

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

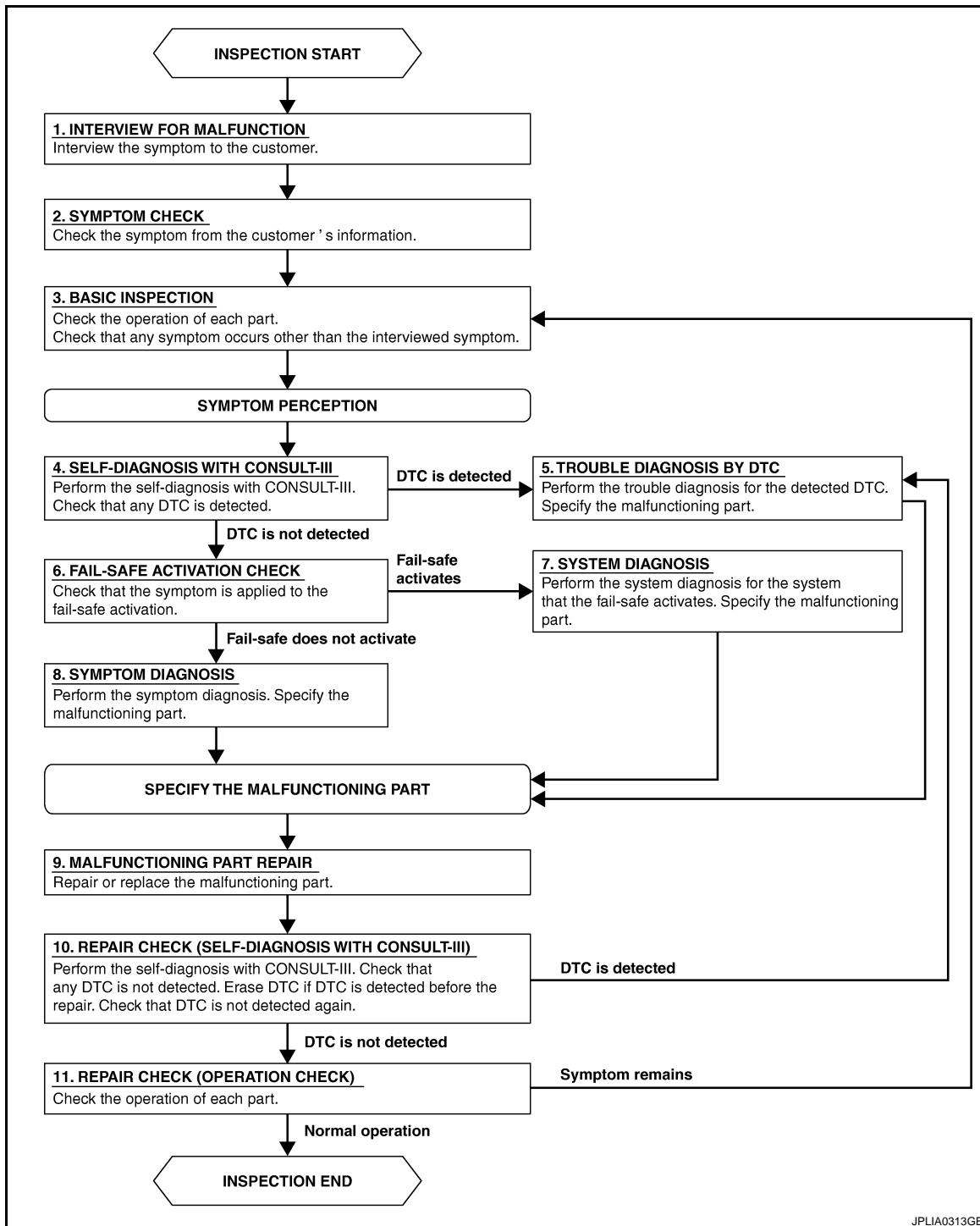
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003135130

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.

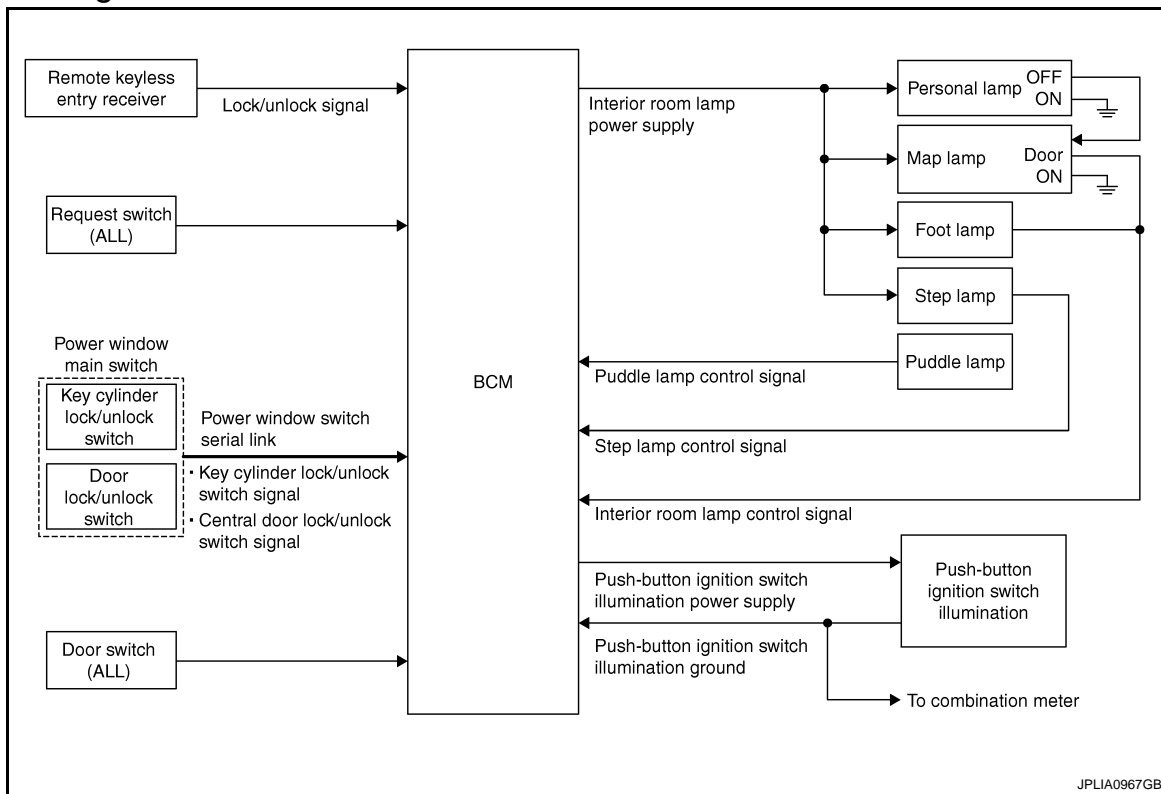
INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

INFOID:000000003562624

OUTLINE

- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
*: Map lamp, foot lamp and personal lamp (when map lamp switch is in DOOR position).
- Step lamp is controlled by step lamp control function of BCM.
- Puddle lamp is controlled by puddle lamp timer control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.
- Interior room lamps and puddle lamp are illuminated by welcome light function of Intelligent Key system.
Refer to [DLK-32, "WELCOME LIGHT FUNCTION : System Description"](#).

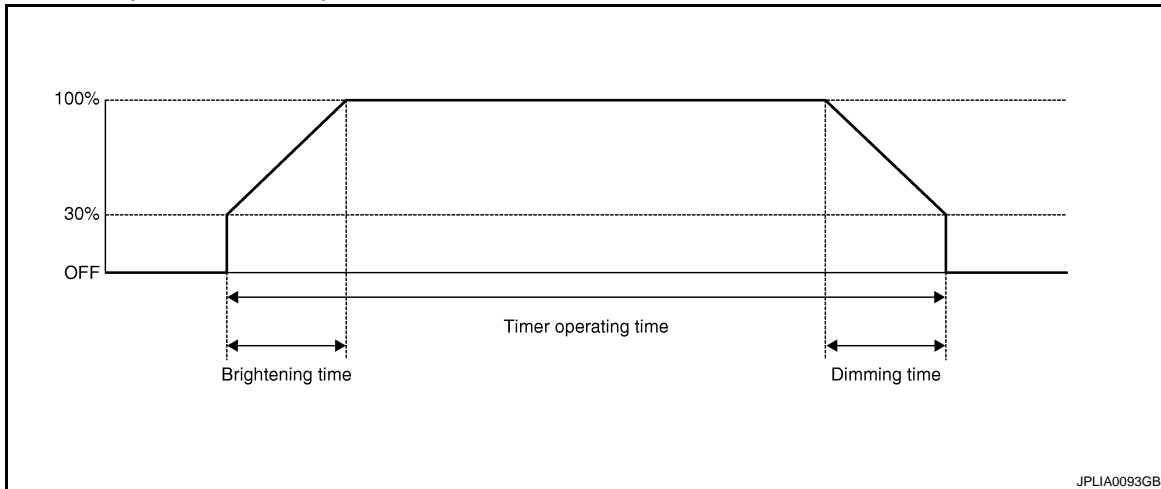
INTERIOR ROOM LAMP TIMER CONTROL

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INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Interior Room Lamp Timer Basic Operation



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

NOTE:

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

PUDDLE LAMP TIMER CONTROL

Puddle Lamp Timer Basic Operation

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

Puddle Lamp ON Operation

BCM activates the puddle lamp timer in any of the following conditions to turn the puddle lamp ON for a period of time.

- Any door opens.
- Any door opens before all doors close.
- Ignition switch is turned ON → OFF.

INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

- 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.

Puddle Lamp OFF Operation

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

- The puddle lamp timer operating time is expired.
- The interior room lamp OFF conditions.
- The interior room lamp timer operating time is expired.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

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

Push-button Ignition Switch Illumination ON Operation

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

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

Push-button Ignition Switch Illumination OFF Operation

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

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

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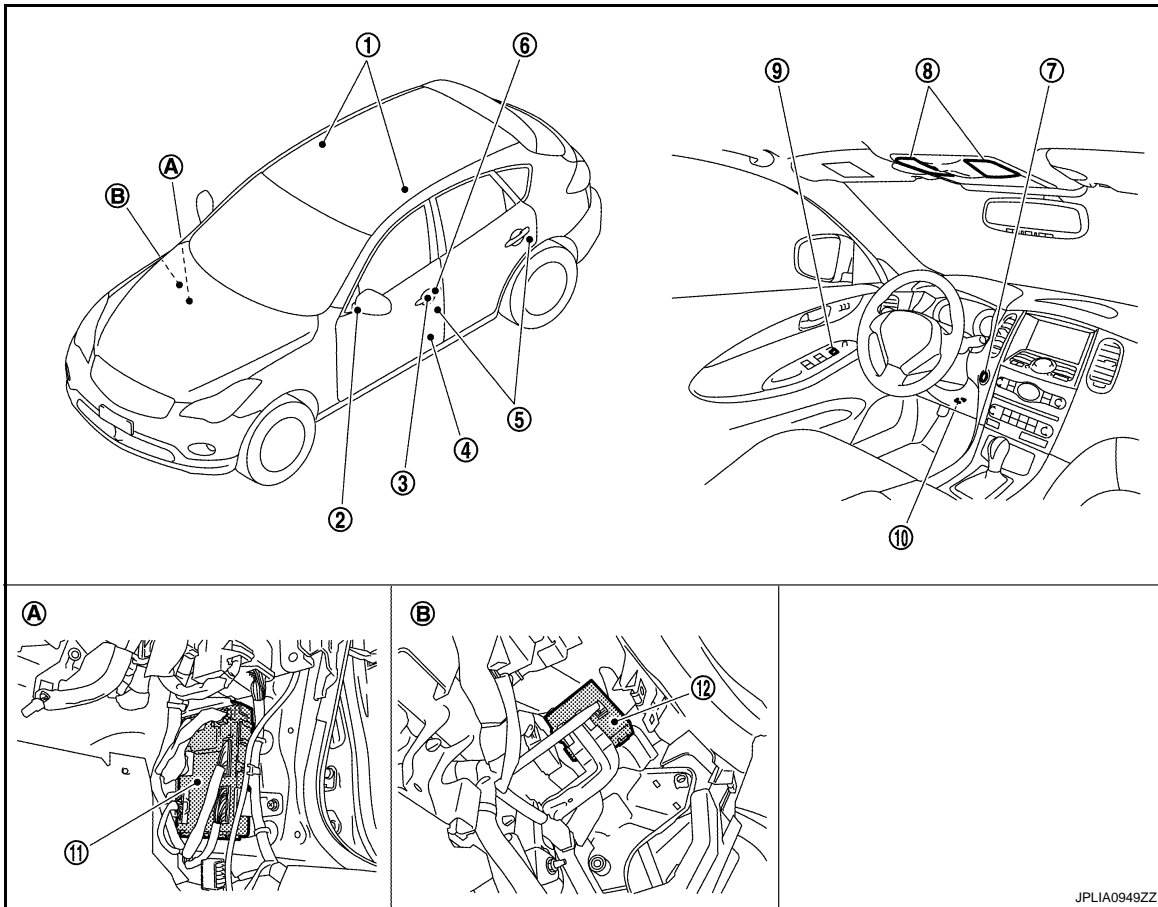
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INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003562625



- | | | |
|---|-----------------------|------------------------------------|
| 1. Personal lamp | 2. Puddle lamp | 3. Request switch |
| 4. Step lamp | 5. Door switch | 6. Key cylinder lock/unlock switch |
| 7. Push-button ignition switch illumination | 8. Map lamp | 9. Door lock/unlock switch |
| 10. Foot lamp | 11. BCM | 12. Remote keyless entry receiver |
| A. Dash side lower (passenger side) | B. Over the glove box | |

Component Description

INFOID:000000003562626

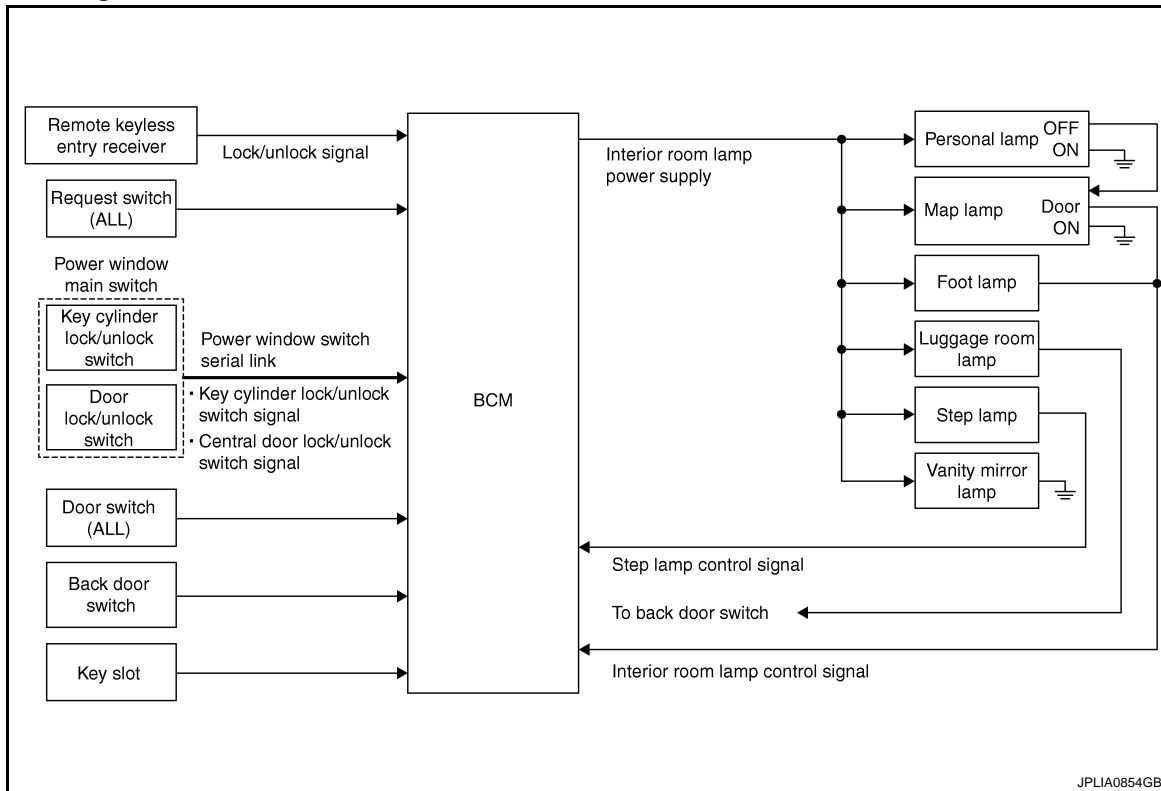
Part	Description
BCM	<ul style="list-style-type: none"> Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamp ON/OFF. Activates the puddle lamp timer depending on the vehicle condition to turn the puddle lamp ON/OFF. Turns the step lamp ON/OFF according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

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< FUNCTION DIAGNOSIS >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram



System Description

INFOID:000000003562628

OUTLINE

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

Applicable lamps

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

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

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

NOTE:

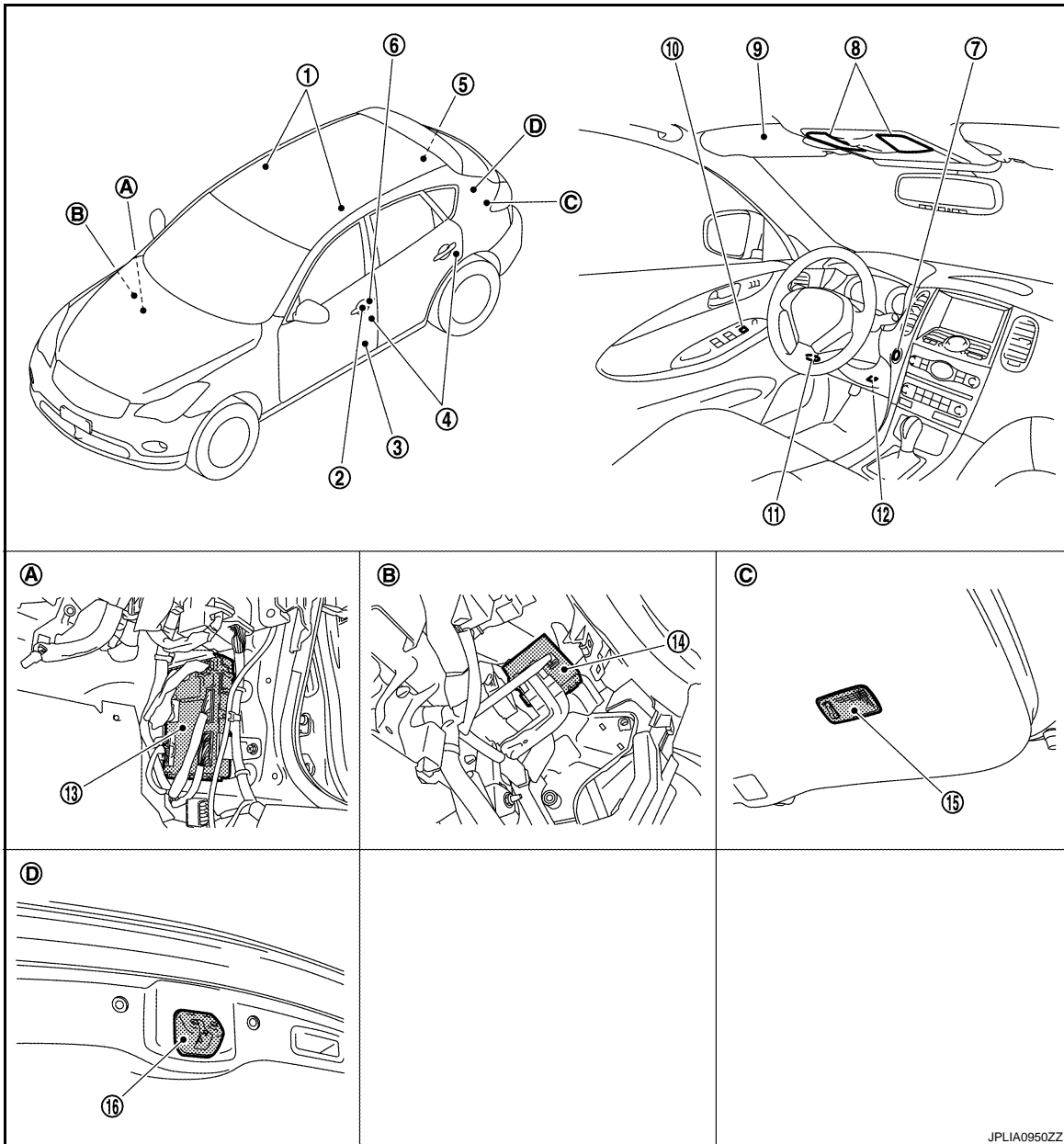
Each function of interior room lamp battery saver can be set by CONSULT-III Refer to [INL-17, "BATTERY SAVER : CONSULT-III Function \(BCM - BATTERY SAVER\)"](#).

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003562629



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- | | | |
|-------------------------------------|-------------------------------------|--|
| 1. Personal lamp | 2. Request switch | 3. Step lamp |
| 4. Door switch | 5. Luggage room lamp (luggage side) | 6. Key cylinder lock/unlock switch |
| 7. Push-button ignition switch | 8. Map lamp | 9. Vanity mirror lamp |
| 10. Door lock/unlock switch | 11. Foot lamp | 12. Key slot |
| 13. BCM | 14. Remote keyless entry receiver | 15. Luggage room lamp (back door side) |
| 16. Back door switch | | |
| A. Dash side lower (passenger side) | B. Over the glove box | C. Back door |
| D. Back door lock assembly | | |

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000003562630

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

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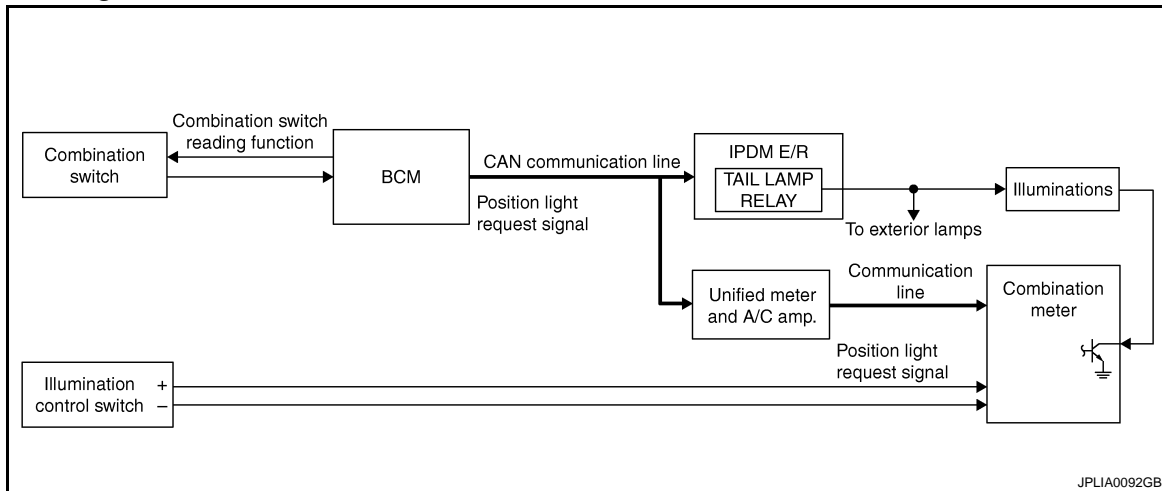
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ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

INFOID:000000003762586

OUTLINE

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

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

- Relay control function

Control by combination meter

- Meter illumination control function (Refer to [MWI-26, "METER ILLUMINATION CONTROL : System Diagram."](#))

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 (through the unified meter and A/C amp.) according to tail lamp ON condition.

Tail lamp ON condition

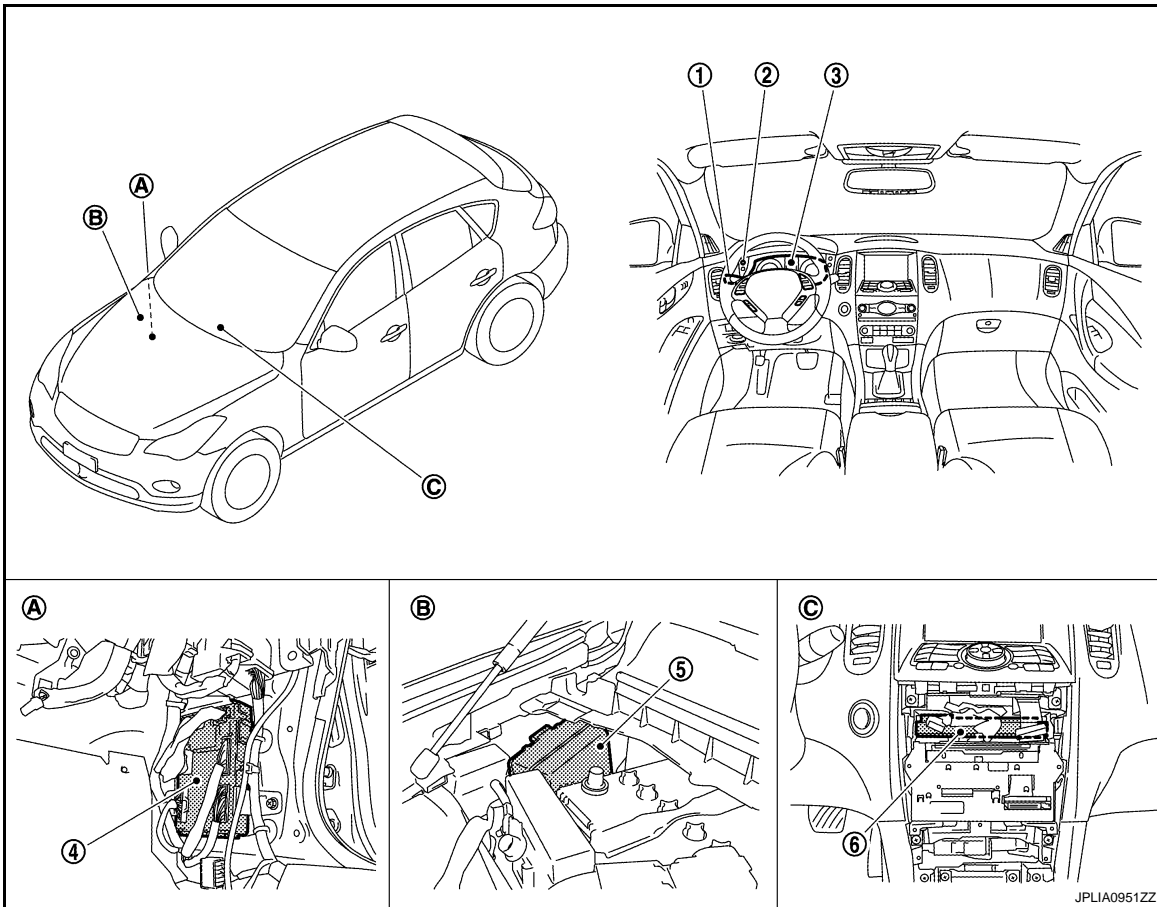
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (With auto light system)
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter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

ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003562633



- | | | |
|------------------------------------|--------------------------------|-------------------------------|
| 1. Combination switch | 2. Illumination control switch | 3. Combination meter |
| 4. BCM | 5. IPDM E/R | 6. Unified meter and A/C amp. |
| A Dash side lower (passenger side) | B. Engine room dash panel (RH) | C. Behind the cluster lid C |

Component Description

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Part	Description
BCM	<ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter [with CAN communication (through the unified meter and A/C amp.)].
IPDM E/R	Controls the integrated relay according to the request from BCM (with CAN communication).
Combination meter	<ul style="list-style-type: none"> • Enters in nighttime mode according to the request from BCM (with CAN communication). • Controls the each illumination in the nighttime mode. Refer to MWI-26. "METER ILLUMINATION CONTROL : System Diagram" .
Combination switch (Lighting & turn signal switch)	Refer to BCS-8. "System Diagram" .

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000003784937

APPLICATION ITEM

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

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: 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*			
<ul style="list-style-type: none"> Intelligent Key system Engine start system 	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
—	TRUNK*		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	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
- Odd 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

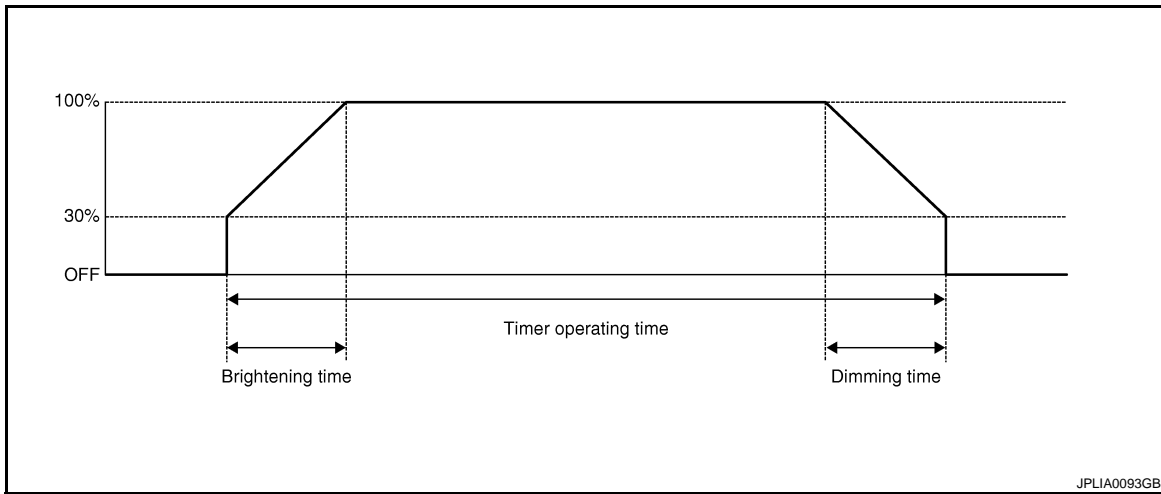
DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

INFOID:000000003135144

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.	

*: Initial 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 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 central door lock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from central door lock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch by power window switch serial link
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 step lamp ON.
	Off	Stops the trunk room lamp control signal to turn step lamp ON.

BATTERY SAVER

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

INFOID:000000003135145

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.	

*: Initial 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 request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from central door lock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from central door lock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch by power window switch serial link
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:000000003757115

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	K
	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.

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:000000003135147

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

Component Function Check

INFOID:000000003135148

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

Off : Interior room lamp OFF

On : Interior room lamp ON

Does the interior room lamp turn ON/OFF?

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

NO >> Refer to [INL-20, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003135149

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	0 V
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.
 - Roof module (map lamp and personal lamp)
 - Foot lamp (driver side)
 - Foot lamp (passenger side)
 - Vanity mirror lamp (LH)
 - Vanity mirror lamp (RH)
 - Luggage room lamp (luggage side)

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

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

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector	Terminal		
M119	4	Roof module	R11	12	Existed
		Foot lamp (driver side)	M27	1	
		Foot lamp (passenger side)	M113	1	
		Vanity mirror lamp (LH)	R12	2	
		Vanity mirror lamp (RH)	R13	2	
		Luggage room lamp (luggage side)	B229	2	
		Luggage room lamp (back door side)	D110	2	
		Step lamp (driver side)	D12	1	
		Step lamp (passenger side)	D42	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.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000003135150

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:000000003135151

CAUTION:

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

- Interior room lamp power supply
- Map lamp bulb
- Personal lamp bulb
- Foot 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:000000003135152

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

ⓅCONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove all the bulbs of map lamp, foot 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	Ground	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, roof module connector and foot lamp connector.
3. Check continuity between BCM harness connector, roof module harness connector, and foot lamp harness connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

BCM		Roof module/foot lamp			Continuity
Connector	Terminal	Connector		Terminal	
M119	19	Roof module	R11	9	Existed
		Foot lamp (driver side)	M27	2	
		Foot lamp (passenger side)	M113	2	

Does continuity exist?

- YES >> Replace the roof module or the foot lamp.
 NO >> Repair the harnesses or connectors.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, roof module connector and foot 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:000000003135153

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

Component Function Check

INFOID:000000003135154

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:000000003135155

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.

BCM		Step lamp			Continuity
Connector	Terminal	Connector	Terminal		
M119	7	Driver side	D12	2	Existed
		Passenger side	D42	2	

STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

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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PUDDLE LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

PUDDLE LAMP CIRCUIT

Description

INFOID:000000003567032

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

Diagnosis Procedure

INFOID:000000003567034

1. CHECK PUDDLE LAMP FUSE

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

Unit	Location	Fuse No.	Capacity
Puddle lamp	Fuse block (J/B)	#10	10 A

Is the fuse fusing?

- YES >> Replace the fuse.
NO >> GO TO 2.

2. CHECK PUDDLE LAMP INPUT VOLTAGE

1. Turn ignition switch OFF.
2. When any door opened and closed, check voltage between BCM harness connector and ground.

BCM		Ground	Condition	Voltage
Connector	Terminal			
M122	94		Door open	0 V
			Door close	Battery voltage

Is the measurement value normal?

- YES >> Replace door mirror assembly (driver side).
NO >> GO TO 3.

3. CHECK PUDDLE LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector, and door mirror (driver side) connector.
3. Check continuity between BCM harness connector and door mirror (driver side) harness connector.

BCM		door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M122	94	D3	14	Existed

Does continuity exist?

- YES >> GO TO 4.
NO >> Repair harnesses or connectors.

4. CHECK PUDDLE LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M122	94		Not existed

Does continuity exist?

- YES >> Repair the harnesses or connectors.
NO >> Replace BCM.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< COMPONENT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:000000003135159

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

Component Function Check

INFOID:000000003135160

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-27, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000003135161

1.CHECK ILLUMINATION CONTROL SWITCHING OPERATION

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

Condition	Push-button ignition switch illumination
<ul style="list-style-type: none">• Ignition switch ON• Lighting switch 1ST	ON
<ul style="list-style-type: none">• Ignition switch OFF• Lighting switch OFF• Driver door LOCK	OFF

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

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

2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

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

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M119	14	M50	2	Existed

Does the continuity exist?

- YES >> Replace BCM.
NO >> Repair the harness or the connector.

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

CONSULT-III ACTIVE TEST

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

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< COMPONENT DIAGNOSIS >

Terminals		Test item	Voltage (Approx.)
(+)	(-)		
BCM		ENGINE SW ILLUMI	5 V
Connector	Terminal		
M123	133	ON	5 V
		OFF	0 V

Is the measurement value normal?

- YES >> GO TO 4.
NO >> GO TO 5.

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

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

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	133	M50	3	Existed

Does the continuity exist?

- YES >> Replace push-button ignition switch.
NO >> Repair the harness or the connector.

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

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

BCM		Ground	Continuity
Connector	Terminal		
M123	133		Not existed

Does the continuity exist?

- YES >> Repair the harness or the connector.
NO >> Replace BCM.

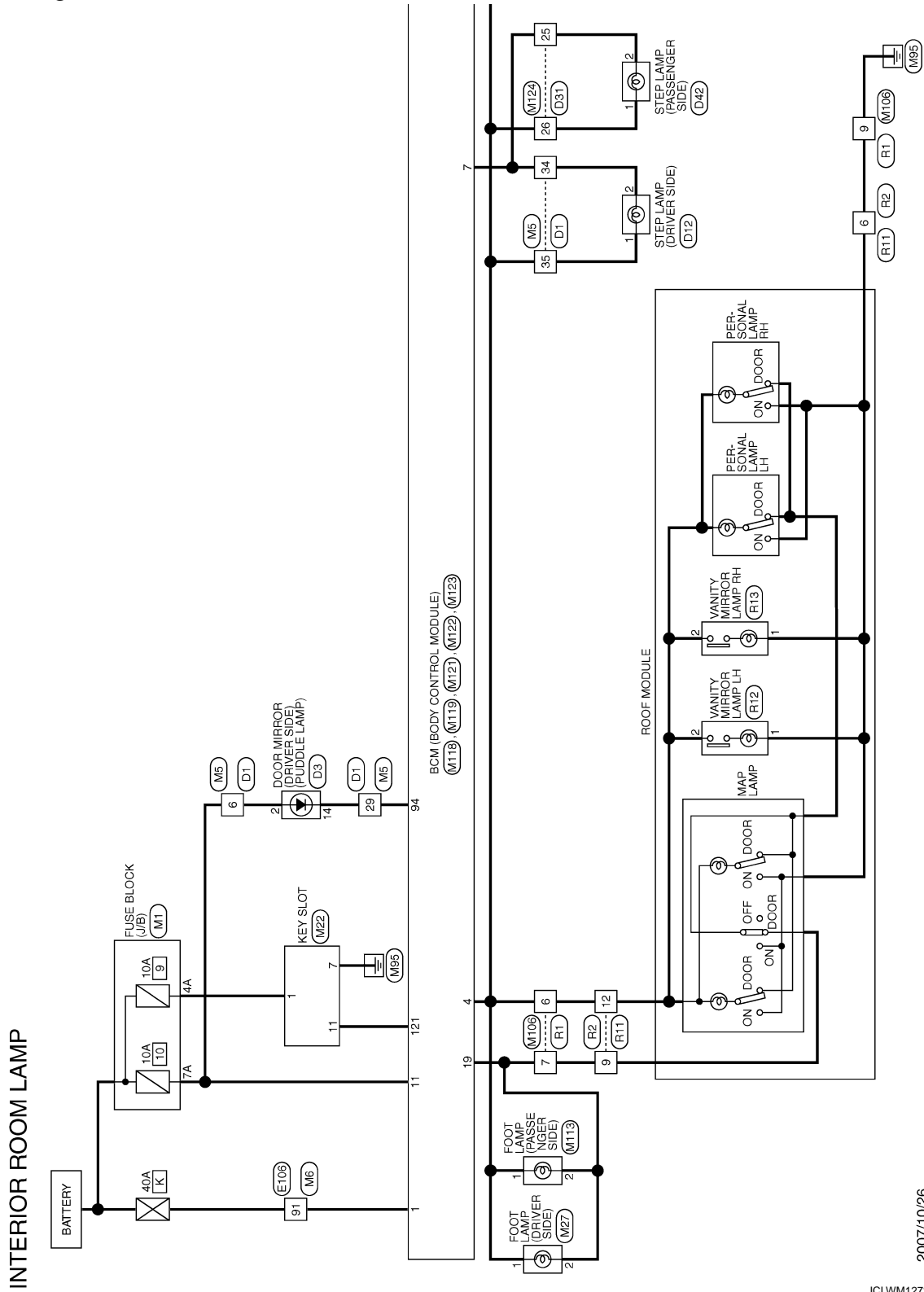
INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram - INTERIOR ROOM LAMP -

INFOID:000000003135162



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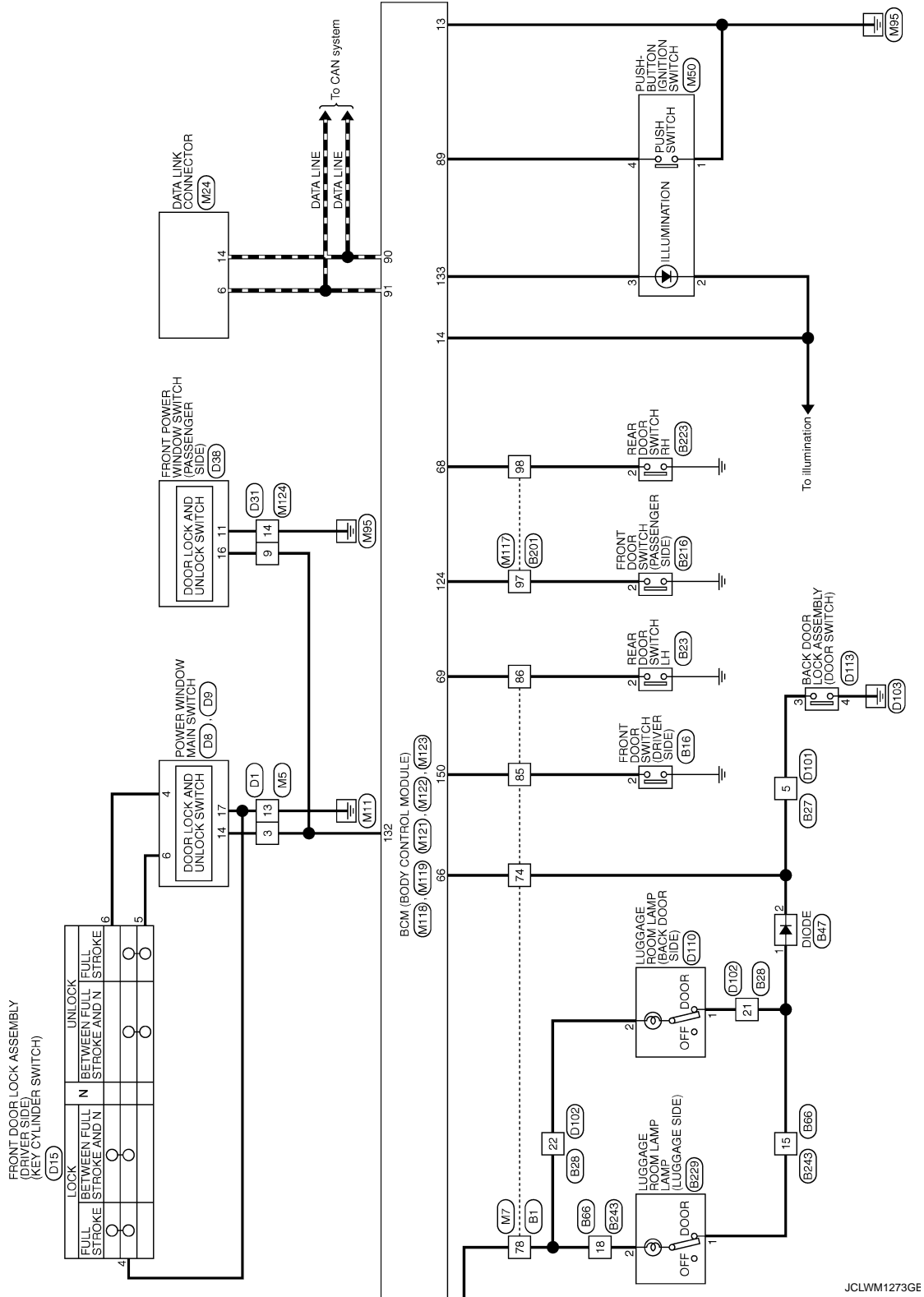
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INTERIOR ROOM LAMP CONTROL SYSTEM

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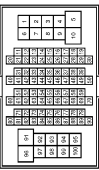









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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP

Connector No. B1	WIRE TO WIRE TH8DFW-CS16-TM4		Terminal No.	Color of Wire	Signal Name [Specification]
74	L	-	74	L	-
76	P	-	76	P	-
85	V	-	85	V	-
88	LG	-	88	LG	-
Connector No. B27	WIRE TO WIRE M82MW-LC		Terminal No.	Color of Wire	Signal Name [Specification]
5	L	-	5	L	-
Connector No. B23	REAR DOOR SWITCH LH A03FW		Terminal No.	Color of Wire	Signal Name [Specification]
2	LG	-	2	LG	-
Connector No. B16	FRONT DOOR SWITCH (DRIVER SIDE) A03FW		Terminal No.	Color of Wire	Signal Name [Specification]
2	V	-	2	V	-
Connector No. B28	WIRE TO WIRE TH24MW-NH		Terminal No.	Color of Wire	Signal Name [Specification]
21	B	-	21	B	-
22	P	-	22	P	-
Connector No. B201	WIRE TO WIRE TH8DFW-CS16-TM4		Terminal No.	Color of Wire	Signal Name [Specification]
97	GR	-	97	GR	-
98	BR	-	98	BR	-
Connector No. B68	WIRE TO WIRE TH24MW-NH		Terminal No.	Color of Wire	Signal Name [Specification]
15	B	-	15	B	-
18	P	-	18	P	-
Connector No. B47	DIODE 24335-C8900		Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-	1	B	-
2	L	-	2	L	-

JCLWM1274GE

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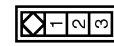
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INTERIOR ROOM LAMP CONTROL SYSTEM

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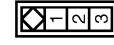
INTERIOR ROOM LAMP

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	AG3FW



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

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	AG3FW



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

Connector No.	B229
Connector Name	LUGGAGE ROOM LAMP (LUGGAGE SIDE)
Connector Type	TK63FW



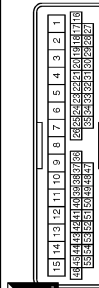
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	L	-

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
15	GR	-
18	L	-

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



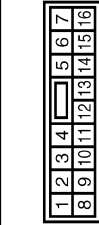
Terminal No.	Color of Wire	Signal Name [Specification]
3	V	-
6	O	-
13	B	-
28	LG	-
34	SB	-
35	R	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



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

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-CS



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

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30FW-CS






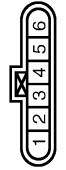












Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-

JCLWM1275GE

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP

Connector No. D12 STEP LAMP (DRIVER SIDE) TB02FW	Connector No. D15 FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) E08FGY-RS	Connector No. D31 WIRE TO WIRE TH48FW-CS15	Connector No. D38 FRONT POWER WINDOW SWITCH (PASSENGER SIDE) NS38FW-CS
 	 	 	 
Terminal No. Color of Wire Signal Name [Specification] 1 R - 2 SB -	Terminal No. Color of Wire Signal Name [Specification] 4 B - 5 Y - 6 V -	Terminal No. Color of Wire Signal Name [Specification] 9 V - 14 B - 25 SB - 28 R -	Terminal No. Color of Wire Signal Name [Specification] 11 B - 16 V -
Connector No. D42 STEP LAMP (PASSENGER SIDE) TB02FW	Connector No. D101 WIRE TO WIRE M06FW-LG	Connector No. D102 WIRE TO WIRE TH24FW-NH	Connector No. D110 LUGGAGE ROOM LAMP (BACK DOOR SIDE) TK03FW
 	 	 	 
Terminal No. Color of Wire Signal Name [Specification] 1 R - 2 SB -	Terminal No. Color of Wire Signal Name [Specification] 5 V -	Terminal No. Color of Wire Signal Name [Specification] 21 V - 22 P -	Terminal No. Color of Wire Signal Name [Specification] 1 V - 2 P -

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

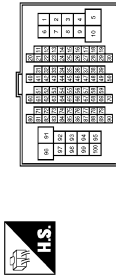
INTERIOR ROOM LAMP

Connector No.	D13
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS4PW-CS



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

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



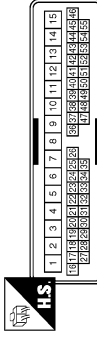
Terminal No.	Color of Wire	Signal Name [Specification]
91	W	-

Connector No.	M1
Connector Name	FUSE BLOCK (U/B)
Connector Type	NS68FW-M2



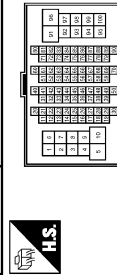
Terminal No.	Color of Wire	Signal Name [Specification]
4A	P	-
7A	R	-

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



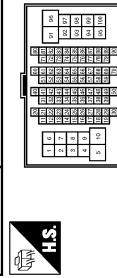
Terminal No.	Color of Wire	Signal Name [Specification]
3	V	-
6	R	-
13	B	-
29	Y	-
34	Y	-
35	P	-

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



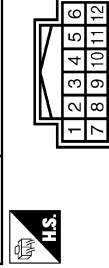
Terminal No.	Color of Wire	Signal Name [Specification]
91	W	-

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



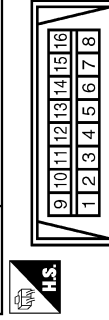
Terminal No.	Color of Wire	Signal Name [Specification]
74	R	-
78	P	-
85	LG	-
86	R	-

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



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

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



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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP

Connector No.	M27
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	AQ2FW



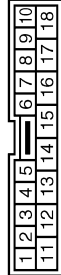
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	BR	-

Connector No.	M90
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK03FBR



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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-ASS



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

Connector No.	M113
Connector Name	FOOT LAMP (PASSENGER SIDE)
Connector Type	AQ2FW



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

Connector No.	M17
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18F-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
97	LG	-
98	BR	-

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



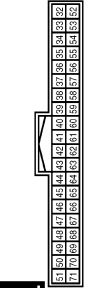
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
7	Y	STEP LAMP OUTPUT
11	R	BAT (FUSE)
13	B	GND
14	W	PUSH-BUTTON IGNITION SW ILL GND
19	V	ROOM LAMP TIMER CONTROL

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



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

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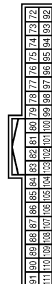
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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >



INTERIOR ROOM LAMP

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


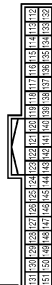
Terminal No.	Color of Wire	Signal Name [Specification]
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
94	Y	PUDDLE LAMP CONT

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FV-NH


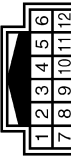
Terminal No.	Color of Wire	Signal Name [Specification]
8	B	-
9	V	-
12	R	-

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


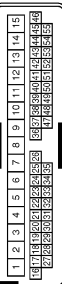
Terminal No.	Color of Wire	Signal Name [Specification]
121	BR	KEY SLOT SW
124	LG	PASSENGER DOOR SW
132	V	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW ILL POWER
150	LG	DRIVER DOOR SW

Connector No.	RI1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
9	W	-
12	O	-

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

Terminal No.	Color of Wire	Signal Name [Specification]
9	Y	-
14	B	-
25	Y	-
28	R	-

Connector No.	RI2
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW




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

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




Terminal No.	Color of Wire	Signal Name [Specification]
6	R	-
7	V	-
9	B	-

Connector No.	RI3
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW




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

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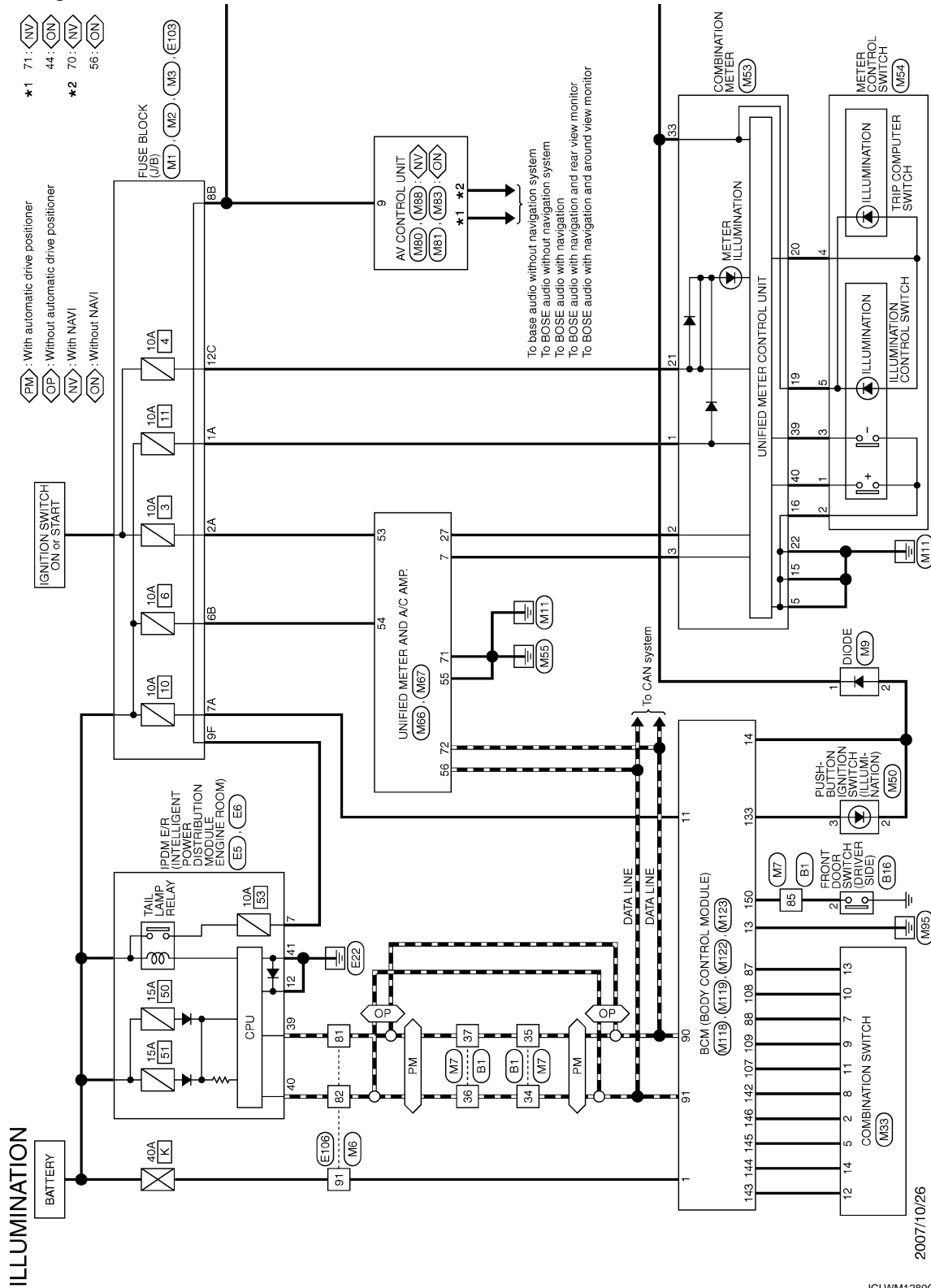
ILLUMINATION

< COMPONENT DIAGNOSIS >

ILLUMINATION

Wiring Diagram - ILLUMINATION -

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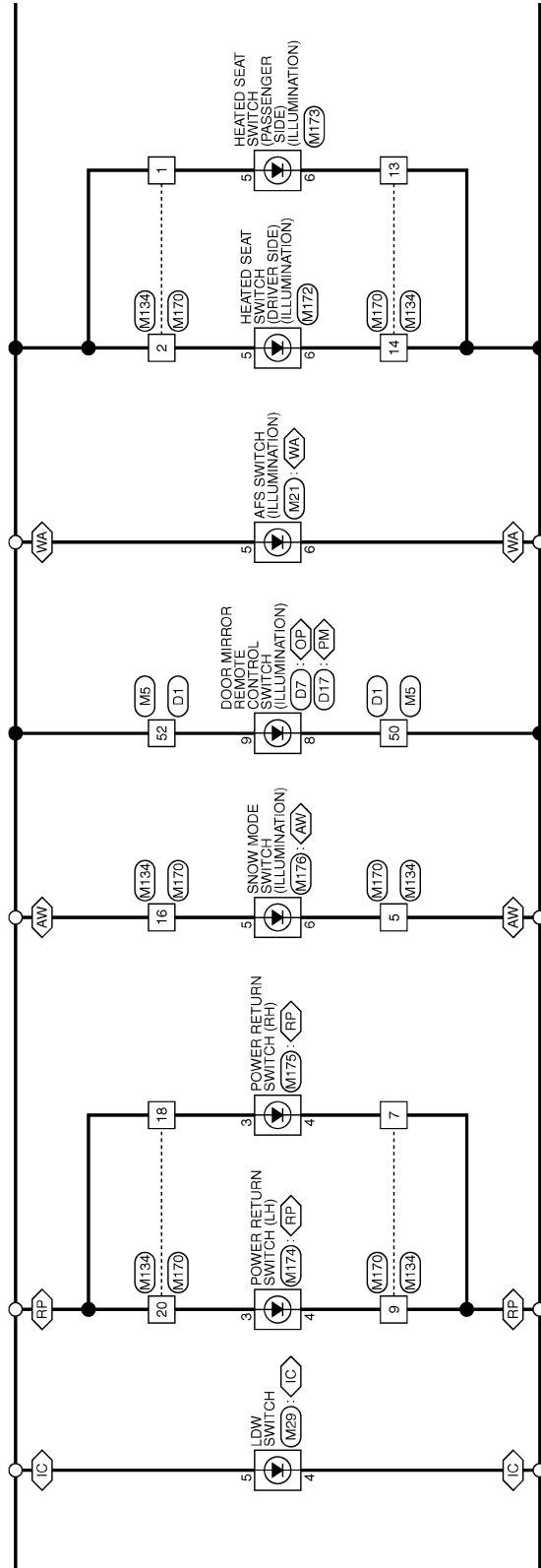
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< COMPONENT DIAGNOSIS >

- <AW> : AWD models
- <WA> : With AFS
- <IC> : With ICC
- <PM> : With automatic drive positioner
- <OP> : Without automatic drive positioner
- <RP> : With rear seatback power return system



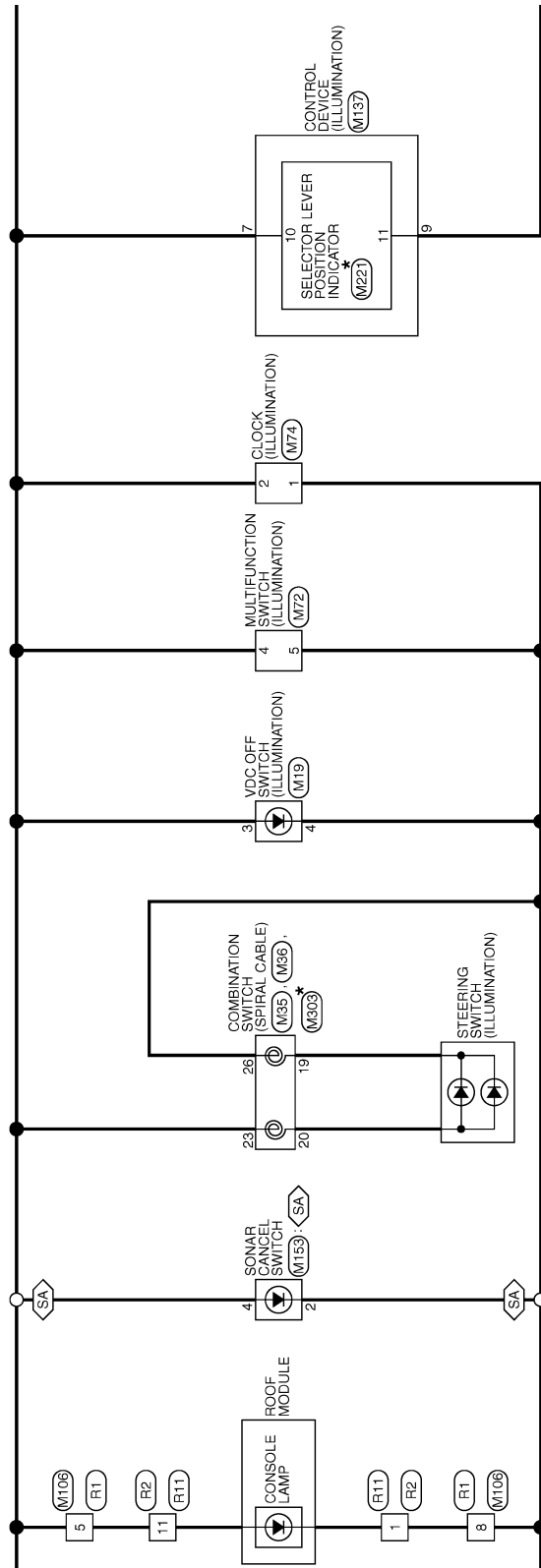
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< COMPONENT DIAGNOSIS >

SA: With sonar system without around view monitor

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

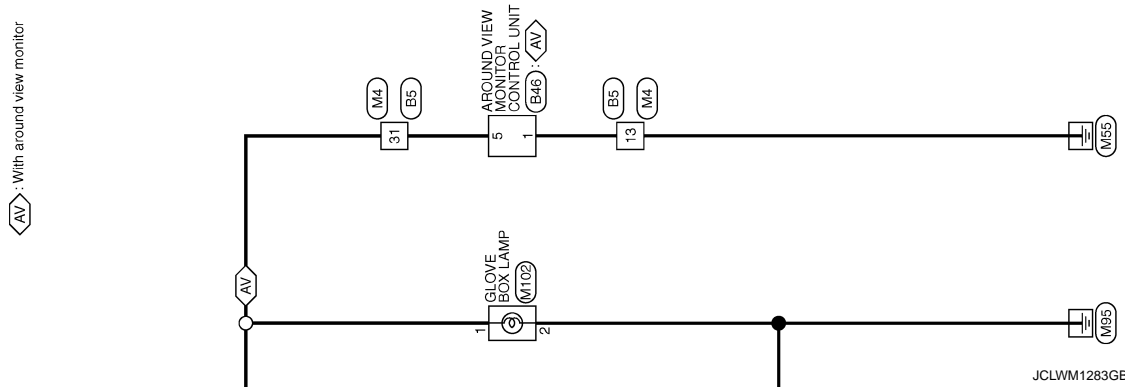


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Connector No. B1	WIRE TO WIRE	TH8DFW-CS16-TM4		Terminal No. 34	Color of Wire L	Signal Name [Specification]	Terminal No. 1	Color of Wire B	Signal Name [Specification]
Connector Name WIRE TO WIRE				35	P		5	O	GND
Connector Type TH8DFW-CS16-TM4				36	L				ILLUMINATION
				37	P				
				85	V				
Connector No. B46	AROUND VIEW MONITOR CONTROL UNIT	TH40FW-NH		Terminal No. 1	B		7	R	
Connector Name AROUND VIEW MONITOR CONTROL UNIT				5	O		12	B/W	
Connector Type TH40FW-NH									
Connector No. B18	FRONT DOOR SWITCH (DRIVER SIDE)	A03FW		Terminal No. 2	V		8	B	
Connector Name FRONT DOOR SWITCH (DRIVER SIDE)							9	R	
Connector Type A03FW									
Connector No. B5	WIRE TO WIRE	TH40MFI-NH		Terminal No. 13	B		9	R	
Connector Name WIRE TO WIRE				31	O				
Connector Type TH40MFI-NH									
Connector No. D1	WIRE TO WIRE	TH40FW-CS15		Terminal No. 50	B		7	R	
Connector Name WIRE TO WIRE				52	R				
Connector Type TH40FW-CS15									
Connector No. D7	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)	TK18FW		Terminal No. 8	B		9	R	
Connector Name DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)				9	R				
Connector Type TK18FW									
Connector No. D17	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)	TK18FBR		Terminal No. 8	B		9	R	
Connector Name DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)				9	R				
Connector Type TK18FBR									
Connector No. E5	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	TH2DFW-CS12-M4-1V		Terminal No. 7	R		12	B/W	
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)									
Connector Type TH2DFW-CS12-M4-1V									

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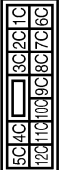


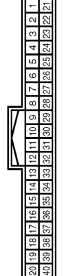
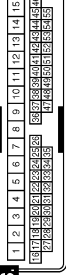
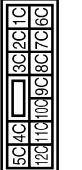
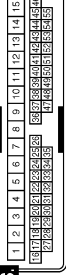
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< COMPONENT DIAGNOSIS >

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Connector No. E6	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	TH8BFW-NH		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name				39	P	-
Connector Type				40	L	-
				41	B/W	-
Connector No. M1	FUSE BLOCK (J/B)	NS30FW-M2		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name				1A	GR	-
Connector Type				2A	G	-
				7A	R	-
Connector No. E103	FUSE BLOCK (J/B)	NS12FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name				9F	R	-
Connector Type						
Connector No. M3	FUSE BLOCK (J/B)	NS12FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name						
Connector Type						
Connector No. M2	FUSE BLOCK (J/B)	NS10FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name						
Connector Type						
Connector No. E106	WIRE TO WIRE	TH40FW-CS16-TM4		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name				81	P	-
Connector Type				82	L	-
				91	W	-
Connector No. M4	WIRE TO WIRE	TH40FW-NH		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name						
Connector Type						
Connector No. M5	WIRE TO WIRE	TH40MY-CS15		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name						
Connector Type						
Connector No. E105	FUSE BLOCK (J/B)	NS12FW-CS		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name						
Connector Type						
Connector No. M5	WIRE TO WIRE	TH40MY-CS15		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name						
Connector Type						

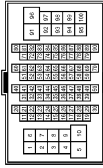
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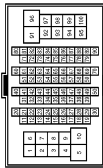
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Connector No.	M6	Connector No.	M7	Connector No.	M8	Connector No.	M9	Connector No.	M19
Connector Name	WIRE TO WIRE	WIRE TO WIRE	WIRE TO WIRE	DIODE	DIODE	VDC OFF SWITCH	VDC OFF SWITCH	VDC OFF SWITCH	VDC OFF SWITCH
Connector Type	TH80MW-CS1F-TM4	TH80MW-CS1F-TM4	TH80MW-CS1F-TM4	24335-CS900	24335-CS900	TK08FGY	TK08FGY	TK08FGY	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
81	P	-
82	L	-
91	W	-



Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	P	-
85	LG	-



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



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

ILLUMINATION

Connector No.	M21
Connector Name	AFS SWITCH
Connector Type	TK08FW-1V



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

Connector No.	M29
Connector Name	LDW SWITCH
Connector Type	TK08FGY



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

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH18FW-RH



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

Connector No.	M35
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FY-EX-1V



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

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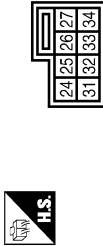
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-TV



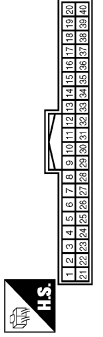
Terminal No.	Color of Wire	Signal Name [Specification]
26	B	-

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR



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

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



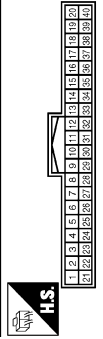
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BAT
2	LG	COMM (METER->AMP.)
3	GR	COMM (AMP->METER)
5	B	GND
15	B	GND
16	B	METER CONTROL SW GND
18	B	ILL GND
20	R	ILL
21	O	IGN
22	B	GND
33	B	ILLUMINATION CONTROL

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12MW-NH



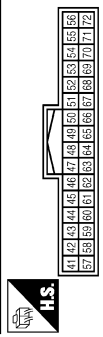
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	P	-
4	R	-
5	B	-

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



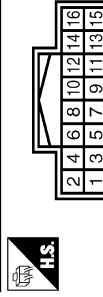
Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	IGN
27	LG	COMM (AMP->METER)
		COMM (METER->AMP.)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
53	G	IGN
54	Y	BAT
55	B	GND
56	L	CAN-H
71	B	GND
72	P	CAN-L

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	ILL
5	Y	ILL CONT

39	P	ILLUMINATION CONTROL SW (-)
40	O	ILLUMINATION CONTROL SW (+)

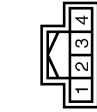
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ILLUMINATION

Connector No.	M74
Connector Name	CLOCK
Connector Type	TH2FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	ILLUMINATION (-)
2	R	ILLUMINATION (+)

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
9	R	ILLUMINATION

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
9	R	ILLUMINATION

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
44	BR	COMM (DISP->CONT)
56	Y	COMM (CONT->DISP)

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M102
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Connector No.	M118
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	MD3FB-1C



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

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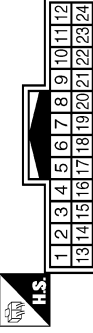
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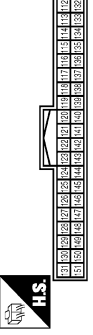
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Connector No.	M134
Connector Name	WIRE TO WIRE
Connector Type	TH24MR-NH



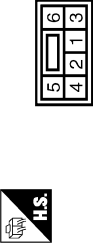
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	R	-
5	R	-
7	R	-
9	B	-
13	W	-
14	W	-
16	P	-
18	L	-
20	L	-

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



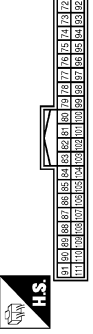
Terminal No.	Color of Wire	Signal Name [Specification]
133	W	PUSH-BUTTON IGNITION SW ILL POWER
142	O	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	LG	DRIVER DOOR SW

Connector No.	M172
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	NS08FW-CS



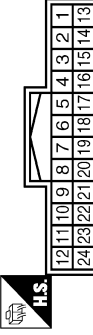
Terminal No.	Color of Wire	Signal Name [Specification]
5	L	-
6	W	-

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




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

Connector No.	M170
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-
5	SB	-
7	V	-
9	B	-
13	O	-
14	W	-
16	P	-
18	G	-
20	R	-

Connector No.	M153
Connector Name	SONAR CANCEL SWITCH
Connector Type	TK08FW




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

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



Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND
14	W	PUSH-BUTTON IGNITION SW ILL GND

Connector No.	M137
Connector Name	CONTROL DEVICE
Connector Type	TH12FW-NH



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

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ILLUMINATION

< COMPONENT DIAGNOSIS >

ILLUMINATION

Connector No.	M173	Connector No.	M174	Connector No.	M175	Connector No.	M176
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)	Connector Name	POWER RETURN SWITCH (LH)	Connector Name	POWER RETURN SWITCH (RH)	Connector Name	SNOW MODE SWITCH
Connector Type	NS08FBF-CS	Connector Type	TK03FW	Connector Type	TK04FW-B	Connector Type	TK08FW

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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
5	P	-
6	SS	-

Connector No.	M221	Connector No.	M303	Connector No.	R1	Connector No.	R2
Connector Name	SELECTOR LEVER POSITION INDICATOR	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH12FW	Connector Type	TK08FGY	Connector Type	TK10FW-NS8	Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
10	R	ILL
11	B	GND

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

Terminal No.	Color of Wire	Signal Name [Specification]
10	Y	-
5	Y	-
8	B	-

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

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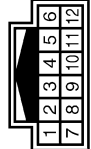
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ILLUMINATION

< COMPONENT DIAGNOSIS >

ILLUMINATION	
Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	FH2MW-NH

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

JCLWM1291GE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000003784932

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the 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	NOTE: The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the key is not pressed	Off
	PANIC button of the key is pressed	On
RKE-P/W OPEN	UNLOCK button of the key is not pressed	Off
	UNLOCK button of the key is pressed and held	On
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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V	A
	Dark outside of the vehicle	Close to 0 V	
REQ SW -DR	Driver door request switch is not pressed	Off	B
	Driver door request switch is pressed	On	
REQ SW -AS	Passenger door request switch is not pressed	Off	C
	Passenger door request switch is pressed	On	
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off	D
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	D
REQ SW -BD/TR	Back door request switch is not pressed	Off	E
	Back door request switch is pressed	On	
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off	F
	Push-button ignition switch (push switch) is pressed	On	
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off	G
	Ignition switch in ON position	On	
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off	G
BRAKE SW 1	The brake pedal is not depressed	On	H
	The brake pedal is depressed	Off	
DETE/CANCL SW	Selector lever in P position	Off	I
	Selector lever in any position other than P	On	
SFT PN/N SW	Selector lever in any position other than P and N	Off	J
	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	N
	Ignition switch in ON position	On	
DETE SW -IPDM	Selector lever in P position	Off	O
	Selector lever in any position other than P	On	
SFT PN -IPDM	Selector lever in any position other than P and N	Off	P
	Selector lever in P or N position	On	
SFT P -MET	Selector lever in any position other than P	Off	
	Selector lever in P position	On	
SFT N -MET	Selector lever in any position other than N	Off	
	Selector lever in N position	On	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is locked	Off
	Steering is unlocked	On
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

BCM (BODY CONTROL MODULE)

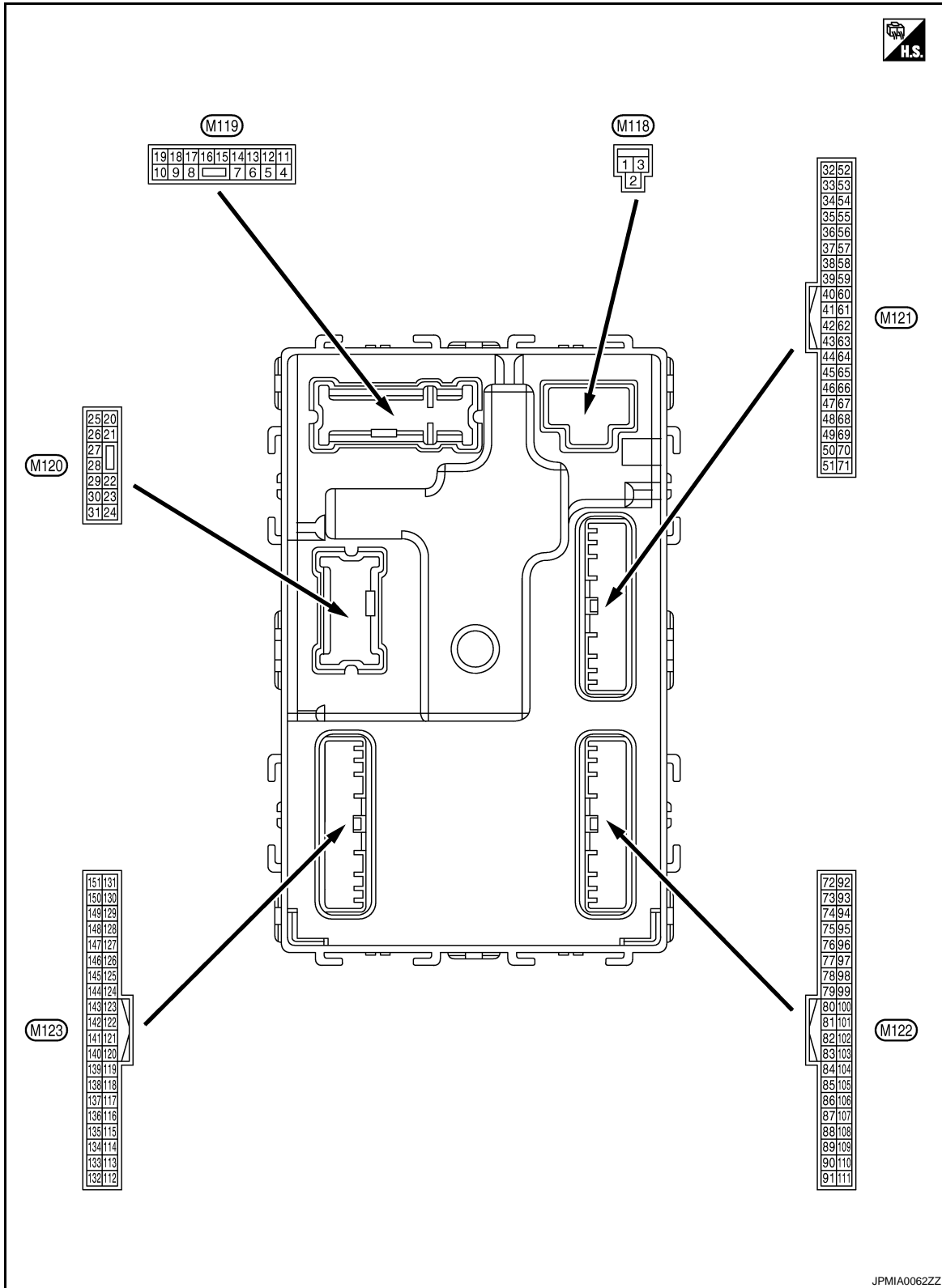
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Monitor Item	Condition	Value/Status	
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet	A
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE	B
TP 4	The ID of fourth key is not registered to BCM	Yet	C
	The ID of fourth key is registered to BCM	DONE	
TP 3	The ID of third key is not registered to BCM	Yet	D
	The ID of third key is registered to BCM	DONE	
TP 2	The ID of second key is not registered to BCM	Yet	E
	The ID of second key is registered to BCM	DONE	
TP 1	The ID of first key is not registered to BCM	Yet	F
	The ID of first key is registered to BCM	DONE	
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire	G
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire	H
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire	I
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire	J
ID REGST FL1	ID of front LH tire transmitter is registered	DONE	K
	ID of front LH tire transmitter is not registered	Yet	
ID REGST FR1	ID of front RH tire transmitter is registered	DONE	L
	ID of front RH tire transmitter is not registered	Yet	
ID REGST RR1	ID of rear RH tire transmitter is registered	DONE	M
	ID of rear RH tire transmitter is not registered	Yet	
ID REGST RL1	ID of rear LH tire transmitter is registered	DONE	N
	ID of rear LH tire transmitter is not registered	Yet	
WARNING LAMP	Tire pressure indicator OFF	Off	O
	Tire pressure indicator ON	On	
BUZZER	Tire pressure warning alarm is not sounding	Off	P
	Tire pressure warning alarm is sounding	On	

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BCM (BODY CONTROL MODULE)

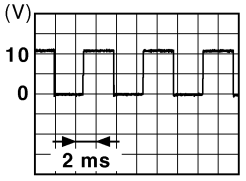
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 TERMINAL LAYOUT



PHYSICAL VALUES

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4 (LG)	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 (L)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp	Output	Step lamp	ON	0 V
						OFF
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
						Other than LOCK (Actuator is not activated)
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
						Other than UNLOCK (Actuator is not activated)
10 (BR)	Ground	Rear RH door and rear LH door UN- LOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	Battery voltage
						Other than UNLOCK (Actuator is not activated)
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	Battery voltage
					ACC	0 V

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch RH	0 V
					<p style="text-align: right;">PKID0926E 6.5 V</p>
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch LH	0 V
					<p style="text-align: right;">PKID0926E 6.5 V</p>
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF
				Battery voltage	ON
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch RH	0 V
					<p style="text-align: right;">PKID0926E 6.5 V</p>
23 (G)	Ground	Back door opening	Output	Back door	OPEN (Back door opener actuator is activated)
				Battery voltage	Other than OPEN (Back door opener actuator is not activated)
					0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch LH	0 V
					<p style="text-align: right;">PKID0926E 6.5 V</p>
26 (G)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)
				Battery voltage	ON (Operated)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (SB)	Ground	Luggage room antenna 1 (-)	Output	Ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p>JMKIA0063GB</p>
35 (V)	Ground	Luggage room antenna 1 (+)	Output	Ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p>JMKIA0063GB</p>
38 (B)	Ground	Rear bumper antenna (-)	Output	When the back door request switch is operated with ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>

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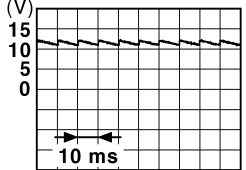
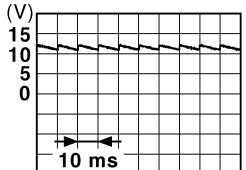
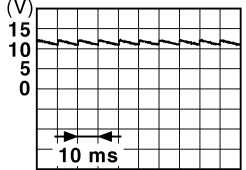
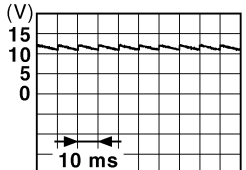
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
39 (W)	Ground	Rear bumper antenna (+)	Output	When the back door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	
					When Intelligent Key is not in the antenna detection area	
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
52 (SB)	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 V
61 (W)	Ground	Back door opener request switch	Input	Back door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	<p style="text-align: center;">1.0 V</p>
64 (V)	Ground	Request switch buzzer	Output	Request switch buzzer	Sounding	0 V
					Not sounding	Battery voltage
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	<p style="text-align: center;">1.0 V</p>
					Not in stop position	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	 <small>JPMIA0011GB</small> 11.8 V
					ON (Door open)	0 V
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 <small>JPMIA0011GB</small> 11.8 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	 <small>JPMIA0011GB</small> 11.8 V
					ON (Door open)	0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	 <small>JPMIA0011GB</small> 11.8 V
					ON (Door open)	0 V

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
74 (SB)	Ground	Passenger door an- tenna (-)	Output	When the pas- senger door re- quest switch is operated with ig- nition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

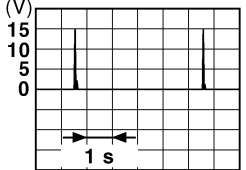
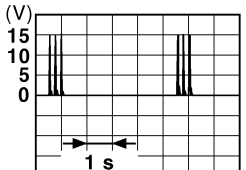
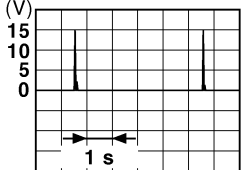
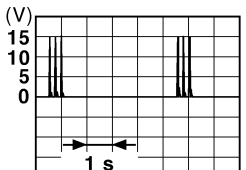
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
75 (GR)	Ground	Passenger door antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
77 (LG)	Ground	Driver door antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

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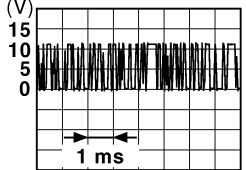
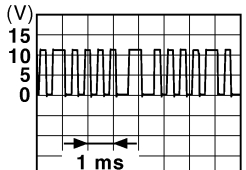
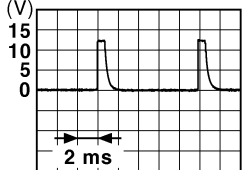
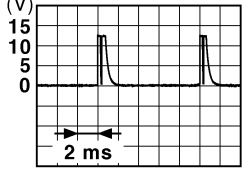

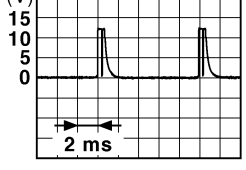
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
78 (Y)	Ground	Room antenna (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment  JMkia0062GB
					When Intelligent Key is not in the passenger compart- ment  JMkia0063GB
79 (BR)	Ground	Room antenna (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment  JMkia0062GB
					When Intelligent Key is not in the passenger compart- ment  JMkia0063GB
80 (GR)	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 (W)	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)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC 0 V
				ON	Battery voltage

BCM (BODY CONTROL MODULE)

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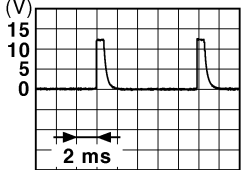
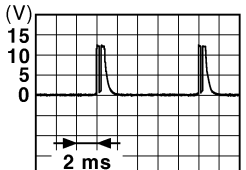
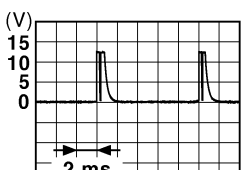
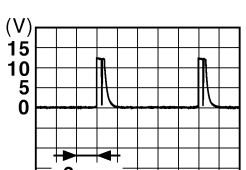

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
83 (Y)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting	 <small>JMKIA0064GB</small>	
				When operating either button on the key	 <small>JMKIA0065GB</small>	
87 (BR)	Ground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

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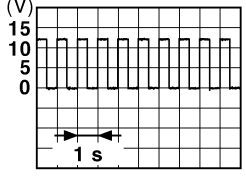
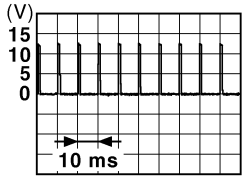
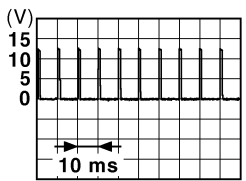
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Rear washer switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the conditions below with all switch OFF	 <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>
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	—	—	

BCM (BODY CONTROL MODULE)

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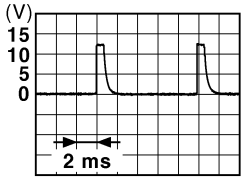
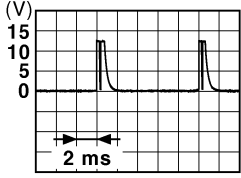
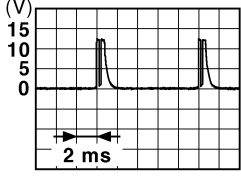
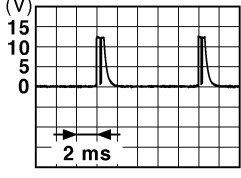

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
92 (LG)	Ground	Key slot illumination	Output	Key slot illumination	OFF	Battery voltage
					Blinking	 <p style="text-align: center;">6.5 V</p> <p style="text-align: right; font-size: small;">JPMIA0015GB</p>
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
94 (Y)	Ground	Puddle lamp control	Output	Puddle lamp	OFF	Battery voltage
					ON	0 V
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (GR)	Ground	Control device (Detention switch) power supply	Output	—	Battery voltage	
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	Battery voltage
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <p style="text-align: center;">1.0 V</p> <p style="text-align: right; font-size: small;">JPMIA0016GB</p>
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 <p style="text-align: center;">1.0 V</p> <p style="text-align: right; font-size: small;">JPMIA0016GB</p>
102 (O)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage

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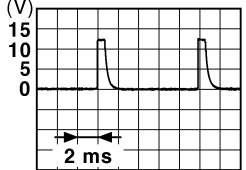
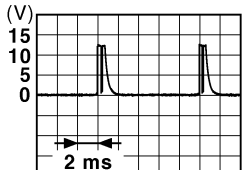

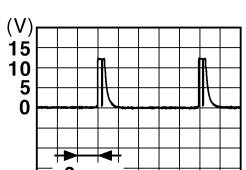

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
106 (W)	Ground	Steering wheel lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Turn signal switch LH	 <p style="text-align: right; font-size: small;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: right; font-size: small;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: right; font-size: small;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

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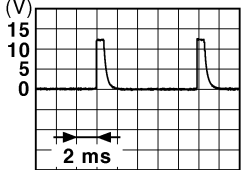

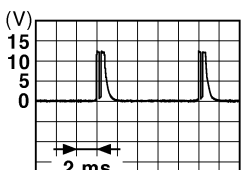
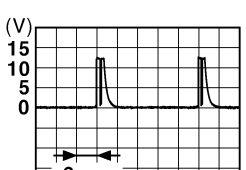
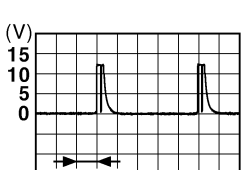
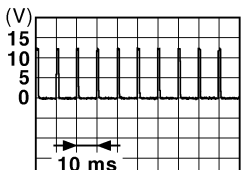
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
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108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 1.4 V
					Lighting switch AUTO (Wiper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

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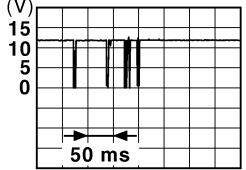
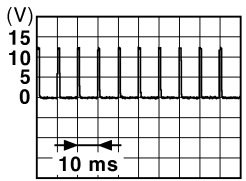
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: right;">1.3 V</p>
					Lighting switch 2ND	 <p style="text-align: right;">1.3 V</p>
					Front wiper switch INT	 <p style="text-align: right;">1.3 V</p>
					Front wiper switch HI	 <p style="text-align: right;">1.3 V</p>
110 (G)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
				Hazard switch	OFF	 <p style="text-align: right;">1.1 V</p>

BCM (BODY CONTROL MODULE)

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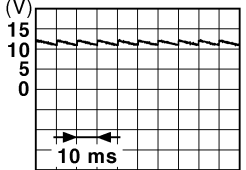
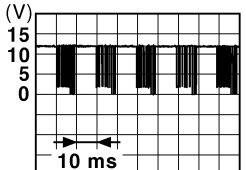
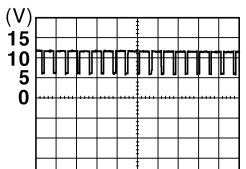
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	 <p style="text-align: right; font-size: small;">JMKIA0066GB</p>
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113* (P)	Ground	Optical sensor signal	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
				When dark outside of the vehicle	Close to 0 V	
116 (SB)	Ground	Fuse check [Stop lamp switch, ICC brake hold relay (With ICC)]	Input	—	Battery voltage	
118 (P)	Ground	Stop lamp switch (Without ICC)	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
		Stop lamp switch and ICC brake hold relay (With ICC)		Stop lamp switch OFF (Brake pedal is not de- pressed) and ICC brake hold relay OFF	0 V	
				Stop lamp switch ON (Brake pedal is de- pressed) or ICC brake hold relay ON	Battery voltage	
119 (SB)	Ground	Front door lock as- sembly driver side (unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 <p style="text-align: right; font-size: small;">JPMIA0012GB</p>
					UNLOCK status (Unlock switch sensor ON)	0 V
					1.1 V	
121 (BR)	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)	Ground	ACC feedback signal	Input	Ignition switch	OFF	0 V
				ACC or ON	Battery voltage	
123 (W)	Ground	IGN feedback signal	Input	Ignition switch	OFF or ACC	0 V
				ON	Battery voltage	

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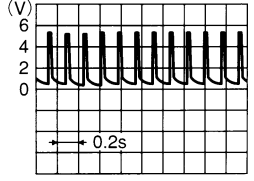
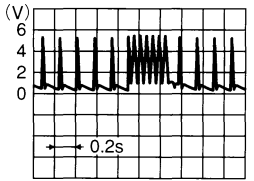
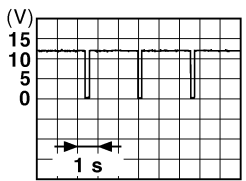
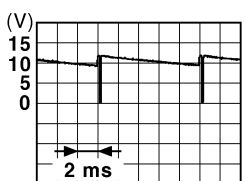
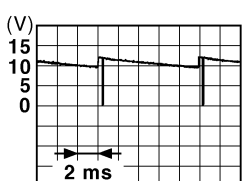
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p> <p style="text-align: center;">11.8 V</p>
					ON (Door open)	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0013GB</p> <p style="text-align: center;">10.2 V</p>	
					Ignition switch OFF or ACC	Battery voltage
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button igni- tion switch illumina- tion	ON (Tail lamps OFF)	9.5 V
					ON (Tail lamps ON)	<p>NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.</p>  <p style="text-align: right; font-size: small;">JPMIA0159GB</p>
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON	0 V	
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

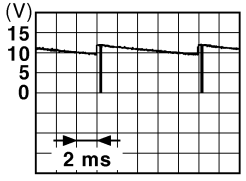
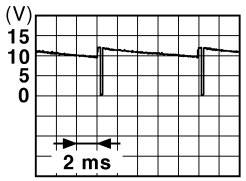
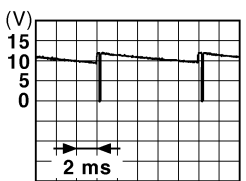
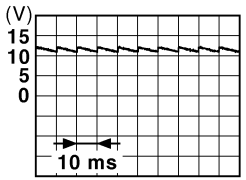
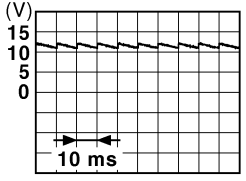
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
139 (L)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state 
					When receiving the signal from the transmitter 
140 (GR)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position Battery voltage
					Except P and N positions 0 V
141 (G)	Ground	Security indicator signal	Output	Security indicator	ON 0 V
					Blinking  11.3 V
					OFF Battery voltage
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF 0 V
					Lighting switch 1ST  10.7 V
					Lighting switch HI
					Lighting switch 2ND
				Turn signal switch RH	
143 (P)	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)  10.7 V
					Rear wiper switch INT (Wiper intermittent dial 4)
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7

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BCM (BODY CONTROL MODULE)

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Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
+	-	Signal name	Input/ Output				
144 (G)	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)		
					Rear wiper switch ON (Wiper intermittent dial 4)		
					Rear washer switch ON (Wiper intermittent dial 4)		
					Any of the conditions below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 		
145 (L)	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		
146 (SB)	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		
149 (W)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch ON		11.8 V	
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)		11.8 V
					ON (Door open)	0 V	
151 (G)	Ground	Rear window defog- ger relay	Output	Rear window de- fogger	Active	0 V	
					Not activated	Battery voltage	

BCM (BODY CONTROL MODULE)

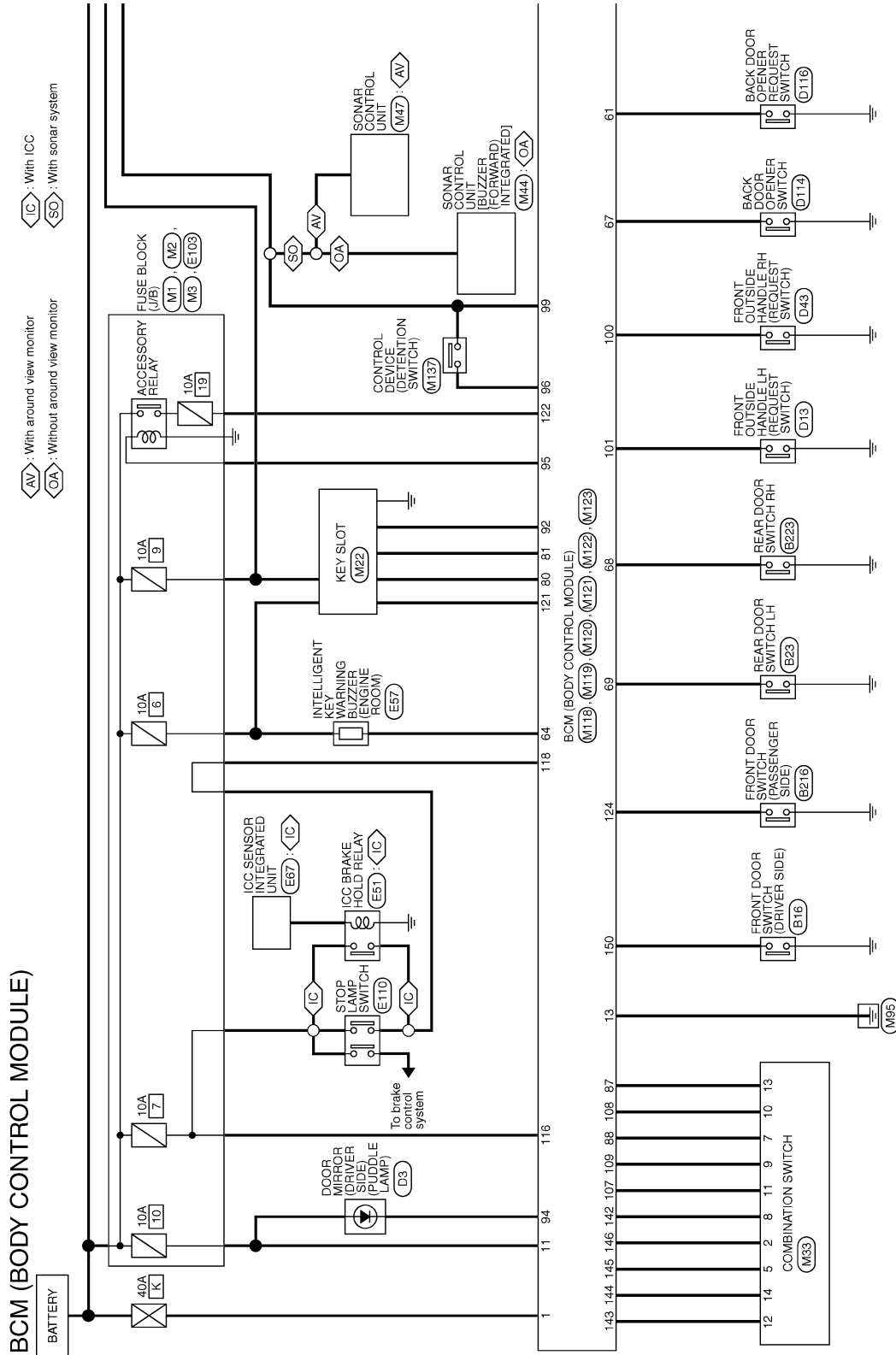
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NOTE:

*: With auto light system

Wiring Diagram - BCM -

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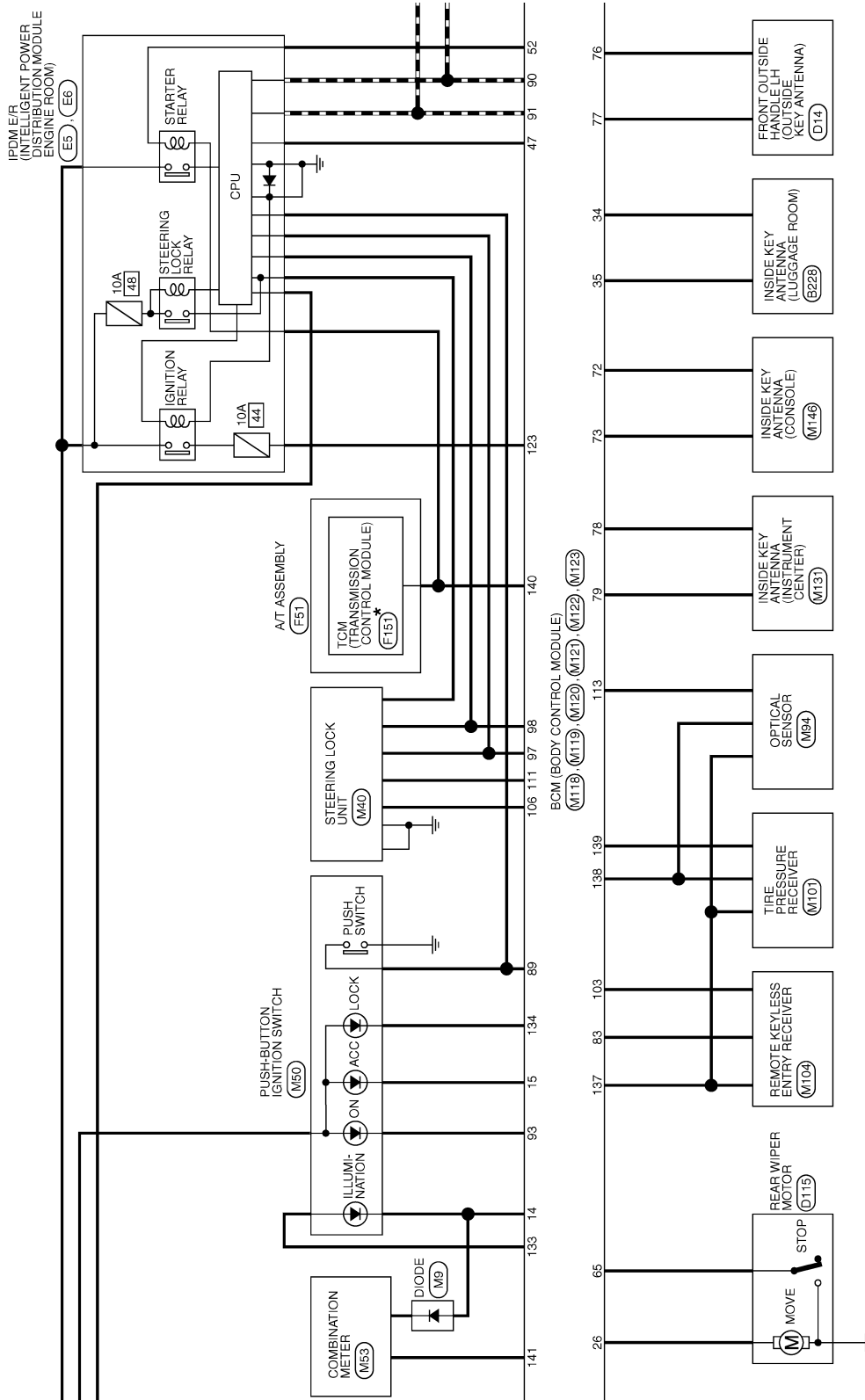
JCMWM1398G

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BCM (BODY CONTROL MODULE)

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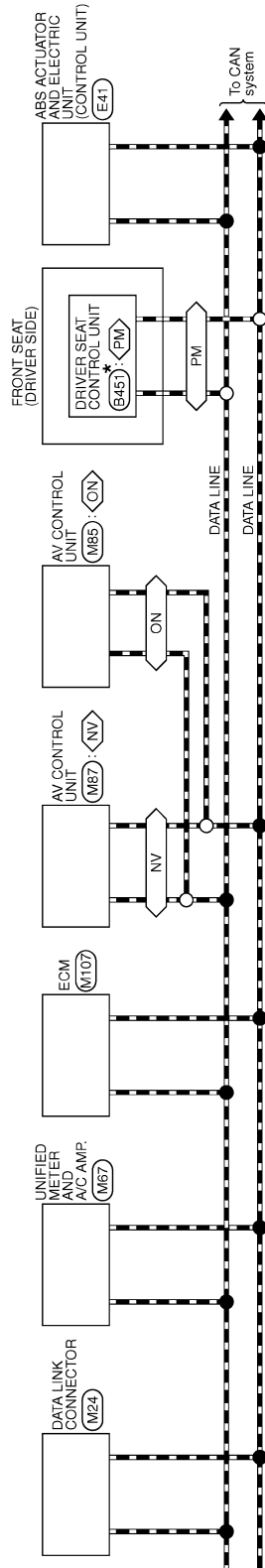
*: This connector is not shown in "Harness Layout".

JCMWM1399G

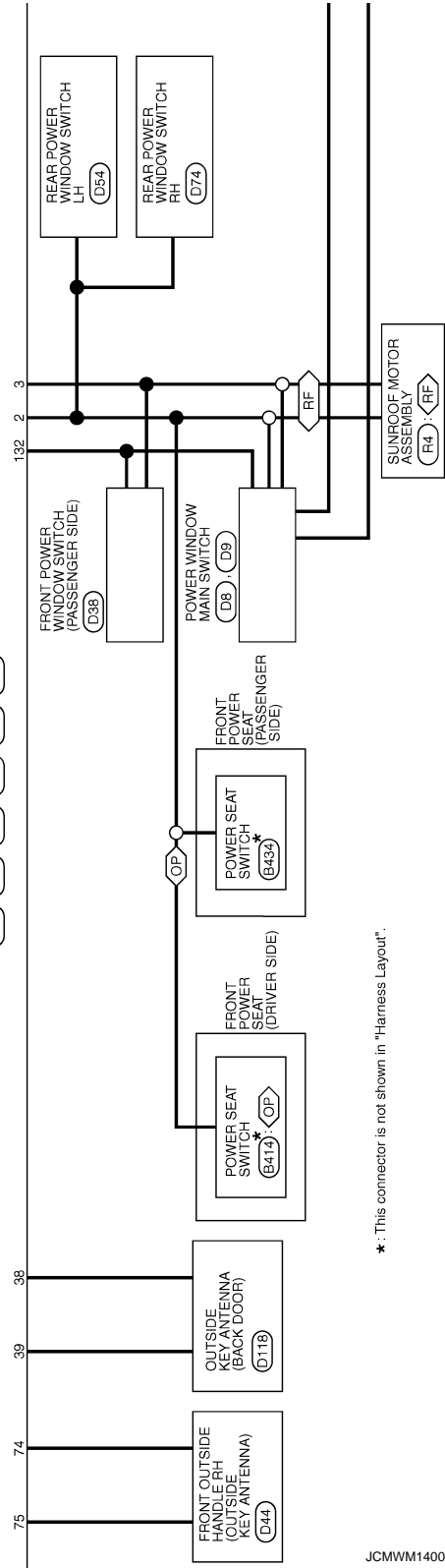
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

- ◀NV▶ : With NAVI
- ◀ON▶ : Without NAVI
- ◀RF▶ : With sunroof
- ◀PM▶ : With automatic drive positioner
- ◀OP▶ : Without automatic drive positioner



BCM (BODY CONTROL MODULE)
 (M119) (M120) (M121) (M122) (M123)



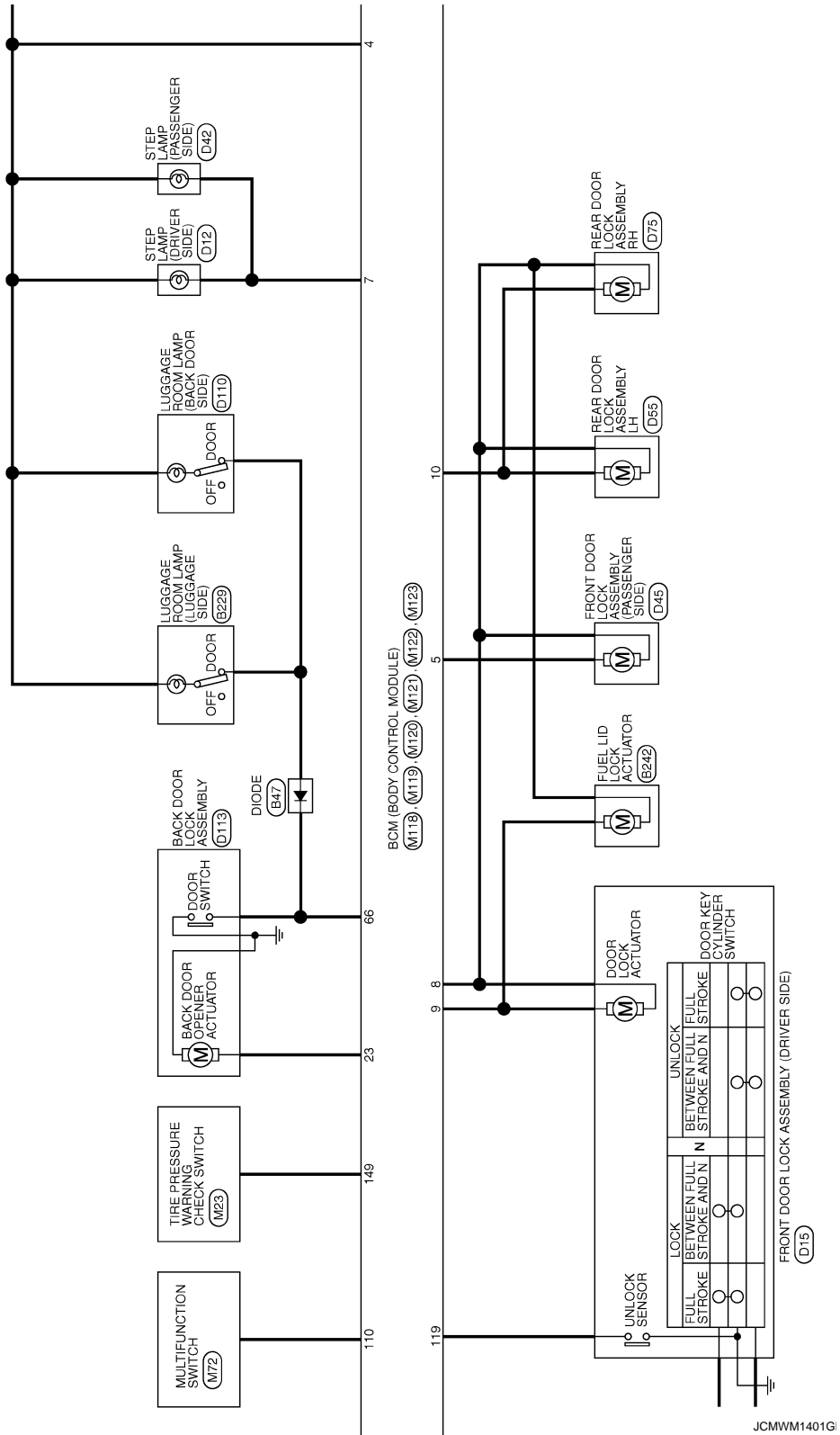
* : This connector is not shown in "Harness Layout".

JCMWM1400G1

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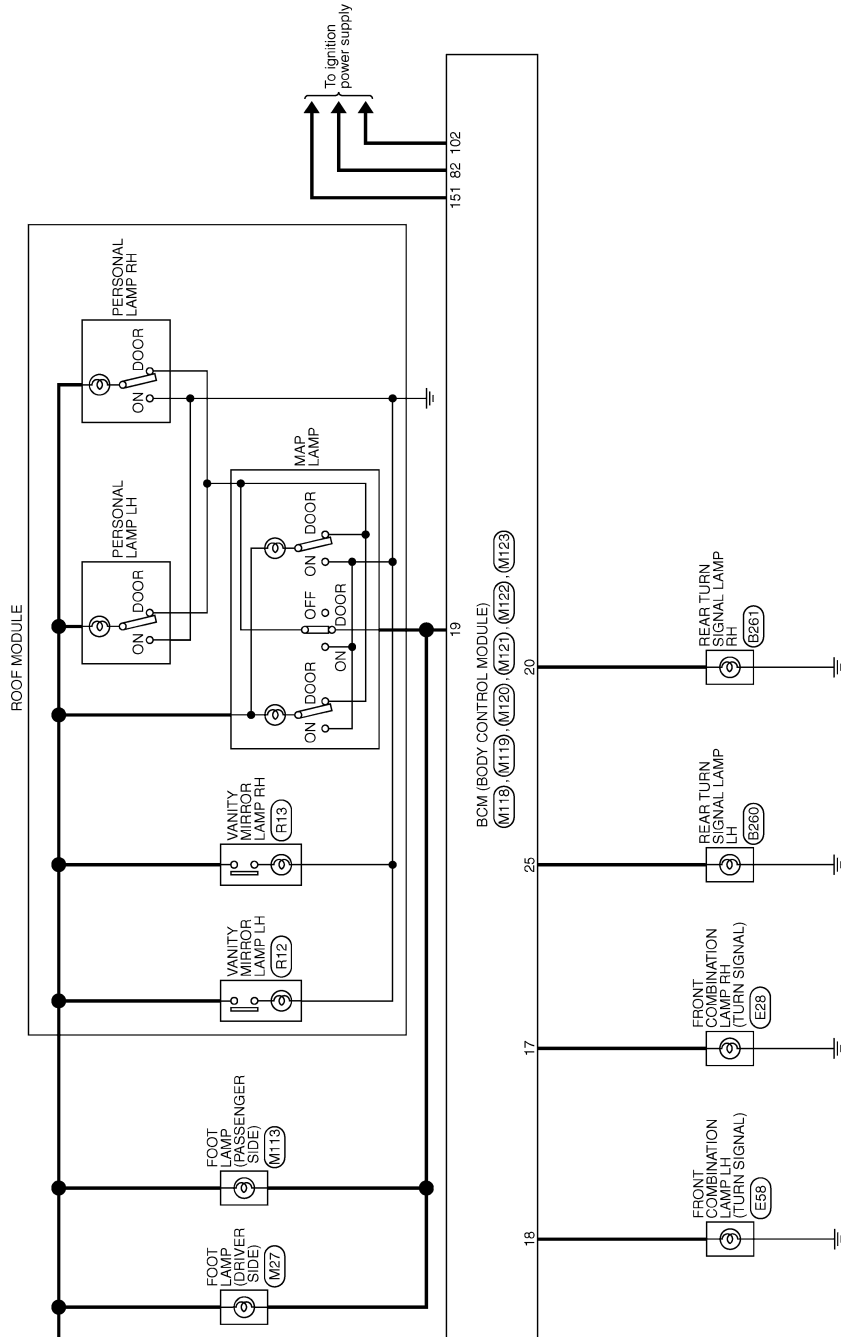
BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)

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JCMWM1402GI

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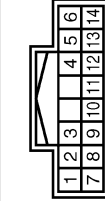
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BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	G	BACK DOOR OPEN OUTPUT
25	G	TURN SIGNAL LH (REAR)
26	G	REAR WIPER OUTPUT

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



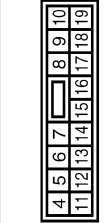
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY(BAT)
3	O	POWER WINDOW POWER SUPPLY(TRAP)

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



Terminal No.	Color of Wire	Signal Name [Specification]
34	SB	LUGGAGE ROOM ANTI-
35	V	LUGGAGE ROOM ANTI+
38	B	REAR BUMPER ANTI-
39	W	REAR BUMPER ANTI+
47	Y	IGN RELAY IPDM E/R CONT
52	SB	STARTER RELAY CONT
61	W	BACK DOOR OPENER REQUEST SW
64	V	REQUEST SW BUZZER
65	O	REAR WIPER STOP POSITION
66	R	BACK DOOR SW
67	GR	BACK DOOR OPENER SW

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	L	PASSANGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (R/USE)
13	B	GND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ACC IN0
17	W	TURN SIGNAL RH (FRONT)

68	BR	REAR RH DOOR SW
69	R	REAR LH DOOR SW

18	O	TURN SIGNAL LH (FRONT)
19	V	ROOM LAMP TIMER CONTROL

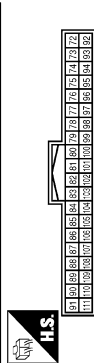
JCMWM1403G

BCM (BODY CONTROL MODULE)

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BCM (BODY CONTROL MODULE)

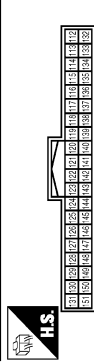
Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	GR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANTI-
79	BR	ROOM ANTI+
80	GR	IMMOBI ANTENNA CONTROL
81	W	IMMOBI ANTENNA SIGNAL
82	R	IGN RELAY (F/B) CONT

83	Y	KEYLESS TIMER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	Y	ON IND
94	Y	PUDDLE LAMP CONT
95	O	ACC RELAY CONT
96	GR	A-T DEVICE POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	IGN F/B
109	Y	COMBI SW INPUT 4
110	G	COMBI SW INPUT 2
111	Y	HAZARD SW
		S/L COMM

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



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	FUSE CHECK
118	P	STOP LAMP SW
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
122	V	ACC F/B
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	V	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND

137	O	RECEIVER SENSOR GND
138	Y	RECEIVER SENSOR POWER SUPPLY
139	L	TIRE PRESS RECEIVER SIGNAL
140	GR	SHIFT N/P
141	G	SECURITY INDICATOR OUTPUT
142	O	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
149	W	TIRE PRESS WARNING CHECK SW
150	LG	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

JCMWM1404G

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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 <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions is fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions is fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position <ul style="list-style-type: none"> - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

BCM (BODY CONTROL MODULE)

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Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When the following steering lock conditions agree <ul style="list-style-type: none"> • BCM steering lock control status • Steering lock condition No. 1 signal status • Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Steering lock unit status signal (CAN) is received normally • The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B26E9: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions is fulfilled <ul style="list-style-type: none"> • Steering condition No. 1 signal: LOCK (0V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

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

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

NOTE:

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

DTC Inspection Priority Chart

INFOID:000000003784935

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN)
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM

BCM (BODY CONTROL MODULE)

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Priority	DTC
4	<ul style="list-style-type: none"> • B2013: ID DISCORD BCM-S/L • B2014: CHAIN OF S/L-BCM • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2606: S/L RELAY • B2607: S/L RELAY • B2608: STARTER RELAY • B2609: S/L STATUS • B260A: IGNITION RELAY • B260B: STEERING LOCK UNIT • B260C: STEERING LOCK UNIT • B260D: STEERING LOCK UNIT • B260F: ENG STATE SIG LOST • B2612: S/L STATUS • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E1: ENG STATE NO RECIV • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT
6	<ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

BCM (BODY CONTROL MODULE)

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DTC Index

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NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data and IGN Counter, refer to [INL-14, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM CIRCUIT	—	—	—	—	BCS-37
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-38
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-39
B2013: ID DISCORD BCM-S/L	×	×	—	—	SEC-48
B2014: CHAIN OF S/L-BCM	×	×	—	—	SEC-49
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-42
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-45
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-46
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-47
B2553: IGNITION RELAY	—	×	—	—	PCS-49
B2555: STOP LAMP	—	×	—	—	SEC-52
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-54
B2557: VEHICLE SPEED	×	×	×	—	SEC-56
B2560: STARTER CONT RELAY	×	×	×	—	SEC-57
B2562: LOW VOLTAGE	—	×	—	—	BCS-40
B2601: SHIFT POSITION	×	×	×	—	SEC-58
B2602: SHIFT POSITION	×	×	×	—	SEC-61
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-63
B2604: PNP SW	×	×	×	—	SEC-66
B2605: PNP SW	×	×	×	—	SEC-68
B2606: S/L RELAY	×	×	×	—	SEC-70
B2607: S/L RELAY	×	×	×	—	SEC-71
B2608: STARTER RELAY	×	×	×	—	SEC-73
B2609: S/L STATUS	×	×	×	—	SEC-75
B260A: IGNITION RELAY	×	×	×	—	PCS-51
B260B: STEERING LOCK UNIT	—	×	×	—	SEC-79
B260C: STEERING LOCK UNIT	—	×	×	—	SEC-80
B260D: STEERING LOCK UNIT	—	×	×	—	SEC-81
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-82
B2612: S/L STATUS	×	×	×	—	SEC-86
B2614: ACC RELAY CIRC	—	×	×	—	PCS-53
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-57
B2616: IGN RELAY CIRC	—	×	×	—	PCS-59
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-90

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2618: BCM	×	×	×	—	PCS-61
B2619: BCM	×	×	×	—	SEC-92
B261A: PUSH-BTN IGN SW	—	×	×	—	SEC-93
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-96
B2621: INSIDE ANTENNA	—	×	—	—	DLK-56
B2622: INSIDE ANTENNA	—	×	—	—	DLK-58
B2623: INSIDE ANTENNA	—	×	—	—	DLK-60
B26E1: ENG STATE NO RES	×	×	×	—	SEC-83
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	—	SEC-84
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	SEC-85
C1704: LOW PRESSURE FL	—	—	—	×	WT-16
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	WT-18
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1712: [CHECKSUM ERR] FL	—	—	—	×	WT-21
C1713: [CHECKSUM ERR] FR	—	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-24
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1720: [CODE ERR] FL	—	—	—	×	WT-26
C1721: [CODE ERR] FR	—	—	—	×	
C1722: [CODE ERR] RR	—	—	—	×	
C1723: [CODE ERR] RL	—	—	—	×	
C1724: [BATT VOLT LOW] FL	—	—	—	×	WT-29
C1725: [BATT VOLT LOW] FR	—	—	—	×	
C1726: [BATT VOLT LOW] RR	—	—	—	×	
C1727: [BATT VOLT LOW] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-32
C1734: CONTROL UNIT	—	—	—	×	WT-33

COMBINATION METER

< ECU DIAGNOSIS >

COMBINATION METER

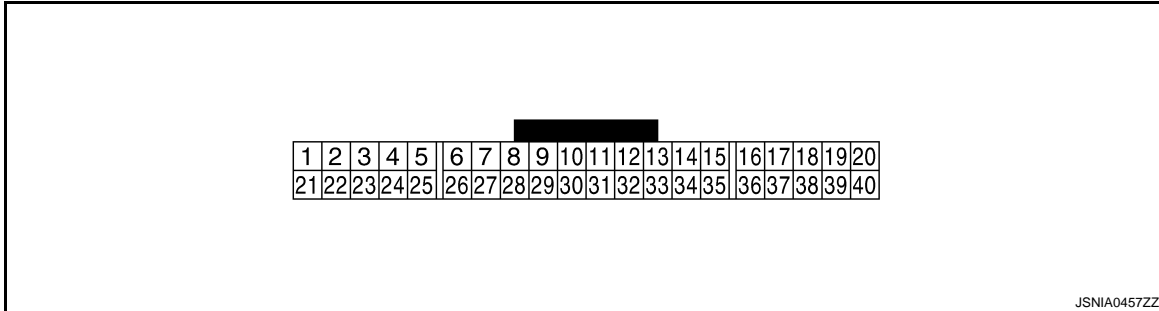
Reference Value

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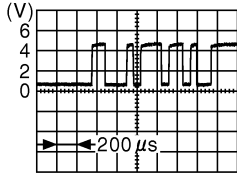
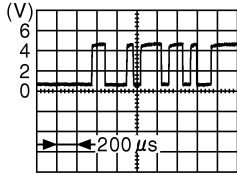
VALUES ON THE DIAGNOSIS TOOL

Refer to [MWI-85. "Reference Value"](#).

TERMINAL LAYOUT

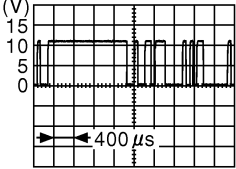
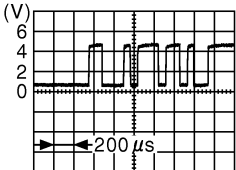
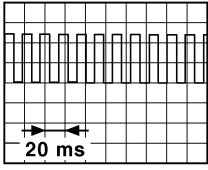
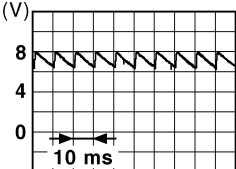


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (LG)	Ground	Communication signal (METER→ AMP.)	Output	Ignition switch ON	—	 <small>JSNIA0027GB</small>
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON	—	 <small>JSNIA0027GB</small>
5 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
6 (P)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	0 V
					Charge warning lamp OFF	Battery voltage
7 (LG)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V
					Air bag warning lamp OFF	0 V
10 (G)	Ground	Security signal	Input	Ignition switch OFF	Security warning lamp ON	0 V
					Security warning lamp OFF	12 V
15 (B)	Ground	Ground	—	Ignition switch ON	—	0 V

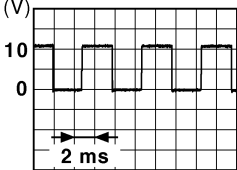


COMBINATION METER

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
16 (B)	Ground	Meter control switch ground	—	Ignition switch ON	—	0 V
21 (O)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
22 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
23 (L)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
24 (BR)	Ground	Communication signal (LCD→ AMP.)	Output	Ignition switch ON	—	 <small>JSNIA0028GB</small>
25 (Y)	Ground	Communication signal (AMP.→ LCD)	Input	Ignition switch ON	—	 <small>JSNIA0027GB</small>
26 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <small>JSNIA0012GB</small>
27 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 <small>JSNIA0007GB</small>
28 (W)	Ground	Brake fluid level switch sig- nal	Input	Ignition switch ON	Brake fluid level is normal.	5 V
					The brake fluid level is low- er than the low level	0 V

COMBINATION METER

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
29 (SB)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When driver seat belt is fastened	12 V
					When driver seat belt is unfastened	0 V
30 (G)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	<ul style="list-style-type: none"> When getting in the passenger seat When passenger seat belt is fastened 	12 V
					<ul style="list-style-type: none"> When getting in the passenger seat When passenger seat belt is unfastened 	0 V
31 (L)	Ground	Washer level switch signal	Input	Ignition switch ON	Washer level switch ON	0 V
					Washer level switch OFF	5 V
33 (B)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch ON, then operate the illumination control switch.	<p>NOTE: When brightness level is midway</p>  <p style="text-align: right;"><small>JSNIA0010GB</small></p>
36 (LG)	16 (B)	Select switch signal	Input	Ignition switch ON	When ● is pressed	0 V
					Other than the above	5 V
37 (SB)	16 (B)	Enter switch signal	Input	Ignition switch ON	When □ is pressed	0 V
					Other than the above	5 V
38 (L)	16 (B)	Trip A/B reset switch signal	Input	Ignition switch ON	When trip A/B reset switch is pressed	0 V
					Other than the above	5 V
39 (P)	16 (B)	Illumination control switch signal (-)	Input	Ignition switch ON	When  switch is pressed	0 V
					Other than the above	5 V
40 (O)	16 (B)	Illumination control switch signal (+)	Input	Ignition switch ON	When  switch is pressed	0 V
					Other than the above	5 V

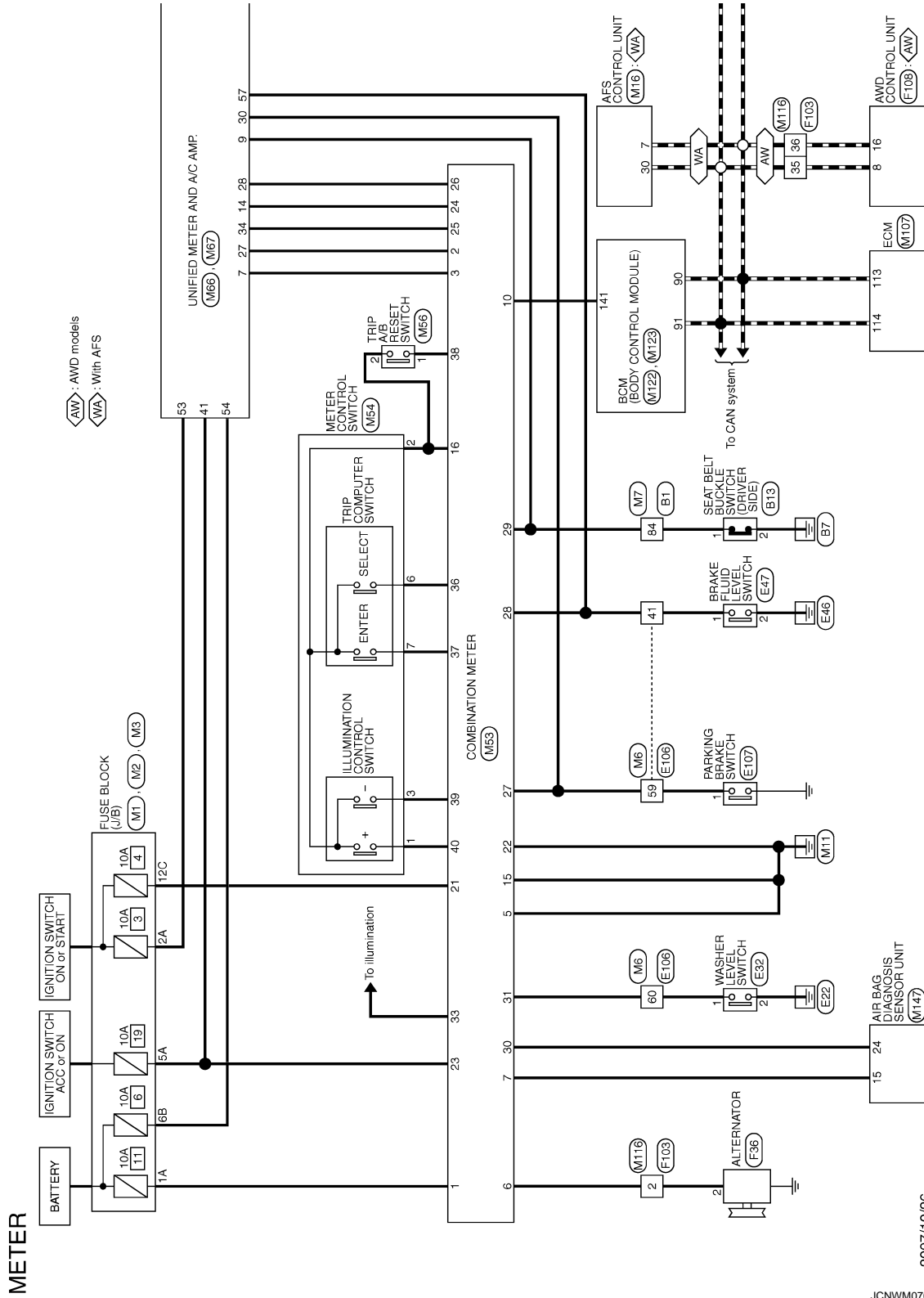
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COMBINATION METER

< ECU DIAGNOSIS >

Wiring Diagram - METER -

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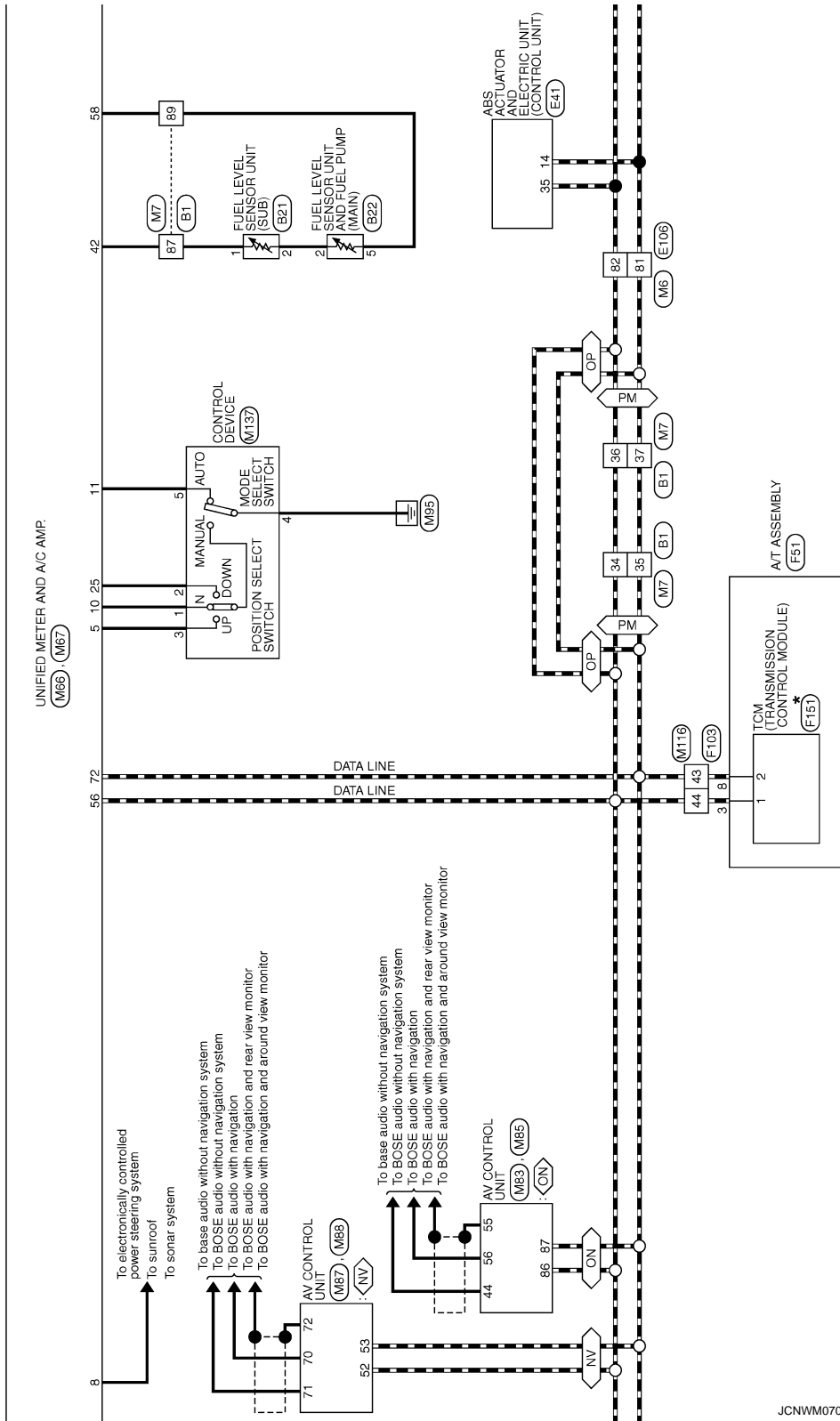
JCNWM0708GI

COMBINATION METER

< ECU DIAGNOSIS >

(NV) : With NAVI
 (ON) : Without NAVI
 (PM) : With automatic drive positioner
 (OP) : Without automatic drive positioner

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



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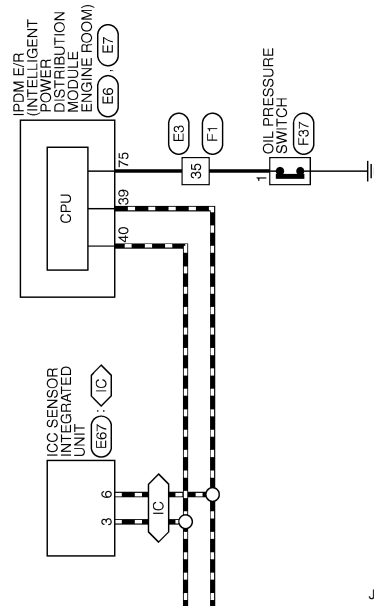
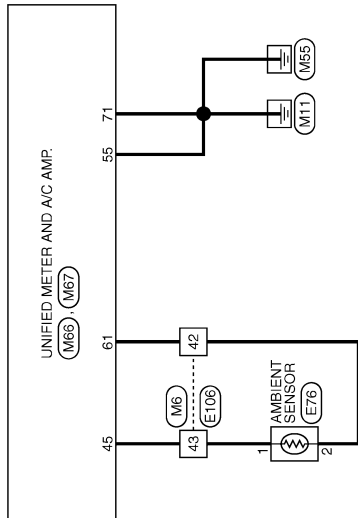
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COMBINATION METER

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IC : With ICC

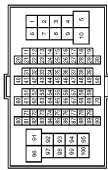

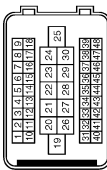



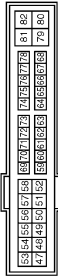

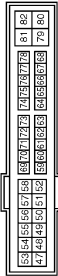









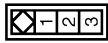



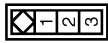







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COMBINATION METER

< ECU DIAGNOSIS >

METER

Connector No. BI	WIRE TO WIRE TH8DFW-CS16-TM4		
Terminal No.	Color of Wire	Signal Name [Specification]	
34	L	-	
35	P	-	
36	L	-	
37	P	-	
84	SB	-	
87	Y	-	
89	B	-	
Connector No. E3	WIRE TO WIRE SAA39MB-RS10-SJ22		
Terminal No.	Color of Wire	Signal Name [Specification]	
35	Y	-	
39	P	-	
40	L	-	
Connector No. E6	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TH8DFW-NH		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	SB	-	
2	B	-	
Connector No. E8	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TH8DFW-CS12-M4		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	Y	-	
2	W	-	
Connector No. E7	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TH8DFW-CS12-M4		
Terminal No.	Color of Wire	Signal Name [Specification]	
75	Y	-	
Connector No. E5	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) TH8DFW-NH		
Terminal No.	Color of Wire	Signal Name [Specification]	
39	P	-	
40	L	-	
Connector No. E2	WASHER LEVEL SWITCH Z02FBR		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	LG	-	
2	B	-	
Connector No. E1	FUEL LEVEL SENSOR UNIT (SUB) E02FGY-RS		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	Y	-	
2	W	-	
Connector No. E4	FUEL LEVEL SENSOR UNIT (MAIN) E02FGY-RS		
Terminal No.	Color of Wire	Signal Name [Specification]	
2	W	-	
5	B	-	
Connector No. B1	SEAT BELT BUCKLE SWITCH (DRIVER SIDE) A03FW		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	SB	-	
2	B	-	
Connector No. B2	FUEL LEVEL SENSOR UNIT (SUB) E02FGY-RS		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	Y	-	
2	W	-	
Connector No. B3	SEAT BELT BUCKLE SWITCH (DRIVER SIDE) A03FW		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	SB	-	
2	B	-	
Connector No. B21	FUEL LEVEL SENSOR UNIT (SUB) E02FGY-RS		
Terminal No.	Color of Wire	Signal Name [Specification]	
1	Y	-	
2	W	-	
Connector No. B22	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN) E02FGY-RS		
Terminal No.	Color of Wire	Signal Name [Specification]	
2	W	-	
5	B	-	

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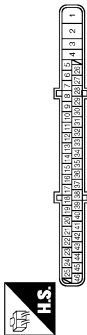
JCNWM0711GE

COMBINATION METER

< ECU DIAGNOSIS >

METER

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BA443FB-AH24-LH



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

Connector No.	E47
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	Y10DFGY



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

Connector No.	E67
Connector Name	ICC SENSOR INTEGRATED UNIT
Connector Type	RS08FB-FR



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

Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-CS16-TM4



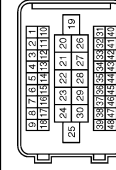
Terminal No.	Color of Wire	Signal Name [Specification]
41	W	-
42	P	-
43	G	-
59	O	-
60	LG	-
81	P	-
82	L	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB0FW



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

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RS10-SJZ2



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

Connector No.	F36
Connector Name	ALTERNATOR
Connector Type	HS03FB



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

JCNWM0712GI

COMBINATION METER

< ECU DIAGNOSIS >

METER

Connector No. F37	OIL PRESSURE SWITCH EUFY-RS-AR	Connector No. F31	A/T ASSEMBLY RK10FG-DGY	Connector No. F103	WIRE TO WIRE TK30FW-NS10	Connector No. F108	AWD CONTROL UNIT FH16FW-NH
Terminal No. 1	Y	Terminal No. 3	L	Terminal No. 2	G	Terminal No. 8	L
Terminal No. 2	L/Y	Terminal No. 8	P	Terminal No. 35	L	Terminal No. 16	P
Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]	CAN-H
							CAN-L
Connector No. F181	TCM (TRANSMISSION CONTROL MODULE) SPT0FBGY	Connector No. M1	FUSE BLOCK (J/B) NS00FW-M2	Connector No. M2	FUSE BLOCK (J/B) NS10FW-CS	Connector No. M3	FUSE BLOCK (J/B) NS12FW-CS
Terminal No. 1	BR	Terminal No. 1A	GR	Terminal No. 4B	9B	Terminal No. 5C	4C
Terminal No. 2	L/Y	Terminal No. 2A	G	Terminal No. 10B	9B	Terminal No. 12C	11C
Signal Name [Specification]	CAN-H	Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]	
	CAN-L						

JCNWM0713GI

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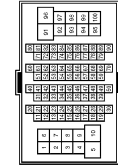
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COMBINATION METER

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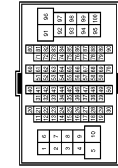
METER

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



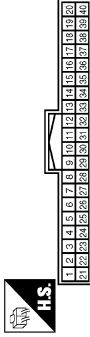
Terminal No.	Color of Wire	Signal Name [Specification]
41	W	-
42	BR	-
43	P	-
56	V	-
60	L	-
81	P	-
82	L	-

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



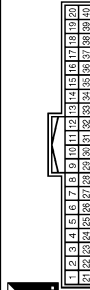
Terminal No.	Color of Wire	Signal Name [Specification]
34	L	-
35	P	-
36	L	-
37	P	-
84	SB	-
87	Y	-
89	BR	-

Connector No.	M16
Connector Name	AFS CONTROL UNIT
Connector Type	TH40FW-NH



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BAT
2	LG	COMM (METER->AMP.)
3	GR	COMM (AMP->METER)
5	B	GND
6	P	ALTERNATOR
7	LG	AIR BAG
10	G	SECURITY
15	B	GND
16	B	METER CONTROL SW GND
21	O	IGN
22	B	GND

23	L	ACC
24	BR	COMM (LGD->AMP.)
25	Y	COMM (AMP->LCD)
26	R	VEHICLE SPEED (6-PULSE)
27	V	PARKING BRAKE SW
28	W	BRAKE FLUID LEVEL SW
29	SB	SEAT BELT BUCKLE SW (DRIVER SIDE)
30	G	SEAT BELT
31	L	WASHER LEVEL SW
32	B	ILLUMINATION CONTROL
36	LG	SELECT SW
37	SB	ENTER SW
38	L	TRIP A/B RESET SW
39	P	ILLUMINATION CONTROL SW (-)
40	O	ILLUMINATION CONTROL SW (+)

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	P	-
6	LG	-
7	SB	-

Connector No.	M56
Connector Name	TRIP A / B RESET SWITCH
Connector Type	TK02MW



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

COMBINATION METER

< ECU DIAGNOSIS >

METER

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH46FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
5	L	SHIFT UP SW
7	GR	COMM (AMP->METER)
8	L	VEHICLE SPEED (2-PULSE)
9	SB	SEAT BELT BUCKLE SW (DRIVER SIDE)
10	W	MANUAL MODE SW
11	G	AUTO MODE SW
14	BR	COMM (LCD->AMP)
25	V	SHIFT DOWN SW
27	LG	COMM (METER->AMP)
28	R	VEHICLE SPEED (8-PULSE)
30	V	PARKING BRAKE SW

34	Y	COMM (AMP->LCD)
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Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH42FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
41	V	ACC
42	Y	FUEL LEVEL SENS
45	P	AMB SENS
53	G	IGN
54	V	BAT
55	B	GND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SW
58	BR	FUEL LEVEL SENS GND
61	BR	AMB SENS GND
71	B	GND

72	P	CAN-L
----	---	-------

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]									
47	46	45	44	43	42	41	40	39	38	37	36
59	58	57	56	55	54	53	52	51	50	49	48

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32FW-NH

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

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH

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

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]			
62	64	66	68	70	72
61	63	65	67	69	71

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)
72	SHIELD	SHIELD

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COMBINATION METER

< ECU DIAGNOSIS >


METER

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



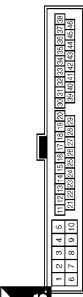
Terminal No.	Color of Wire	Signal Name [Specification]
141	G	SECURITY INDICATOR OUTPUT

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



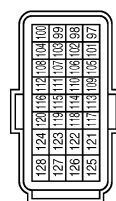
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

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




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

Connector No.	M107
Connector Name	ECM
Connector Type	RH24GY-R28-R-LH-Z



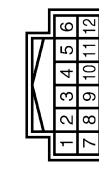
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M147
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK28FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
15	LG	AIR BAG W/L
24	G	SEAT BELT

Connector No.	M137
Connector Name	CONTROL DEVICE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-

JCNWM0716G1

Fail-Safe

INFOID:000000003751123

FAIL-SAFE

Combination meter performs fail-safe operation when unified meter and A/C amp. communication is malfunction.

Solution for communication error between the unified meter and A/C amp. and combination meter.

COMBINATION METER

< ECU DIAGNOSIS >

Function		Specifications	
Speedometer		Reset to zero by suspending communication.	A
Tachometer			B
Fuel gauge			C
Water temperature gauge			D
Illumination control		When suspending communication, change to nighttime mode.	E
Information display		The display turns off by suspending communication.	F
Buzzer		The buzzer turns off by suspending communication.	G
Warning lamp/indicator lamp	ABS warning lamp	The lamp turns on by suspending communication.	H
	VDC OFF indicator lamp		I
	SLIP indicator lamp		J
	Brake warning lamp		K
	CRUISE warning lamp		L
	High beam indicator		M
	Turn signal indicator lamp	The lamp turns off by suspending communication.	N
	Light indicator lamp		O
	Oil pressure warning lamp		P
	Malfunction indicator lamp		Q
	A/T CHECK warning lamp		R
	AWD warning lamp		S
	Low tire pressure warning lamp		T
	Key warning lamp		U
	AFS OFF indicator lamp		V
	Lane departure warning lamp		W
LDP ON indicator lamp	X		
Master warning lamp	Y		

DTC Index

INFOID:000000003757124

Refer to [MWI-101, "DTC Index"](#).

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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000003135173

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 do not turn ON. <ul style="list-style-type: none"> • Map lamp • Personal lamp • Foot lamp • Luggage room lamp • Step lamp • Vanity mirror lamp 	<ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM 	Interior room lamp power supply circuit Refer to INL-20 .
<ul style="list-style-type: none"> • Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed. 	<ul style="list-style-type: none"> • Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM 	Door switch circuit Refer to DLK-63 . <hr/> Interior room lamp control circuit Refer to INL-22 .
<ul style="list-style-type: none"> • Puddle lamp does not turn ON even though the door is open. • Puddle lamp does not turn OFF even though the door is closed. 	<ul style="list-style-type: none"> • Harness between BCM and each door switch • Harness between BCM and puddle lamp • BCM 	Door switch circuit Refer to DLK-63 . <hr/> Puddle lamp circuit Refer to INL-22 .
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) do not turn ON. (The map lamp and the personal lamp turn ON.) <hr/> Step lamps (driver side and passenger side) do not turn OFF. (The map lamp and the personal lamp turn OFF.)	<ul style="list-style-type: none"> • Harness between BCM and each step lamp • BCM 	Step lamp circuit Refer to INL-24 .
Push-button ignition switch illumination does not illuminate.	<ul style="list-style-type: none"> • Harness between BCM and push-button ignition switch • BCM 	Push-button ignition switch illumination circuit Refer to INL-27 .
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:000000003135174

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.

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MAP LAMP

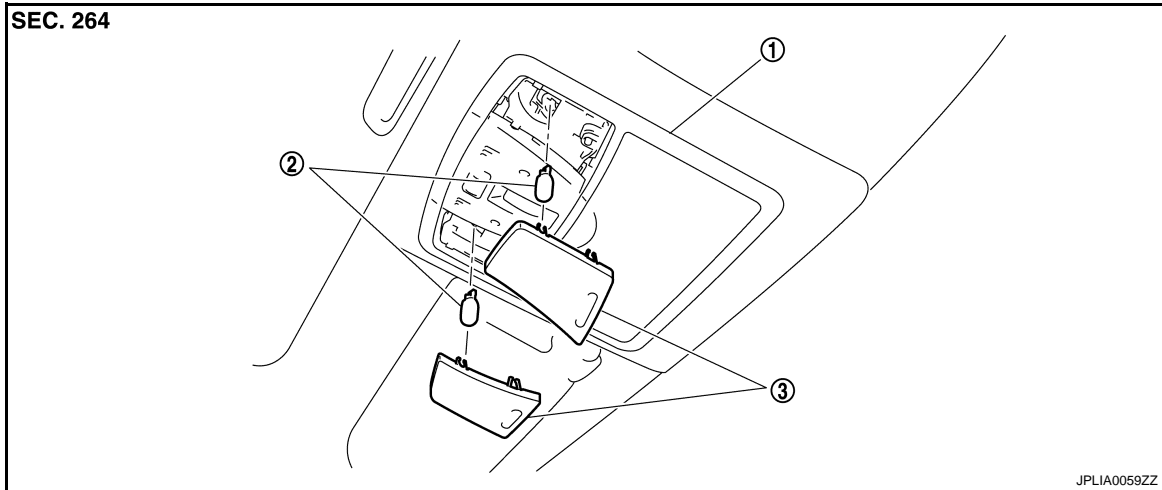
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

MAP LAMP

Exploded View

INFOID:000000003135175



1. Map lamp assembly

2. Bulb

3. Lens

Removal and Installation

INFOID:000000003135176

Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) for the map lamp assembly installation/removal.

Replacement

INFOID:000000003135177

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.

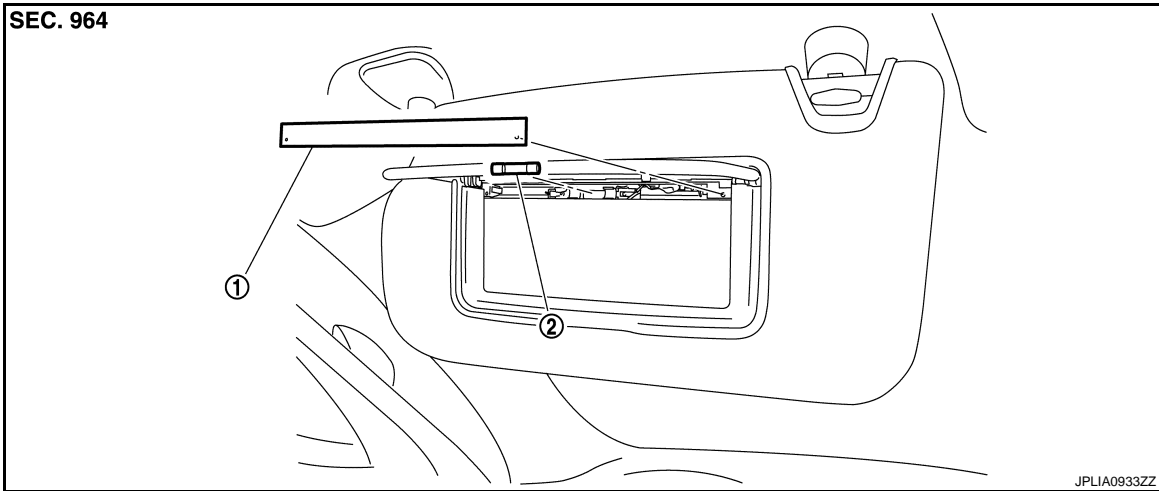
VANITY MIRROR LAMP

< ON-VEHICLE REPAIR >

VANITY MIRROR LAMP

Exploded View

INFOID:000000003135178



1. Lens

2. Bulb

Replacement

INFOID:000000003135179

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.

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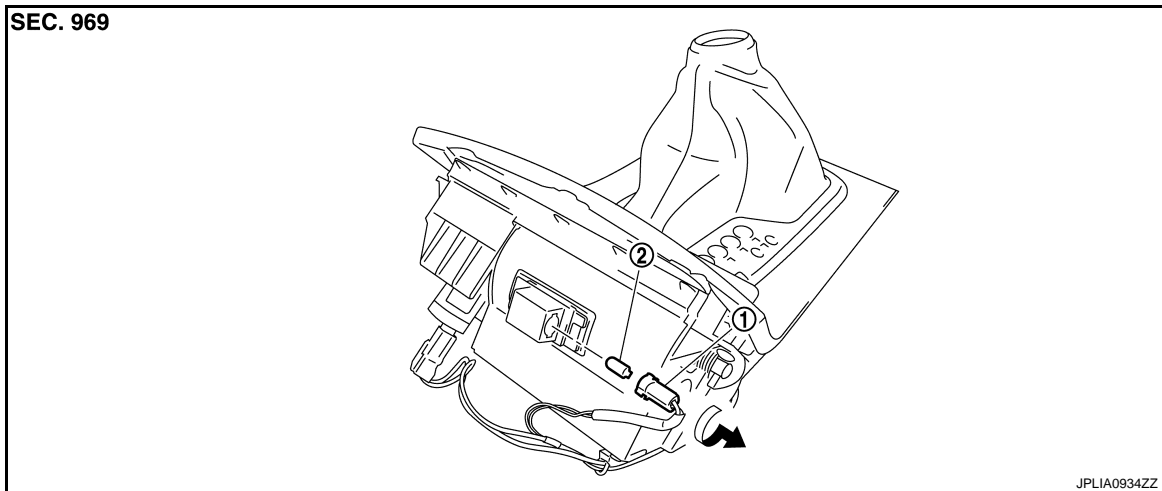
CIGARETTE LIGHTER ILLUMINATION

< ON-VEHICLE REPAIR >

CIGARETTE LIGHTER ILLUMINATION

Exploded View

INFOID:000000003566853



1. Bulb socket

2. Bulb

Replacement

INFOID:000000003566854

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.

CIGARETTE LIGHTER ILLUMINATION BULB

1. Remove the console finisher. Refer to [IP-22, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

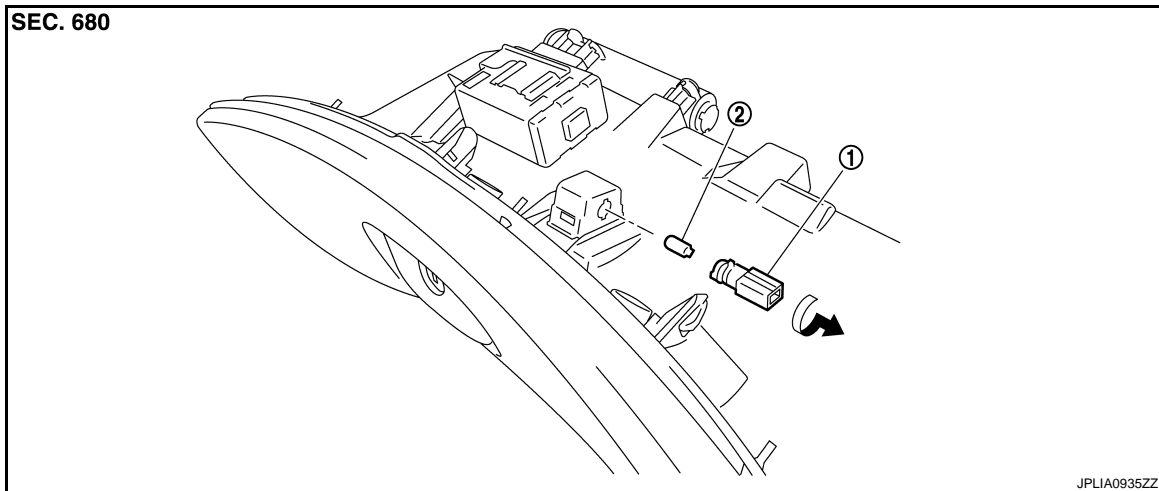
GLOVE BOX LAMP

< ON-VEHICLE REPAIR >

GLOVE BOX LAMP

Exploded View

INFOID:000000003135182



1. Bulb socket

2. Bulb

Replacement

INFOID:000000003135183

CAUTION:

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

GLOVE BOX LAMP BULB

1. Remove the glove box assembly. Refer to [IP-11, "Exploded View"](#).
2. Remove the instrument assist lower panel. Refer to [IP-11, "Exploded View"](#).
3. Rotate the bulb socket counterclockwise and unlock it.
4. Remove the bulb.

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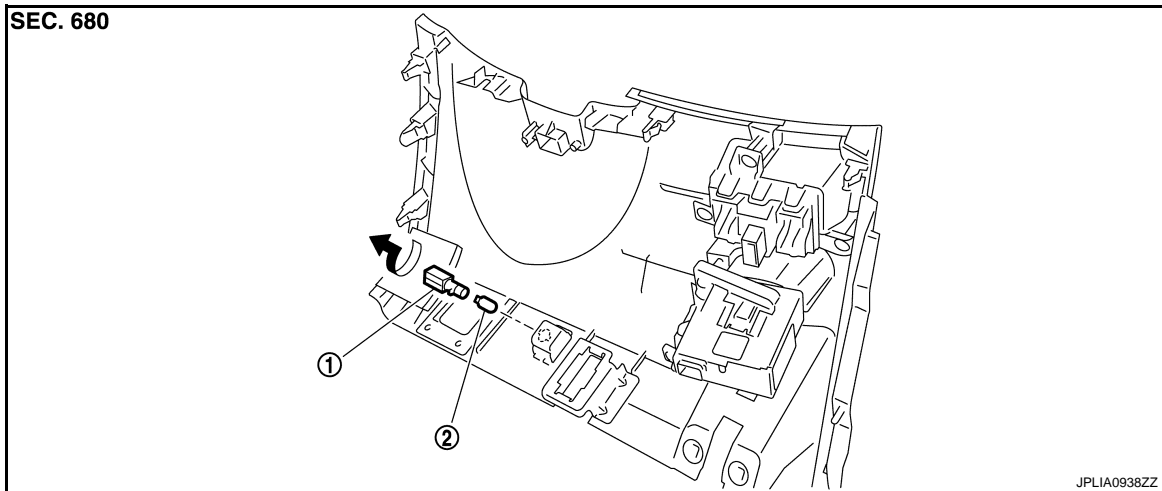
FOOT LAMP

< ON-VEHICLE REPAIR >

FOOT LAMP DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000003552679



1. Bulb socket

2. Bulb

DRIVER SIDE : Replacement

INFOID:000000003552680

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.

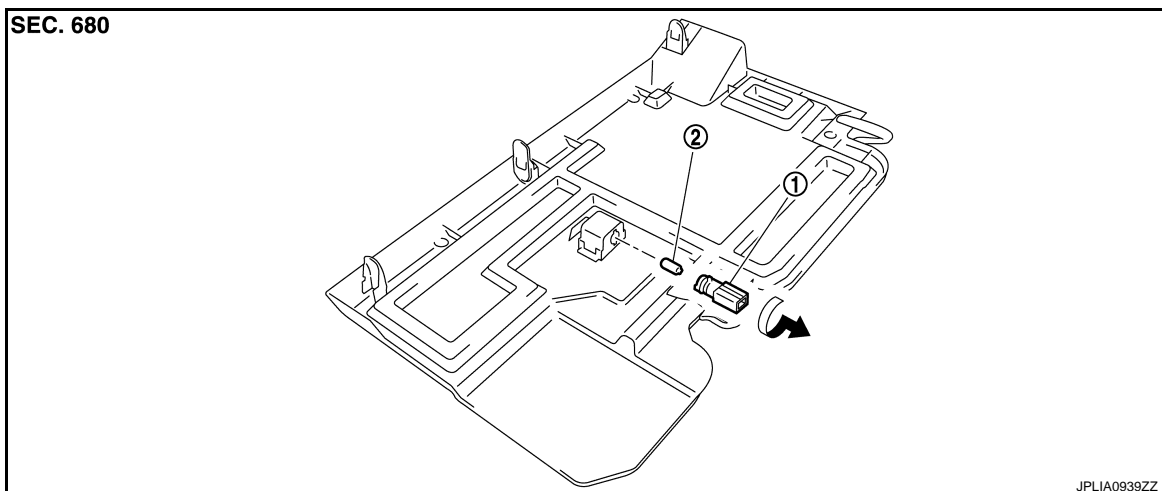
FOOT LAMP BULB (DRIVER SIDE)

1. Remove the instrument driver lower panel. Refer to [IP-11, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:000000003552681



FOOT LAMP

< ON-VEHICLE REPAIR >

1. Bulb socket

2. Bulb

PASSENGER SIDE : Replacement

INFOID:000000003552682

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.

FOOT LAMP BULB (PASSENGER SIDE)

1. Remove the instrument assist lower panel. Refer to [IP-11, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

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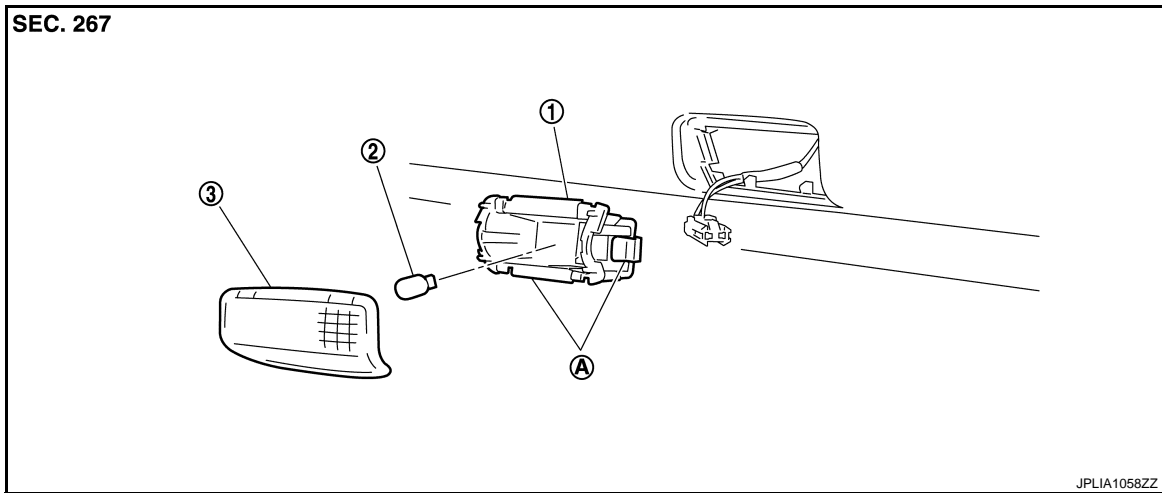
STEP LAMP

< ON-VEHICLE REPAIR >

STEP LAMP

Exploded View

INFOID:000000003135184



1. Step lamp case

2. Bulb

3. Lens

A Metal clip

Removal and Installation

INFOID:000000003135185

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 step lamp connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000003135186

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. Remove the step lamp.
2. Remove the lens.
3. Remove the bulb.

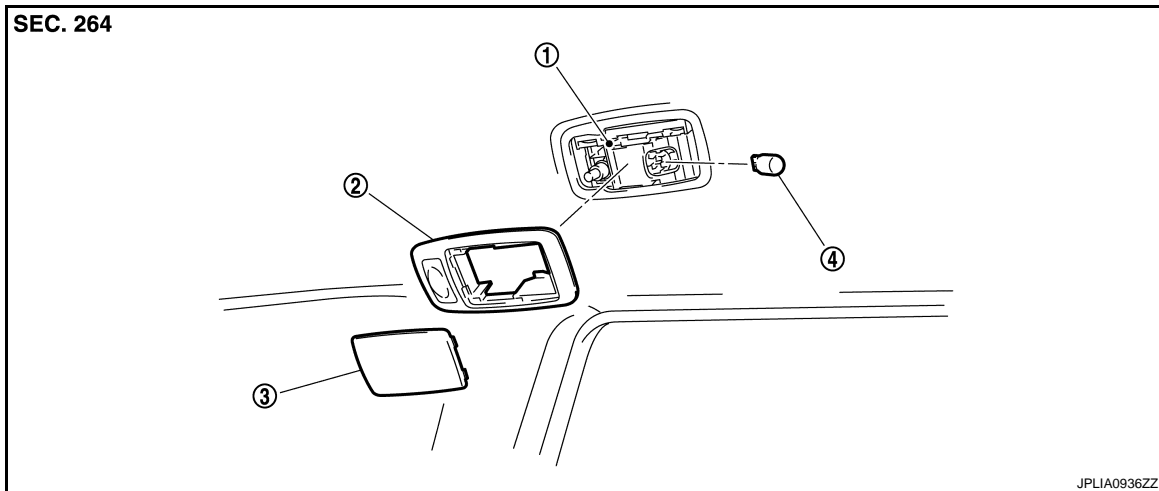
PERSONAL LAMP

< ON-VEHICLE REPAIR >

PERSONAL LAMP

Exploded View

INFOID:000000003135187



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

NOTE:

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

Removal and Installation

INFOID:000000003135188

CAUTION:

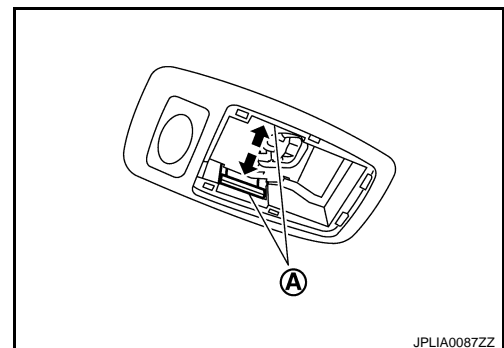
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

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

NOTE:

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



INSTALLATION

Install in the reverse order of removal.

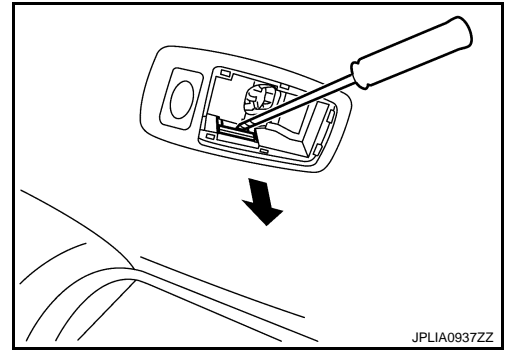
NOTE:

The following is easier to install the personal lamp finisher.

PERSONAL LAMP

< ON-VEHICLE REPAIR >

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



Replacement

INFOID:000000003135189

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.

PUDDLE LAMP

< ON-VEHICLE REPAIR >

PUDDLE LAMP

Exploded View

INFOID:000000003567031

Puddle lamp is integrated into the door mirror assembly (driver side).

- With ADP. Refer to [MIR-52, "DOOR MIRROR ASSEMBLY : Exploded View"](#).
- Without ADP. Refer to [MIR-73, "DOOR MIRROR ASSEMBLY : Exploded View"](#).

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LUGGAGE ROOM LAMP

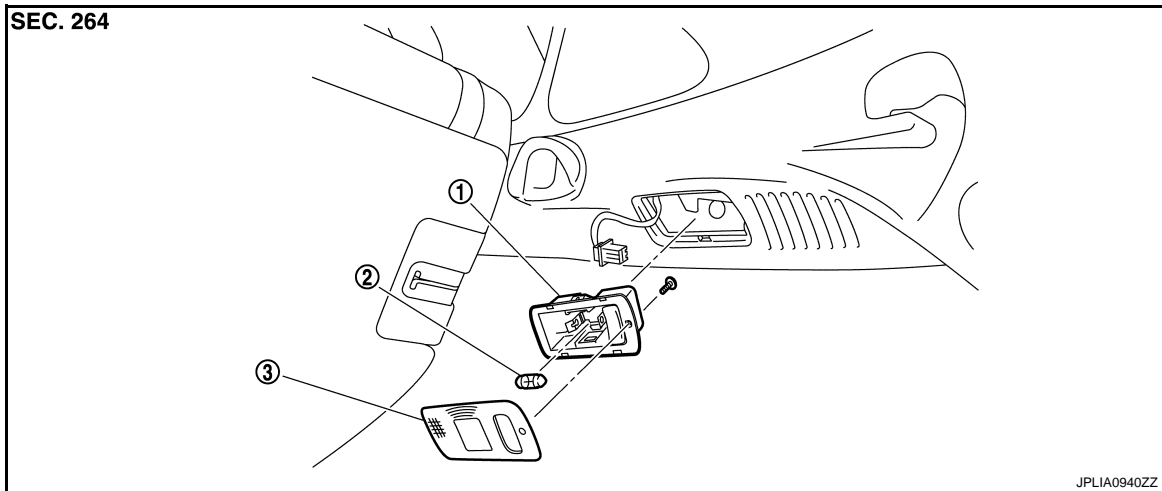
< ON-VEHICLE REPAIR >

LUGGAGE ROOM LAMP

LUGGAGE SIDE

LUGGAGE SIDE : Exploded View

INFOID:000000003557523



1. Luggage room lamp (luggage side) housing 2. Bulb 3. Lens

LUGGAGE SIDE : Removal and Installation

INFOID:000000003557524

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the luggage room lamp (luggage side) and luggage side finisher upper. And then remove the luggage room lamp (luggage side).
2. Disconnect the luggage room lamp (luggage side) connector.

INSTALLATION

Install in the reverse order of removal.

LUGGAGE SIDE : Replacement

INFOID:000000003557525

CAUTION:

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

LUGGAGE ROOM LAMP (LUGGAGE SIDE) BULB

1. Remove the luggage room lamp (luggage side). Refer to [INL-110, "LUGGAGE SIDE : Exploded View"](#).
2. Remove the screw. And then remove the lens.
3. Remove the bulb.

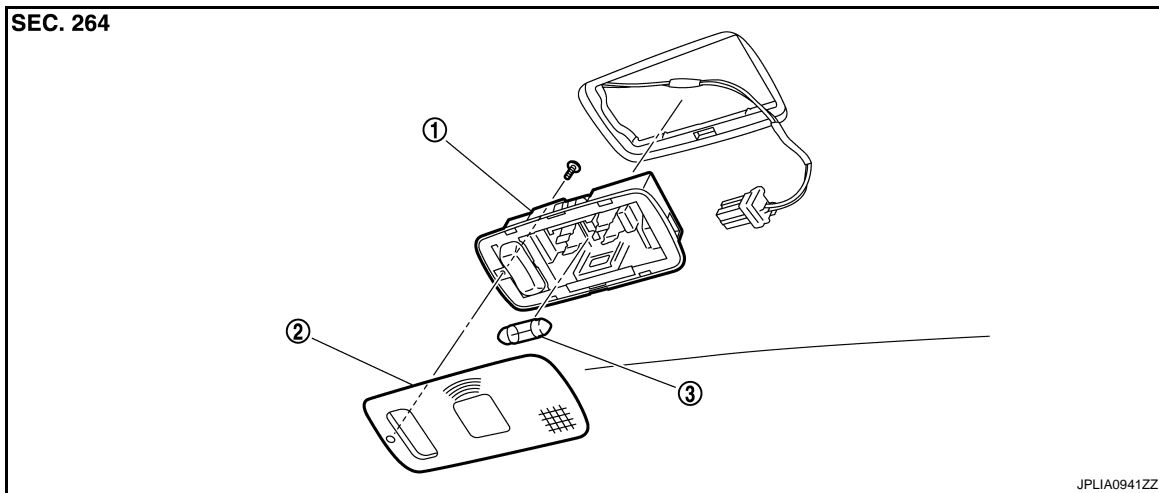
BACK DOOR SIDE

LUGGAGE ROOM LAMP

< ON-VEHICLE REPAIR >

BACK DOOR SIDE : Exploded View

INFOID:000000003557526



1. Luggage room lamp (back door side) assembly 2. Lens 3. Bulb

BACK DOOR SIDE : Removal and Installation

INFOID:000000003557527

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

BACK DOOR SIDE : Replacement

INFOID:000000003557528

CAUTION:

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

LUGGAGE ROOM LAMP BULB

1. Remove the luggage room lamp (back door side). Refer to [INL-111, "BACK DOOR SIDE : Exploded View"](#).
2. Remove the screw. And then remove the lens.
3. 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:000000003562688

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	Wedge	8
Console lamp (integrated into the map lamp assembly)	LED	—
Puddle lamp	LED	—
Vanity mirror lamp	—	2
Cigarette lighter illumination	Wedge	1.4
Glove box lamp	Wedge	1.4
Foot lamp	Wedge	1.4
Step lamp	Wedge	8
Personal lamp	Wedge	8
Luggage room lamp	—	8