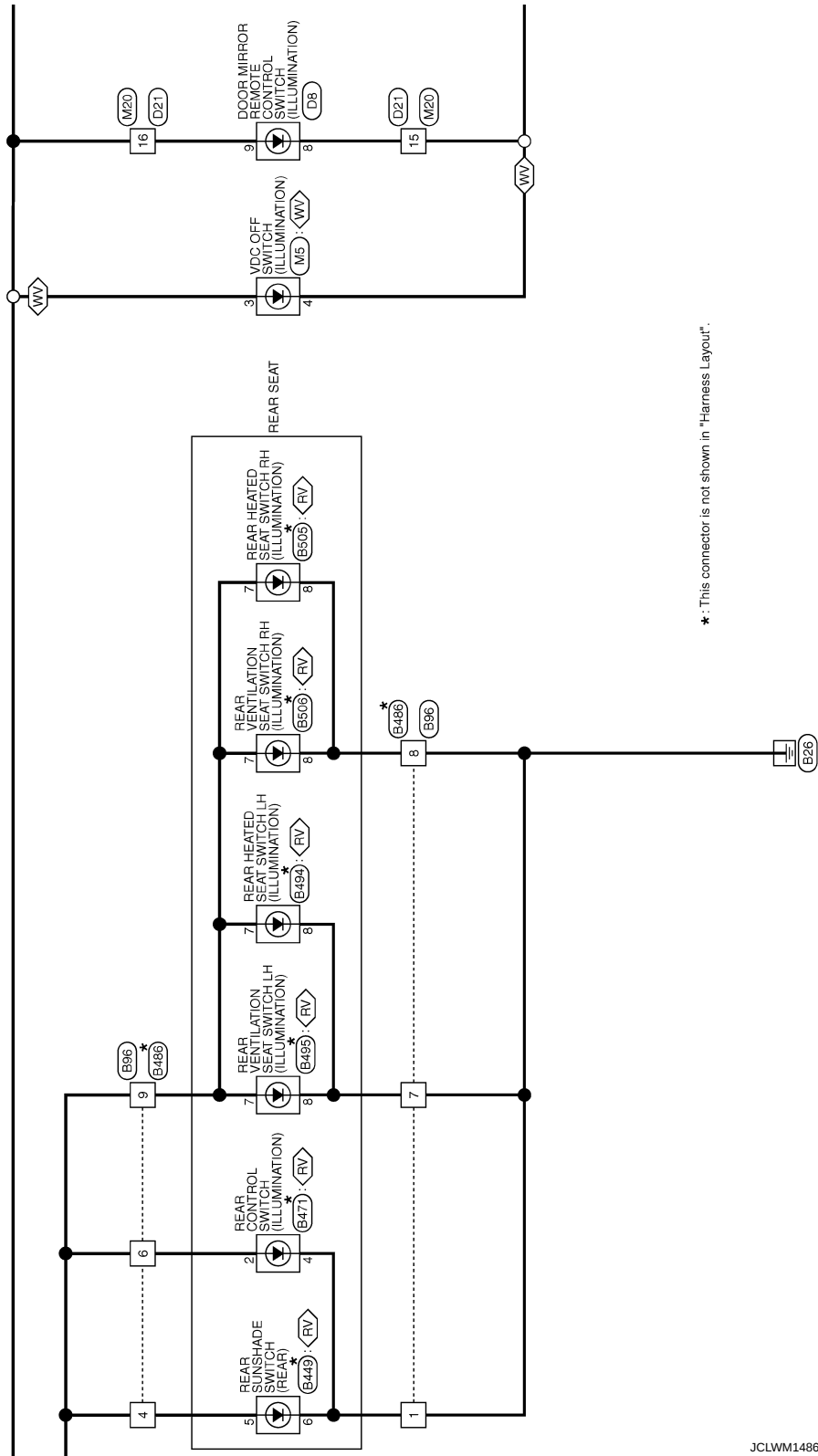


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ILLUMINATION

< COMPONENT DIAGNOSIS >

RV : With rear ventilation seat
VV : With VDC



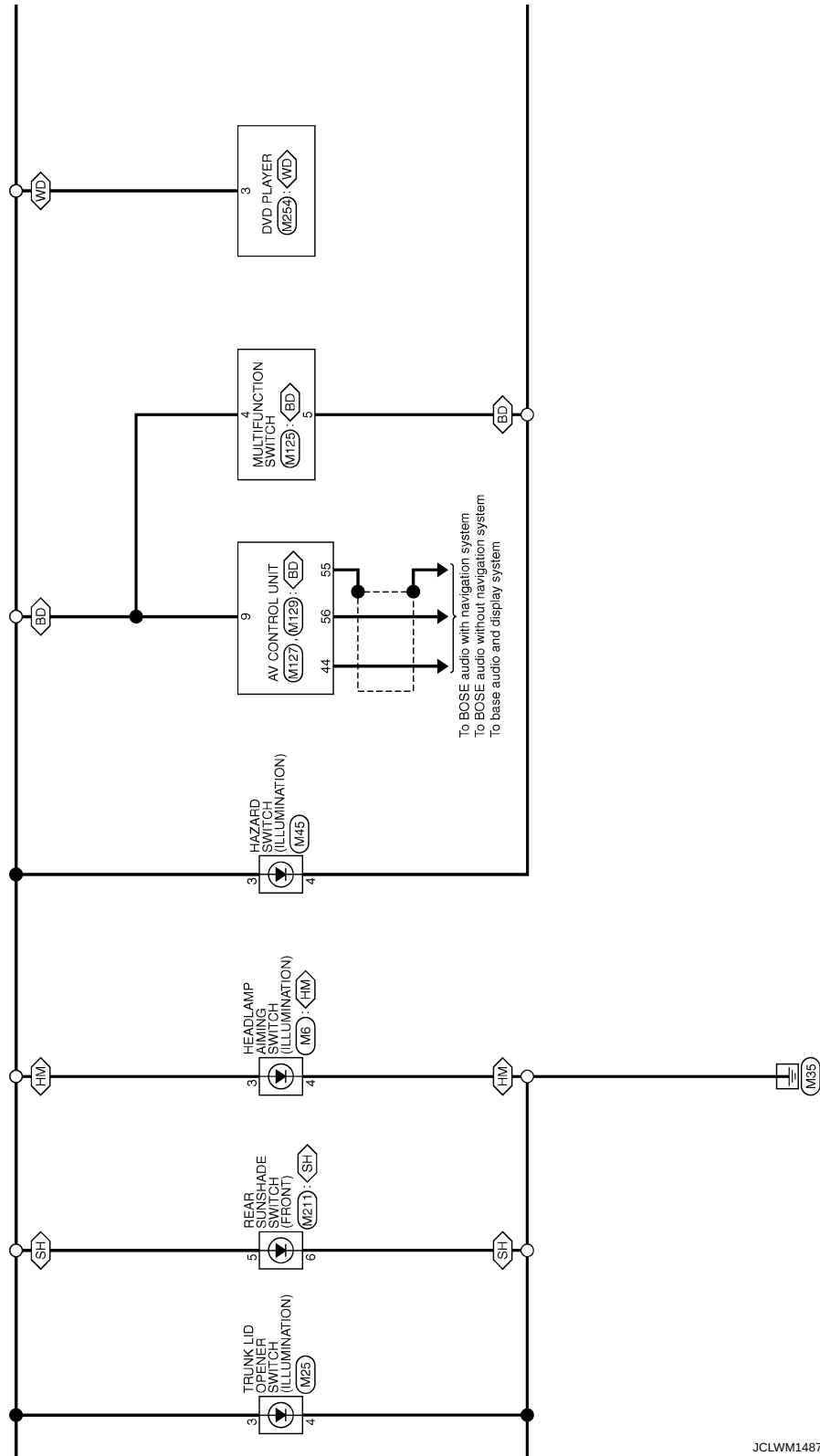
★ : This connector is not shown in "Harness Layout".

JCLWM1486GE

ILLUMINATION

< COMPONENT DIAGNOSIS >

<HM> : With headlamp manual aiming
 <SH> : With rear sunshade
 <WD> : With DVD player
 <BD> : With BOSE system or base audio and display system



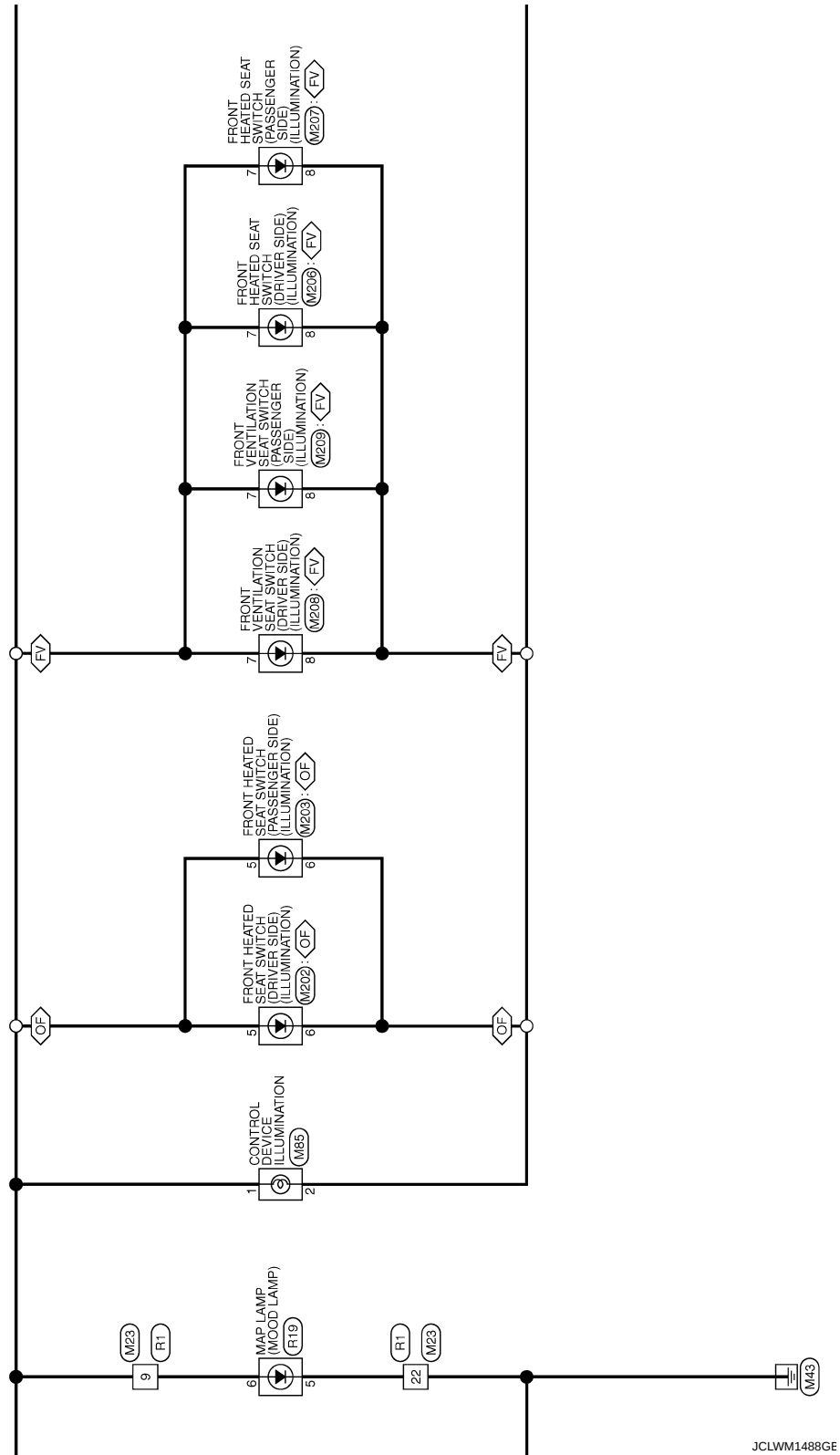
JCLWM1487GE

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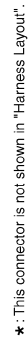
ILLUMINATION

< COMPONENT DIAGNOSIS >

 : With front ventilation seat
 : Without front ventilation seat



< COMPONENT DIAGNOSIS >



JCLWM1489GE

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< COMPONENT DIAGNOSIS >

ILLUMINATION

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
7	B/W	-

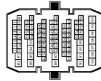
Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FER-CS



5	6	7	8	9	10
11	12	13	14	15	16
17	18	19	20	21	22

Terminal No.	Color of Wire	Signal Name [Specification]
4G	L	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH20MW-CS19



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

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	AG3EW



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

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

Connector No.	B36
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
4	L	-
6	L	-
7	B	-
8	B	-
9	L	-

Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
11	LG	-

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



1	2	3	4
5	6	7	8
9	10		

Terminal No.	Color of Wire	Signal Name [Specification]
6	LG	-
7	B/Y	-

Connector No.	B237
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

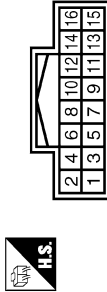


1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
21	BR	-

ILLUMINATION

Connector No.	B254
Connector Name	NAVI CONTROL UNIT
Connector Type	TH16FW-NH



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

Connector No.	B449
Connector Name	REAR SUNSHADE SWITCH (REAR)
Connector Type	TK08FW-IV



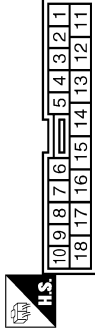
Terminal No.	Color of Wire	Signal Name [Specification]
5	R/B	-
6	Y	-

Connector No.	B471
Connector Name	REAR CONTROL SWITCH
Connector Type	TH44FW



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

Connector No.	B466
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
4	R/B	-
6	L/G	-
7	B/R	-
8	L	-
9	P	-

Connector No.	B494
Connector Name	REAR HEATED SEAT SWITCH LH
Connector Type	TK10FW



Connector No.	B495
Connector Name	REAR VENTILATION SEAT SWITCH LH
Connector Type	TK08FW



Connector No.	B505
Connector Name	REAR HEATED SEAT SWITCH RH
Connector Type	TK10FW



Connector No.	B506
Connector Name	REAR VENTILATION SEAT SWITCH RH
Connector Type	TK08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	-
8	B/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
7	P	-
8	B/R	-

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

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

ILLUMINATION

Connector No.	D8
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW



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

Terminal No.	Color of Wire	Signal Name [Specification]
8	W	-
9	B	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-HH



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
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Terminal No.	Color of Wire	Signal Name [Specification]
15	W	-
16	B	-

Connector No.	D47
Connector Name	MOOD LAMP FRONT DOOR GRIP (PASSENGER SIDE)
Connector Type	TK02FGY



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

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



4	3		2	1	
10	9	8	7	6	5

Terminal No.	Color of Wire	Signal Name [Specification]
6	O	-
7	B	-

Connector No.	D88
Connector Name	MOOD LAMP REAR DOOR GRIP (LH)
Connector Type	TK02FGY



2	1
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Connector No.	D108
Connector Name	MOOD LAMP REAR DOOR GRIP (RH)
Connector Type	TK02FGY



2	1
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Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



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

Connector No.	D155
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



4	3		2	1	
10	9	8	7	6	5

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
4	B	-
5	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	LG	-
7	B	-

< COMPONENT DIAGNOSIS >

ILLUMINATION

Connector No.	E10
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	-
12	B/W	-

Connector No.	E11
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-4H



Terminal No.	Color of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B	-

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
9F	GR	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH70MM-CS10-M3



Terminal No.	Color of Wire	Signal Name [Specification]
11	P	-
12	L	-
82	L/G	-

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



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



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M5
Connector Name	VDC OFF SWITCH
Connector Type	TK06FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1A	W/L	-
7A	Y/R	-

Terminal No.	Color of Wire	Signal Name [Specification]
8B	R/W	-

Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	R/W	-
4	B	-

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ILLUMINATION

< COMPONENT DIAGNOSIS >

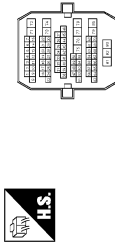
ILLUMINATION

Connector No.	M6
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	A04FW



Terminal No.	Color of Wire	Signal Name [Specification]
3	R/W	-
4	B	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH70FW-CS/D-M3



Terminal No.	Color of Wire	Signal Name [Specification]
11	P	-
12	L	-
82	W/B	-

Connector No.	M15
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M16
Connector Name	A/C DISPLAY
Connector Type	TH10FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
8	R	ILL+
9	B/W	ILL-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



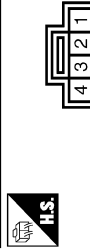
Terminal No.	Color of Wire	Signal Name [Specification]
15	B/P	-
16	R/L	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
9	R	-
22	B	-

Connector No.	M25
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
3	R/W	-
4	B	-

Connector No.	M32
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FY-EX-IV

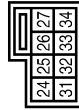


Terminal No.	Color of Wire	Signal Name [Specification]
23	R/L	-

JCLWM1494GE

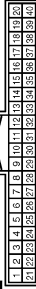
ILLUMINATION

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-IV



Terminal No.	26
Color of Wire	B
Signal Name [Specification]	—

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	W/L	BAT
2	O	IGN
3	B	GROUND
4	B	GROUND
9	GR/W	SW ILL POWER
10	O/L	METER CONTROL SWITCH GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND

Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS



Terminal No.	11
Color of Wire	R
Signal Name [Specification]	—

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW



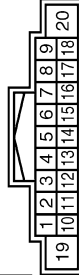
Terminal No.	Color of Wire	Signal Name [Specification]
3	R/W	—
4	B	—

Connector No.	M83
Connector Name	METER CONTROL SWITCH
Connector Type	TH08MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	GR/W	SW ILL POWER
5	O/L	SE ILL GND

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



Terminal No.	Color of Wire	Signal Name [Specification]
9	R/L	ILL

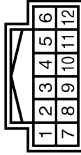
Connector No.	M65
Connector Name	CONTROL DEVICE ILLUMINATION
Connector Type	TK02FBR



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

ILLUMINATION

Connector No.	M95	Connector No.	M118
Connector Name	A/C CONTROL	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH12FW-NH	Connector Type	M03FB-LC

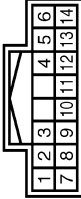


Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
5	R/L	ILL+	1	W/B	BAT (F/L)
6	B/W	ILL-			



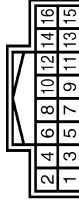
Connector No.	M101	Connector No.	M103
Connector Name	PUSH-BUTTON IGNITION SWITCH	Connector Name	COMBINATION SWITCH
Connector Type	TK03FBR	Connector Type	TH18FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
2	B	-	2	G/Y	OUTPUT 4
3	W	-	5	LG/R	OUTPUT 3



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
2	G/Y	OUTPUT 4	7	R/G	INPUT 3
5	LG/R	OUTPUT 3	8	LG/B	OUTPUT 5
7	R/G	INPUT 3	9	R/B	INPUT 2
8	LG/B	OUTPUT 5	10	P/B	INPUT 4
9	R/B	INPUT 2	11	R/W	INPUT 1
10	P/B	INPUT 4	12	L/W	OUTPUT 1
11	R/W	INPUT 1	13	R/Y	INPUT 5
12	L/W	OUTPUT 1	14	G/B	OUTPUT 2
13	R/Y	INPUT 5			
14	G/B	OUTPUT 2			

Connector No.	M125
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



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



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



Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
4	R/W	ILL			
5	B	ILL CONT(GND)			

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
133	W	PUSH-BUTTON IGNITION SW ILL POWER	142	LG/B	COMBI SW OUTPUT 5
142	LG/B	COMBI SW OUTPUT 5	143	L/W	COMBI SW OUTPUT 1
143	L/W	COMBI SW OUTPUT 1	144	G/B	COMBI SW OUTPUT 2
144	G/B	COMBI SW OUTPUT 2	145	LG/R	COMBI SW OUTPUT 3
145	LG/R	COMBI SW OUTPUT 3	146	G/Y	COMBI SW OUTPUT 4
146	G/Y	COMBI SW OUTPUT 4	150	SB	DRIVER DOOR SW

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
87	R/Y	COMBI SW INPUT 5			
88	R/G	COMBI SW INPUT 3			
90	P	CAN-L			
91	L	CAN-H			
107	R/W	COMBI SW INPUT 1			
108	P/B	COMBI SW INPUT 4			
109	R/B	COMBI SW INPUT 2			

Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
11	Y/R	BAT (FUSE)			
13	B	GND			

ILLUMINATION

Connector No.	M126
Connector Name	AUDIO DISPLAY UNIT
Connector Type	TH12FW-NH



1	2	3	4	5	6
7	8	9	10	11	12

Terminal No.	10
Color of Wire	R/L
Signal Name [Specification]	ILL

Connector No.	M127
Connector Name	AV CONTROL UNIT
Connector Type	TH18FW-CS2



1	2	3	4	5	6	7	8	9	
10	11	12	13	14	15	16	17	18	
19									20

Terminal No.	9
Color of Wire	R/L
Signal Name [Specification]	ILL

Connector No.	M129
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



47	48	45	44	43	42	41	40	39	38	37	36
59	58	57	56	55	54	53	52	51	50	49	48

Terminal No.	44
Color of Wire	G
Signal Name [Specification]	COMM (DISP->CONT)
Terminal No.	55
Color of Wire	SHIELD
Signal Name [Specification]	SHIELD
Terminal No.	56
Color of Wire	R
Signal Name [Specification]	COMM (CONT->DISP)

Connector No.	M154
Connector Name	WIRE TO WIRE
Connector Type	NS18MF-CS



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

Terminal No.	4
Color of Wire	B
Signal Name [Specification]	-
Terminal No.	5
Color of Wire	R/L
Signal Name [Specification]	-

Connector No.	M156
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Connector No.	M202
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	NS08FW-CS



5		6
4	2	1
		3

Connector No.	M203
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE) (WITHOUT FRONT VENTILATION SEAT)
Connector Type	NS08FB-CS



5		6
4	2	1
		3

Connector No.	M206
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	TK10FW



7	2	5		
4	1	8	3	6

Terminal No.	21
Color of Wire	R/L
Signal Name [Specification]	-

Terminal No.	5
Color of Wire	R
Signal Name [Specification]	-
Terminal No.	6
Color of Wire	B/Y
Signal Name [Specification]	-

Terminal No.	5
Color of Wire	R
Signal Name [Specification]	-
Terminal No.	6
Color of Wire	B/Y
Signal Name [Specification]	-

Terminal No.	7
Color of Wire	R
Signal Name [Specification]	-
Terminal No.	8
Color of Wire	B/Y
Signal Name [Specification]	-

< COMPONENT DIAGNOSIS >

ILLUMINATION

Connector No.	M207
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE) (WITH FRONT VENTILATION SEAT)
Connector Type	TK08FW



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

Connector No.	M208
Connector Name	FRONT VENTILATION SEAT SWITCH (DRIVER SIDE)
Connector Type	TK08FW



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

Connector No.	M209
Connector Name	FRONT VENTILATION SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FW



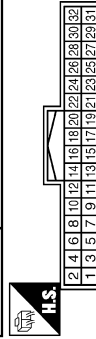
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	B/Y	-

Connector No.	M211
Connector Name	REAR SUNSHADE SWITCH (FRONT)
Connector Type	TK08FW-IV



Terminal No.	Color of Wire	Signal Name [Specification]
5	R/W	-
6	B	-

Connector No.	M254
Connector Name	DVD PLAYER
Connector Type	TH02FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	R/L	ILL

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



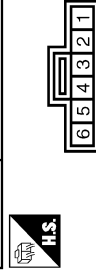
Terminal No.	Color of Wire	Signal Name [Specification]
19	-	-
20	-	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
9	L	-
22	Y	-

Connector No.	R19
Connector Name	MAP LAMP
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
6	L	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000003959702

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
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
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On
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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
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	NOTE: The item is indicated, but not monitored.	Off
KEY CYL UN-SW	NOTE: The item is indicated, but not monitored.	Off
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: At model with BOSE audio system this item is indicated, but is not monitored.	Rear window defogger switch is OFF	Off
	Rear window defogger switch is ON	On
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
	Trunk lid opened	On
RKE-LOCK	LOCK button of the key is not pressed	Off
	LOCK button of the key is pressed	On
RKE-UNLOCK	UNLOCK button of the key is not pressed	Off
	UNLOCK button of the key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the key is not pressed	Off
	TRUNK OPEN button of the key is pressed	On
RKE-PANIC	NOTE: The item is indicated, but not monitored.	Off
RKE-P/W OPEN	NOTE: The item is indicated, but not monitored.	Off
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the 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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	A
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	B
REQ SW -BD/TR	Trunk lid opener request switch is not pressed	Off	C
	Trunk lid opener request switch is pressed	On	
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off	D
	Push-button ignition switch (push switch) is pressed	On	
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off	E
	Ignition switch in ON position	On	
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off	F
BRAKE SW 1	The brake pedal is not depressed	On	G
	The brake pedal is depressed	Off	
DETE/CANCL SW	Selector lever in P position	Off	H
	Selector lever in any position other than P	On	
SFT PN/N SW	Selector lever in any position other than P and N	Off	I
	Selector lever in P or N position	On	
S/L -LOCK	Steering is locked	Off	J
	Steering is unlocked	On	
S/L -UNLOCK	Steering is unlocked	Off	K
	Steering is locked	On	
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off	INL
	Ignition switch in ON position	On	
UNLK SEN -DR	Driver door is unlocked	Off	M
	Driver door is locked	On	
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off	N
	Push-button ignition switch (push-switch) is pressed	On	
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off	O
	Ignition switch in ON position	On	
DETE SW -IPDM	Selector lever in P position	Off	P
	Selector lever in any position other than P	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	Steering is locked	Off	
	Steering is unlocked	On	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

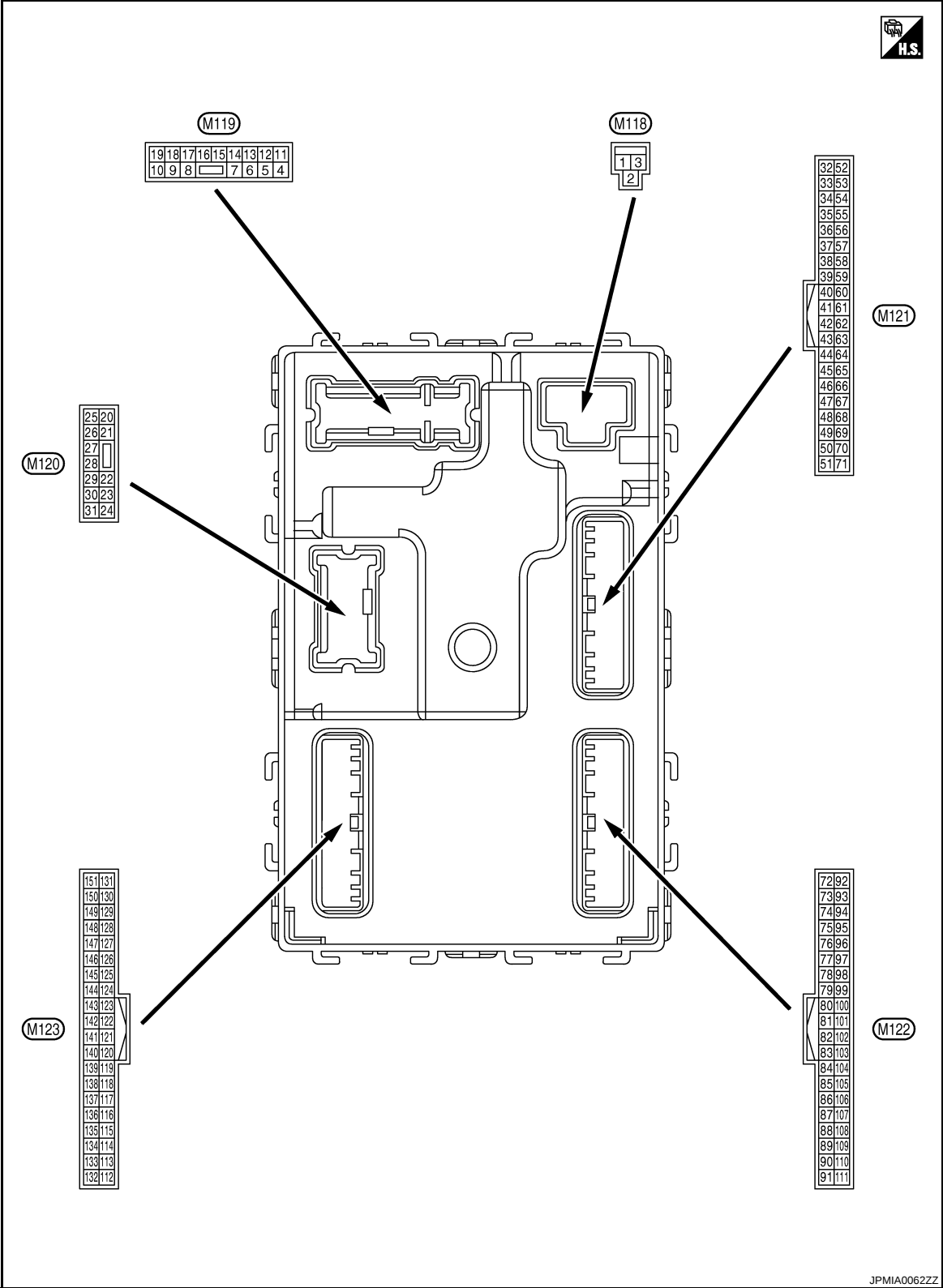
Monitor Item	Condition	Value/Status
S/L UNLK-IPDM	Steering is unlocked	Off
	Steering is locked	On
S/L RELAY-REQ	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer 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	Ignition switch in ACC or ON position	Reset
	Ignition switch in OFF position	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The key is not inserted into key slot	Off
	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—
CONFIRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done
TP 4	The ID of fourth key is not registered to BCM	Yet
	The ID of fourth key is registered to BCM	Done
TP 3	The ID of third key is not registered to BCM	Yet
	The ID of third key is registered to BCM	Done

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
TP 2	The ID of second key is not registered to BCM	Yet
	The ID of second key is registered to BCM	Done
TP 1	The ID of first key is not registered to BCM	Yet
	The ID of first key is registered to BCM	Done

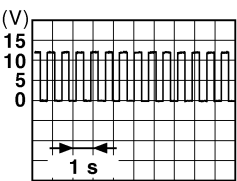
TERMINAL LAYOUT



BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

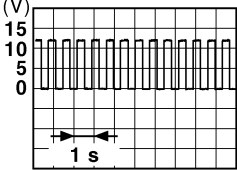
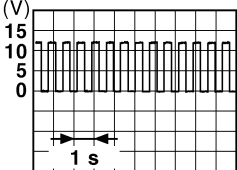
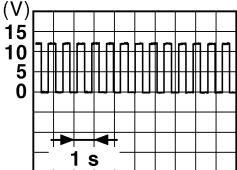
PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	—	Signal name	Input/ Output			
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (L/W)	Ground	P/W power supply (IGN)	Output	Ignition switch ON		Battery voltage
4 (P/W)	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/Y)	Ground	Passenger door UNLOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (R/W)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door UNLOCK	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
10 (G/Y)	Ground	Rear RH door and rear LH door UNLOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC or ON	0 V
17 (G/B)	Ground	Turn signal RH (Front and door mirror)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 6.5 V

PKID0926E

BCM (BODY CONTROL MODULE)

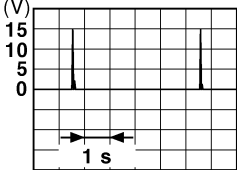
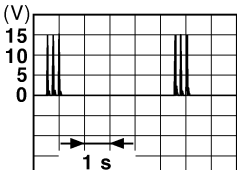
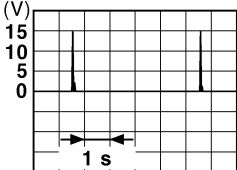
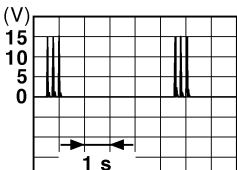
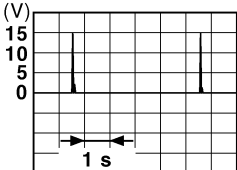
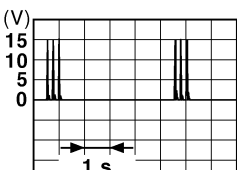
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
18 (G/Y)	Ground	Turn signal LH (Front and door mirror)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	
19 (Y)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
20 (G/B)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	
23 (R)	Ground	Trunk lid opening	Output	Trunk lid	OPEN (Trunk lid opener actuator is activated)	Battery voltage
					Other than OPEN (Trunk lid opener actuator is not activated)	0 V
24 (G)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	Battery voltage
25 (G/Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	
30 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	OFF	0 V
					ON	Battery voltage

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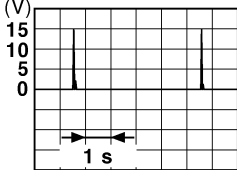
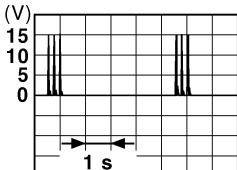
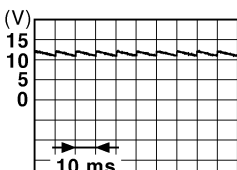
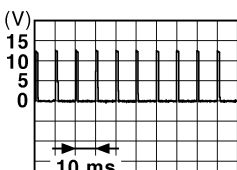
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
34 (B)	Ground	Trunk room antenna (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
35 (W)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
38 (L/O)	Ground	Rear bumper anten- na (-)	Output	When the trunk lid opener request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB

BCM (BODY CONTROL MODULE)

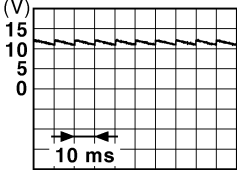
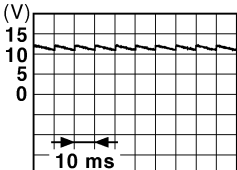
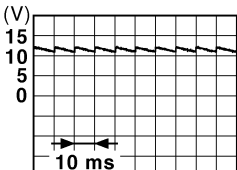
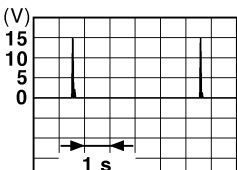
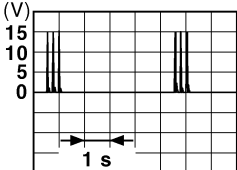
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
39 (BR/W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area	When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (BR/W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
50 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (When trunk lid closes)	 JPMIA0011GB 11.8 V
					ON (When trunk lid opens)	0 V
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 (G/R)	Ground	Trunk lid request switch	Input	Trunk lid request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
64 (GR)	Ground	Request switch buzzer	Output	Request switch buzzer	Sounding	0 V
					Not sounding	Battery voltage

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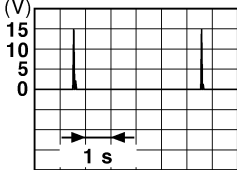
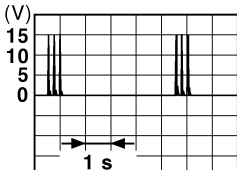
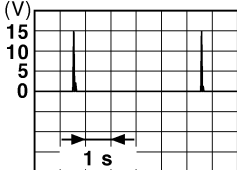
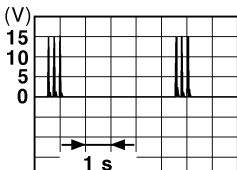
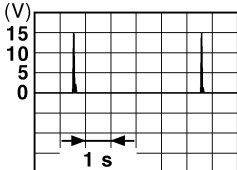
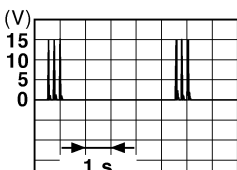
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
67 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0 V
					Not pressed	 JPMIA0011GB 11.8 V
68 (R/W)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes)	 JPMIA0011GB 11.8 V
					ON (When rear RH door opens)	0 V
69 (R/B)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)	 JPMIA0011GB 11.8 V
					ON (When rear LH door opens)	0 V
72 (B/R)	Ground	Room antenna 2 (-) (center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
73 (W/R)	Ground	Room antenna 2 (+) (center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
74 (B/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	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB
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	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB

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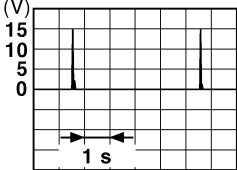
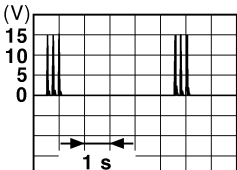
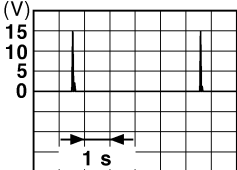
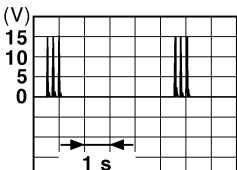
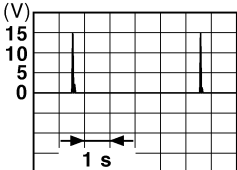
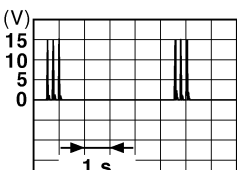
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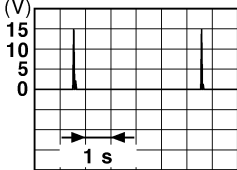
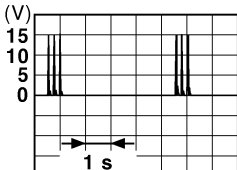
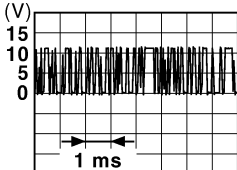
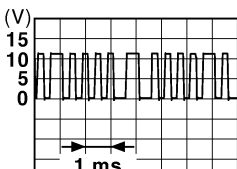
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB
77 (P)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detec- tion area	 JMKIA0063GB
78 (R)	Ground	Room antenna 1 (-) (instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

BCM (BODY CONTROL MODULE)

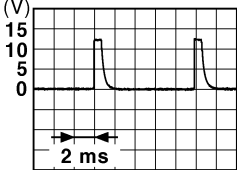
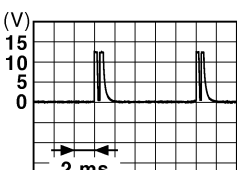
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
79 (G)	Ground	Room antenna 1 (+) (instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
80 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R/B)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
83 (L/O)	Ground	Remote keyless en- try receiver commu- nication	Input/ Output		During waiting	 JMKIA0064GB
					When operating either button on the key	 JMKIA0065GB

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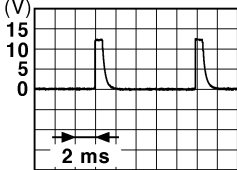
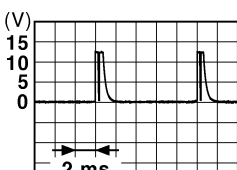
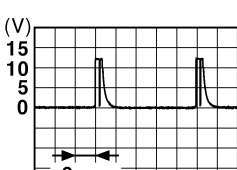
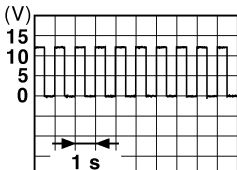
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
87 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Front fog lamp switch ON (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
					Rear fog lamp switch ON (Wiper intermittent dial 4)	 JPMIA0142GB 1.2 V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	 JPMIA0040GB 1.3 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

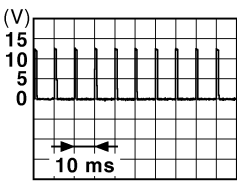
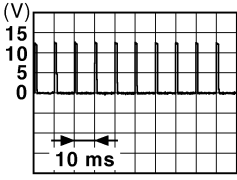
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
88 (R/G)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)  JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)  JPMIA0036GB 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)  JPMIA0037GB 1.3 V
					Any of the conditions be- low with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  JPMIA0040GB 1.3 V
89 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button igni- tion switch (push switch)	Pressed 0 V Not pressed Battery voltage
90 (P)	Ground	CAN-L	Input/ Output	—	—
91 (L)	Ground	CAN-H	Input/ Output	—	—
92 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Battery voltage
					Blinking  JPMIA0015GB 6.5 V
					ON 0 V

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
93 (Y)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON or ACC	0 V
95 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (Y/R)	Ground	Control device (detection switch) power supply	Output	—		Battery voltage
97 (L/O)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98 (G/R)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	Battery voltage
100 (P/L)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMA0016GB 1.0 V
101 (B/W)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMA0016GB 1.0 V
102 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
103 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
106 (G/Y)	Ground	Steering wheel lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V

BCM (BODY CONTROL MODULE)

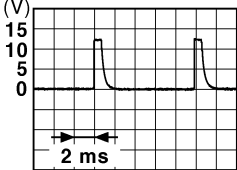
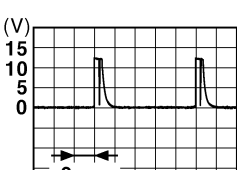
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
107 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	JPMA0041GB 1.4 V
					JPMA0037GB 1.3 V
					JPMA0036GB 1.3 V
					JPMA0038GB 1.3 V
					JPMA0039GB 1.3 V

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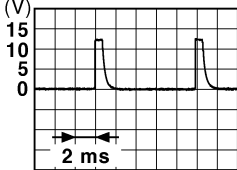
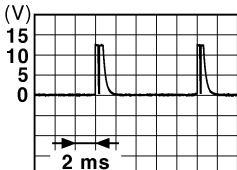
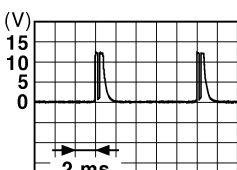
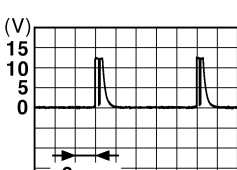
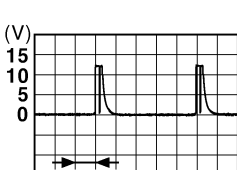
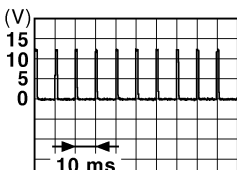
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
108 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch	 JPMA0041GB 1.4 V
				Lighting switch AUTO (Wiper intermittent dial 4)	 JPMA0038GB 1.3 V
				Lighting switch 1ST (Wiper intermittent dial 4)	 JPMA0036GB 1.3 V
				Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	 JPMA0039GB 1.3 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
109 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF  JPMIA0041GB 1.4 V
					Lighting switch PASS  JPMIA0037GB 1.3 V
					Lighting switch 2ND  JPMIA0036GB 1.3 V
					Front wiper switch INT  JPMIA0038GB 1.3 V
					Front wiper switch HI  JPMIA0040GB 1.3 V
110 (G/O)	Ground	Hazard switch	Input	Hazard switch	ON 0 V
					OFF  JPMIA0012GB 1.1 V

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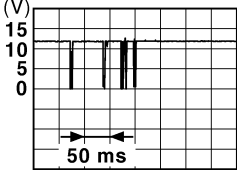
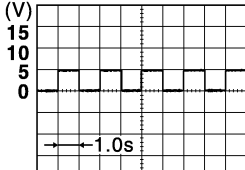
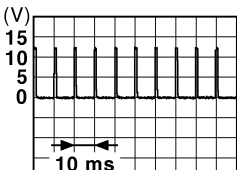
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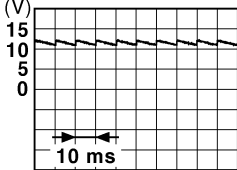
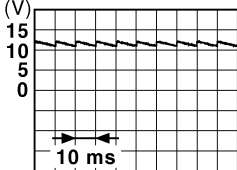
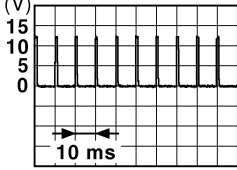
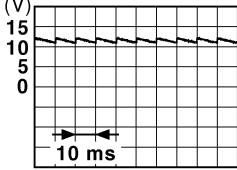
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
111 (L/Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	 JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113 (P/B)	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
115 (L)	Ground	Shock sensor	Input	Ignition switch	OFF	0 V
					ACC	5.0 V
					ON	 JPMIA1034GB
						2.5 V
116 (R/W)	Ground	Fuse check (Stop lamp switch)	Input	—		Battery voltage
118 (O/L)	Ground	Stop lamp switch	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
119 (G/W)	Ground	Front door lock as- sembly driver side (unlock sensor)	Input	Driver door	LOCK status (unlock sen- sor switch OFF)	 JPMIA0012GB
					UNLOCK status (unlock sensor switch ON)	0 V
121 (Y)	Ground	Key slot switch	Input	When the key is inserted into key slot		Battery voltage
				When the key is not inserted into key slot		0 V
122 (V/R)	Ground	ACC feedback	Input	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
123 (G/W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage

BCM (BODY CONTROL MODULE)

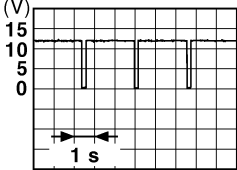
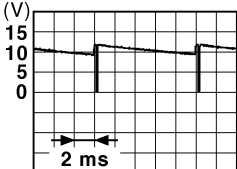
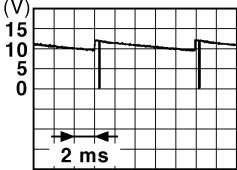
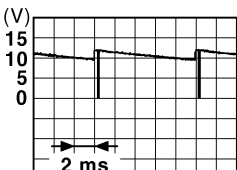
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
124 (R/B)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	 JPMIA0011GB 11.8 V
					ON (When passenger door opens)	0 V
128 (GR)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch [power window main switch or front power window switch (passenger side)]	NEUTRAL position	 JPMIA0011GB 11.8 V
					LOCK position	0 V
130* (GR/W)	Ground	Rear window defogger switch	Input	Ignition switch ON	Rear window defogger switch OFF	 JPMIA0012GB 1.1 V
					Rear window defogger switch ON	0 V
131 (GR/R)	Ground	Door lock and unlock switch UN-LOCK	Input	Door lock and unlock switch [power window main switch or front power window switch (passenger side)]	NEUTRAL position	 JPMIA0011GB 11.8 V
					UNLOCK position	0 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON	9.5 V
					OFF	0 V
134 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (V/W)	Ground	Receiver and sensor power supply output	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V
140 (R/G)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	Battery voltage
					Except P and N positions	0 V

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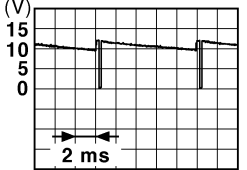
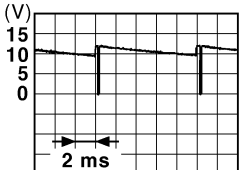
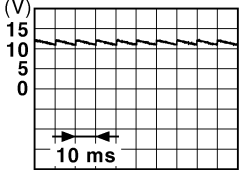
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
141 (L/O)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	Battery voltage
142 (LG/B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch 1ST	 JPMIA0031GB 10.7 V
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	 JPMIA0032GB 10.7 V
					Any of the conditions be- low with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	
144 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 JPMIA0033GB 10.7 V
					Any of the conditions be- low with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
145 (LG/R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Front wiper switch INT	
					Front wiper switch LO	
					Lighting switch AUTO	
					Rear fog lamp switch ON	
146 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Front fog lamp switch ON	
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	
150 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	 11.8 V
					ON (When driver door opens)	0 V
151 (G/R)	Ground	Rear window defog- ger relay	Output	Rear window de- fogger	Active	0 V
					Not activated	Battery voltage

NOTE:

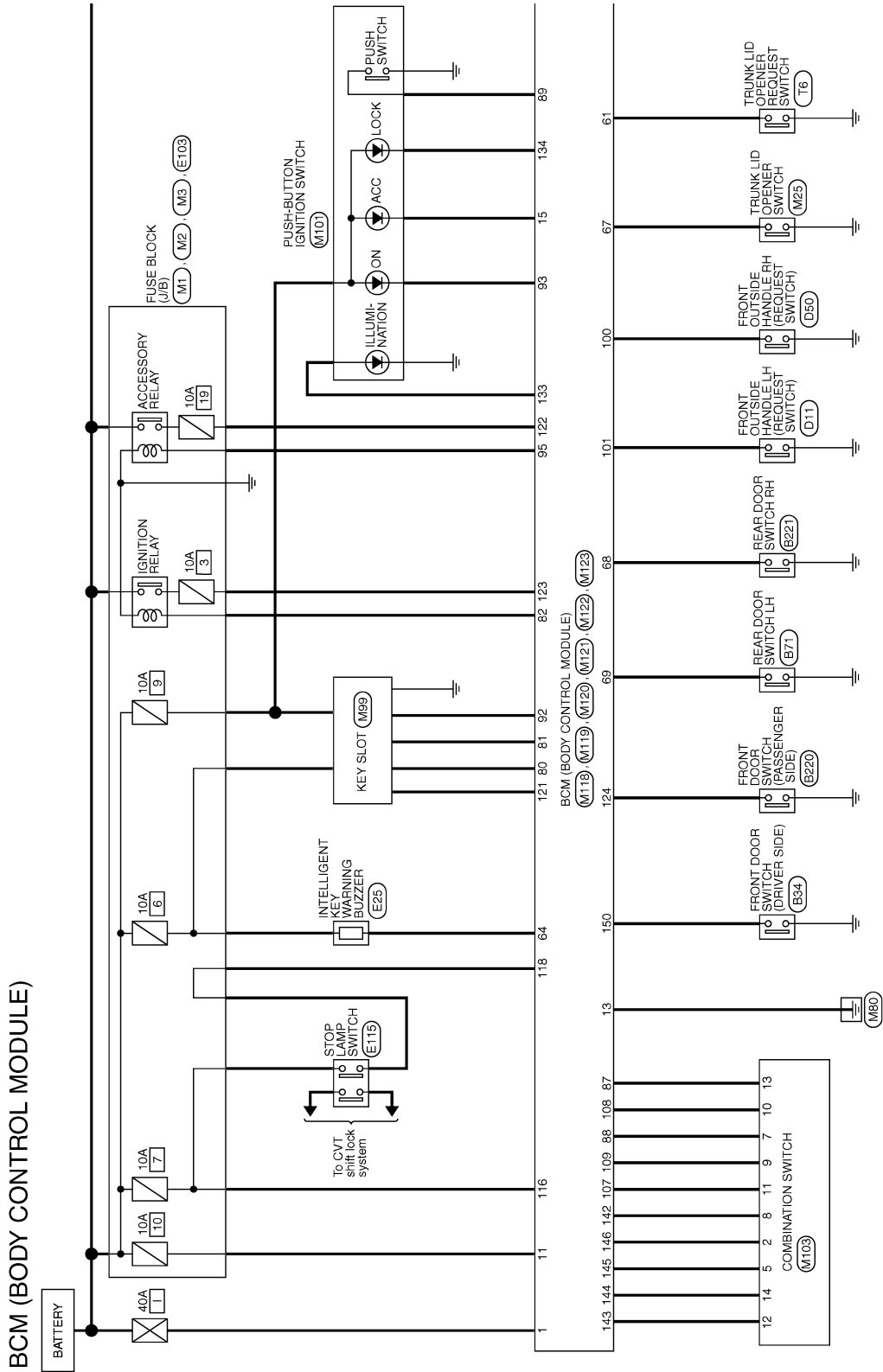
*: Without BOSE audio system

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Wiring Diagram - BCM -

INFOID:000000003959703

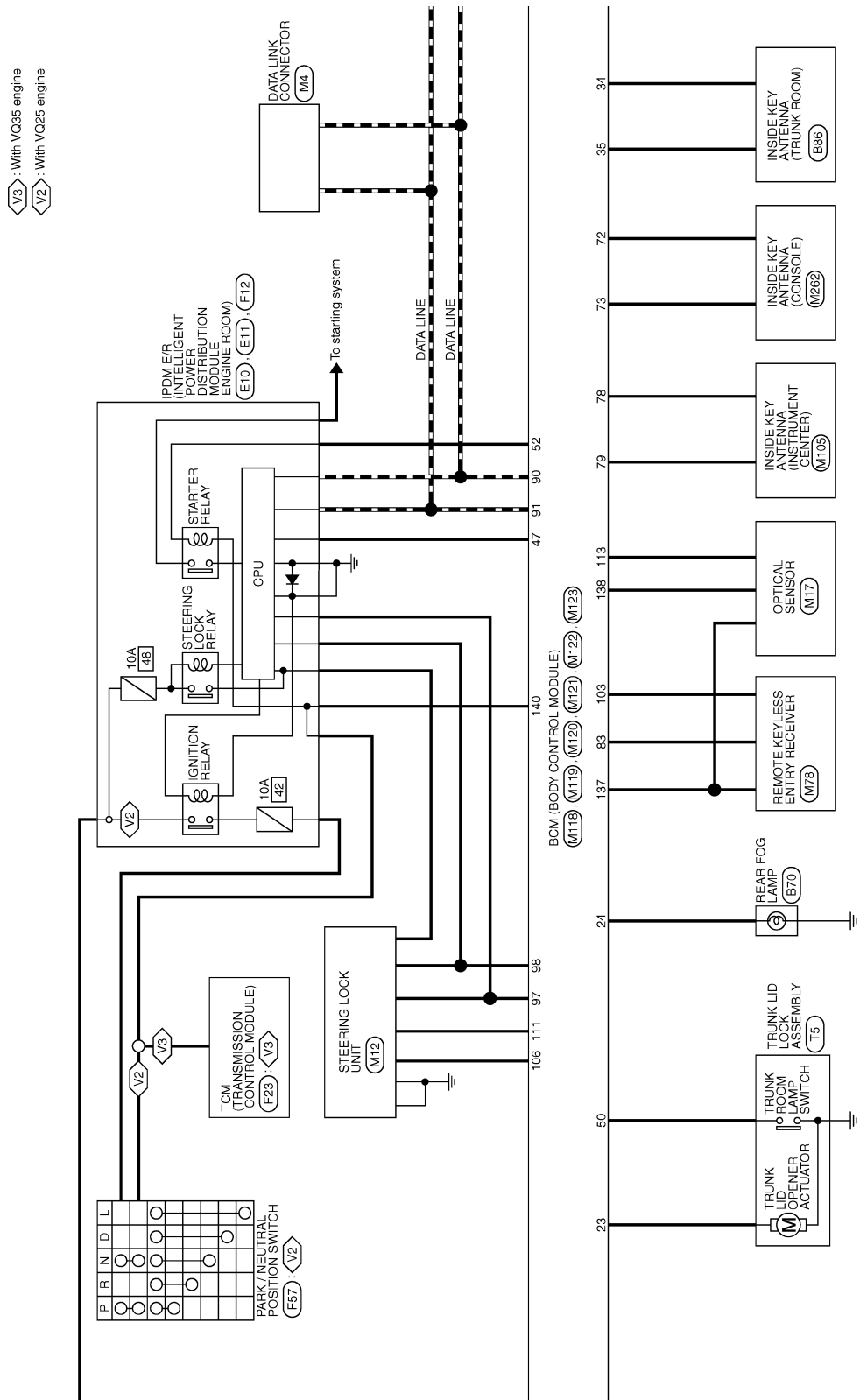


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JCMWM1671G

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >



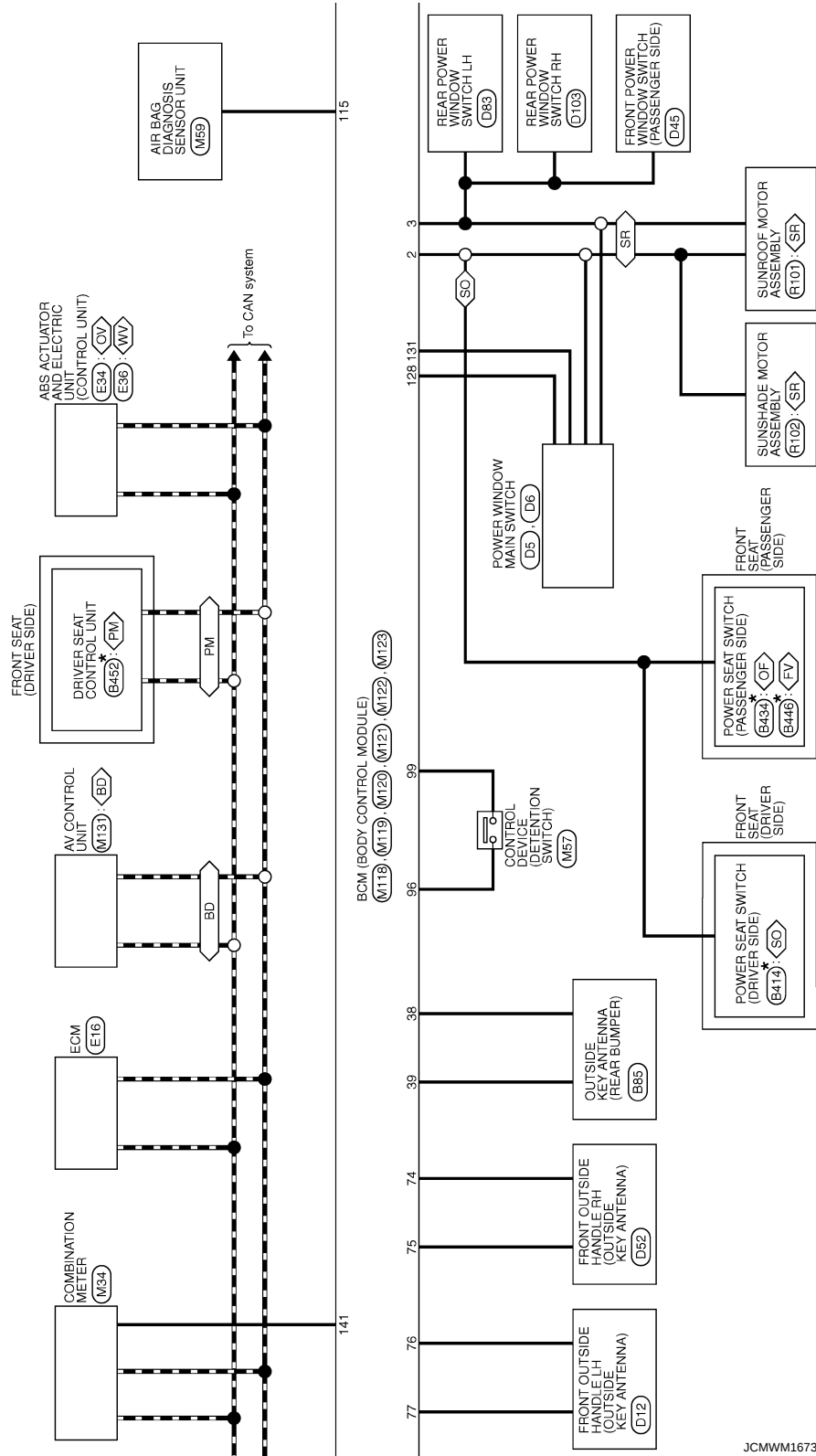
JCMWM1672G1

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

- ◁ WV ▷ : With VDC
- ◁ OV ▷ : Without VDC
- ◁ PM ▷ : With automatic drive positioner
- ◁ SO ▷ : With power seat without automatic drive positioner
- ◁ BD ▷ : With BOSE system or base audio and display system
- ◁ SR ▷ : With sunroof
- ◁ FV ▷ : With front ventilation seat
- ◁ OF ▷ : Without front ventilation seat

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



JCMWM1673G

< ECU DIAGNOSIS >

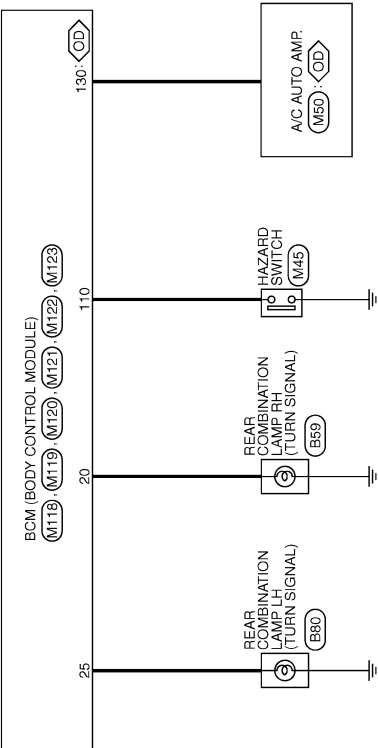


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

⬡ : Without BOSE system or base audio and display system



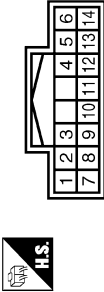
JCMWWM1675G

BCM (BODY CONTROL MODULE)

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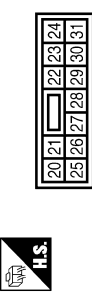
BCM (BODY CONTROL MODULE)

Connector No.	M103
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	G/Y	OUTPUT 4
5	LG/R	OUTPUT 3
7	R/G	INPUT 3
8	LG/B	OUTPUT 5
9	R/B	INPUT 2
10	P/B	INPUT 4
11	R/W	INPUT 1
12	L/W	OUTPUT 1
13	R/Y	INPUT 5
14	G/B	OUTPUT 2

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



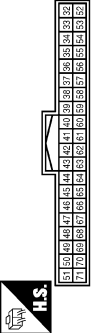
Terminal No.	Color of Wire	Signal Name [Specification]
20	G/B	TURN SIGNAL RH (REAR)
23	R	TRUNK OPEN OUTPUT
24	G	REAR FOG LAMP OUTPUT
25	G/Y	TURN SIGNAL LH (REAR)
30	V/W	TRUNK LAMP OUTPUT

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



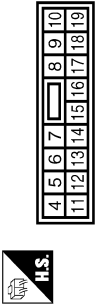
Terminal No.	Color of Wire	Signal Name [Specification]
1	W/B	BAT (F/L)
2	R/Y	POWER WINDOW POWER SUPPLY (BAT)
3	L/W	POWER WINDOW POWER SUPPLY (IGN)

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



Terminal No.	Color of Wire	Signal Name [Specification]
34	B	TRUNK ANT I B
35	W	TRUNK ANT I A
38	L/O	RR BUMPER ANT B
39	BR/W	RR BUMPER ANT A
47	BR/W	IGN RELAY IPDM E/R CONT
50	W	TRUNK SW
52	R	IGN RELAY IPDM E/R CONT
61	G/R	TRUNK REQUEST SW
64	GR	REQUEST SW BUZZER
67	L/R	INTERIOR TRUNK SW
68	R/W	REAR RH DOOR SW

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	P/W	INTERIOR ROOM LAMP POWER SUPPLY
5	G/Y	PASSENGER DOOR UNLOCK OUTPUT
7	R/W	STEP LAMP OUTPUT
8	V	ALL DOOR LOCK OUTPUT
9	G	DRIVER DOOR UNLOCK OUTPUT
10	G/Y	REAR DOOR UNLOCK OUTPUT
11	Y/R	BAT (FUSE)
13	B	GND
15	Y	ACC IND
17	G/B	TURN SIGNAL RH (FRONT D/MIRROR)
18	G/Y	TURN SIGNAL LH (FRONT D/MIRROR)

Connector No.	69
Connector Name	REAR LH DOOR SW

19	Y	ROOM LAMP TIMER CONTROL
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BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)

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



91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72
111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92

BCM (BODY CONTROL MODULE)

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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
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals have been 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 has become consistent - Starter control relay signal - Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent - 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 - 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 - 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 is fulfilled - Status 1 - 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 - 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 is fulfilled - Status 1 - 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 - 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 has become consistent - Steering lock relay signal (Request signal) - Steering lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent - Steering lock relay signal (Request signal) - Steering lock relay signal (Condition signal)

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BCM (BODY CONTROL MODULE)

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Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent - Starter motor relay control signal - Starter relay status signal (CAN)
B2609: S/L STATUS	- Inhibit engine cranking - Inhibit steering lock	When the following steering lock conditions agree - 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 - IGN relay (IPDM E/R) control signal: OFF (Battery voltage) - Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) - Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled - Power position changes to ACC - Receives engine status signal (CAN)
B2612: S/L STATUS	- Inhibit engine cranking - Inhibit steering lock	When any of the following conditions is fulfilled - 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
B26E1: ENG STATE NO RES	Inhibit engine cranking	When any of the following conditions is fulfilled - Power position changes to ACC - Receives engine status signal (CAN)
B26E9: S/L STATUS	- 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 is fulfilled - Steering condition No. 1 signal: LOCK (0 V) - Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

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

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

NOTE:

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

DTC Inspection Priority Chart

INFOID:000000003959705

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	- U1000: CAN COMM CIRCUIT - U1010: CONTROL UNIT (CAN)
3	- B2190: NATS ANTENNA AMP - B2191: DIFFERENCE OF KEY - B2192: ID DISCORD BCM-ECM - B2193: CHAIN OF BCM-ECM

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Priority	DTC	
4	• B2013: ID DISCORD BCM-S/L	A
	• B2014: CHAIN OF S/L-BCM	
	• B2553: IGNITION RELAY	B
	• B2555: STOP LAMP	
	• B2556: PUSH-BTN IGN SW	
	• B2557: VEHICLE SPEED	
	• B2560: STARTER CONT RELAY	C
	• B2601: SHIFT POSITION	
	• B2602: SHIFT POSITION	
	• B2603: SHIFT POSI STATUS	
	• B2604: PNP SW	D
	• B2605: PNP SW	
	• B2606: S/L RELAY	
	• B2607: S/L RELAY	
	• B2608: STARTER RELAY	E
	• B2609: S/L STATUS	
	• B260A: IGNITION RELAY	
	• B260B: STEERING LOCK UNIT	F
	• B260C: STEERING LOCK UNIT	
	• B260D: STEERING LOCK UNIT	
	• B260F: ENG STATE SIG LOST	
	• B2612: S/L STATUS	G
	• B2614: ACC RELAY CIRC	
	• B2615: BLOWER RELAY CIRC	
	• B2616: IGN RELAY CIRC	
	• B2617: STARTER RELAY CIRC	H
	• B2618: BCM	
	• B2619: BCM	
	• B261A: PUSH-BTN IGN SW	I
	• B261E: VEHICLE TYPE	
	• B26E1: ENG STATE NO RES	
	• B26E9: S/L STATUS	J
	• B26EA: KEY REGISTRATION	
	• U0415: VEHICLE SPEED SIG	
5	• B2621: INSIDE ANTENNA	K
	• B2622: INSIDE ANTENNA	
	• B2623: INSIDE ANTENNA	

DTC Index

INFOID:000000003959706

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 and IGN Counter, refer to [BCS-16, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Reference page	
No DTC is detected. further testing may be required.	—	—	—	—	O
U1000: CAN COMM CIRCUIT	—	—	—	BCS-33	
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-34	P
U0415: VEHICLE SPEED SIG	—	—	—	BCS-35	
B2013: ID DISCORD BCM-S/L	×	×	—	SEC-46	
B2014: CHAIN OF S/L-BCM	×	×	—	SEC-47	
B2190: NATS ANTENNA AMP	×	—	—	SEC-39	
B2191: DIFFERENCE OF KEY	×	—	—	SEC-42	

BCM (BODY CONTROL MODULE)

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CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Reference page
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-43
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-45
B2553: IGNITION RELAY	—	×	—	PCS-49
B2555: STOP LAMP	—	×	—	SEC-50
B2556: PUSH-BTN IGN SW	—	×	×	SEC-52
B2557: VEHICLE SPEED	×	×	×	SEC-54
B2560: STARTER CONT RELAY	×	×	×	SEC-55
B2562: LOW VOLTAGE	—	×	—	BCS-36
B2601: SHIFT POSITION	×	×	×	SEC-56
B2602: SHIFT POSITION	×	×	×	SEC-59
B2603: SHIFT POSI STATUS	×	×	×	SEC-61
B2604: PNP SW	×	×	×	SEC-64
B2605: PNP SW	×	×	×	SEC-67
B2606: S/L RELAY	×	×	×	SEC-69
B2607: S/L RELAY	×	×	×	SEC-70
B2608: STARTER RELAY	×	×	×	SEC-72
B2609: S/L STATUS	×	×	×	SEC-74
B260A: IGNITION RELAY	×	×	×	PCS-51
B260B: STEERING LOCK UNIT	—	×	×	SEC-78
B260C: STEERING LOCK UNIT	—	×	×	SEC-79
B260D: STEERING LOCK UNIT	—	×	×	SEC-80
B260F: ENG STATE SIG LOST	×	×	×	SEC-81
B2612: S/L STATUS	×	×	×	SEC-85
B2614: ACC RELAY CIRC	—	×	×	PCS-53
B2615: BLOWER RELAY CIRC	—	×	×	PCS-55
B2616: IGN RELAY CIRC	—	×	×	PCS-57
B2617: STARTER RELAY CIRC	×	×	×	SEC-89
B2618: BCM	×	×	×	PCS-59
B2619: BCM	×	×	×	SEC-91
B261A: PUSH-BTN IGN SW	—	×	×	SEC-92
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-95
B2621: INSIDE ANTENNA	—	×	—	DLK-50
B2622: INSIDE ANTENNA	—	×	—	DLK-52
B2623: INSIDE ANTENNA	—	×	—	DLK-54
B26E1: ENG STATE NO RES	×	×	×	SEC-82
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-83
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-84

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000003774578

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. • Map lamp • Personal lamp • Trunk room lamp • Step lamp • Vanity mirror lamp		• Harness between BCM and each interior room lamp • BCM	Interior room lamp power supply circuit Refer to INL-20 .
• 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.	Map lamp and personal lamp	• Harness between BCM and each door switch • Harness between BCM and map lamp • BCM	Door switch circuit Refer to DLK-57 .
	Only the map lamp	• Map lamp bulb • Map lamp assembly	Interior room lamp control circuit Refer to INL-22 .
	Only the personal lamp	• Personal lamp bulb • Personal lamp assembly	—
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-16 .
Step lamps (driver side and passenger side) are not turned ON. (Map lamp and personal lamp are turned ON.)		• Harness between BCM and each step lamp • BCM	Step lamp circuit Refer to INL-24 .
Step lamps (driver side and passenger side) are not turned OFF. (Map lamp and personal lamp are turned OFF.)			
• Trunk room lamp does not turn ON. (The bulb is normal.) • Trunk room lamp does not turn OFF.		• Harness between BCM and trunk room lamp switch • Harness between BCM and trunk room lamp • BCM	Trunk room lamp switch circuit Refer to DLK-70 .
			Trunk room lamp circuit Refer to INL-26 .
Push-button ignition switch illumination does not illuminate.		• Harness between BCM and push-button ignition switch • BCM	Push-button ignition switch illumination circuit Refer to INL-28 .
Interior room lamp battery saver does not activate.		—	Check the interior room lamp battery saver setting. Refer to INL-17 .

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003813381

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

WARNING:

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

MAP LAMP

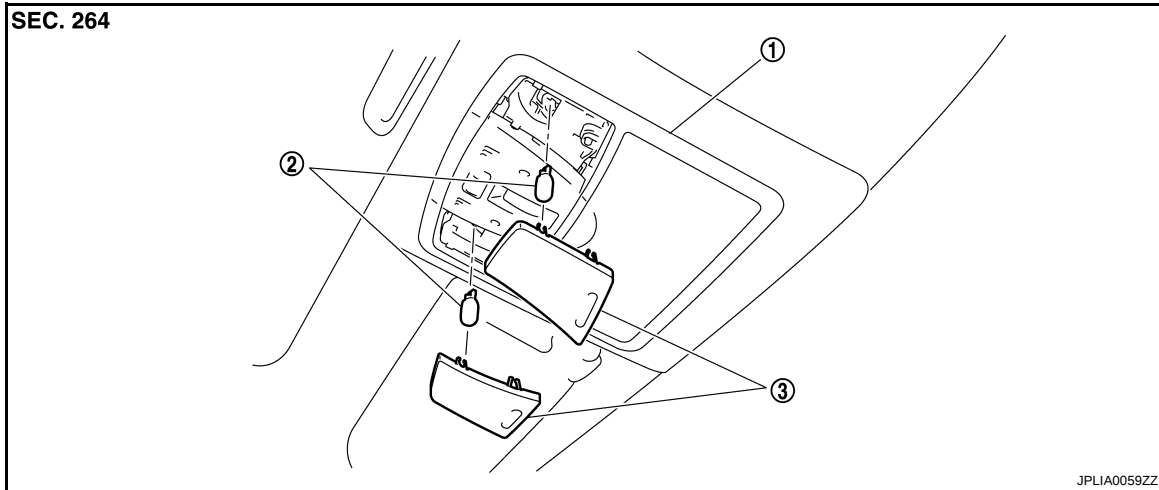
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

MAP LAMP

Exploded View

INFOID:000000003774581



1. Map lamp assembly

2. Bulb

3. Lens

NOTE:

After removing the headlining assembly, remove the map lamp assembly. Refer to [INT-49, "NORMAL ROOF : Exploded View"](#).

Removal and Installation

INFOID:000000003774582

After removing the headlining assembly, remove the map lamp assembly. Refer to [INT-49, "NORMAL ROOF : Exploded View"](#).

Replacement

INFOID:000000003774583

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

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

MOOD LAMP

< ON-VEHICLE REPAIR >

MOOD LAMP

MAP LAMP

MAP LAMP : Exploded View

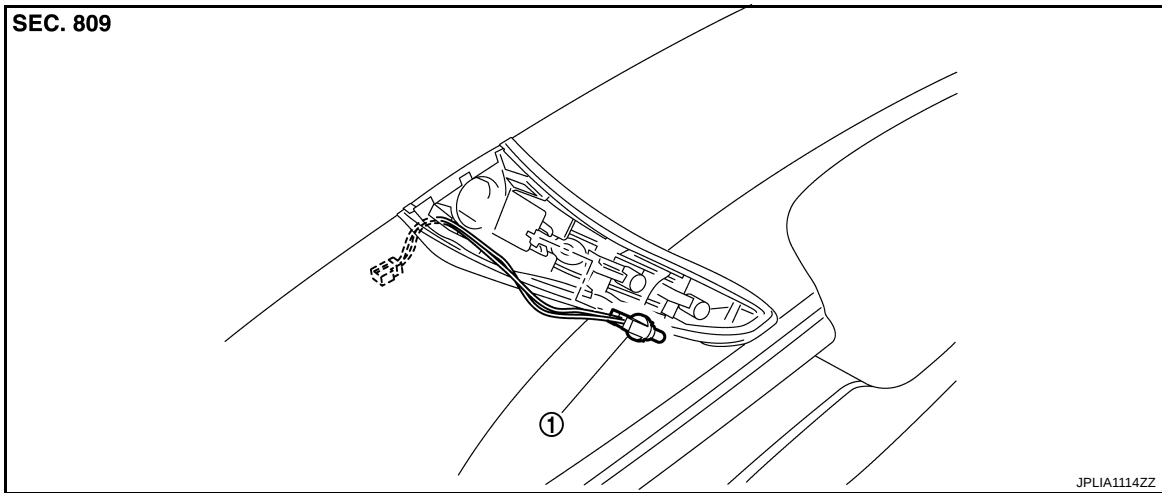
INFOID:000000003838126

Mood lamp (map lamp) is integrated into the map lamp assembly. Refer to [INL-89, "Exploded View"](#).

FRONT DOOR GRIP

FRONT DOOR GRIP : Exploded View

INFOID:000000003838122



1. Mood lamp (front door grip)

NOTE:

Only passenger side

FRONT DOOR GRIP : Replacement

INFOID:000000003838123

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

MOOD LAMP (FRONT DOOR GRIP)

1. Remove the front door finisher (passenger side). Refer to [INT-33, "PASSENGER SIDE : Exploded View"](#).
2. Remove the mood lamp (front door grip) from the front door finisher (passenger side).

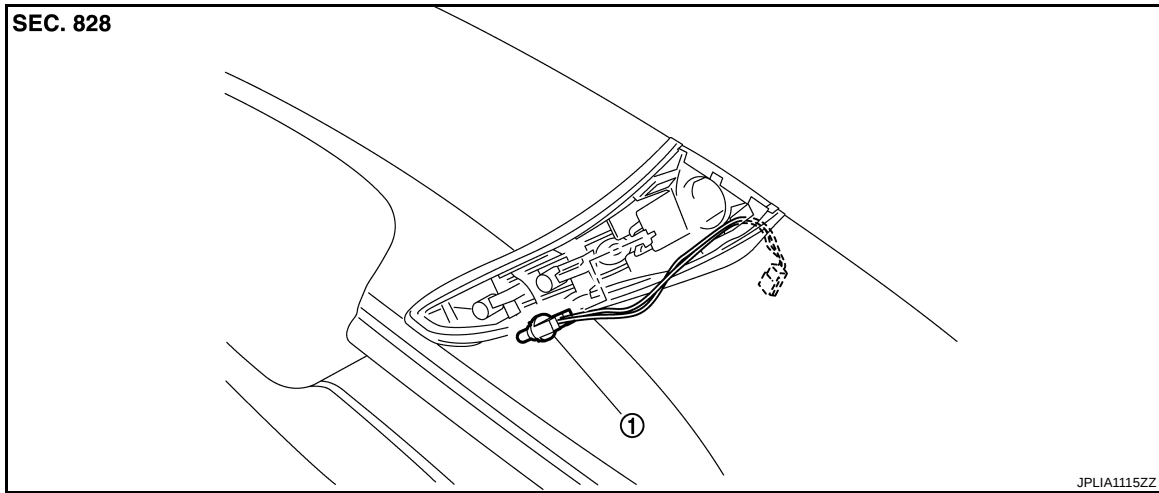
REAR DOOR GRIP

MOOD LAMP

< ON-VEHICLE REPAIR >

REAR DOOR GRIP : Exploded View

INFOID:000000003838124



1. Mood lamp (rear door grip)

REAR DOOR GRIP : Replacement

INFOID:000000003838125

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

MOOD LAMP (REAR DOOR GRIP)

1. Remove the rear door finisher. Refer to [INT-36, "Exploded View"](#).
2. Remove the mood lamp (rear door grip) from the rear door finisher.

A
B
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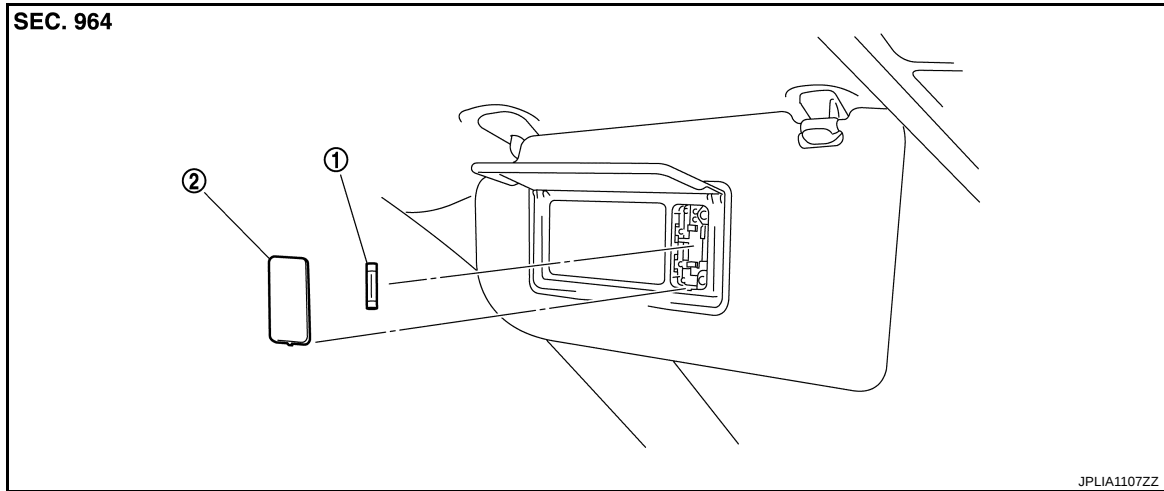
VANITY MIRROR LAMP

< ON-VEHICLE REPAIR >

VANITY MIRROR LAMP

Exploded View

INFOID:000000003774587



1. Bulb

2. Lens

Replacement

INFOID:000000003774588

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.

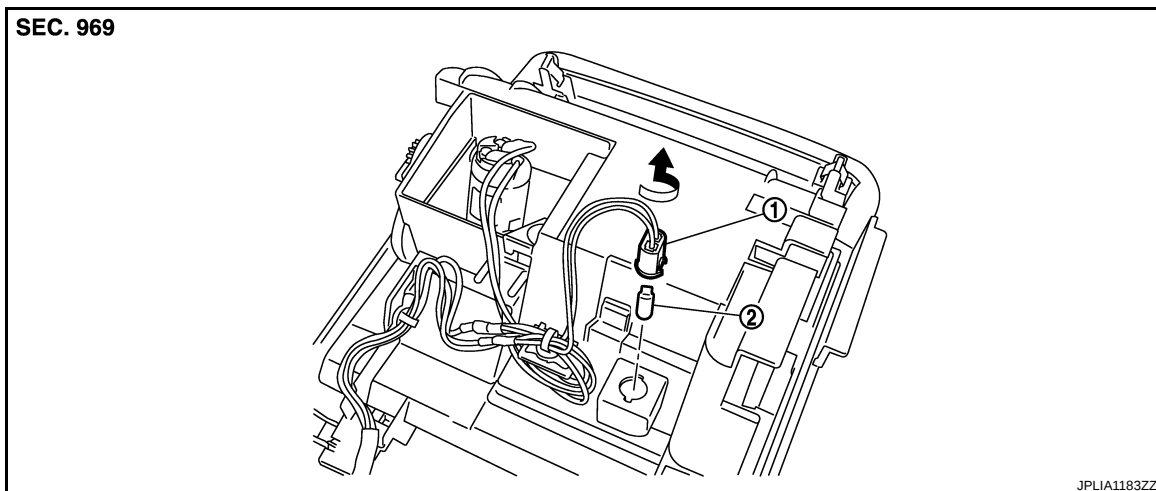
ASHTRAY ILLUMINATION

< ON-VEHICLE REPAIR >

ASHTRAY ILLUMINATION

Exploded View

INFOID:000000003774591



1. Bulb socket

2. Bulb

Replacement

INFOID:000000003774592

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-22, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

INL

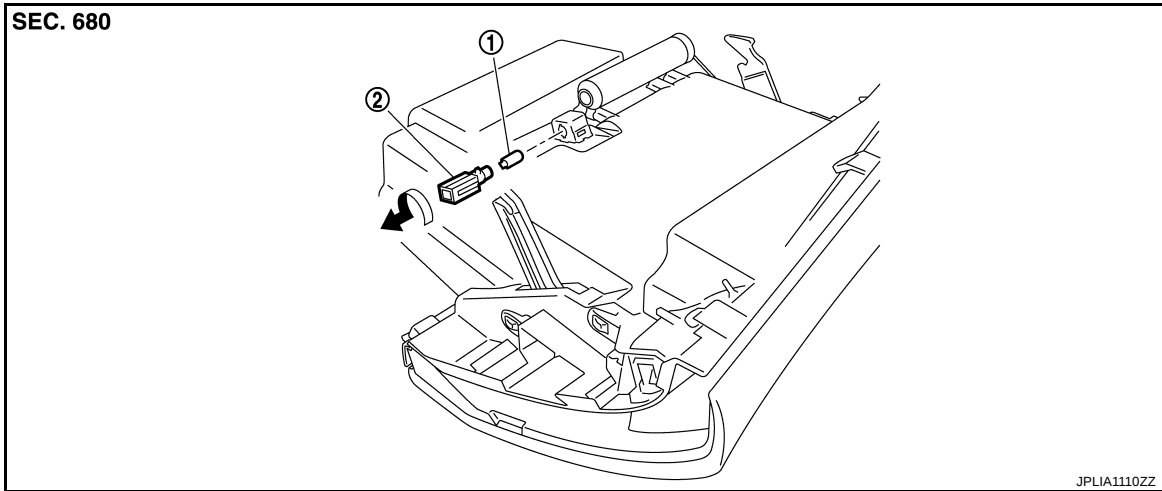
GLOVE BOX LAMP

< ON-VEHICLE REPAIR >

GLOVE BOX LAMP

Exploded View

INFOID:000000003774593



1. Bulb

2. Bulb socket

Replacement

INFOID:000000003774594

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 [JP-11, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

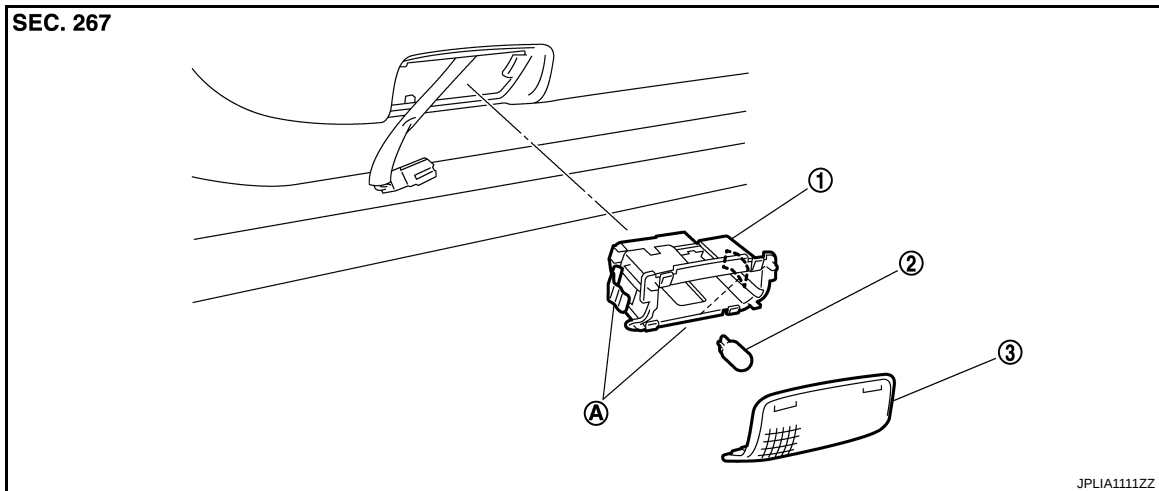
STEP LAMP

< ON-VEHICLE REPAIR >

STEP LAMP

Exploded View

INFOID:000000003774595



1. Step lamp case

2. Bulb

3. Lens

A Metal clip

Removal and Installation

INFOID:000000003774596

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:000000003774597

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.

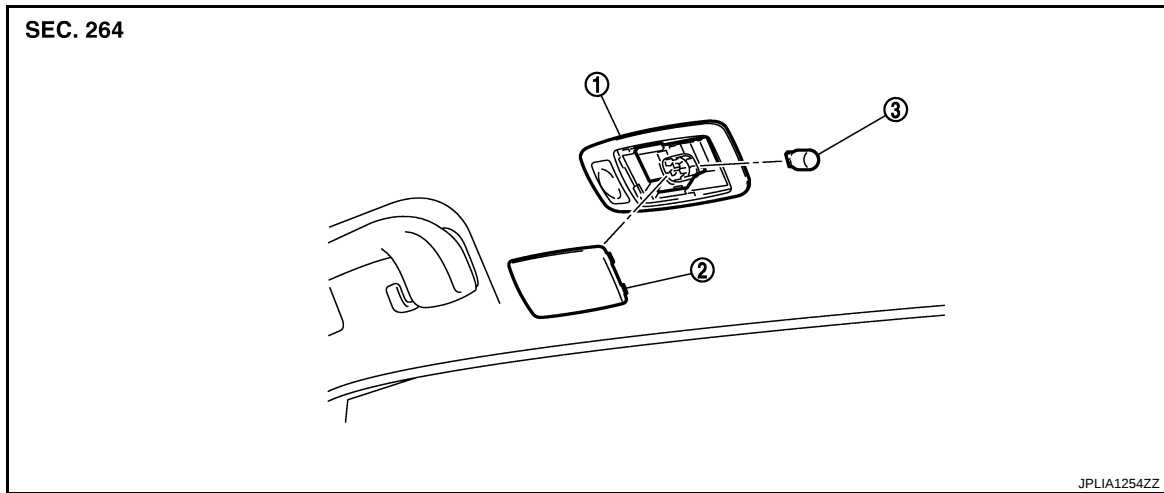
PERSONAL LAMP

< ON-VEHICLE REPAIR >

PERSONAL LAMP

Exploded View

INFOID:000000003774598



1. Personal lamp assembly

2. Lens

3. Bulb

NOTE:

- After removing the headlining assembly, remove the personal lamp assembly. Refer to [INT-49. "NORMAL ROOF : Exploded View"](#).
- Replace the personal lamp assembly as a set (right and left).

Removal and Installation

INFOID:000000003774599

- After removing the headlining assembly, remove the personal lamp assembly. Refer to [INT-49. "NORMAL ROOF : Exploded View"](#).
- Replace the personal lamp assembly as a set (right and left).

Replacement

INFOID:000000003774600

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.

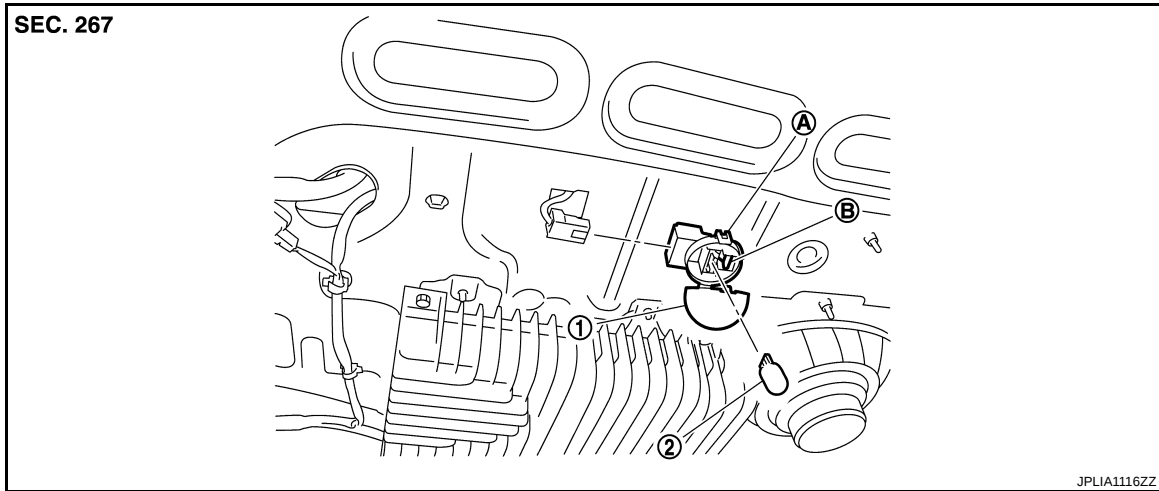
TRUNK ROOM LAMP

< ON-VEHICLE REPAIR >

TRUNK ROOM LAMP

Exploded View

INFOID:000000003812235



- | | |
|--------------------------|---------------------------------|
| 1. Trunk room lamp | 2. Bulb |
| A Pawl (for lens fixing) | B. Pawl (for case installation) |

Removal and Installation

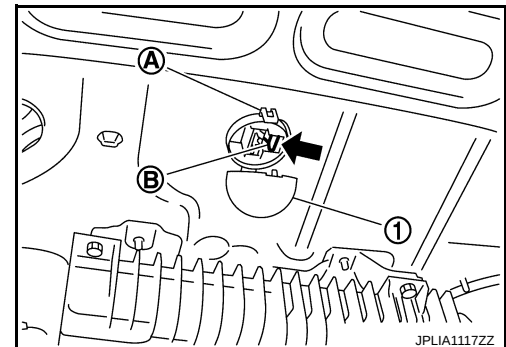
INFOID:000000003812236

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Widen the pawl (A). Open the lens (1).
2. Remove the bulb.
3. Pressing the pawl (B) to the arrow direction (←). Pull out the trunk room lamp.
4. Disconnect the connector.
5. Remove the trunk room lamp.



INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000003812237

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.**

TRUNK ROOM LAMP BULB

1. Widen the lens pawl. Open the lens.
2. Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000003774604

Item		Type	Wattage (W)
Push-button ignition switch illumination		LED	—
Map lamp		Wedge	8
Mood lamp	Map lamp	LED	—
	Front door grip		
	Rear door grip		
Vanity mirror lamp		—	2
Ashtray illumination		Wedge	1.4
Glove box lamp		Wedge	1.4
Step lamp		Wedge	2.7
Personal lamp		Wedge	8
Trunk room lamp		Wedge	3.4