

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

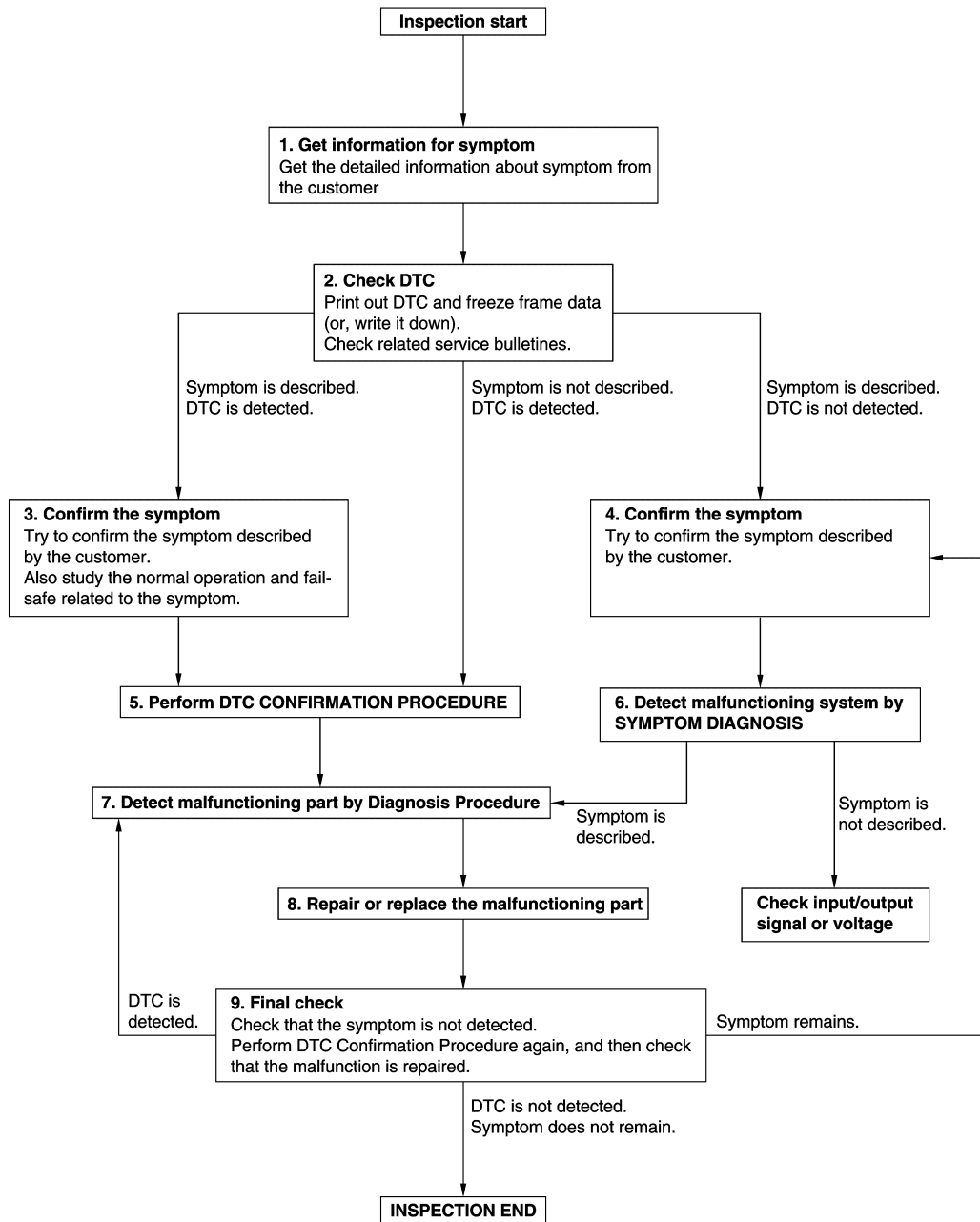
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000011487362

OVERALL SEQUENCE



DETAILED FLOW

Revision: 2015 June

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

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

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-39. "Intermittent Incident"](#).

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-39. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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INTERIOR ROOM LAMP CONTROL SYSTEM

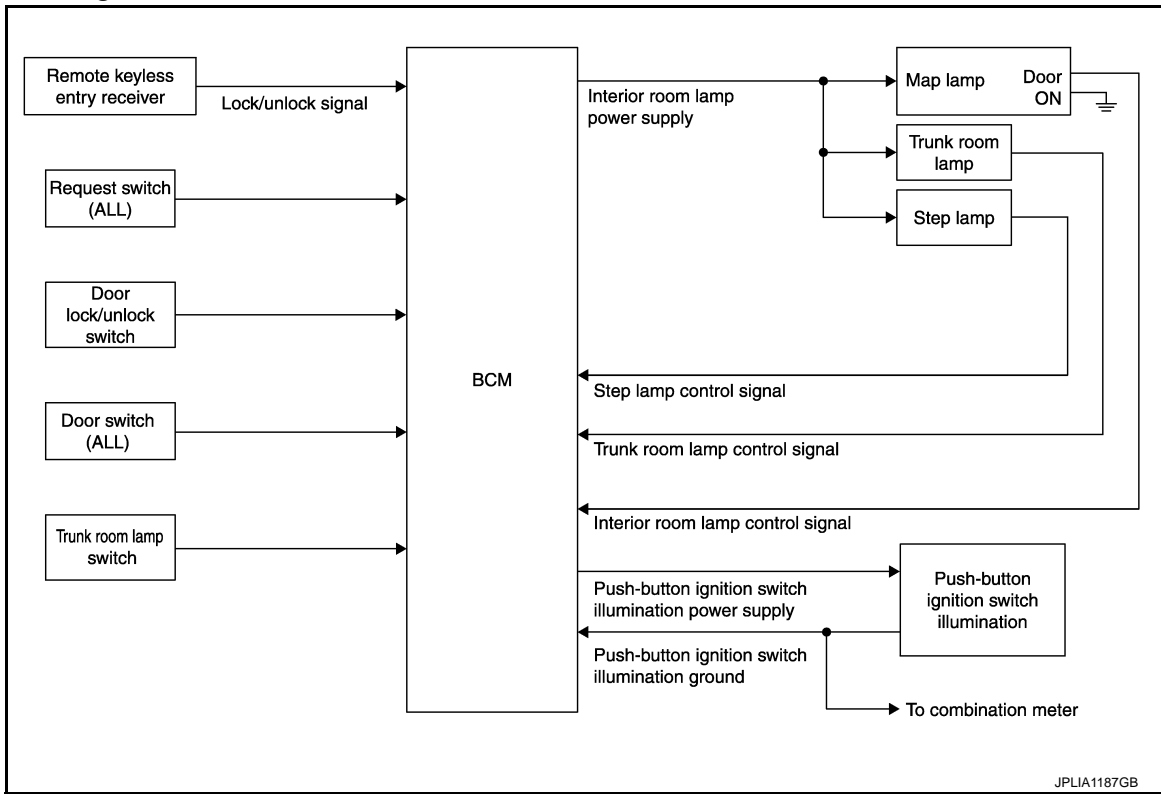
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

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System Description

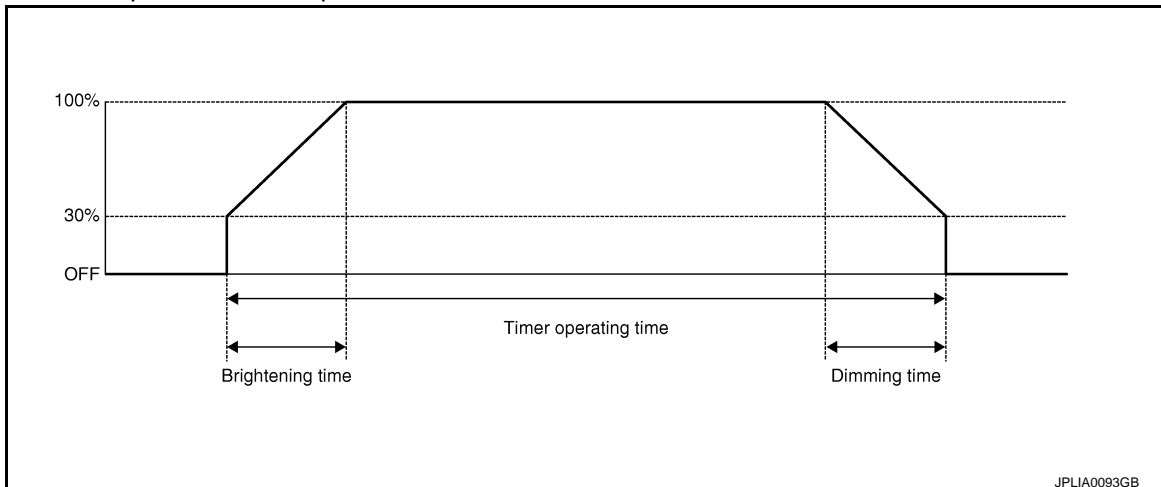
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OUTLINE

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

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

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

NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to [INL-17. "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#).

Interior Room Lamp ON Operation

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

NOTE:

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

Interior Room Lamp OFF Operation

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

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

TRUNK ROOM LAMP CONTROL

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

STEP LAMP CONTROL

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

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

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

Push-button Ignition Switch Illumination ON Operation

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

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

Push-button Ignition Switch Illumination OFF Operation

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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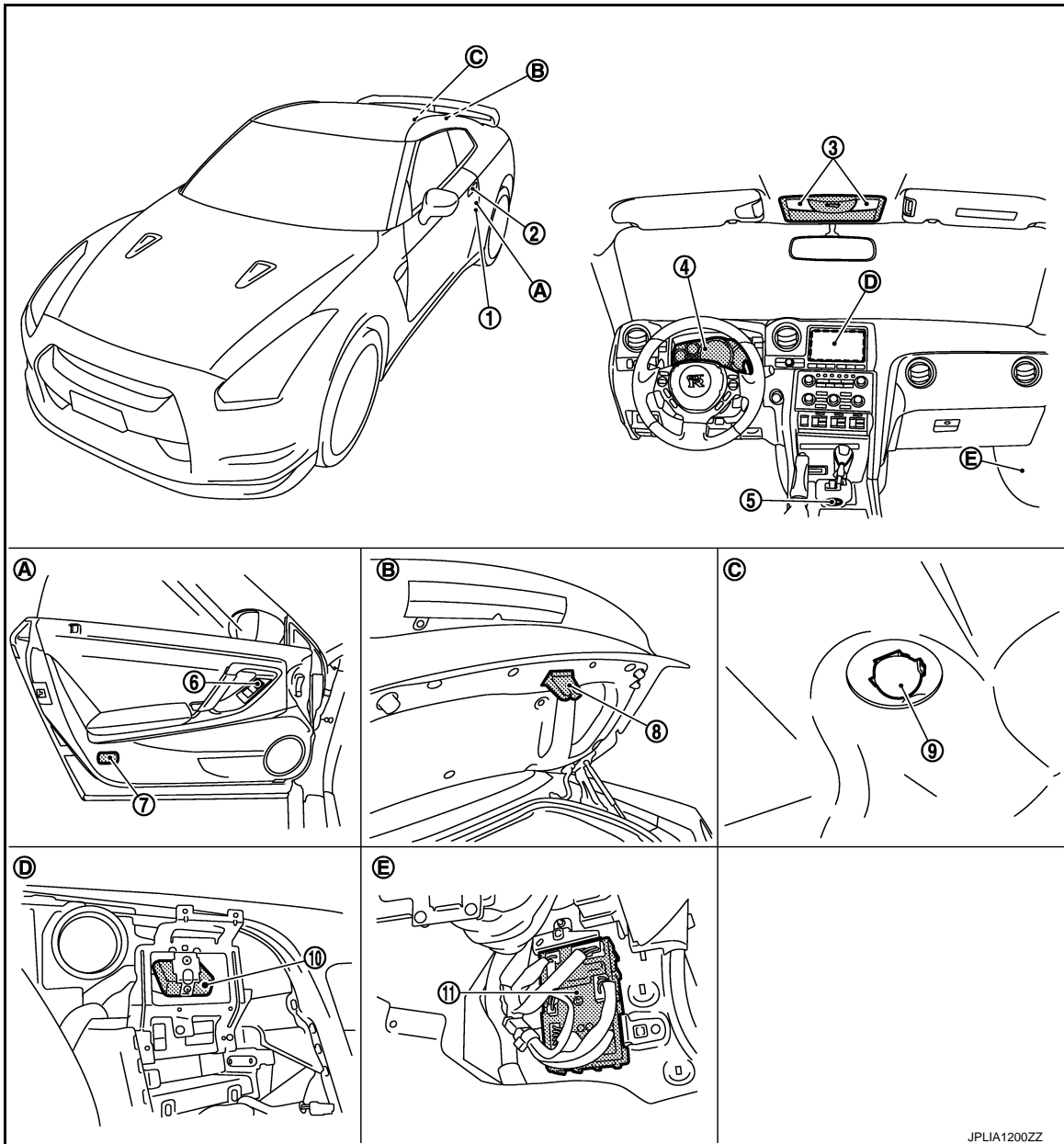
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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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- | | | |
|-----------------------------------|--|--------------------------------|
| 1. Door switch | 2. Request switch | 3. Map lamp |
| 4. Combination meter | 5. Push-button ignition switch
(Push-button ignition switch illumination) | 6. Door lock and unlock switch |
| 7. Step lamp | 8. Trunk room lamp switch | 9. Trunk room lamp |
| 10. Remote keyless entry receiver | 11. BCM | |
| A. Front door | B. Trunk lid lock assembly | C. Trunk room upward |
| D. Behind the display | E. Dash side lower (passenger side) | |

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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Description

INFOID:000000011487366

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

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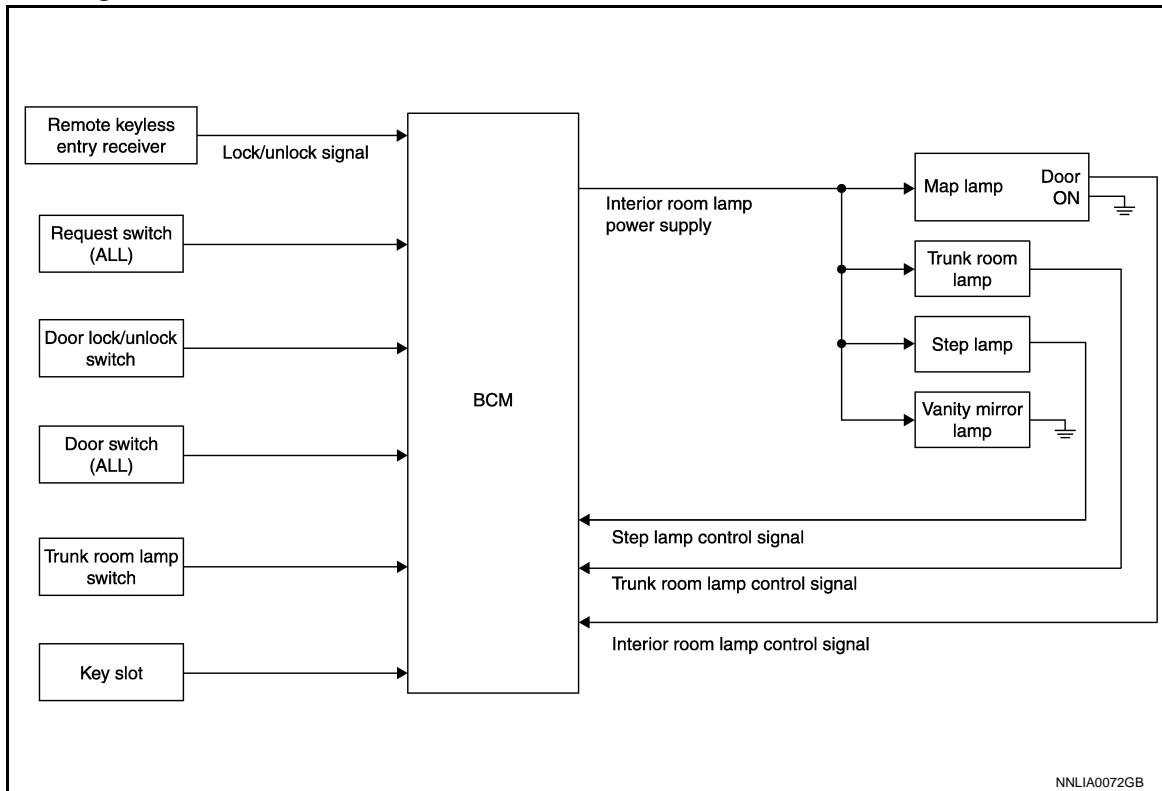
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram

INFOID:000000011487367



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System Description

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OUTLINE

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

Applicable lamps

- Map lamp
- Step lamp
- Trunk 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, door lock and unlock switch)
 - Trunk loom lamp 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:

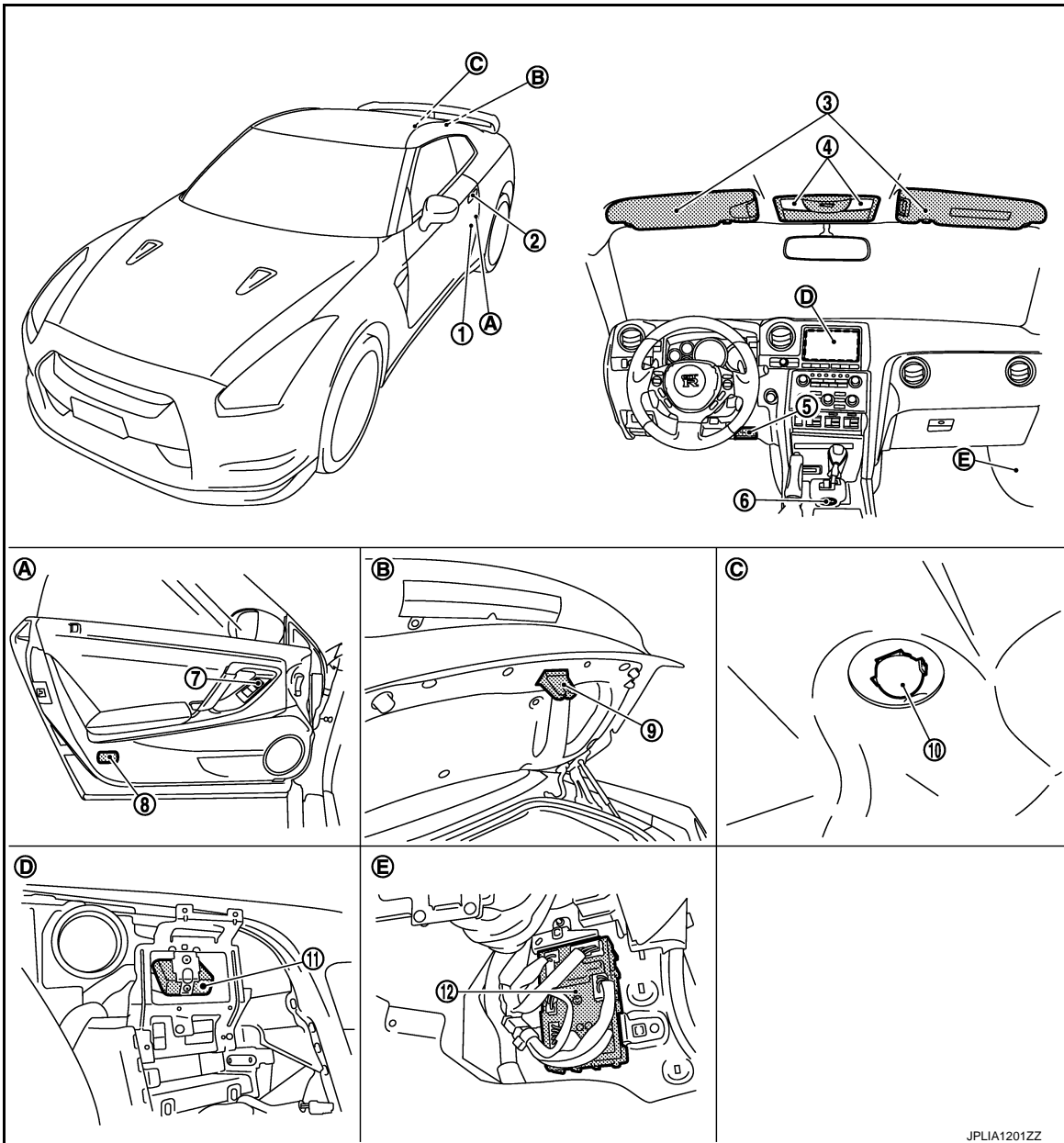
Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-18. "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\)"](#).

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000011487369



- | | | |
|--------------------------------|-------------------------------------|--------------------------------|
| 1. Door switch | 2. Request switch | 3. Vanity mirror lamp |
| 4. Map lamp | 5. Key slot | 6. Push-button ignition switch |
| 7. Door lock and unlock switch | 8. Step lamp | 9. Trunk room lamp switch |
| 10. Trunk room lamp | 11. Remote keyless entry receiver | 12. BCM |
| A. Front door | B. Trunk lid lock assembly | C. Trunk room upward |
| D. Behind the display | E. Dash side lower (passenger side) | |

Component Description

INFOID:000000011487370

Part	Description
BCM	Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply.
<ul style="list-style-type: none"> Remote keyless entry receiver Door Lock and unlock switch 	Transmits the lock/unlock signal to BCM.

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

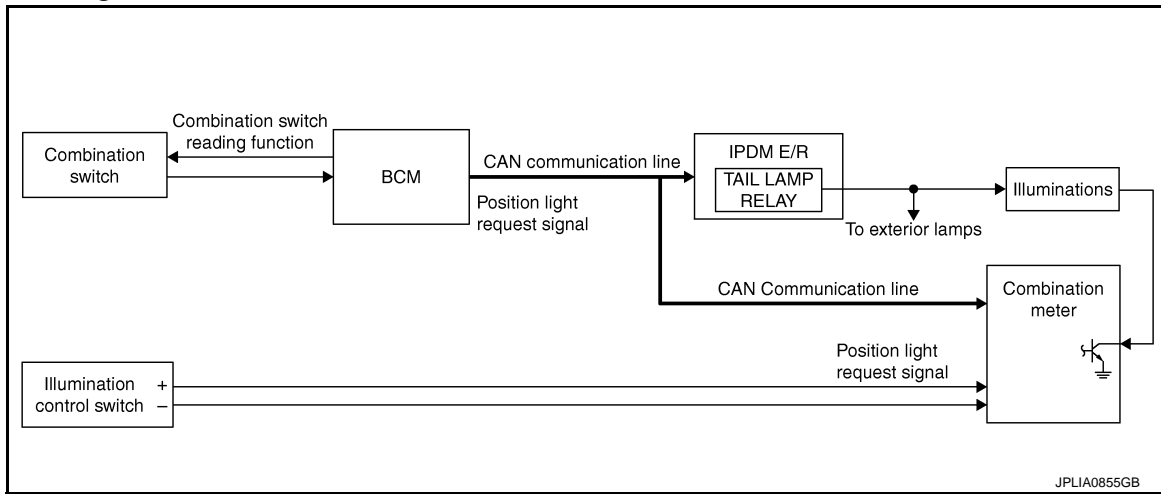
Part	Description
<ul style="list-style-type: none">• Request switch• Door switch	Inputs a switch signal to BCM.
Key slot	Input the Intelligent key in status to BCM.

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

INFOID:000000011487372

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-36, "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 according to tail lamp ON condition.

Tail lamp ON condition

- Lighting switch 1ST
- Lighting switch 2ND

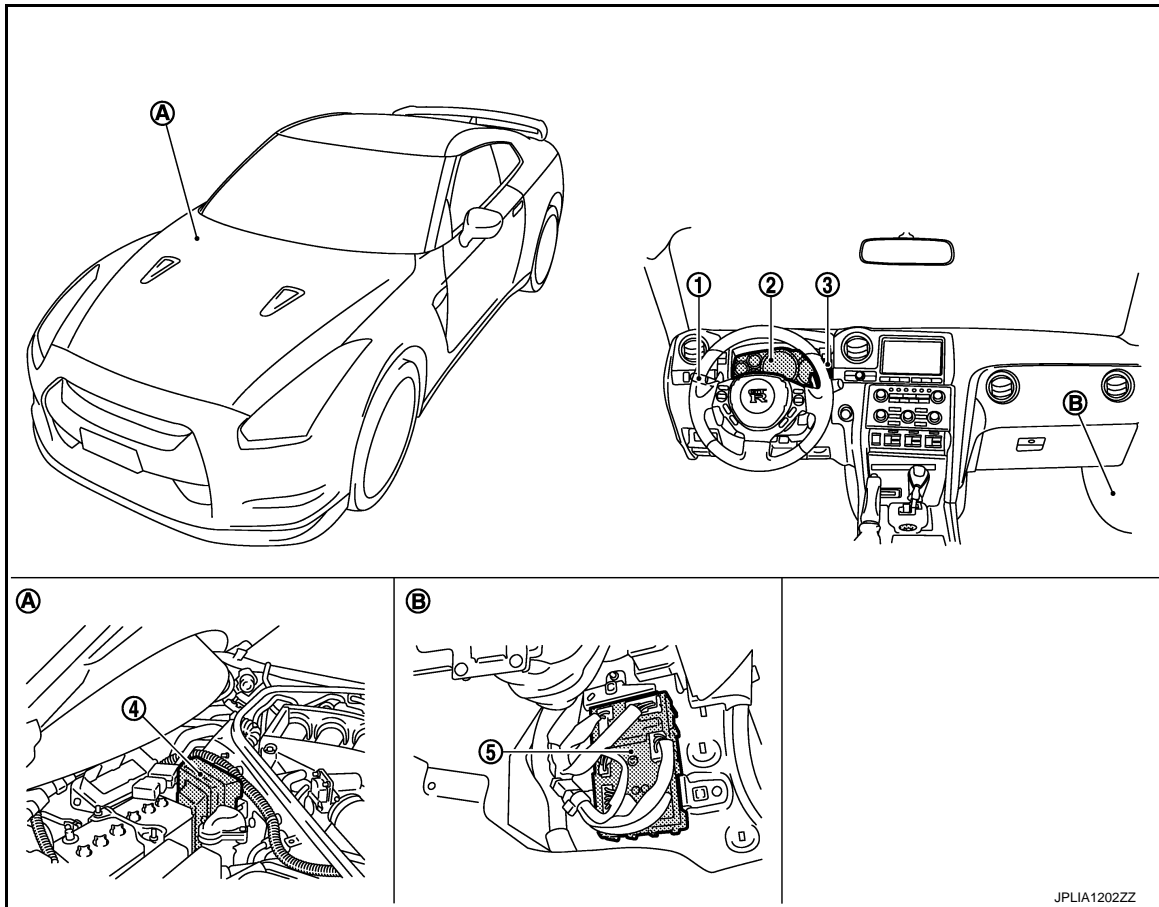
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal. Under the nighttime mode the combination meter controls the illuminance by controlling the each illumination lamp (ground side).

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000011487373



- | | | |
|-------------------------------|-------------------------------------|----------------------|
| 1. Combination switch | 2. Illumination control switch | 3. Combination meter |
| 4. IPDM E/R | 5. BCM | |
| A Engine room dash panel (RH) | B. Dash side lower (passenger side) | |

Component Description

INFOID:000000011487374

Part	Description
BCM	<ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter (with CAN communication).
IPDM E/R	Controls the integrated relay according to the request from BCM (with CAN communication).
Combination meter	<ul style="list-style-type: none"> • Enters in nighttime mode according to the request from BCM (with CAN communication). • Controls the each illumination in the nighttime mode. Refer to MWI-36, "METER ILLUMINATION CONTROL : System Diagram" .
Combination switch (Lighting and turn signal switch)	Refer to BCS-9, "System Diagram" .

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011813650

APPLICATION ITEM

CONSULT 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.
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 CONDITIONER*			
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×

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

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

INT LAMP

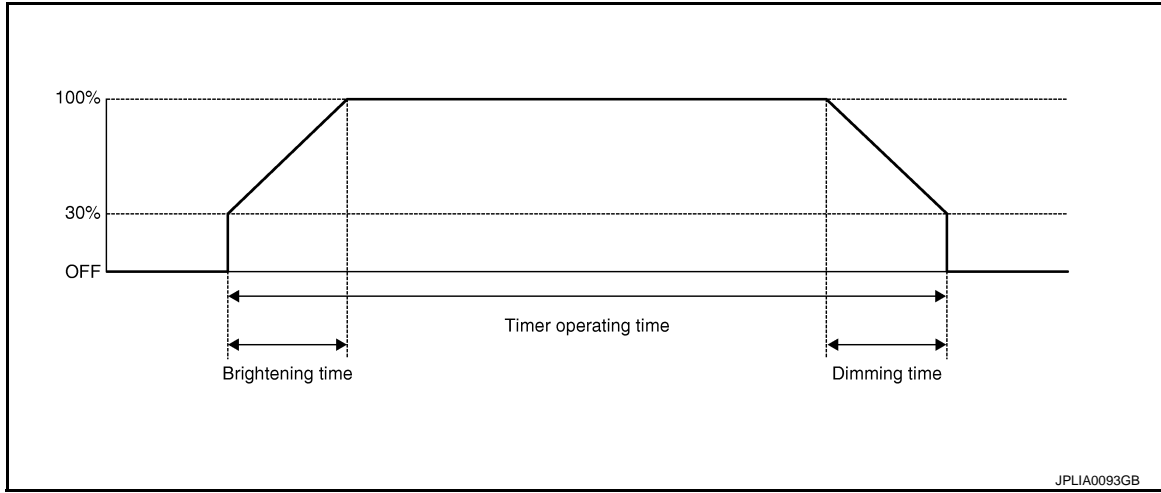
DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

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WORK SUPPORT



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

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from front request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-RL [On/Off]	NOTE: The item is indicated, but not monitored.
PUSH SW [On/Off]	The switch status input from push-button ignition switch
ACC RLY-F/B [On/Off]	NOTE: The item is indicated, but not monitored.
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 driver side door switch
DOOR SW-AS [On/Off]	The switch status input from passenger side door switch
DOOR SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW- RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from the door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status received from the door lock and unlock switch
KEY CYL LK-SW [On/Off]	NOTE: The item is indicated, but not monitored.
KEY CYL UN-SW [On/Off]	NOTE: The item is indicated, but not monitored.
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn map lamp ON (Map lamp switch is in DOOR position).
	Off	Stops the interior room lamp control signal to turn map 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 the trunk room lamp ON.
	Off	Stops the trunk room lamp control signal to turn the trunk room lamp OFF.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000011487377

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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.	
	MODE 3*	15 min.	

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from front request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	NOTE: The item is indicated, but not monitored.
PUSH SW [On/Off]	The switch status input from push-button ignition switch
ACC RLY-F/B [On/Off]	NOTE: The item is indicated, but not monitored.
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 driver side front door switch
DOOR SW-AS [On/Off]	The switch status input from passenger side door switch
DOOR SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW- RL [On/Off]	NOTE: The item is indicated, but not monitored.
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from the door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status received from the door lock and unlock switch
KEY CYL LK-SW [On/Off]	NOTE: The item is indicated, but not monitored.
KEY CYL UN-SW [On/Off]	NOTE: The item is indicated, but not monitored.
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
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

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000011487378

1.CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

COMBINATION METER

COMBINATION METER : Diagnosis Procedure

INFOID:000000011487379

1.CHECK FUSES

Check that the following fuses are not blown:

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Power source	Fuse No.
Battery	11
Ignition switch ON or START	4

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the fuse with a new one after repairing the applicable circuit.

2.CHECK POWER SUPPLY CIRCUIT

Check the voltage between the combination meter harness connector terminals and the ground.

Terminal No.	Signal name	Ignition switch	Voltage
1	Battery power supply	OFF	Battery voltage
2	Ignition signal	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair the harness between the fuse and the combination meter.

3.CHECK GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect the combination meter connector.
3. Check for continuity between the combination meter harness connector terminals and the ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M53	3		Existed
	5		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair the harnesses or connectors.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:000000011487380

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

Component Function Check

INFOID:000000011487381

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT ACTIVE TEST

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

Off : Interior room lamp OFF

On : Interior room lamp ON

Are the interior room lamps turned ON/OFF?

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

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

Diagnosis Procedure

INFOID:000000011487382

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT ACTIVE TEST

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

Terminals		Test item	Voltage (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 the ignition switch OFF.
2. Disconnect the following connectors.
 - Map lamp
 - Vanity mirror lamp (LH)
 - Vanity mirror lamp (RH)
 - Trunk room lamp
 - Step lamp (driver side)
 - Step lamp (passenger side)
3. Check continuity between BCM harness connector and each interior room lamp harness connector.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector	Terminal		
M119	4	Map lamp	R6	1	Existed
		Vanity mirror lamp (LH)	R2	2	
		Vanity mirror lamp (RH)	R3	2	
		Trunk room lamp	B42	1	
		Step lamp (driver side)	D23	1	
		Step lamp (passenger side)	D53	1	

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3. CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and the ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	4		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

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

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:0000000011487383

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:0000000011487384

CAUTION:

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

- Interior room lamp power supply
- Map lamp bulb

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT ACTIVE TEST

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

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

Are the interior room lamps turned ON/OFF (gradual brightening/dimming)?

YES >> Interior room lamp control circuit is normal.

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

Diagnosis Procedure

INFOID:0000000011487385

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT ACTIVE TEST

1. Turn the ignition switch OFF.
2. Remove all the bulbs of map 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 the ground.

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

Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM.

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

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

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M119	19	R6	2	Existed

Does continuity exist?

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace the map lamp.
NO >> Repair the harnesses or connectors.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M119	19		Not existed

Does continuity exist?

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

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Description

INFOID:000000011487386

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

Component Function Check

INFOID:000000011487387

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 ACTIVE TEST

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

On : Step lamp ON

Off : Step lamp OFF

Are the step lamps turned?

- YES >> Step lamp circuit is normal.
NO >> Refer to [INL-27, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011487388

1.CHECK STEP LAMP OUTPUT

CONSULT ACTIVE TEST

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

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

Is the measurement value normal?

- YES >> GO TO 2.
Fixed ON>>GO TO 3.
Fixed OFF>>Replace BCM.

2.CHECK STEP LAMP OPEN CIRCUIT

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

BCM		Step lamp			Continuity
Connector	Terminal	Connector	Terminal		
M119	7	Driver side	D23	2	Existed
		Passenger side	D53	2	

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Does continuity exist?

- YES >> Replace step lamp.
NO >> Repair harnesses or connectors.

3. CHECK STEP LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M119	7		Not existed

Does continuity exist?

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

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TRUNK ROOM LAMP CIRCUIT

Description

INFOID:000000011487389

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

Component Function Check

INFOID:000000011487390

CAUTION:

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

- Interior room lamp power supply
- Trunk room lamp bulb

1.CHECK TRUNK ROOM LAMP OPERATION

CONSULT ACTIVE TEST

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

On : Trunk room lamp ON

Off : Trunk room lamp OFF

Is the trunk room lamp turned ON/OFF?

YES >> Trunk room lamp circuit is normal.

NO >> Refer to [INL-29, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011487391

1.CHECK TRUNK ROOM LAMP OUTPUT

CONSULT ACTIVE TEST

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

BCM		Ground	Test item	Continuity
Connector	Terminal		LUGGAGE LAMP TEST	
M120	30		On	Existed
			Off	Not existed

Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM.

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

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

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M120	30	B42	2	Existed

Does continuity exist?

YES >> Replace the trunk room lamp.

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair the harnesses or connectors.

3. CHECK TRUNK ROOM LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M120	30		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:0000000011487392

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

Component Function Check

INFOID:0000000011487393

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT 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 operation.

On : Push-button ignition switch illumination ON

Off : Push-button ignition switch illumination OFF

Is the push-button ignition switch illumination turned ON/OFF?

- YES >> Push-button ignition switch illumination circuit is normal.
NO >> Refer to [INL-31, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011487394

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 operation.

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

Is the push-button ignition switch illumination turned 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	M131	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 ACTIVE TEST

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

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Terminals		Test item	Voltage (Approx.)
(+)	(-)		
BCM		ENGINE SW ILLUMI	
Connector	Terminal		
M123	133	On	9.5 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	M131	3	Existed

Does the continuity exist?

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

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

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

BCM		Ground	Continuity
Connector	Terminal		
M123	133		Not existed

Does the continuity exist?

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

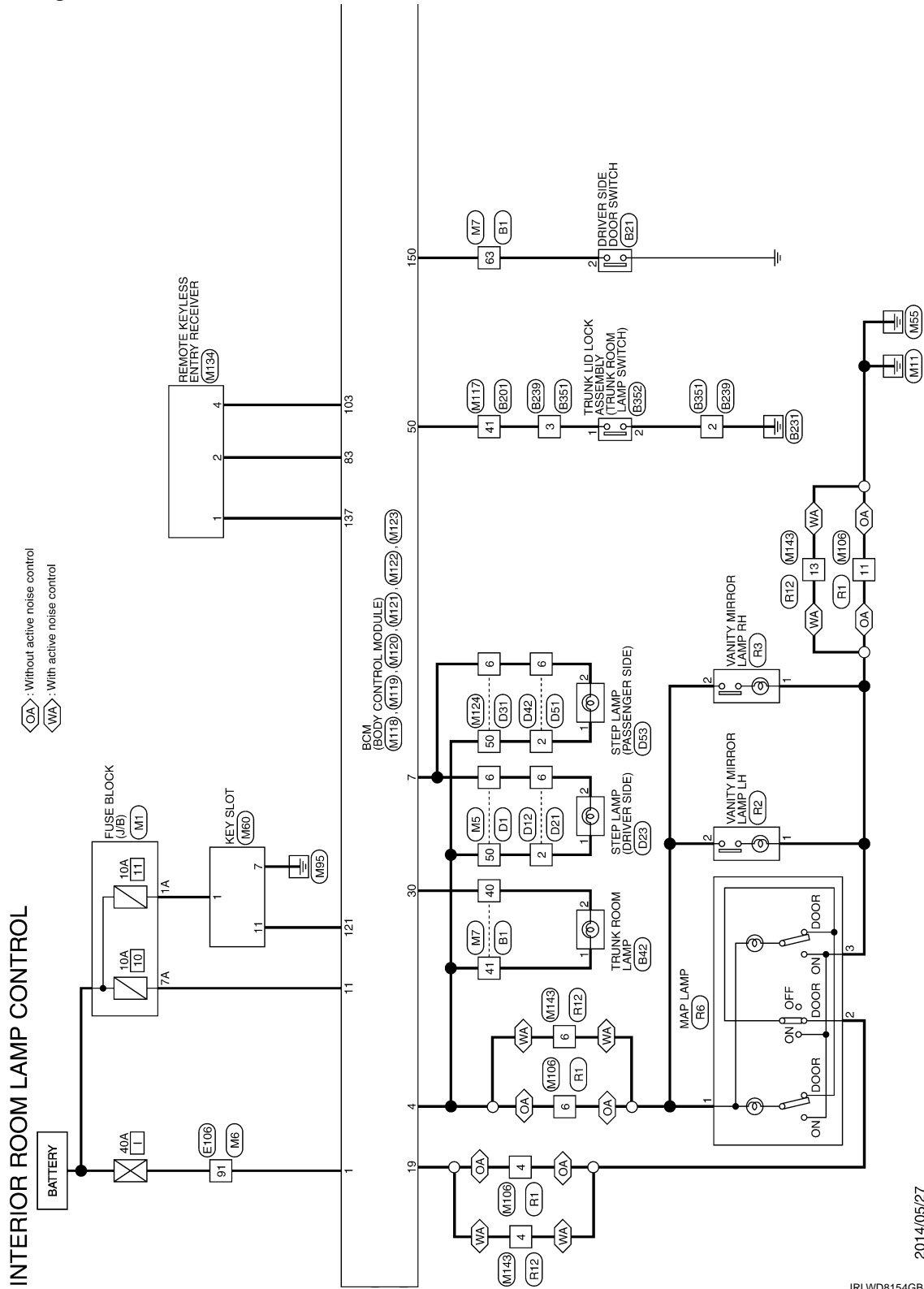
INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram - INTERIOR ROOM LAMP -

INFOID:000000011487395



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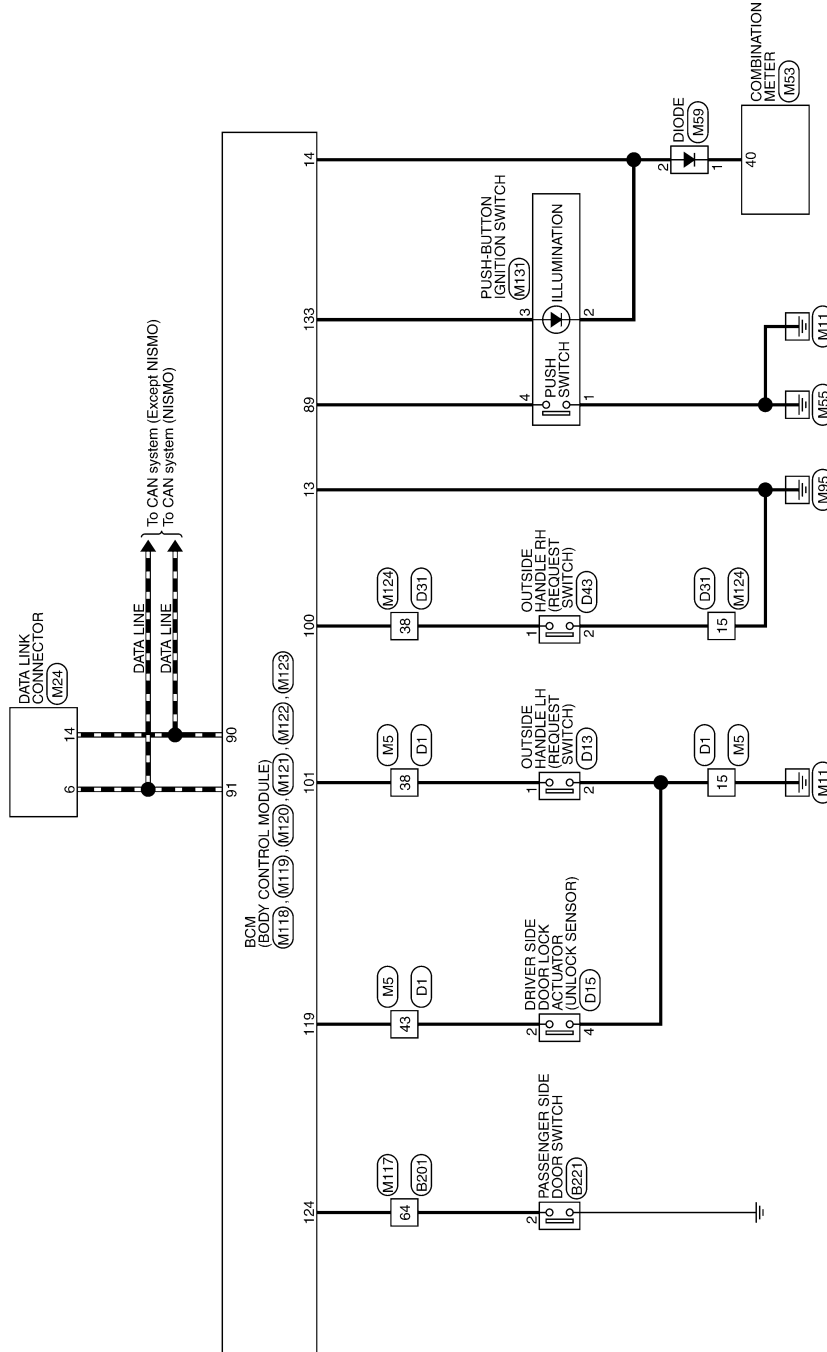
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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



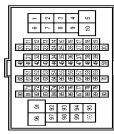
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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C516-TM4

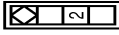


Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
3	V	-
4	W	-
5	Y	-
6	Y	-
7	Y	-
8	Y	-
9	Y	-
10	R	-
11	Y	-
12	GR	-
13	BG	-
14	Y	-
15	BR	-
16	R	-
17	W	-
18	BR	-
19	GR	-
20	GR	-
21	SB	-
22	W	-
23	G	-
24	BG	-
25	L	-
26	P	-
27	GR	-
28	BG	-
29	GR	-
30	L	-
31	V	-
32	BG	-
33	G	-
34	LG	-
35	LG	-
36	Y	-
37	SB	-
38	P	-
39	R	-
40	Y	-
41	Y	-
42	SB	-
43	P	-
44	R	-
45	B	-
46	Y	-
47	R	-
48	B	-

49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	LG	-
64	R	-
65	G	-
66	BR	-
67	BG	-
68	P	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	SB	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [Without active noise control unit]
83	Y	- [With active noise control unit]
84	SHIELD	-
85	V	-
86	SB	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	BR	-
93	SB	-
94	GR	-
95	BG	-
96	Y	-
97	Y	-
98	LG	-

99	R	-
100	G	-

Connector No.	B21
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



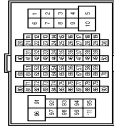
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-

Connector No.	B42
Connector Name	TRUNK ROOM LAMP
Connector Type	S02FW



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

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	RG	-
9	W	-
10	R	-
31	V	-
32	LG	-
33	BR	-
34	L	-
40	P	-
41	GR	-
42	Y	-
43	Y	-
44	V	-
45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
69	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	V	-
85	BR	-
86	SHIELD	-
87	W	-

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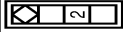
INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL

96	Y	-
98	EG	-
99	BR	-
100	W	-

Connector No.	B221
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW



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

Connector No.	B239
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal Color Of No.	Wire	Signal Name [Specification]
1	Y	-
2	B	-
3	GR	-
4	P	-

Connector No.	B351
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-AH



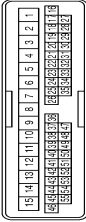
Terminal Color Of No.	Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	GR	-
4	P	-

Connector No.	B352
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Type	TB03FW-TV



Terminal Color Of No.	Wire	Signal Name [Specification]
1	GR	-
2	B	-
3	P	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH06FW-CS15



Terminal Color Of No.	Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
5	Y	-
6	V	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	G	-
17	R	-
27	SHIELD	-
36	O	-
38	W	-
40	GR	-
41	GR	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	D12
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



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

Connector No.	D13
Connector Name	OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	FR02NGY



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

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL

Connector No.	D15
Connector Name	DRIVER SIDE DOOR LOCK ACTUATOR
Connector Type	RSM4FGY-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	G	-
4	B	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH68MW-NH



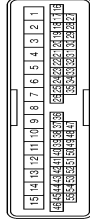
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	LG	-
5	R	-
6	Y	-
7	V	-

Connector No.	D23
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	C02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	O	-

38	W	-
40	LG	-
41	GR	-
42	BR	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	TH68FW-NH



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

Connector No.	D43
Connector Name	OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	FK02MGY



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

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TH68MW-NH



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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

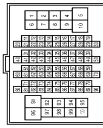
INTERIOR ROOM LAMP CONTROL

Connector No.	B53
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	C02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH01FW-CS16-TM4

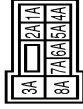


Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
3	BG	-
4	BG	-
5	R	-
6	P	-
7	BG	-
8	P	-
9	W	-
10	Y	-
11	SB	-
12	BG	-
13	P	-
14	L	-
15	SB	-
16	BG	-
17	SHIELD	-
18	L	-
19	P	-

20	B	-
21	Y	-
22	V	-
23	Y	-
24	V	-
25	BR	-
26	L	-
27	SHIELD	-
28	G	-
29	R	-
30	W	-
31	V	-
32	G	-
33	GR	-
34	P	-
35	LG	-
36	G	-
37	Y	-
38	SB	-
39	GR	-
40	G	-
41	V	-
42	V	-
43	L	-
44	BR	-
45	G	-
46	SB	-
48	BG	-
49	L	-
50	R	-
51	SHIELD	-
60	P	-
61	L	-
71	LG	-
72	SB	-
74	P	-
75	BR	-
76	LG	-
77	V	-
78	BR	-
79	W	-
80	Y	-
81	GR	-
82	BG	-
84	P	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	BG	-

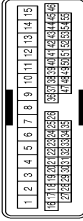
90	G	-
91	GR	-
92	R	-
93	R	-
94	LG	-
95	G	-
96	GR	-
97	L	-
98	LG	-
99	BG	-
100	L	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH01MW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	W	-
13	LG	-
14	SB	-
15	B	-
16	BR	-
17	Y	-
27	SHIELD	-
36	L	-
38	V	-
40	GR	-
41	P	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	BG	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80/MW-CS16-TM4



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

38	Y	-
39	GR	-
40	BG	-
41	W	-
42	R	-
43	Y	-
44	BR	-
45	G	-
46	LG	-
47	W	-
48	W	-
49	L	-
50	R	-
51	SHIELD	-
60	SB	-
61	V	-
71	W	-
72	LG	-
74	R	-
75	BR	-
76	LG	-
77	R	-
78	BR	-
79	W	-
80	Y	-
81	BG	-
82	SB	-
84	Y	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	G	-
90	P	-
91	W	-
92	R	-
93	LG	-
94	W	-
95	SB	-
96	L	-
97	L	-
98	Y	-
99	BG	-
100	L	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80/MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	-
12	SB	-
13	G	-
14	W	-
15	BR	-
16	R	-
17	BG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	-
27	W	-
28	R	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	W	-
40	BG	-
41	R	-
42	V	-
43	W	-
47	G	-
48	R	-
49	W	-

50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	V	-
62	SHIELD	-
63	GR	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	LG	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [Without active noise control unit]
83	Y	- [With active noise control unit]
84	SHIELD	-
85	V	-
86	LG	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	LG	-
93	Y	-
94	G	-
95	R	-
96	Y	-
97	R	-
98	G	-
99	L	-
100	W	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

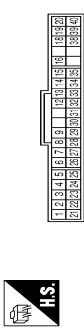
INTERIOR ROOM LAMP CONTROL

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	R	-
4	B	-
5	B	-
6	B	-
7	V	-
8	G	-
9	G	-
10	G	-
11	G	-
12	P	-
13	P	-
14	P	-
15	P	-
16	Y	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	AC/AUTO AMP COMBINATION METER SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)

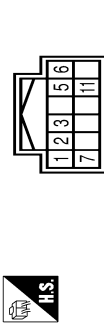
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR SIGNAL
20	W	OIL LEVEL SENSOR GROUND
21	L	CAN+H
22	P	CAN-L
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (L)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (R)
25	G	TRIP A/B RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	V	BRAKE FLUID LEVEL SWITCH SIGNAL
33	L	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

Connector No.	M59
Connector Name	DIODE
Connector Type	24335-C9900



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

Connector No.	M60
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	BAT
2	GR	CLOCK
3	V	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GNL
11	R	KEY SWITCH SIGNAL

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	P	-
3	L	-
4	V	-
5	Y	-
6	R	-
11	B	-
12	GR	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	G	-
9	W	-
10	L	-
31	L	-
32	LG	-
33	BR	-
34	L	-
40	G	-
41	R	-
42	SB	-
43	L	-
44	R	-
45	G	-
51	SB	-
52	BG	-
53	R	-
54	GR	-
60	L	-
61	P	-
62	L	-
63	Y	-
64	LG	-
69	P	-
70	L	-
71	Y	-
80	L	-
81	G	-
82	BR	-
83	B	-
84	V	-
85	SB	-
86	SHIELD	-
87	W	-
96	Y	-

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL

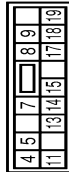
98	G	
99	V	
100	W	

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FE-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (FL)
2	R	POWER WINDOW POWER SUPPLY(BAT)
3	W	POWER WINDOW POWER SUPPLY(TRAIP)

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



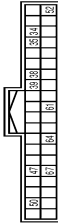
Terminal No.	Color Of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
14	P	PUSH-BUTTON (IGNITION SW ILL GND)
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT) OUTPUT
18	BG	TURN SIGNAL LH (FRONT) OUTPUT
19	V	ROOM LAMP TIMER CONTROL

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



Terminal No.	Color Of Wire	Signal Name [Specification]
20	SB	TURN SIGNAL RH (REAR) OUTPUT
23	G	TURN LID OPEN OUTPUT
25	V	TURN SIGNAL LH (REAR) OUTPUT
30	BG	TRUNK ROOM LAMP OUTPUT

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



Terminal No.	Color Of Wire	Signal Name [Specification]
34	P	TRUNK ROOM ANT-
35	L	TRUNK ROOM ANT+
38	R	REAR BUMPER ANT-
39	BR	REAR BUMPER ANT+
47	Y	IGN RELAY (PDM) FIBL CONT
50	R	TRUNK ROOM LAMP SW
52	SB	STARTER RELAY CONT
61	W	TRUNK LID REQUEST SW
64	BG	HKEY WARN BUZZER (ENG ROOM)
67	G	TRUNK LID OPENER SW

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FE-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	IMMOBI ANTENNA SIGNAL
81	L	IGN RELAY (FIB) CONT
82	R	KEYLESS ENTRY RECEIVER COMM
83	Y	KEYLESS ENTRY RECEIVER COMM
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 OUTPUT
93	V	ON IND
95	BG	ACC RELAY CONT
96	SB	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	R	S/L CONDITION 2
99	G	SHIFT P
100	W	PASSENGER DOOR REQUEST SW
101	V	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	P	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT 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	STOP LAMP SW 1
118	B	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	BR	IGN F/B
124	LG	PASSENGER DOOR SW
128	P	DOOR LOCK UNLOCK SW LOCK
129	BG	TRUNK CANCEL SW
131	BR	DOOR LOCK UNLOCK SW UNLOCK
133	W	PUSH-BUTTON (IGNITION SW ILL) POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	RECEIVER SENSOR POWER SUPPLY
140	BR	SHIFT N/P
141	G	SECURITY INDICATOR
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFROGGER RELAY CONT

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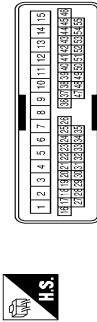


INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL

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



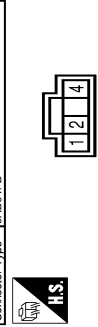
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	R	-
4	W	-
5	BR	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	W	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	BR	-
38	W	-
40	LG	-
41	P	-
42	BR	-
44	L	-
45	Y	-
46	EG	-
47	SB	-
48	BR	-
50	R	-
54	W	-
55	G	-

Connector No.	M131
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	P	-
3	W	-
4	BR	-
5	GR	-
6	Y	-
7	V	-
8	G	-

Connector No.	M134
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB



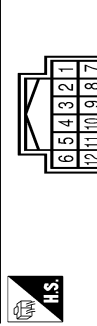
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	GND
2	Y	SIGNAL OUTPUT
4	LG	BATTERY

Connector No.	M143
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	P	-
3	L	-
4	V	-
5	Y	-
6	R	-
7	SB	-
8	R	-
13	B	-
14	GR	-
15	B	-
16	B	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	P	-
3	L	-
4	V	-
5	Y	-
6	R	-
11	B	-
12	GR	-

Connector No.	R2
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW



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

Connector No.	R3
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW



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

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

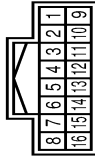
INTERIOR ROOM LAMP CONTROL

Connector No.	R6
Connector Name	MAP LAMP
Connector Type	TKGBEGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-
3	B	-

Connector No.	R12
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	P	-
3	L	-
4	V	-
5	Y	-
6	R	-
7	SB	-
8	R	-
13	B	-
14	GR	-
15	B	-
16	B	-

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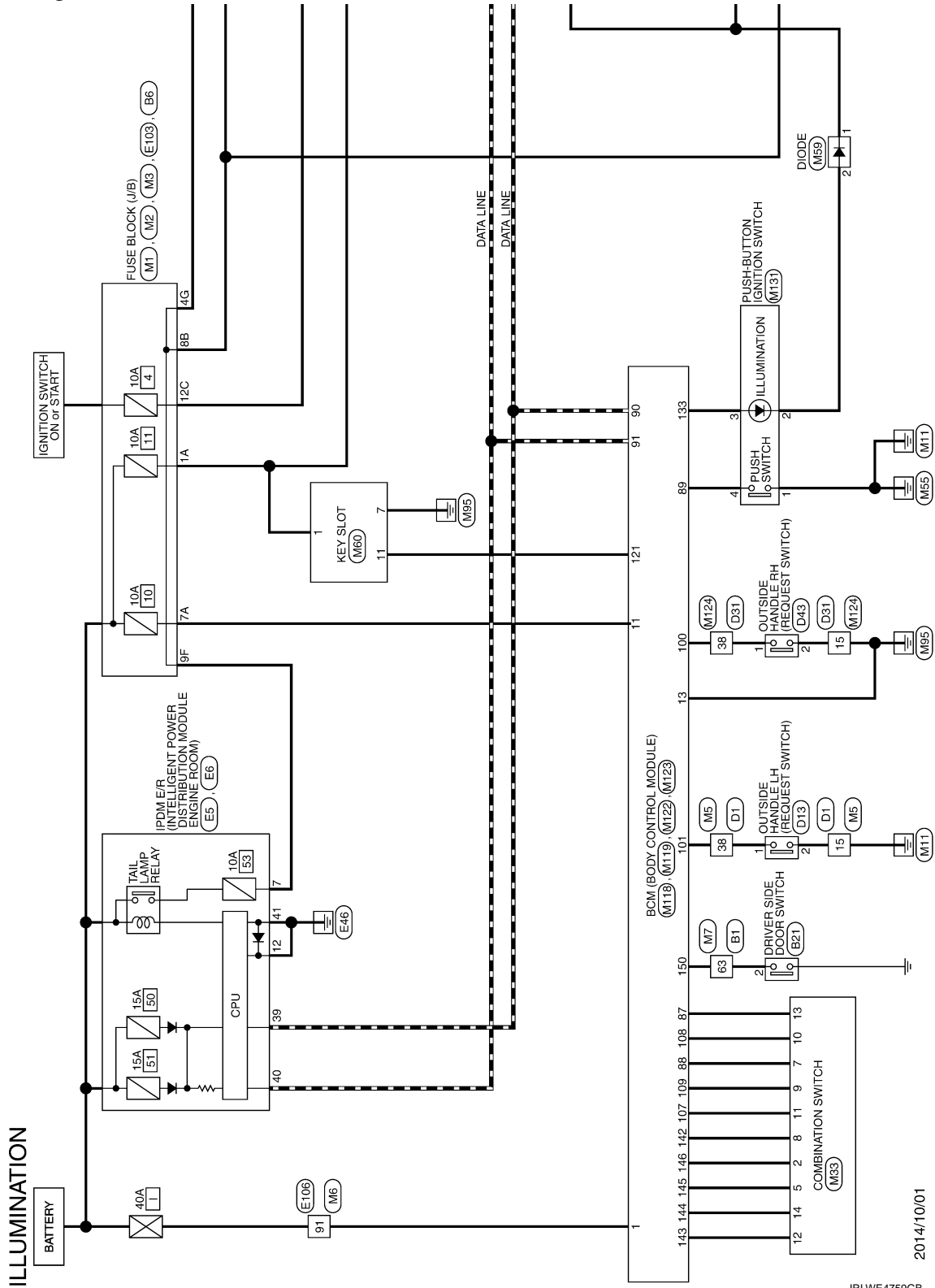
ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Wiring Diagram - ILLUMINATION -

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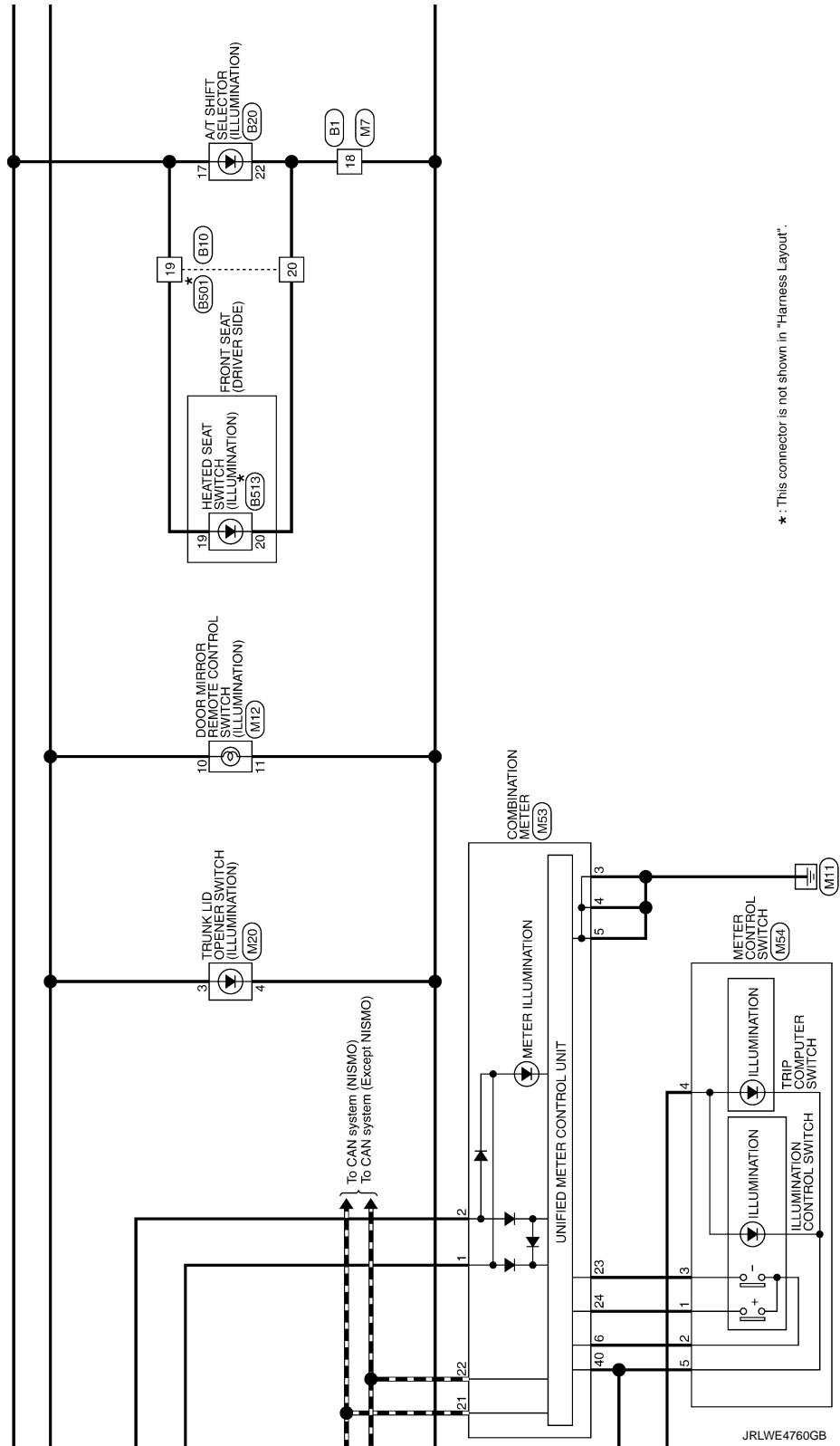


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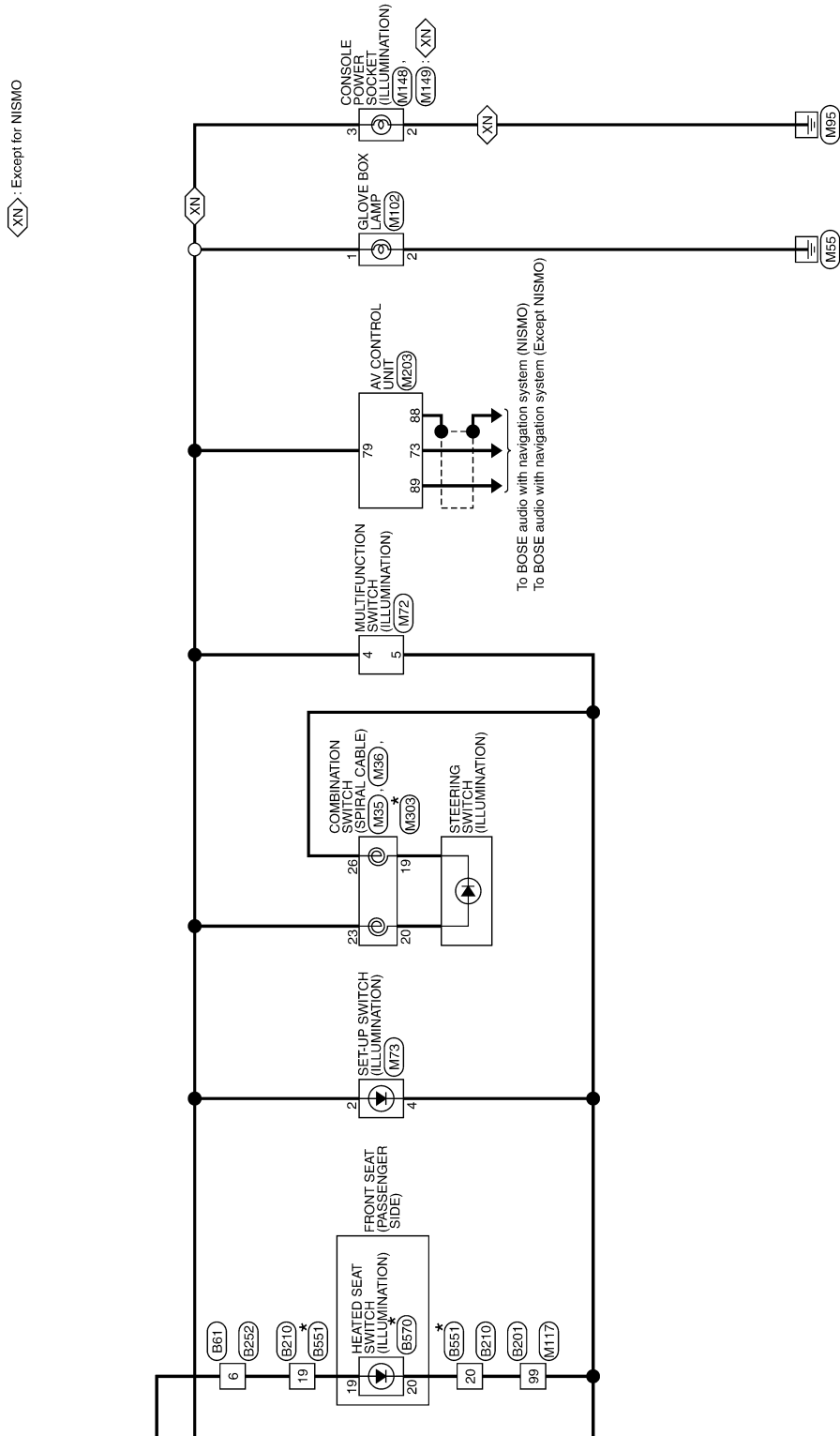


*: This connector is not shown in "Harness Layout".

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ILLUMINATION

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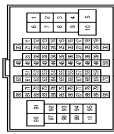
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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

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



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	V	-
7	W	-
8	Y	-
9	R	-
10	R	-
11	Y	-
12	GR	-
13	BG	-
14	Y	-
15	BR	-
16	R	-
17	W	-
18	BR	-
20	GR	-
21	SB	-
22	W	-
23	G	-
24	BG	-
25	L	-
26	P	-
27	GR	-
28	BG	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	G	-
40	LG	-
41	V	-
42	SB	-
43	P	-
47	R	-
48	B	-

49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	LG	-
64	R	-
65	G	-
66	G	-
67	BR	-
68	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit] - [With active noise control unit]
73	SB	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit] - [With active noise control unit]
83	R	- [Without active noise control unit] - [With active noise control unit]
84	SHIELD	-
85	V	-
86	SB	- [Without active noise control unit] - [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	BR	-
93	SB	-
94	GR	-
95	BG	-
96	Y	-
97	Y	-
98	LG	-

99	R	-
100	G	-

Connector No.	B6
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS12FBR-CS



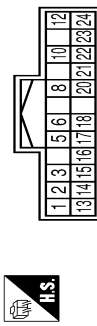
Terminal No.	Color Of Wire	Signal Name [Specification]
10G	BG	-
4G	P	-
5G	W	-

Connector No.	B10
Connector Name	WIPE TO WIPE
Connector Type	NS06FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-
18	Y	-
19	P	-
20	BR	-
21	B	-

Connector No.	B20
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BCM VCC IN
2	BG	KEY I LOCK (P)
3	B	GROUND
6	G	RANGE SENSOR No. - SIGNAL
8	B	GROUND
8	V	RANGE SENSOR No.1 SIGNAL
10	G	RANGE SENSOR No.3 SIGNAL
12	GR	RANGE SENSOR No.5 SIGNAL
13	Y	VIGN
14	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
15	LG	RANGE SENSOR POWER SOURCE 2
16	L	RANGE SENSOR POWER SOURCE 1
17	R	ILLUMINATION
18	B	GROUND
20	BR	AUTO-MANUAL RANGE CHANGE SWITCH-1 SIGNAL
21	P	RANGE SENSOR No.4 SIGNAL
22	BR	ILLUMINATION GND
23	R	RANGE SENSOR No.2 SIGNAL
24	V	AUTO-MANUAL RANGE CHANGE SWITCH-2 SIGNAL

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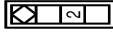
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ILLUMINATION

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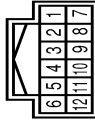
ILLUMINATION

Connector No.	B21
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



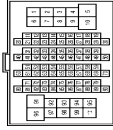
Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-

Connector No.	B61
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	G	-
5	V	-
6	W	-
7	V	-
8	L	-
9	BG	-
10	GR	-
11	LG	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH89FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	BG	-
9	W	-
10	R	-
31	V	-
32	LG	-
33	BR	-
34	L	-
40	P	-
41	GR	-
42	Y	-
43	Y	-
44	V	-
45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
69	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	Y	-
85	BR	-
86	SHIELD	-
87	W	-
96	Y	-

98	BG	-
99	BR	-
100	W	-



Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-
18	BG	-
19	R	-
20	BR	-
21	B	-

Connector No.	B252
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-
3	SB	-
4	G	-
5	V	-
6	W	-
7	R	-
8	G	-
9	BG	-

10	GR	-
11	LG	-
12	SHIELD	-



Connector No.	B501
Connector Name	WIRE TO WIRE
Connector Type	NS06MW-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LW	-
2	B	-
18	R	-
19	W/R	-
20	W/B	-
21	B	-

Connector No.	B513
Connector Name	HEATED SEAT SWITCH
Connector Type	NS06FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
18	R	-
19	W/R	-
20	W/B	-
21	B	-
22	L/B	-
23	L/B	-

ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Connector No.	B551
Connector Name	WIRE TO WIRE
Connector Type	NS56/MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	-
2	B	-
18	B	-
19	W/R	-
20	W/B	-
21	B	-

Connector No. B570

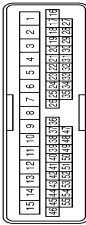
Connector Name HEATED SEAT SWITCH

Connector Type NS56FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
18	R	-
19	W/R	-
20	W/B	-
21	B	-
22	L/R	-
23	L/B	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	G	-
17	R	-
27	SHIELD	-
36	O	-
38	W	-
40	GR	-
41	GR	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	D13
Connector Name	OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02MGY

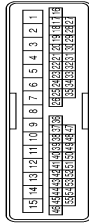


Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No. D31

Connector Name WIRE TO WIRE

Connector Type TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	O	-

38	W	-
40	LG	-
41	GR	-
42	BR	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No. D43

Connector Name OUTSIDE HANDLE RH (REQUEST SWITCH)

Connector Type RK02MGY

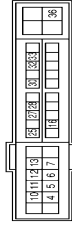


Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No. E5

Connector Name POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)

Connector Type TH20FW-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
6	Y	-
7	R	-

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ILLUMINATION

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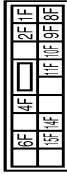
10	W	-	-
11	SB	-	-
12	BW	-	-
13	R	-	-
16	LG	-	-
25	BG	-	-
27	Y	-	-
28	G	-	-
30	GR	-	-
32	L	-	-
33	P	-	-
36	LG	-	-

Connector No.	E6
Connector Name	ENGINE INTELLIGENT POWER/DISTRIBUTION/MOBILE ENGINE ROOM
Connector Type	TH86FW-NH



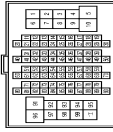
Terminal No.	Wire	Signal Name (Specification)
39	P	-
40	L	-
41	BY	-
42	G	-
43	SB	-
44	W	-
46	BG	-

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



Terminal No.	Wire	Signal Name (Specification)
10F	GR	-
11F	Y	-
14F	LG	-
15F	P	-
1F	W	-
2F	W	-
4F	G	-
6F	BG	-
8F	L	-
9F	R	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH89FW-CS16-TM4

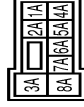


Terminal No.	Wire	Signal Name (Specification)
1	V	-
3	BG	-
4	BG	-
5	R	-
6	P	-
7	BG	-
8	P	-
9	W	-
10	Y	-
11	SB	-

12	BG	-
13	P	-
14	L	-
15	SB	-
16	BG	-
17	SHIELD	-
18	L	-
19	P	-
20	B	-
21	Y	-
22	V	-
23	Y	-
24	V	-
25	BR	-
26	L	-
27	SHIELD	-
28	G	-
29	R	-
30	W	-
31	V	-
32	G	-
33	GR	-
34	P	-
35	LG	-
36	G	-
37	Y	-
38	SB	-
39	GR	-
40	G	-
41	V	-
42	V	-
43	L	-
44	BR	-
45	G	-
46	SB	-
48	BG	-
49	L	-
50	R	-
51	SHIELD	-
60	P	-
61	L	-
71	LG	-
72	SB	-
74	P	-
75	BR	-
76	LG	-
77	V	-
78	BR	-
79	W	-
80	Y	-

81	GR	-
82	BG	-
84	P	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	BG	-
90	G	-
91	GR	-
92	R	-
93	R	-
94	LG	-
95	G	-
96	GR	-
97	L	-
98	LG	-
99	BG	-
100	L	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS56FW-M2



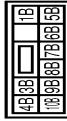
Terminal No.	Wire	Signal Name (Specification)
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

ILLUMINATION

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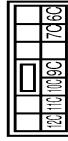
ILLUMINATION

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



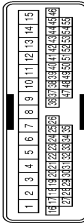
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	Y	-
2B	R	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	R	-
8B	R	-
9B	SB	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	W	-
13C	R	-
14C	B	-
15C	W	-
16C	BR	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	W	-
4	W	-
5	Y	-
6	G	-
7	Y	-
8	V	-
9	R	-
10	W	-
11	V	-
12	W	-
13	LG	-
14	SB	-
15	B	-
16	BR	-
17	Y	-
27	SHIELD	-
36	L	-
38	V	-
40	GR	-
41	P	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	BG	-
47	V	-
48	LG	-
50	R	-
51	W	-
54	W	-
55	G	-

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



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

38	Y	-
39	GR	-
40	BG	-
41	W	-
42	R	-
43	Y	-
44	BR	-
45	G	-
46	LG	-
47	Y	-
48	W	-
49	L	-
50	R	-
51	SHIELD	-
60	SB	-
61	V	-
71	W	-
72	LG	-
74	R	-
75	BR	-
76	LG	-
77	R	-
78	BR	-
79	W	-
80	Y	-
81	BG	-
82	SB	-
84	Y	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	G	-
90	P	-
91	W	-
92	R	-
93	LG	-
94	W	-
95	SB	-
96	L	-
97	L	-
98	Y	-
99	BG	-
100	L	-

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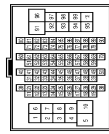
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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

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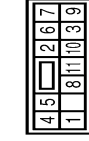
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	-
12	SB	-
13	G	-
14	W	-
15	BR	-
16	R	-
17	EG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	-
27	W	-
28	R	-
31	GR	-
32	L	-
33	V	-
34	EG	-
39	W	-
40	EG	-
41	R	-
42	V	-
43	W	-
47	G	-
48	R	-
49	W	-

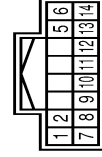
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	GR	-
64	R	-
65	G	-
66	BR	-
67	EG	-
68	P	-
70	T	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	LG	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [Without active noise control unit]
83	Y	- [With active noise control unit]
84	SHIELD	-
85	V	-
86	LG	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	LG	-
93	Y	-
94	G	-
95	R	-
96	Y	-
97	R	-
98	G	-
99	L	-
100	W	-

Connector No.	M12
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-
3	SB	-
4	B	-
5	W	-
6	G	-
7	W	-
8	BG	-
9	L	-
10	R	-
11	V	-

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



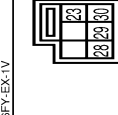
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	SB	-
5	B	-
6	B	-
7	V	-
8	RG	-
9	Y	-
10	R	-
11	LG	-
12	P	-
13	BR	-
14	G	-

Connector No.	M20
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TK04FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	R	-
4	V	-

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



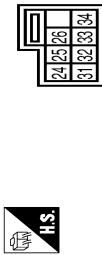
Terminal No.	Color Of Wire	Signal Name [Specification]
23	P	-
28	Y	-
29	Y	-
30	Y	-

ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

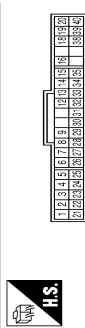
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
24	V	-
25	G	-
26	Y	-
31	SB	-
32	R	-
33	GR	-
34	W	-

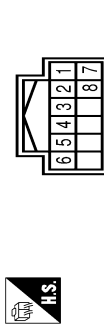
Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	ACTUATOR COMPASS MOTOR SENSOR SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL

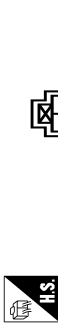
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CAN-L
22	P	CAN-H
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (L)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (R)
25	G	TRIP AIR RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT REPEL SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT REPEL SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	Y	BRAKE FLUID LEVEL SWITCH SIGNAL
33	Y	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12FW-NH



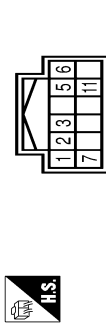
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	W	-
3	LG	-
4	R	-
5	V	-
6	BG	-
7	SB	-
8	G	-

Connector No.	M59
Connector Name	DIODE
Connector Type	24335-C9900



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

Connector No.	M60
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



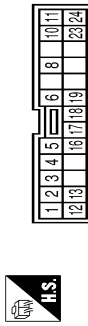
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	BAT
2	GR	CLOCK
3	L	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GROUND
11	R	KEY SWITCH SIGNAL

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	V	-
3	V	ACC
4	P	-
5	P	ILL CONT
6	G	AV COMM (H)
8	R	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M73
Connector Name	SET-UP SWITCH
Connector Type	TR24FW-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	VDC TOP POSITION LED
2	R	ILL+
3	W	VDC TOP POSITION LED
4	V	ILL GND
5	L	VDC UP SW
6	P	E-SUS R MODE SW SIG
8	LG	E-SUS COMF MODE LAMP SIG
10	G	SAVE MODE LAMP SIGNAL
11	W	R MODE SWITCH SIGNAL
12	GR	VDC DN SW
13	G	HAZARD SW
16	R	R MODE LAMP SIGNAL

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ILLUMINATION

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ILLUMINATION

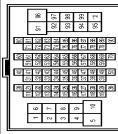
17	B	SW GND
18	G	IGN
19	EG	E-SUS F1 MODE LAMP SIG
23	BR	SAVE MODE SWITCH SIGNAL
24	R	E-SUS COMF MODE SW SIG

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



Terminal No.	1	R
Terminal No.	2	B

Connector No.	M117
Connector Name	WIPE TO WIPE
Connector Type	TH80MW-CS16-TM4



Terminal No.	6	G
Terminal No.	7	V
Terminal No.	8	G
Terminal No.	9	W
Terminal No.	10	L
Terminal No.	31	Y
Terminal No.	32	LG
Terminal No.	33	BR
Terminal No.	34	L
Terminal No.	40	G
Terminal No.	41	R

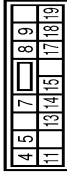
42	SB	-
43	L	-
44	R	-
45	G	-
51	SB	-
52	EG	-
53	R	-
54	GR	-
60	L	-
61	P	-
62	L	-
63	Y	-
64	LG	-
69	P	-
70	L	-
71	Y	-
80	L	-
81	G	-
82	BR	-
83	B	-
84	V	-
85	SB	-
86	SHIELD	-
87	W	-
96	Y	-
98	G	-
99	V	-
100	W	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03RFLC



Terminal No.	1	W
Terminal No.	2	R
Terminal No.	3	W

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



Terminal No.	4	R
Terminal No.	5	G
Terminal No.	7	Y
Terminal No.	8	V
Terminal No.	9	G
Terminal No.	11	R
Terminal No.	13	B
Terminal No.	14	P
Terminal No.	15	Y
Terminal No.	17	W
Terminal No.	18	BG
Terminal No.	19	V

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH00FR-NH



80	GR	IMMOBI ANTENNA CONTROL
81	L	IMMOBI ANTENNA SIGNAL
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
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 OUTPUT
93	V	ON IND
95	BG	ACC RELAY CONT
96	SB	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	R	S/L CONDITION 2
99	G	SHIFT P
100	W	PASSENGER DOOR REQUEST SW
101	V	DRIVER DOOR REQUEST SW
102	RG	BLOWER FAN MOTOR RELAY CONT
103	IG	REFUELLER RECIEVER POWER SUPPLY
106	P	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH00FG-NH



Terminal No.	113	P
Terminal No.	116	SB
Terminal No.	118	P
Terminal No.	119	SB
Terminal No.	123	R
Terminal No.	123	BR
Terminal No.	124	LG
Terminal No.	128	P

Terminal No.	72	R
Terminal No.	73	G
Terminal No.	74	SB
Terminal No.	75	BR
Terminal No.	76	V
Terminal No.	77	LG
Terminal No.	78	Y
Terminal No.	79	BR

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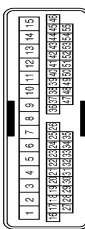
ILLUMINATION

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ILLUMINATION

129	EG	TRUNK CANCEL SW
131	BR	DOOR LOCK/UNLOCK SW UNLOCK
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	RECEIVER SENSOR POWER SUPPLY
140	BR	SHIFT N/P
141	G	SECURITY INDICATOR
142	EG	COMBI SW OUTPUT 5
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFROGGER/RELYN CONT

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	R	-
4	G	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	W	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	BR	-
38	W	-

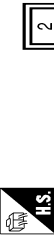
40	LG	-
41	P	-
42	BR	-
44	L	-
45	Y	-
46	EG	-
47	SB	-
48	BR	-
50	R	-
54	W	-
55	G	-

Connector No.	M131
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK68FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	P	-
3	W	-
4	BR	-
5	GR	-
6	Y	-
7	V	-
8	G	-

Connector No.	M148
Connector Name	CONSOLE POWER SOCKET
Connector Type	P02FBZ



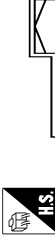
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-

Connector No.	M149
Connector Name	CONSOLE POWER SOCKET
Connector Type	P01FBA



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-

Connector No.	M203
Connector Name	AV CONTROL UNIT
Connector Type	TH82FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
65	R	PARKING BRAKE
67	W	COMPOSITE IMAGE GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE GND
72	L	MICROPHONE VCC
73	V	COMM (CONT-DISP)
74	P	CAN-L
75	R	AV COMM (L)
76	R	AV COMM (L)
79	R	ILLUMINATION
80	W	IGNITION
81	EG	REVERSE
82	V	VEHICLE SPEED (8-PULSE)
83	SHIELD	SHIELD
84	B	COMPOSITE SYNCHRONIZING SIGNAL
87	B	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	SB	COMM (DISP-CONT)
90	L	CAN-H
91	G	AV COMM (H)
92	G	AV COMM (H)

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



Terminal No.	Color Of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

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BCM (BODY CONTROL MODULE)

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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000011813651

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

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

BCM (BODY CONTROL MODULE)

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Monitor Item	Condition	Value/Status	
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off	A
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off	B
CDL LOCK SW	Other than power door lock switch LOCK	Off	C
	Power door lock switch LOCK	On	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off	D
	Power door lock switch UNLOCK	On	
KEY CYL LK-SW	NOTE: The item is indicated, but not monitored.	Off	E
KEY CYL UN-SW	NOTE: The item is indicated, but not monitored.	Off	F
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	G
HAZARD SW	Hazard switch is not pressed	Off	H
	Hazard switch is pressed	On	
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	I
H/L WSR SW	NOTE: The item is indicated, but not monitored.	Off	J
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off	K
	Trunk lid opener cancel switch ON	On	
TR/BD OPEN SW	Trunk lid opener switch OFF	Off	INL
	While the trunk lid opener switch is turned ON	On	
TRNK/HAT MNTR	Trunk lid closed	Off	M
	Trunk lid opened	On	
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off	N
RKE-LOCK	LOCK button of Intelligent Key is not pressed	Off	O
	LOCK button of Intelligent Key is pressed	On	
RKE-UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off	P
	UNLOCK button of Intelligent Key is pressed	On	
RKE-TR/BD	TRUNK OPEN button of Intelligent Key is not pressed	Off	
	TRUNK OPEN button of Intelligent Key is pressed	On	
RKE-PANIC	PANIC button of Intelligent Key is not pressed	Off	
	PANIC button of Intelligent Key is pressed	On	
RKE-P/W OPEN	UNLOCK button of Intelligent Key is not pressed	Off	
	UNLOCK button of Intelligent Key is pressed and held	On	
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off	
	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V	
	Dark outside of the vehicle	Close to 0 V	
REQ SW-DR	Driver door request switch is not pressed	Off	
	Driver door request switch is pressed	On	
REQ SW-AS	Passenger door request switch is not pressed	Off	
	Passenger door request switch is pressed	On	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
REQ SW-RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW-RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW-BD/TR	Trunk lid opener request switch is not pressed	Off
	Trunk lid opener request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Shift lever in P position	Off
	Shift lever in any position other than P	On
SFT PN/N SW	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
UNLK SEN-DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT PN -IPDM	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	On
SFT P -MET	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT N -MET	Shift lever in any position other than N	Off
	Shift lever in N position	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
ENGINE STATE	Engine stopped	Stop	A
	While the engine stalls	Stall	
	At engine cranking	Crank	B
	Engine running	Run	
S/L LOCK-IPDM	Steering is unlocked	Off	
	Steering is locked	On	C
S/L UNLK-IPDM	Steering is locked	Off	
	Steering is unlocked	On	D
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off	
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On	E
VEH SPEED 1	While driving	Equivalent to speedometer reading	F
VEH SPEED 2	While driving	Equivalent to speedometer reading	
DOOR STAT-DR	Driver door is locked	LOCK	G
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	H
	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door is unlocked	UNLOCK	
ID OK FLAG	Steering is locked	Reset	I
	Steering is unlocked	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	J
	The engine start is permitted	Set	
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	K
KEY SW -SLOT	Intelligent Key is not inserted into key slot	Off	
	Intelligent Key is inserted into key slot	On	INL
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—	M
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done	N
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet	O
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done	
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	P
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	

BCM (BODY CONTROL MODULE)

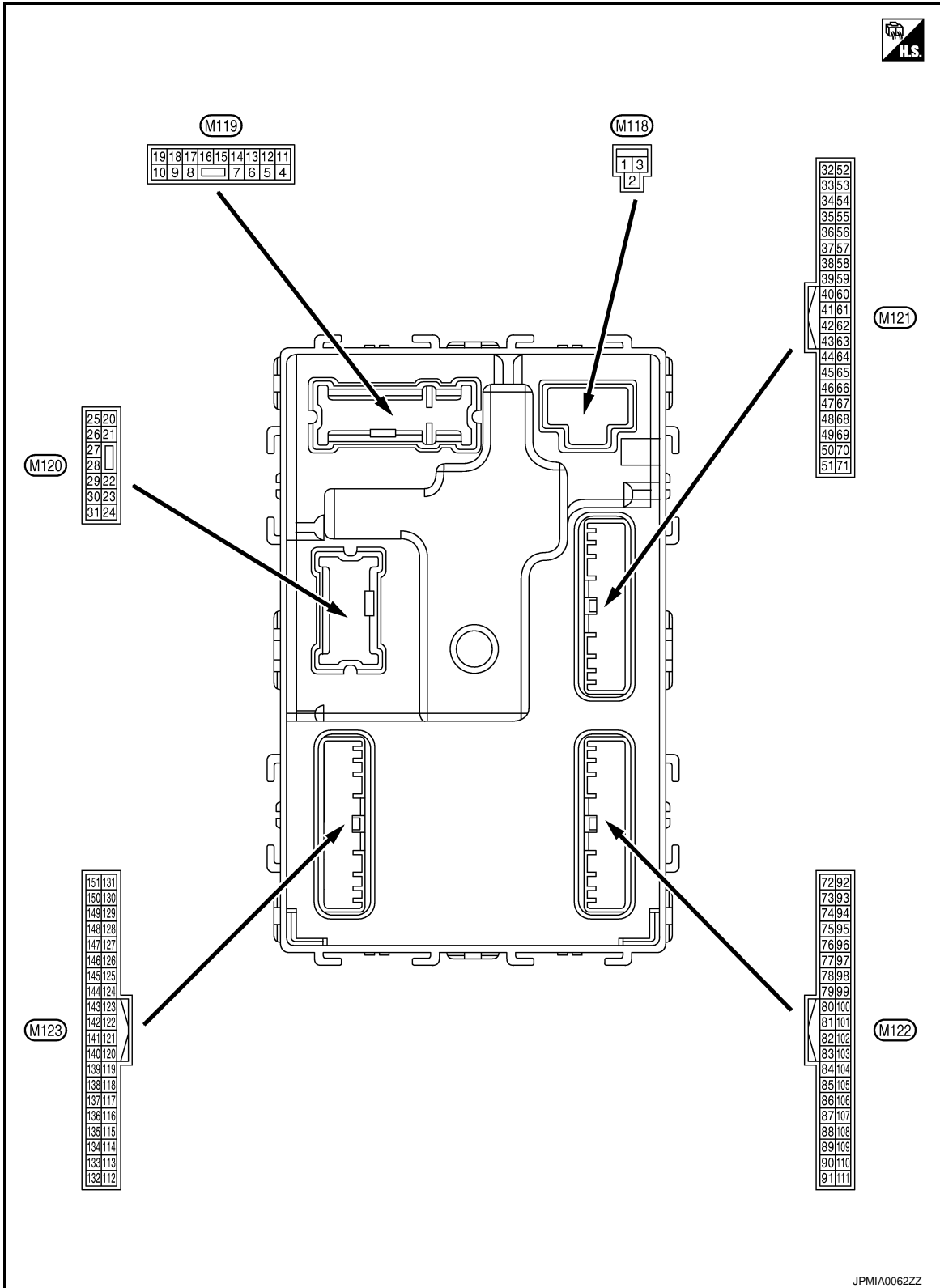
< ECU DIAGNOSIS INFORMATION >

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT

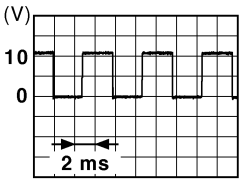


PHYSICAL VALUES

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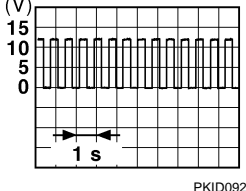
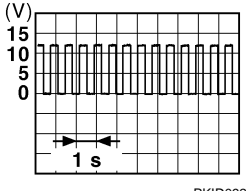
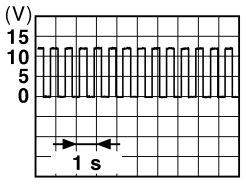
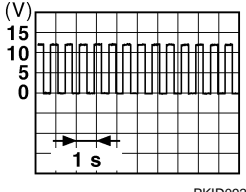
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (W)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4 (R)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0 V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
5 (G)	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 control signal	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (P)	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 (LOCK indicator is not illuminated)	Battery voltage
					ACC or ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

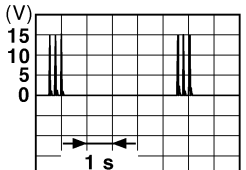
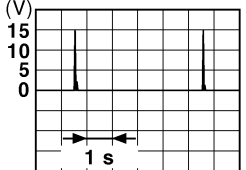
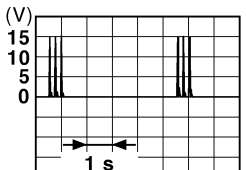
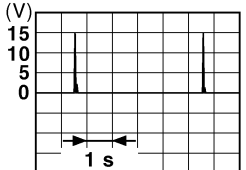
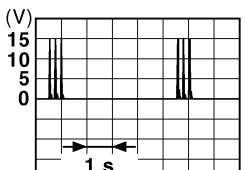
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF 0 V
				Turn signal switch RH	 6.5 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF 0 V
				Turn signal switch LH	 6.5 V
19 (V)	Ground	Interior room lamp control signal	Output	Interior room lamp	OFF Battery voltage
				ON	0 V
20 (SB)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF 0 V
				Turn signal switch RH	 6.5 V
23 (G)	Ground	Trunk lid open	Output	Trunk lid	Open (Trunk lid opener ac- tuator is activated) Battery voltage
				Close (Trunk lid opener ac- tuator is not activated)	0 V
25 (V)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF 0 V
				Turn signal switch LH	 6.5 V
30 (BG)	Ground	Trunk room lamp control signal	Output	Trunk room lamp	ON 0 V
				OFF	Battery voltage

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (P)	Ground	Trunk room antenna (-)	Output		
				When Intelligent Key is not in the passenger compart- ment	<div style="display: flex; flex-direction: column; align-items: center;">  <p style="font-size: small; margin-top: 5px;">JMKIA0063GB</p> </div>
35 (L)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	<div style="display: flex; flex-direction: column; align-items: center;">  <p style="font-size: small; margin-top: 5px;">JMKIA0062GB</p> </div>
				When Intelligent Key is not in the passenger compart- ment	<div style="display: flex; flex-direction: column; align-items: center;">  <p style="font-size: small; margin-top: 5px;">JMKIA0063GB</p> </div>
38 (R)	Ground	Rear bumper anten- na (-)	Output	When the trunk lid opener re- quest switch is operated with ig- nition switch OFF	<div style="display: flex; flex-direction: column; align-items: center;">  <p style="font-size: small; margin-top: 5px;">JMKIA0062GB</p> </div>
				When Intelligent Key is not in the antenna detection area	<div style="display: flex; flex-direction: column; align-items: center;">  <p style="font-size: small; margin-top: 5px;">JMKIA0063GB</p> </div>

BCM (BODY CONTROL MODULE)

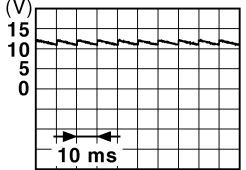
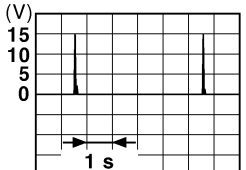
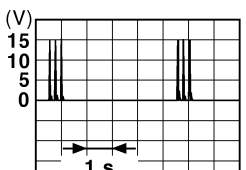
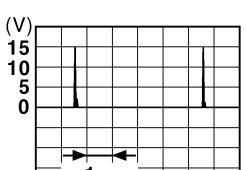
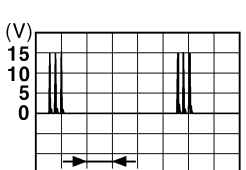
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
39 (BR)	Ground	Rear bumper antenna (+)	Output	When the trunk lid opener request switch is operated with ignition switch OFF	
				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
50 (R)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	 11.8 V
				ON (Trunk is open)	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON	Battery voltage
				When shift lever is not in P or N position	0 V
61 (W)	Ground	Trunk lid opener request switch	Input	ON (Pressed)	0 V
				OFF (Not pressed)	 1.0 V
64 (BG)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding 0 V Not sounding Battery voltage

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
67 (G)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	0 V
				Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	11.8 V
				When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	11.8 V
				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	11.8 V
				When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	11.8 V
				When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
74 (SB)	Ground	Passenger door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p>JMKIA0062GB</p>
				When the passenger door request switch is operated with ignition switch OFF	<p>JMKIA0063GB</p>
75 (BR)	Ground	Passenger door antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p>JMKIA0062GB</p>
				When the passenger door request switch is operated with ignition switch OFF	<p>JMKIA0063GB</p>
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p>JMKIA0062GB</p>
				When the driver door request switch is operated with ignition switch OFF	<p>JMKIA0063GB</p>

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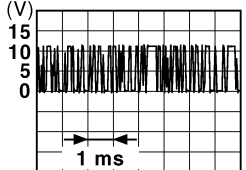
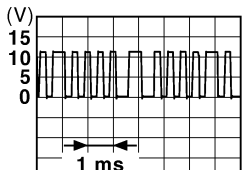


BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition 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>
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

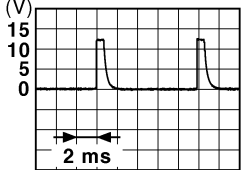
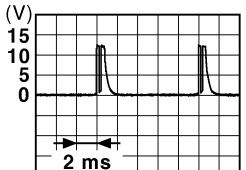

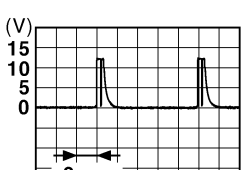
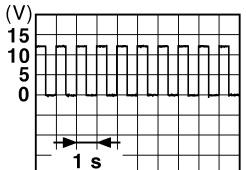
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (L)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
83 (Y)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 <p style="text-align: right; font-size: small;">JMKIA0064GB</p>
				When operating either button on Intelligent Key		 <p style="text-align: right; font-size: small;">JMKIA0065GB</p>
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Any of the conditions below with all switches OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p style="text-align: right; font-size: small;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>

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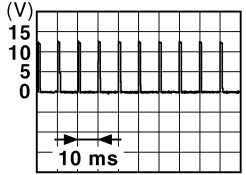
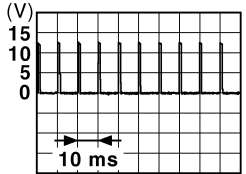
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches 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>
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 	 <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	—	—	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	Battery voltage
					Blinking	 <p style="text-align: right; font-size: small;">JPMIA0015GB</p> <p style="text-align: center;">6.5 V</p>
					ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

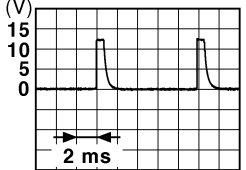

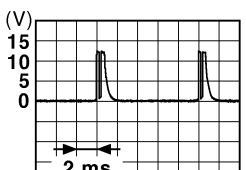
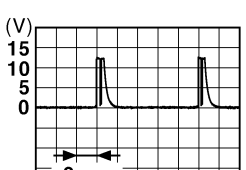
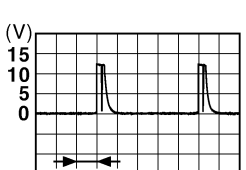
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON or ACC	0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (SB)	Ground	A/T shift selector (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 (R)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (G)	Ground	Shift lever P position switch	Input	Shift lever	P position	0 V
					Any position other than P	Battery voltage
100 (W)	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>
101 (V)	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>
102 (BG)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
106 (P)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V

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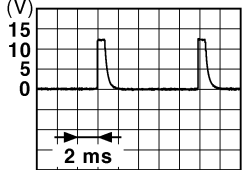
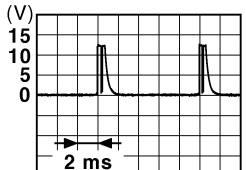
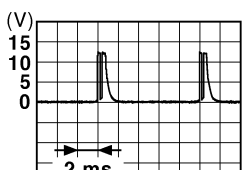
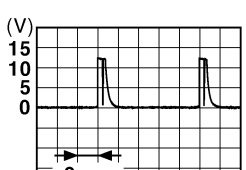
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 <p style="text-align: right;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Turn signal switch LH	 <p style="text-align: right;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Turn signal switch RH	 <p style="text-align: right;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: right;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: right;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

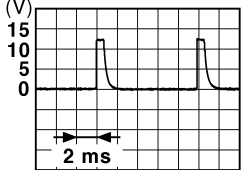

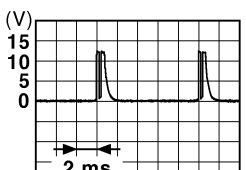
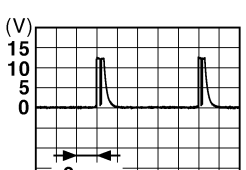
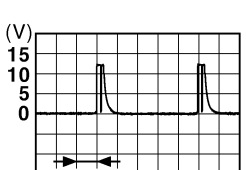
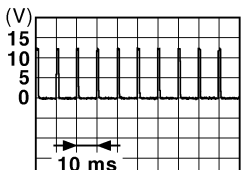
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p>1.4 V</p> </div>
					Lighting switch AUTO (Wiper intermittent dial 4) <div style="text-align: right;">  <p>1.3 V</p> </div>
					Lighting switch 1ST (Wiper intermittent dial 4) <div style="text-align: right;">  <p>1.3 V</p> </div>
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 <div style="text-align: right;">  <p>1.3 V</p> </div>

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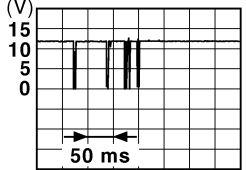

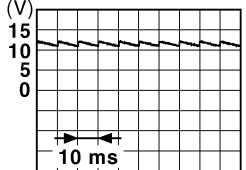
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	 <p style="text-align: right;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: right;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND	 <p style="text-align: right;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch INT	 <p style="text-align: right;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch HI	 <p style="text-align: right;">JPMIA0040GB</p> <p style="text-align: center;">1.3 V</p>
					Pressed	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	Not pressed	 <p style="text-align: right;">JPMIA0012GB</p> <p style="text-align: center;">1.1 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

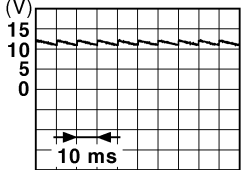
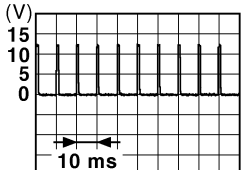
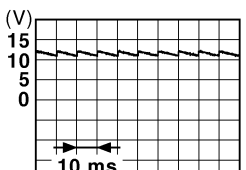
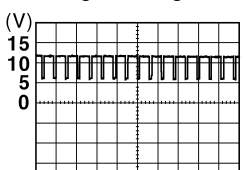
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	 <p style="text-align: right; font-size: small;">JMKIA0066GB</p>
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113 (P)	Ground	Optical sensor	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	Stop lamp switch 1	Input	—	Battery voltage	
118 (P)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
119 (SB)	Ground	Driver side door lock actuator (Unlock sen- sor)	Input	Driver door	LOCK status (Unlock sen- sor switch OFF)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					UNLOCK status (Unlock sensor switch ON)	0 V
					11.8 V	
121 (R)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot	Battery voltage	
				When Intelligent Key is not inserted into key slot	0 V	
123 (BR)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
				ON	Battery voltage	
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>
					ON (When passenger door opens)	0 V
					11.8 V	

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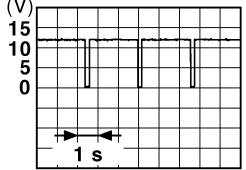
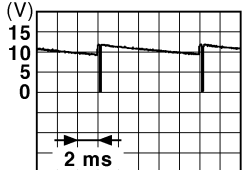

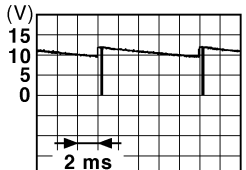
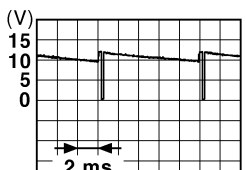
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
128 (P)	Ground	Door lock and unlock switch LOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position  11.8 V
				LOCK position	0 V
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL  1.1 V
				ON	0 V
131 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and un- lock switch (pow- er window main switch or power window sub- switch)	NEUTRAL position  11.8 V
				LOCK position	0 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumina- tion	ON (When tail lamps OFF) 5.5 V
				ON (When tail lamps ON)  NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.	
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON 0 V
				OFF Battery voltage	
137 (L)	Ground	Receiver and sensor ground	Input	Ignition switch ON	0 V
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF 0 V
				ACC or ON 5.0 V	
140 (BR)	Ground	Shift lever P/N posi- tion	Input	Shift lever	P or N position 12 V
				Except P and N positions 0 V	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

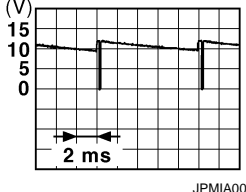
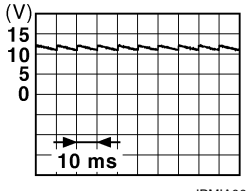
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V
				Blinking	 <p style="text-align: right; font-size: small;">JPMA0014GB</p>	11.3 V
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	OFF	Battery voltage
				Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMA0031GB</p>	10.7 V
				Lighting switch HI		
				Lighting switch 2ND		
				Turn signal switch RH		
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
				 <p style="text-align: right; font-size: small;">JPMA0032GB</p>	10.7 V	
						Front wiper switch HI (Wiper intermittent dial 4)
						Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
				 <p style="text-align: right; font-size: small;">JPMA0033GB</p>	10.7 V	
						Front washer switch ON (Wiper intermittent dial 4)
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
				 <p style="text-align: right; font-size: small;">JPMA0034GB</p>	10.7 V	
						Front wiper switch INT
						Lighting switch AUTO

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

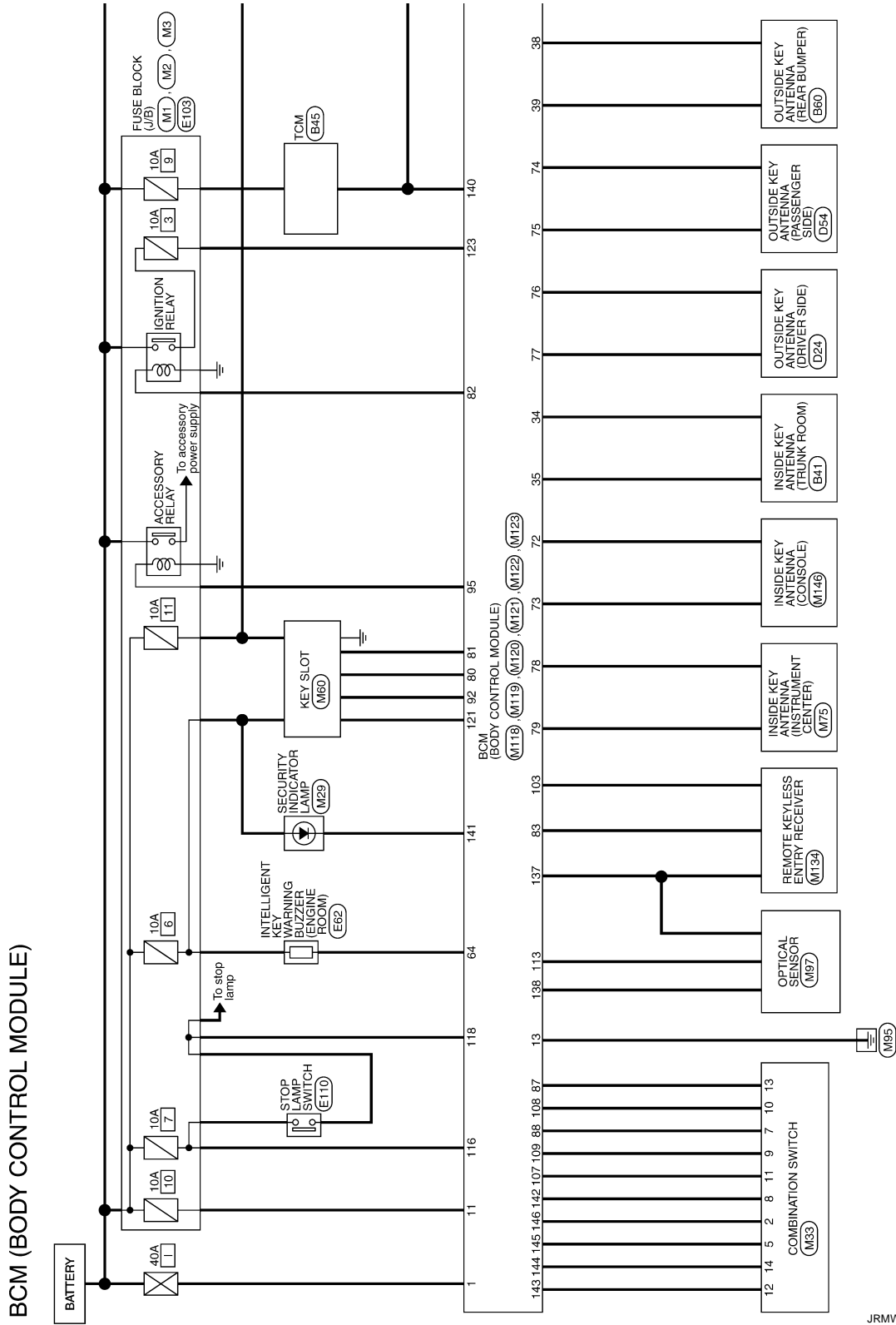
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
146 (SB)	Ground	Combination switch OUTPUT 4	Output	All switches OFF	0 V
				Lighting switch 2ND	
				Lighting switch PASS	
				Turn signal switch LH	
150 (GR)	Ground	Driver door switch	Input	OFF (When driver door closes)	
				ON (When driver door opens)	0 V
151 (G)	Ground	Rear window defogger relay control	Output	Active	0 V
				Not activated	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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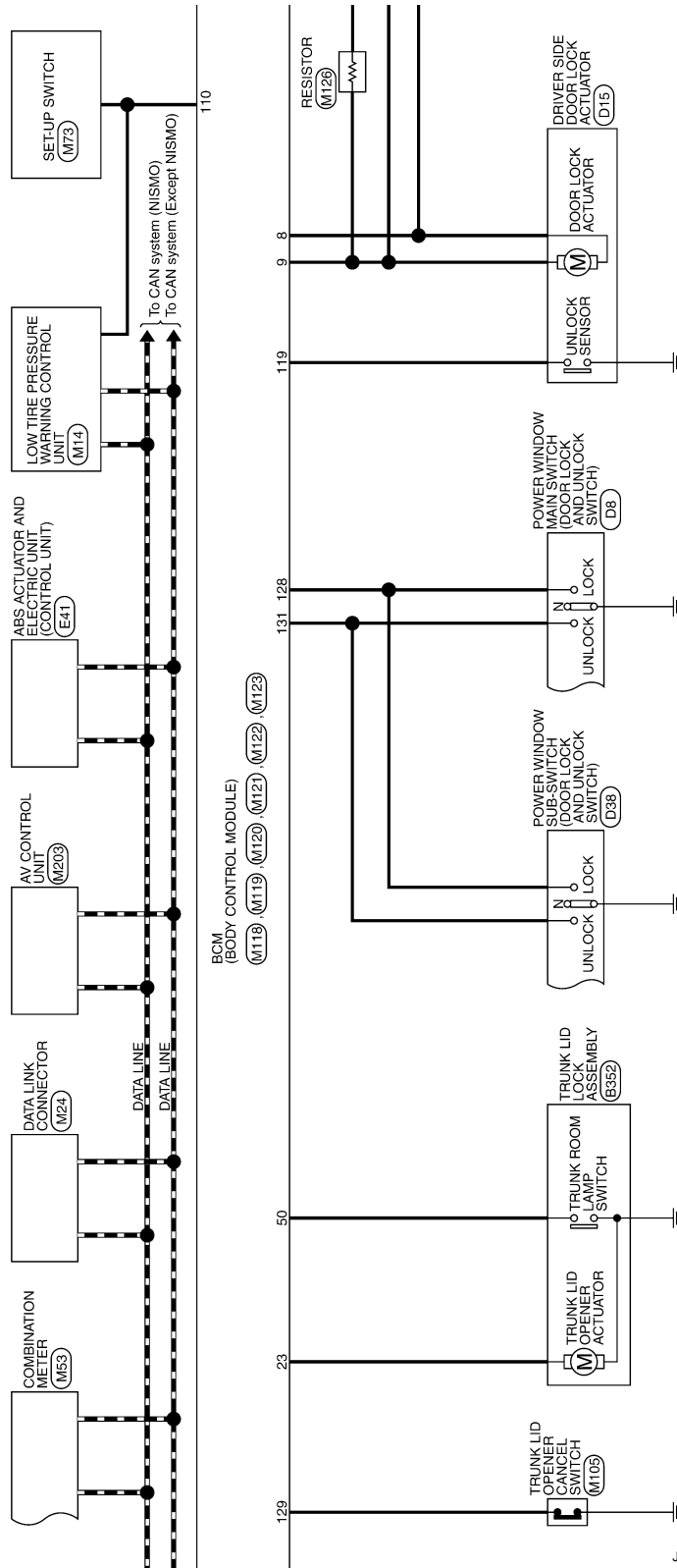
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

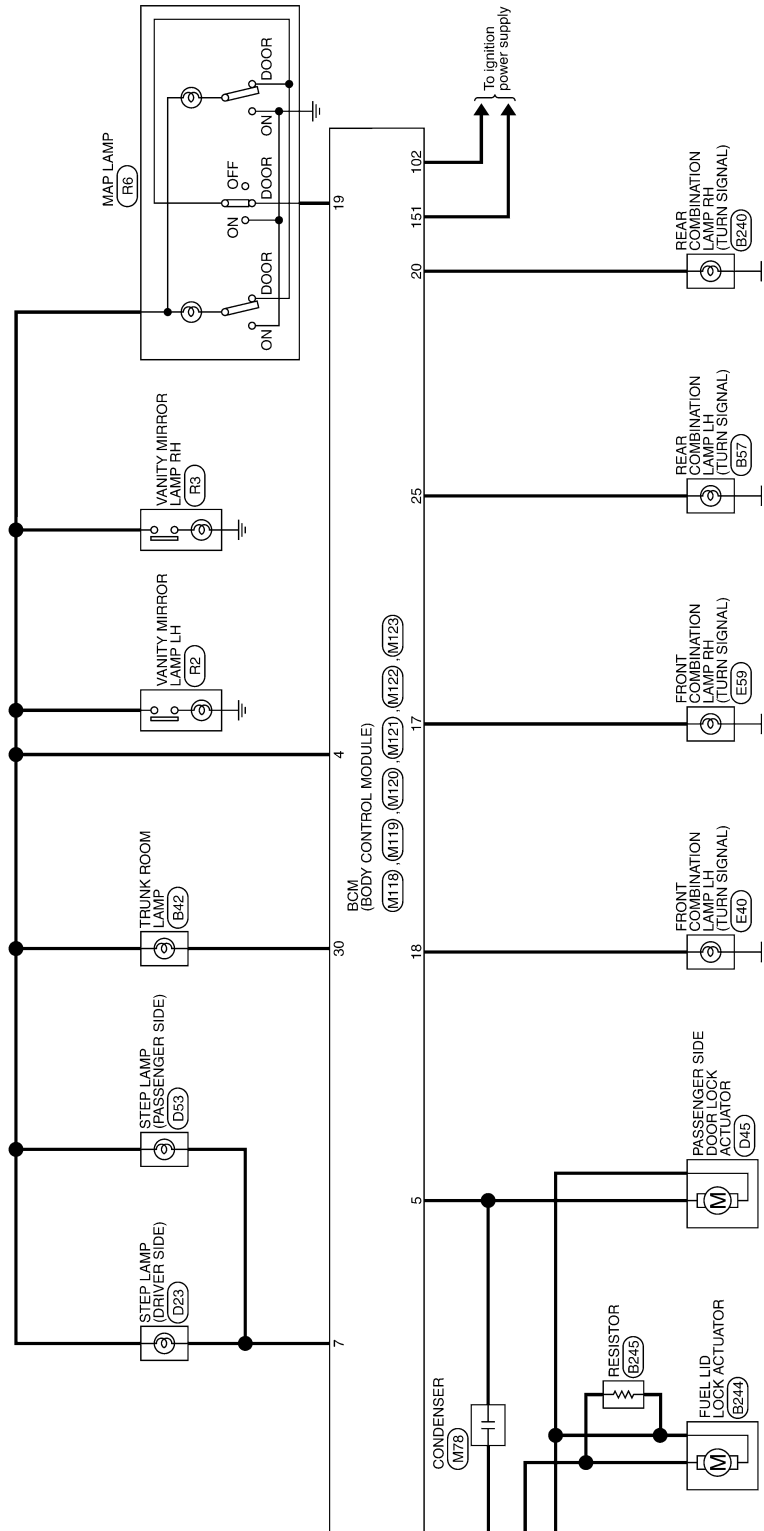


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



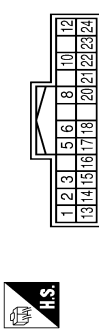
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

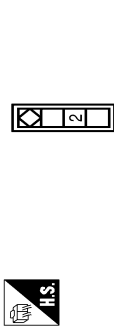
BCM (BODY CONTROL MODULE)

Connector No.	B20
Connector Name	A/T SHIFT SELECTOR
Connector Type	1H24FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	GR	B	BCM VCC IN
2	EG	B	KEY LOCK (P)
3	B	B	GROUND
5	G	B	RANGE SENSOR No. 1 SIGNAL
6	B	B	GROUND
8	V	B	RANGE SENSOR No. 2 SIGNAL
10	G	B	RANGE SENSOR No. 3 SIGNAL
12	GR	B	RANGE SENSOR No. 5 SIGNAL
13	Y	B	VIGN
14	W	B	SHIFT LOCK SOLENOID CONTROL SIGNAL
15	LG	B	RANGE SENSOR POWER SOURCE 2
16	L	B	RANGE SENSOR POWER SOURCE 1
17	R	B	ILLUMINATION
18	B	B	GROUND
20	BR	B	AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL
21	P	B	RANGE SENSOR No. 4 SIGNAL
22	BR	B	ILLUMINATION GND
23	R	B	RANGE SENSOR No. 2 SIGNAL
24	V	B	AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL

Connector No.	B21
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



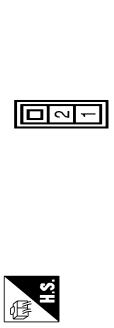
Terminal No.	Color	Wire	Signal Name [Specification]
2	LG	B	-

Connector No.	B41
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Type	PK02FGY



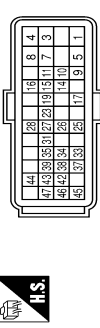
Terminal No.	Color	Wire	Signal Name [Specification]
1	L	P	-
2	P	P	-

Connector No.	B42
Connector Name	TRUNK ROOM LAMP
Connector Type	S02FW



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

Connector No.	B45
Connector Name	TCM
Connector Type	RH40FB-R28-L-LHZ



Terminal No.	Color	Wire	Signal Name [Specification]
1	W	B	POWER SUPPLY (MEMORY BACK-UP)-2
3	B	B	GROUND
4	B	B	GROUND
5	W	B	POWER SUPPLY (MEMORY BACK-UP)-3
7	B	B	GROUND
8	B	B	GROUND
9	P	B	POWER SUPPLY (MEMORY BACK-UP)-1
10	LG	B	BACK-UP LAMP SIGNAL
11	L	B	CANH
14	V	B	POWER OFF
15	P	B	CANL
18	W	B	STOP LAMP SWITCH SIGNAL
17	Y	B	IGNITION SWITCH SIGNAL
19	GR	B	STARTER RELAY SIGNAL
23	BR	B	AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL
25	L	B	RANGE SENSOR POWER SOURCE 1
26	LG	B	RANGE SENSOR POWER SOURCE 2

27	G	B	RANGE SENSOR No. 1 SIGNAL
28	V	B	AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL
31	SB	B	ENGINE SPEED SIGNAL
33	V	B	RANGE SENSOR No. 1 SIGNAL
34	EG	B	SAVE MODE SWITCH SIGNAL
35	G	B	RANGE SENSOR No. 3 SIGNAL
37	GR	B	RANGE SWITCH SIGNAL
38	R	B	RANGE SENSOR No. 2 SIGNAL
39	W	B	PADDLE SHIFTER (SHIFT UP) SWITCH SIGNAL
42	L	B	RANGE SENSOR No. 4 SIGNAL
43	P	B	PADDLE SHIFTER (SHIFT DOWN) SWITCH SIGNAL
44	GR	B	RANGE SENSOR No. 5 SIGNAL
45	EG	B	R MODE LAMP SIGNAL
46	W	B	SHIFT LOCK SOLENOID CONTROL SIGNAL
47	G	B	SAVE MODE LAMP SIGNAL

Connector No.	B57
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS56MW-CS



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

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)		
Connector No.	Terminal No.	Wire
B60	1	W
B60	2	B
B60	3	R
B60	4	Y
B60	5	R
B60	6	BG
B60	7	O
B60	8	B
B60	9	G
B60	10	L
B60	11	BR
B60	12	LG
B60	13	V
B60	14	-
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B60	410	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	D10
Connector Name	DRIVER SIDE POWER WINDOW MOTOR
Connector Type	NJ08FDGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	L	-
6	GR	-
7	R	-
8	B	-

Connector No.	D13
Connector Name	OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	FK02MGY



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

Connector No.	D15
Connector Name	DRIVER SIDE DOOR LOCK ACTUATOR
Connector Type	FSM4FGY-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	G	-
4	B	-

Connector No.	D23
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	G02FW



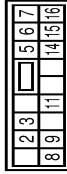
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-

Connector No.	D24
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type	FK02MGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	V	-

Connector No.	D38
Connector Name	POWER WINDOW SUB-SWITCH
Connector Type	NS16FW-LS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	V	-
5	SB	-
6	O	-
7	LG	-
8	B	-
9	BR	-
11	W	-
14	R	-
15	G	-
16	L	-

Connector No.	D40
Connector Name	PASSENGER SIDE POWER WINDOW MOTOR
Connector Type	NJ08FDGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	L	-
6	LG	-
7	R	-
8	B	-

Connector No.	D43
Connector Name	OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	FK02MGY



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

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	D45
Connector Name	PASSENGER SIDE DOOR LOCK ACTUATOR
Connector Type	RSM4FGY-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
3	G	-

Connector No.	D55
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	C2ZFW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-

Connector No.	D54
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RKQ2MGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	V	-

Connector No.	E5
Connector Name	FROM ECU INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	THE2FW-DS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
6	Y	-
7	R	-
10	W	-
11	SB	-
12	B/W	-
13	R	-
16	LG	-
25	BG	-
27	Y	-
28	G	-
30	GR	-
32	P	-
33	P	-
36	LG	-

Connector No.	E6
Connector Name	FROM ECU INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH88FW-NH



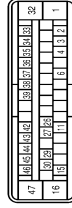
Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B/Y	-
42	G	-
43	SB	-
44	W	-
46	BG	-

Connector No.	E40
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS88FB-FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	-
2	B/G	-
3	Y	-
4	B/P	-
5	P	-
6	G	-
7	BG	-
8	R	-

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC LAMP CONTROL UNIT
Connector Type	AEZ43FB-AJZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	LBMR
2	V	DIAG-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC UP SW
11	Y	CAN-H
15	P	CAN-L
16	B	GROUND
26	W	CAN-L
27	BR	G SENSOR GROUND
29	BG	UZ
30	L	CANH
32	BG	UBVR
33	W	DS FR
34	BG	DP FR
35	Y	VDC TOP POSITION LED
36	L	DP RL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	E59
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-FR



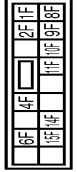
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	R	-
4	BO	-
5	R	-
6	V	-
7	BR	-
8	BG	-

Connector No.	E62
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	FK03FBR-DGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	GR	-

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10F	GR	-
11F	Y	-
14F	LG	-
15F	P	-
2F	W	-
4F	W	-
6F	BG	-
8F	L	-
9F	R	-

Connector No.	E110
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



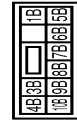
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-

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



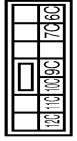
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
10B	Y	-
1B	R	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	R	-
8B	R	-
9B	SB	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	W	-
9C	R	-
7C	B	-
8C	BR	-

Connector No.	M14
Connector Name	LOW THE PRESSURE WARNING CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CANL
2	L	CANH
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	W	FL TUNER (SIG)
7	SB	RR TUNER (PWR)
8	GR	RL TUNER (PWR)
9	R	FR TUNER (PWR)
10	LG	FL TUNER (PWR)
12	W	SW SIG
15	G	IGN
19	R	RR TUNER (PSS)
20	BG	RL TUNER (PSS)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

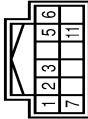
BCM (BODY CONTROL MODULE)

Connector No.	M59
Connector Name	DIODE
Connector Type	24335_C9800



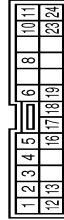
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	P	-

Connector No.	M60
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	BAT
2	GR	CLOCK
3	L	DATA
5	Y	ILL BATT
6	LG	ILL
7	B	GND
11	R	KEY SWITCH SIGNAL

Connector No.	M73
Connector Name	SET-UP SWITCH
Connector Type	TK24FW-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	VDC TOP POSITION LED
2	R	ILL
3	W	VDC TOP POSITION LED
4	V	VDC GND
5	L	VDC UP SW
6	P	E-SUS R MODE SW SIG
8	LG	E-SUS COMF MODE LAMP SIG
10	G	SAVE MODE LAMP SIGNAL
11	W	R MODE SWITCH SIGNAL
12	GR	VDC DN SW
13	G	HAZARD SW
16	R	R MODE LAMP SIGNAL
17	B	SW GND
18	G	IGN
19	BG	E-SUS R MODE LAMP SIG
23	BR	SAVE MODE SWITCH SIGNAL
24	R	E-SUS COMF MODE SW SIG

Connector No.	M75
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	Y	-

Connector No.	M78
Connector Name	CONDENSER
Connector Type	M02FW-LC



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

Connector No.	M97
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	P	OUTPUT
3	V	GROUND

Connector No.	M105
Connector Name	TRUNK LID OPENER CANCEL SWITCH
Connector Type	S02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (FL)
2	R	POWER WINDOW POWER SUPPLY(BAT)
3	W	POWER WINDOW POWER SUPPLY(BRAP)

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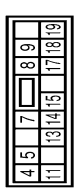
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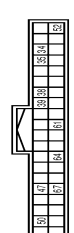
BCM (BODY CONTROL MODULE)

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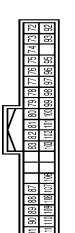
BCM (BODY CONTROL MODULE)		
Connector No.	M119	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	NS16FW-CS	
Terminal No.	Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
6	Y	STEP LAMP
7	V	ALL DOOR FUEL LID LOCK OUTPUT
8	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
14	P	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT) OUTPUT
18	EG	TURN SIGNAL LH (FRONT) OUTPUT
19	V	ROOM LAMP TIMER CONTROL



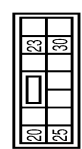
BCM (BODY CONTROL MODULE)		
Connector No.	M121	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH40FGY-NH	
Terminal No.	Wire	Signal Name [Specification]
34	P	TRUNK ROOM ANT-
35	L	TRUNK ROOM ANT+
38	R	REAR BUMPER ANT-
39	ER	REAR BUMPER ANT+
47	Y	IGN RELAY (DRM EGR) CONT
50	R	TRUNK ROOM LAMP SW
52	SB	STARTER RELAY CONT
61	W	TRUNK LID REQUEST SW
64	EG	IMKEY WARN BUZZER (ENG ROOM)
67	G	TRUNK LID OPENER SW




BCM (BODY CONTROL MODULE)		
Connector No.	M122	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH40FB-NH	
Terminal No.	Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	IMMOBI ANTENNA CONTROL
81	L	IMMOBI ANTENNA SIGNAL




BCM (BODY CONTROL MODULE)		
Connector No.	M120	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	NS12FW-CS	
Terminal No.	Wire	Signal Name [Specification]
20	SB	TURN SIGNAL RH (REAR) OUTPUT
23	G	TRUNK LID OPEN OUTPUT
25	V	TURN SIGNAL LH (REAR) OUTPUT
30	EG	TRUNK ROOM LAMP OUTPUT




BCM (BODY CONTROL MODULE)		
Connector No.	M123	
Connector Name	BOM (BODY CONTROL MODULE)	
Connector Type	TH40FG-NH	
Terminal No.	Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	BR	IGN E/FB
124	LG	PASSENGER DOORS SW
126	B	DOOR LOCK UNLOCK SW LOCK
129	EG	TRUNK GANSEL SW
131	BR	DOOR LOCK UNLOCK SW UNLOCK



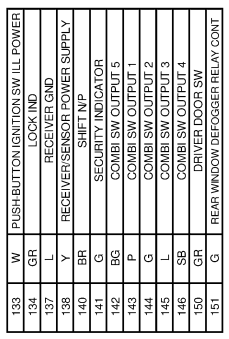
BCM (BODY CONTROL MODULE)		
Connector No.	M126	
Connector Name	RESISTOR	
Connector Type	M04FL-R	
Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	L	-



BCM (BODY CONTROL MODULE)		
Connector No.	M131	
Connector Name	PUSH-BUTTON IGNITION SWITCH	
Connector Type	TK08FB-R	
Terminal No.	Wire	Signal Name [Specification]
1	B	-
2	P	-
3	W	-








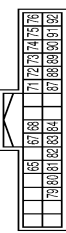






BCM (BODY CONTROL MODULE)		
Connector No.	M132	
Connector Name	REAR WINDOW DEFOGGER RELAY CONT	
Connector Type	-	
Terminal No.	Wire	Signal Name [Specification]
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	REVERSE SENSOR POWER SUPPLY
140	BR	SHIFT NP
141	G	SECURITY INDICATOR
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT



JRMWG7999GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Connector No.	IS	Connector Name	Signal Name	Terminal No.	Color	Wire	Signal Name [Specification]
4	BR	-	-	-	-	-	-
5	GR	-	-	-	-	-	-
6	Y	-	-	-	-	-	-
7	V	-	-	-	-	-	-
8	G	-	-	-	-	-	-
BCM (BODY CONTROL MODULE)							
Connector No.	M134	Connector Name	REMOTE KEYLESS ENTRY RECEIVER				
Connector Type	JAB04FB						
							
Terminal No.	1	Color	L	Wire	GND	Signal Name	[Specification]
2	Y	Color	L	Wire	SIGNAL OUTPUT	Signal Name	[Specification]
4	LG	Color	L	Wire	BATTERY	Signal Name	[Specification]
Connector No.	M146	Connector Name	INSIDE KEY ANTENNA (CONSOLE)				
Connector Type	RK02FGY						
							
Terminal No.	1	Color	L	Wire	G	Signal Name	[Specification]
2	R	Color	L	Wire	-	Signal Name	[Specification]
BCM (BODY CONTROL MODULE)							
Connector No.	M203	Connector Name	AV CONTROL UNIT				
Connector Type	TH02FM-NH						
							
Terminal No.	65	Color	R	Wire	PARKING BRAKE	Signal Name	[Specification]
67	W	Color	R	Wire	COMPOSITE IMAGE GND	Signal Name	[Specification]
68	R	Color	R	Wire	COMPOSITE IMAGE SIGNAL	Signal Name	[Specification]
71	SHIELD	Color	R	Wire	MICROPHONE GND	Signal Name	[Specification]
72	L	Color	R	Wire	MICROPHONE VCC	Signal Name	[Specification]
73	V	Color	R	Wire	COMM (CONT-DISP)	Signal Name	[Specification]
74	P	Color	R	Wire	CAN-L	Signal Name	[Specification]
75	R	Color	R	Wire	AV COMM (L)	Signal Name	[Specification]
76	R	Color	R	Wire	AV COMM (L)	Signal Name	[Specification]
79	R	Color	R	Wire	ILLUMINATION	Signal Name	[Specification]
80	W	Color	R	Wire	IGNITION	Signal Name	[Specification]
81	BG	Color	R	Wire	REVERSE	Signal Name	[Specification]
82	V	Color	R	Wire	VEHICLE SPEED (8-PULSE)	Signal Name	[Specification]
83	SHIELD	Color	R	Wire	SHIELD	Signal Name	[Specification]
84	B	Color	R	Wire	COMPOSITE SYNCHRONIZING SIGNAL	Signal Name	[Specification]
87	P	Color	R	Wire	MICROPHONE SIGNAL	Signal Name	[Specification]
88	SHIELD	Color	R	Wire	SHIELD	Signal Name	[Specification]
89	SB	Color	R	Wire	COMM (DISP-CONT)	Signal Name	[Specification]
90	L	Color	R	Wire	CAN-H	Signal Name	[Specification]
91	G	Color	R	Wire	AV COMM (H)	Signal Name	[Specification]
92	G	Color	R	Wire	AV COMM (H)	Signal Name	[Specification]
Connector No.	R2	Connector Name	VANITY MIRROR LAMP LH				
Connector Type	MCA02FW						
							
Terminal No.	1	Color	B	Wire	-	Signal Name	[Specification]
2	R	Color	B	Wire	-	Signal Name	[Specification]
Connector No.	R3	Connector Name	VANITY MIRROR LAMP RH				
Connector Type	MCA02FW						
							
Terminal No.	1	Color	B	Wire	-	Signal Name	[Specification]
2	R	Color	B	Wire	-	Signal Name	[Specification]
Connector No.	R6	Connector Name	MAP LAMP				
Connector Type	TK06FGY						
							
Terminal No.	1	Color	R	Wire	-	Signal Name	[Specification]
2	V	Color	R	Wire	-	Signal Name	[Specification]
3	B	Color	R	Wire	-	Signal Name	[Specification]

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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

JRMWG8000GB

INFOID:000000011813653

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Shift 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 • Shift 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 • Shift lever P position switch signal: Except P position (Battery voltage) • Shift lever P/N position signal: Except P and N positions (0 V)
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Shift 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 - Shift lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position <ul style="list-style-type: none"> - Power position: IGN - Shift 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 - Shift lever P/N position signal: P or N position (Battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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 are fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Steering lock unit status signal (CAN) is received normally • The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	<ul style="list-style-type: none"> • Inhibit engine cranking • Inhibit steering lock 	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled <ul style="list-style-type: none"> • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

DTC Inspection Priority Chart

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none"> • U1000: CAN COMM • U1010: CONTROL UNIT (CAN)
3	<ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI-SCANNING

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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/CLUTCH SW • B2605: PNP/CLUTCH 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: BCM • B2615: BCM • B2616: BCM • B2617: BCM • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • U0415: VEHICLE SPEED
5	<ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA
6	B26E7: TPMS CAN COMM

DTC Index

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NOTE:

The details of time display are as follows.

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

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [BCS-17, "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Reference page
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-36
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-37
U0415: VEHICLE SPEED	—	—	—	BCS-38
B2013: ID DISCORD BCM-S/L	×	×	—	SEC-48
B2014: CHAIN OF S/L-BCM	×	×	—	SEC-49
B2190: NATS ANTENNA AMP	×	—	—	SEC-40

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing lamp ON	Reference page	A
B2191: DIFFERENCE OF KEY	×	—	—	SEC-43	B
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-44	C
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-46	D
B2195: ANTI-SCANNING	×	—	—	SEC-47	E
B2553: IGNITION RELAY	—	×	—	PCS-50	F
B2555: STOP LAMP	—	×	—	SEC-52	G
B2556: PUSH-BTN IGN SW	—	×	×	SEC-54	H
B2557: VEHICLE SPEED	×	×	×	SEC-56	I
B2560: STARTER CONT RELAY	×	×	×	SEC-57	J
B2562: LOW VOLTAGE	—	×	—	BCS-39	K
B2601: SHIFT POSITION	×	×	×	SEC-58	L
B2602: SHIFT POSITION	×	×	×	SEC-61	M
B2603: SHIFT POSI STATUS	×	×	×	SEC-63	N
B2604: PNP/CLUTCH SW	×	×	×	SEC-65	O
B2605: PNP/CLUTCH SW	×	×	×	SEC-67	P
B2606: S/L RELAY	×	×	×	SEC-69	Q
B2607: S/L RELAY	×	×	×	SEC-70	R
B2608: STARTER RELAY	×	×	×	SEC-72	S
B2609: S/L STATUS	×	×	×	SEC-74	T
B260A: IGNITION RELAY	×	×	×	PCS-52	U
B260B: STEERING LOCK UNIT	—	×	×	SEC-78	V
B260C: STEERING LOCK UNIT	—	×	×	SEC-79	W
B260D: STEERING LOCK UNIT	—	×	×	SEC-80	X
B260F: ENG STATE SIG LOST	×	×	×	SEC-81	Y
B2612: S/L STATUS	×	×	×	SEC-84	Z
B2614: BCM	—	×	×	PCS-54	AA
B2615: BCM	—	×	×	PCS-56	AB
B2616: BCM	—	×	×	PCS-58	AC
B2617: BCM	×	×	×	SEC-88	AD
B2618: BCM	×	×	×	PCS-60	AE
B2619: BCM	×	×	×	SEC-90	AF
B261A: PUSH-BTN IGN SW	—	×	×	SEC-91	AG
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-93	AH
B2621: INSIDE ANTENNA	—	×	—	DLK-56	AI
B2622: INSIDE ANTENNA	—	×	—	DLK-58	AJ
B2623: INSIDE ANTENNA	—	×	—	DLK-60	AK
B26E7: TPMS CAN COMM	—	—	—	BCS-40	AL
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-82	AM
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-83	AN

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

COMBINATION METER

Reference Value

INFOID:0000000011813656

CONSULT DATA MONITOR REFERENCE VALUES

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Measuring condition		Standard/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading NOTE: 655.35 is displayed when the malfunction signal is received
ODO OUTPUT [km]	Ignition switch ON	—	Equivalent to odometer reading in combination meter
TACHO METER [rpm]	Ignition switch ON	While driving	Approximately the same as tachometer reading NOTE: 8191.875 is displayed when the malfunction signal is received
FUEL METER [L]	Ignition switch ON	—	Values according to fuel level
W TEMP METER [°C]	Ignition switch ON	—	Values according to engine coolant temperature NOTE: 215 is displayed when the malfunction signal is input
ABS W/L	Ignition switch ON	ABS warning lamp ON	On
		ABS warning lamp OFF	Off
VDC/TCS IND	Ignition switch ON	VDC OFF indicator lamp ON	On
		VDC OFF indicator lamp OFF	Off
SLIP IND	Ignition switch ON	VDC warning lamp ON	On
		VDC warning lamp OFF	Off
BRAKE W/L	Ignition switch ON	Brake warning lamp ON	On
		Brake warning lamp OFF	Off
DOOR W/L	Ignition switch ON	<ul style="list-style-type: none"> • Door open warning display • Trunk open warning display 	On
		<ul style="list-style-type: none"> • Door open warning is not displayed • Trunk open warning is not displayed 	Off
HI-BEAM IND	Ignition switch ON	High beam indicator lamp ON	On
		High beam indicator lamp OFF	Off
TURN IND	Ignition switch ON	Turn signal indicator lamp ON	On
		Turn signal indicator lamp OFF	Off
RR FOG IND	Ignition switch ON	This item is displayed, but cannot be monitored.	Off
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On
		Oil pressure warning lamp OFF	Off

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Monitor item	Measuring condition		Standard/Status
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On
		Tail lamp indicator lamp OFF	Off
MIL	Ignition switch ON	Malfunction indicator lamp (MIL) ON	On
		Malfunction indicator lamp (MIL) OFF	Off
CRUISE IND	Ignition switch ON	CRUISE indicator lamp ON	On
		CRUISE indicator lamp OFF	Off
SET IND	Ignition switch ON	SET indicator lamp ON	On
		SET indicator lamp OFF	Off
ATC/T-AMT W/L	Ignition switch ON	Transmission warning lamp ON	On
		Transmission warning lamp OFF	Off
4WD W/L	Ignition switch ON	AWD warning lamp ON	On
		AWD warning lamp OFF	Off
FUEL W/L	Ignition switch ON	Low fuel warning display	On
		Low fuel warning is not displayed	Off
WASHER W/L	Ignition switch ON	Low washer fluid warning display	On
		Low washer fluid warning is not displayed	Off
AIR PRES W/L	Ignition switch ON	Tire pressure warning lamp ON	On
		Tire pressure warning lamp OFF	Off
KEY G/Y W/L	Ignition switch ON	KEY warning lamp (green/yellow) ON	On
		KEY warning lamp (green/yellow) OFF	Off
LCD	Ignition switch ON	Engine start indication is displayed	B&P I
	Ignition switch ACC	Engine start indication is displayed	B&P N
	Ignition switch LOCK	Key ID NG warning is displayed	ID NG
	Ignition switch LOCK	Steering lock rotation operation signal illuminated	ROTAT
	Ignition switch LOCK	P engagement warning is displayed	SFT P
	Ignition switch LOCK	Key insertion indication is displayed	INSRT
	Ignition switch LOCK	Intelligent Key low battery notice warning is displayed	BATT
	Ignition switch ON	Key removal warning is displayed	NO KY
	Ignition switch LOCK	Key reminder warning is displayed	OUT KY
Ignition switch ON	ACC warning is displayed	LK WN	

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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Monitor item	Measuring condition		Standard/Status
SHIFT IND	Ignition switch ON	Shift position P is displayed	P
		Shift position R is displayed	R
		Shift position N is displayed	N
		Shift position A1 is displayed	A1
		Shift position A2 is displayed	A2
		Shift position A3 is displayed	A3
		Shift position A4 is displayed	A4
		Shift position A5 is displayed	A5
		Shift position A6 is displayed	A6
		Shift position M1 is displayed	M1
		Shift position M2 is displayed	M2
		Shift position M3 is displayed	M3
		Shift position M4 is displayed	M4
		Shift position M5 is displayed	M5
Shift position M6 is displayed	M6		
PKB SW	Ignition switch ON	Parking brake switch ON	On
		Parking brake switch OFF	Off
BUCKLE SW	Ignition switch ON	Seat belt not fastened	On
		Seat belt fastened	Off
BRAKE OIL SW	Ignition switch ON	Brake fluid level switch ON	On
		Brake fluid level switch OFF	Off
A/C AMP CONN	Ignition switch ON	A/C auto amp. is not connected	On
		A/C auto amp. is connected	Off
ENTER SW	Ignition switch ON	Enter switch is being pressed	On
		Enter switch is not pressed	Off
SELECT SW	Ignition switch ON	Select switch is being pressed	On
		Select switch is not pressed	Off
DISTANCE [km]	Ignition switch ON	—	Possible driving distance calculated by combination meter
OUTSIDE TEMP [°C]	Ignition switch ON	—	Equivalent to ambient air temperature NOTE: This may not match the indicated value on information display.
FUEL LOW SIG	Ignition switch ON	Low fuel warning is displayed	On
		Low fuel warning is not displayed	Off
CRANKING SIG	At engine cranking		On
	Ignition switch ON		Off
ST CNT SIG	At engine cranking		On
	Ignition switch ON		Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off
ENG OIL TMP	Ignition switch ON	—	Values according to engine oil temperature
ENG OIL PRESS	Ignition switch ON	—	Values according to engine oil pressure

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Monitor item	Measuring condition		Standard/Status
TM OIL TMP	Ignition switch ON	—	Values according to transmission oil temperature
TM OIL PRESS	Ignition switch ON	—	Values according to transmission oil pressure
A/F RATIO	Ignition switch ON	—	Values according to engine air-fuel ratio
BOOST PRESS	Ignition switch ON	—	Values according to boost pressure
THRTL POSI	Ignition switch ON	—	Values according to throttle position
TRQ DSTRBT	Ignition switch ON	—	Values according to front torque distribution rate
AMT P SFT	Ignition switch ON	Shift " P " warning display ON	On
		Shift " P " warning display OFF	Off
AMT SYS CHCK	Ignition switch ON	Transmission system check display ON	On
		Transmission system check display OFF	Off
AMT SFT POSI	Ignition switch ON	Shift lever position warning display ON	On
		Shift lever position warning display OFF	Off
AMT OIL TMP H	Ignition switch ON	Transmission oil high temperature warning display ON	On
		Transmission oil high temperature warning display OFF	Off
AMT CL TMP H	Ignition switch ON	Transmission clutch high temperature warning display ON	On
		Transmission clutch high temperature warning display OFF	Off
AMT CHCK	Ignition switch ON	It is displayed, but not used.	Off
AMT MALF	Ignition switch ON	Transmission system warning display ON	On
		Transmission system warning display OFF	Off
TPMS FLT TIRE	Ignition switch ON	Run-flat tire warning display ON	On
		Run-flat tire warning display OFF	Off
TPMS PRESS L	Ignition switch ON	Low tire pressure warning display ON	On
		Low tire pressure warning display OFF	Off
TPMS MALF	Ignition switch ON	Tire pressure monitoring system warning display ON	On
		Tire pressure monitoring system warning display OFF	Off
4WD CL TMP H	Ignition switch ON	AWD clutch high temperature warning display ON	On
		AWD clutch high temperature warning display OFF	Off
4WD TIRE CHCK	Ignition switch ON	Front/rear tire size discrepancy warning display ON	On
		Front/rear tire size discrepancy warning display OFF	Off
4WD SYS MALF	Ignition switch ON	AWD system warning display ON	On
		AWD system warning display OFF	Off

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COMBINATION METER

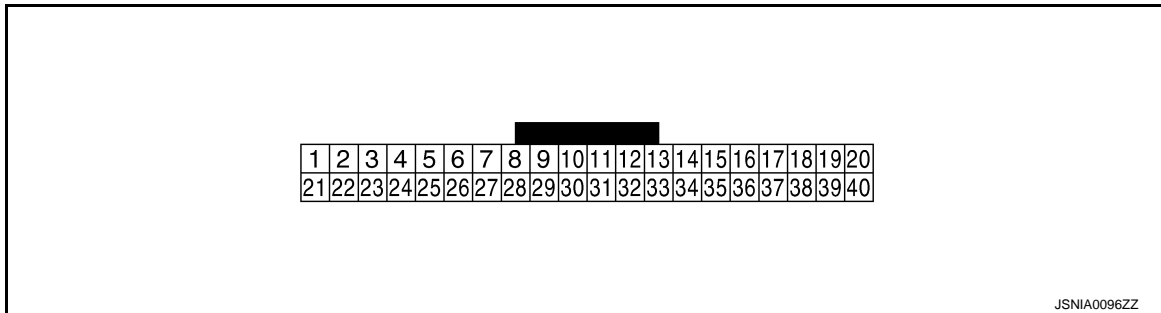
< ECU DIAGNOSIS INFORMATION >

Monitor item	Measuring condition		Standard/Status
ABS MALF	Ignition switch ON	Anti-lock braking system (ABS) warning display ON	On
		Anti-lock braking system (ABS) warning display OFF	Off
VDC MALF	Ignition switch ON	Vehicle dynamic control (VDC) system warning display ON	On
		Vehicle dynamic control (VDC) system warning display OFF	Off
ENG SYS CHCK	Ignition switch ON	Engine system warning display ON	On
		Engine system warning display OFF	Off
ASCD SYS MALF	Ignition switch ON	CRUISE control system warning display ON	On
		CRUISE control system warning display OFF	Off
ASCD REQ SPD	Ignition switch ON	While driving	Same value as ASCD set vehicle speed
ASCD STATUS	Ignition switch ON	ASCD system OFF	Off
		ASCD system ON	ASCD
ASCD SPD BLNK	Ignition switch ON	Blinking status of ASCD set vehicle speed (displayed)	On
		Blinking status of ASCD set vehicle speed (not displayed)	Off
LED LMP R OPEN	Ignition switch ON	Front combination lamp RH malfunction	On
		Front combination lamp RH normal	Off
LED LMP L OPEN	Ignition switch ON	Front combination lamp LH malfunction	On
		Front combination lamp LH normal	Off

NOTE:

Some items are not available according to vehicle specifications.

TERMINAL LAYOUT

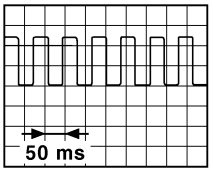
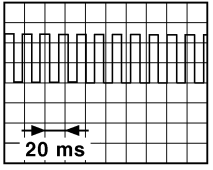


INPUT/OUTPUT SIGNAL STANDARD

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (V)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (W)	Ground	Ignition power supply	Input	Ignition switch ON	—	Battery voltage

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >



Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
3 (B)	Ground	Ground	—	Igni- tion switch ON	—	0 V
5 (B)	Ground	Ground	—	Igni- tion switch ON	—	0 V
6 (W)	Ground	Meter control switch ground	—	Igni- tion switch ON	—	0 V
7 (Y)	Ground	A/C auto amp. connection recognition signal	Input	Igni- tion switch ON	—	5 V
8 (SB)	Ground	Ambient sensor ground	—	Igni- tion switch ON	—	0 V
9 (P)	Ground	Ambient sensor	Input	Igni- tion switch ON	—	Refer to HAC-44. "Component Inspection" .
12 (L)	Ground	Vehicle speed signal (2- pulse)	Output	Igni- tion switch ON	Vehicle speed is approxi- mately 40 km/h (25 MPH)	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0015GB</p>
13 (V)	Ground	Vehicle speed signal (8- pulse)	Output	Igni- tion switch ON	Vehicle speed is approxi- mately 40 km/h (25 MPH)	<p>NOTE: The maximum voltage varies de- pending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0012GB</p>
14 (B)	Ground	Oil pressure sensor ground	—	Igni- tion switch ON	—	0 V
15 (R)	Ground	Air bag signal	Input	Igni- tion switch ON	Air bag warning lamp ON	5 V
					Air bag warning lamp OFF	0 V

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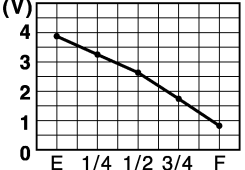
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
16 (R)	Ground	LED headlamp (RH) warning signal	Input	Ignition switch ON	Headlamp ON	1 V
					Headlamp OFF	12 V
18 (L)	Ground	Fuel level sensor signal ground	—	Ignition switch ON	—	0 V
19 (R)	Ground	Oil level sensor ground	—	Ignition switch ON	—	0 V
20 (W)	Ground	Oil level sensor signal	Input	Ignition switch ON	—	Refer to MWI-67. "Component Inspection" .
21 (L)	Ground	CAN-H	—	Ignition switch ON	—	—
22 (P)	Ground	CAN-L	—	Ignition switch ON	—	—
23 (LG)	6 (W)	Illumination control switch signal (-)	Input	Ignition switch ON	When  - switch is pressed	0 V
					Other than the above	5 V
24 (BR)	6 (W)	Illumination control switch signal (+)	Input	Ignition switch ON	When  + switch is pressed	0 V
					Other than the above	5 V
25 (G)	6 (W)	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
26 (BG)	6 (W)	Enter switch signal	Input	Ignition switch ON	When enter switch is pressed	0 V
					Other than the above	5 V
27 (SB)	6 (W)	Select switch signal	Input	Ignition switch ON	When select switch is pressed	0 V
					Other than the above	5 V
28 (BR)	Ground	Alternator signal	Input	Ignition switch ON	Charging warning lamp ON	0 V
					Charging warning lamp OFF	12 V

COMBINATION METER

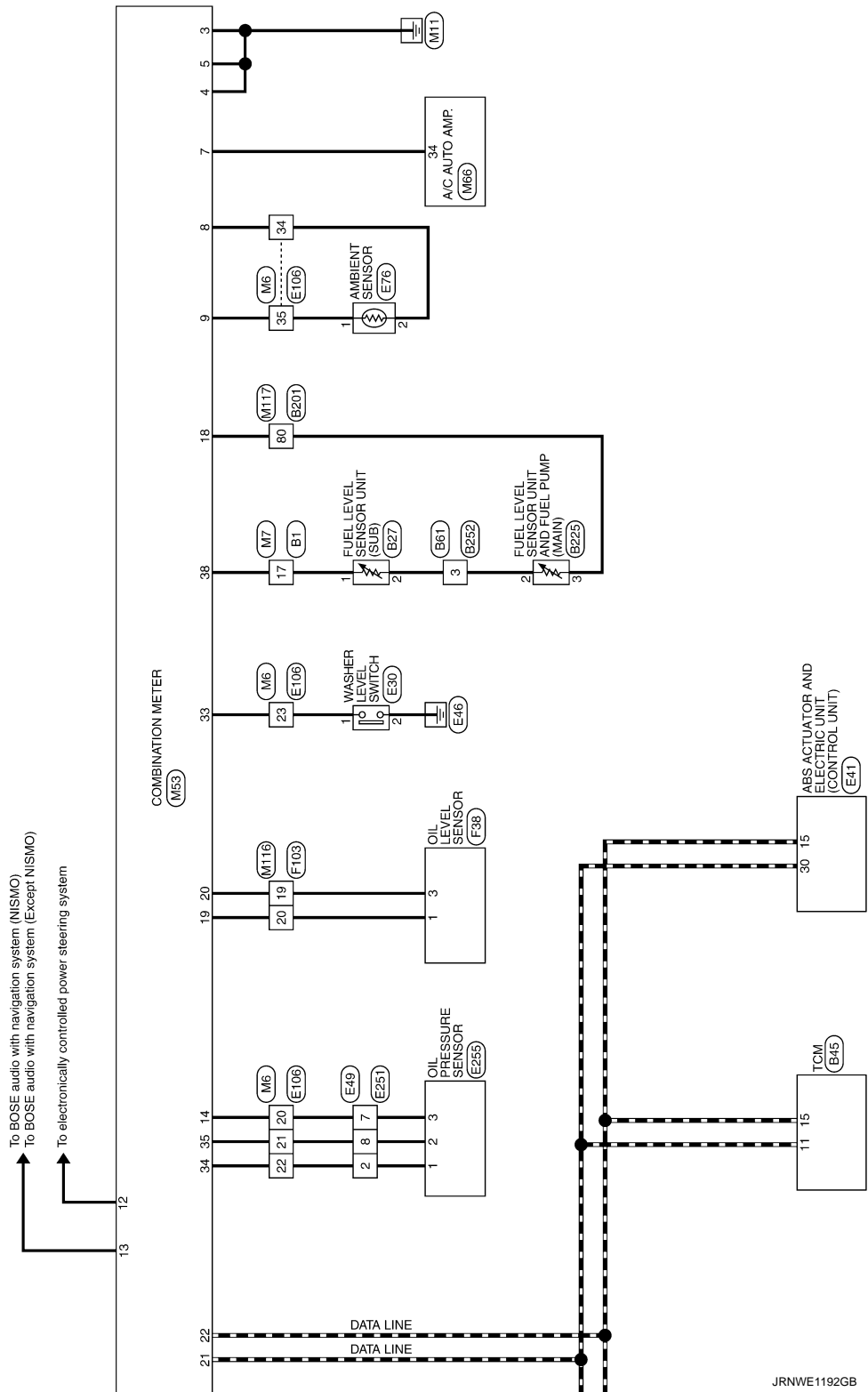
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
29 (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
30 (LG)	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
31 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake applied	0 V
					Parking brake released	5 V
32 (V)	Ground	Brake fluid level switch signal	Input	Ignition switch ON	Brake fluid level is normal	0 V
					Brake fluid level is MIN level or less	5 V
33 (L)	Ground	Washer level switch signal	Input	Ignition switch ON	Low washer fluid warning display ON	0 V
					Low washer fluid warning display OFF	5 V
34 (GR)	Ground	Oil pressure sensor power	Output	Ignition switch ON	—	5 V
35 (W)	Ground	Oil pressure sensor signal	Input	Ignition switch ON	—	Refer to MWI-74, "Component Inspection" .
38 (BG)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">NNNIA0108ZZ</p>
39 (Y)	Ground	LED headlamp (LH) warning signal	Input	Ignition switch ON	Headlamp ON	1 V
					Headlamp OFF	12 V

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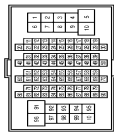
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

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Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	V	-
7	W	-
8	W	-
9	Y	-
10	R	-
11	Y	-
12	GR	-
13	BG	-
14	Y	-
15	BR	-
16	R	-
17	W	-
18	BR	-
20	GR	-
21	SB	-
22	W	-
23	G	-
24	BG	-
25	L	-
26	P	-
27	GR	-
28	BG	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	G	-
40	LG	-
41	Y	-
42	SB	-
43	P	-
47	R	-
48	B	-

49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	LG	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	SB	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [Without active noise control unit]
83	Y	- [With active noise control unit]
84	SHIELD	-
85	V	-
86	SB	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	BR	-
93	SB	-
94	GR	-
95	BG	-
96	Y	-
97	Y	-
98	LG	-

99	R	-
100	G	-

Connector No.	B12
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TK03FW



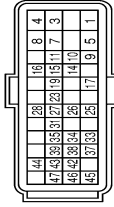
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	SB	-

Connector No.	B27
Connector Name	FUEL LEVEL SENSOR UNIT (SUB)
Connector Type	SG202FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	G	-

Connector No.	B45
Connector Name	TCM
Connector Type	RH40FB-FZ8L-LH-Z



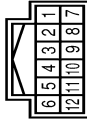
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	POWER SUPPLY (MEMORY BACK-UP) 2
3	B	GROUND
4	B	GROUND
5	W	POWER SUPPLY (MEMORY BACK-UP) 3
7	B	GROUND
8	B	GROUND
9	P	POWER SUPPLY (MEMORY BACK-UP) 1
10	LG	BACK-UP LAMP SIGNAL
11	L	CANH
14	V	POWER OFF
15	P	CANL
16	W	STOP LAMP SWITCH SIGNAL
17	Y	IGNITION SWITCH SIGNAL
19	GR	STARTER RELAY SIGNAL
23	BR	AUTO MANUAL RANGE CHANGE SWITCH 1 SIGNAL
25	L	RANGE SENSOR POWER SOURCE 1
26	LG	RANGE SENSOR POWER SOURCE 2
27	G	RANGE SENSOR NO. 1 SIGNAL
28	V	AUTO MANUAL RANGE CHANGE SWITCH 2 SIGNAL
31	SB	ENGINE SPEED SIGNAL
33	V	RANGE SENSOR NO. 1 SIGNAL
34	BG	SAVE MODE SWITCH SIGNAL
35	G	RANGE SENSOR NO. 3 SIGNAL
37	GR	R MODE SWITCH SIGNAL
38	R	RANGE SENSOR NO. 2 SIGNAL
39	W	PADDLE SHIFTER (SHIFT UP) SWITCH SIGNAL
42	L	PADDLE SHIFTER (SHIFT DOWN) SWITCH SIGNAL
43	P	RANGE SENSOR NO. 4 SIGNAL
44	GR	RANGE SENSOR NO. 5 SIGNAL
45	BG	R MODE LAMP SIGNAL
46	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
47	G	SAVE MODE LAMP SIGNAL

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

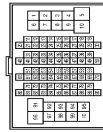
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Connector No.	B61
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	G	-
4	G	-
5	V	-
6	W	-
7	V	-
8	L	-
9	BG	-
10	GR	-
11	LG	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C216-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	BG	-
9	W	-
10	P	-
31	V	-
32	LG	-
33	BR	-
34	L	-

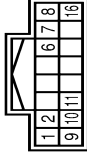
40	P	-
41	GR	-
42	Y	-
43	Y	-
44	V	-
45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
68	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	Y	-
85	BR	-
86	SHIELD	-
87	W	-
96	Y	-
98	BG	-
99	BR	-
100	W	-

Connector No.	B212
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	BG	-

Connector No.	B213
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FW-NH



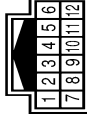
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	SOL+
2	G	SOL-
3	V	-
6	W	IGN
7	L	CANH
8	L	CANL
9	Y	SOLVB
10	B	GROUND
11	B	GROUND
16	P	CANL

Connector No.	B225
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAPR)
Connector Type	SGZ05FGY



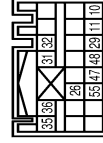
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	SB	-
3	L	-
4	BR	-
5	G	-

Connector No.	B252
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-
3	SB	-
4	G	-
5	V	-
6	W	-
7	R	-
8	G	-
9	BG	-
10	GR	-
11	LG	-
12	SHIELD	-

Connector No.	B268
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NL22FY-IV-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
10	Y	PRH(+)
11	Y	PRH(-)
26	V	ODS (INPUT)
29	BG	RHBUCKLE SW (INPUT SHH(-))
31	Y	SHH(+)
32	Y	SHH(-)
35	P	CRH(+)
36	L	CRH(-)

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47	G	SATELLITE RH(+)
48	R	SATELLITE RH(-)
55	SHIELD	GROUND

Connector No.	E30
Connector Name	WASHER LEVEL SWITCH
Connector Type	Z02FBR



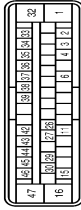
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BW	-

Connector No.	E40
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	-
2	B/G	-
3	Y	-
4	B/P	-
5	P	-
6	G	-
7	B/G	-
8	R	-

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC LAMP CONTROL UNIT
Connector Type	AEZ43FBA-JZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	UBMR
2	V	DIAG-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC UP SW
11	Y	CAN-H
15	P	CAN-L
16	B	GROUND
26	W	CAN-L
27	BR	G SENSOR GROUND
29	BG	LZ
30	L	CANH
32	BG	UBVR
33	W	DS FR
34	BG	DP FR
35	Y	VDC TOP POSITION LED
36	L	DP RL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

Connector No.	E47
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	YV02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BW	-

Connector No.	E49
Connector Name	WIRE TO WIRE
Connector Type	RH08MB



Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	-
3	BR	-
4	P	-
6	P	-
7	B	-
8	Y	-

Connector No.	E59
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-FR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B/R	-
3	R	-
4	B/O	-
5	R	-
6	V	-
7	BR	-
8	BG	-

Connector No.	E76
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	AMBIENT SENSOR SIGNAL
2	P	SENSOR GROUND

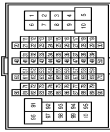
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METER

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C516-TM4



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

38	SB	-	-
39	GR	-	-
40	G	-	-
41	V	-	-
42	V	-	-
43	L	-	-
44	BR	-	-
45	G	-	-
46	SB	-	-
48	BG	-	-
49	L	-	-
50	R	-	-
51	SHIELD	-	-
60	P	-	-
61	L	-	-
71	LG	-	-
72	SB	-	-
74	P	-	-
75	BR	-	-
76	LG	-	-
77	V	-	-
78	BR	-	-
79	W	-	-
80	Y	-	-
81	GR	-	-
82	BG	-	-
84	P	-	-
85	P	-	-
86	GR	-	-
87	R	-	-
88	L	-	-
89	BG	-	-
90	G	-	-
91	GR	-	-
92	R	-	-
93	R	-	-
94	LG	-	-
95	G	-	-
96	GR	-	-
97	L	-	-
98	LG	-	-
99	BG	-	-
100	L	-	-

Connector No.	E155
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	R	-	-
2	Y	-	-
3	R	-	-
4	R	-	-

Connector No.	E254
Connector Name	ALTERNATOR
Connector Type	HS03FB



Terminal No.	Color	Wire	Signal Name [Specification]
2	BR	-	L
3	V	-	S
4	P	-	C

Connector No.	E251
Connector Name	WIRE TO WIRE
Connector Type	PH06FB



Terminal No.	Color	Wire	Signal Name [Specification]
2	GR	-	-
3	BR	-	-
4	V	-	-
6	P	-	-
7	B	-	-
8	W	-	-

Connector No.	E255
Connector Name	OIL PRESSURE SENSOR
Connector Type	PK06FB



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

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< ECU DIAGNOSIS INFORMATION >

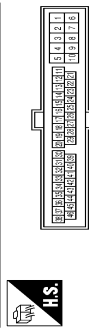
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Connector No.	F38
Connector Name	OIL LEVEL SENSOR
Connector Type	RS03FSB-GY



Terminal No.	Color	Wire	Signal Name [Specification]
1	R		OIL LEVEL SENSOR GROUND
3	GR		OIL LEVEL SENSOR SIGNAL

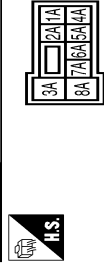
Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-NS10



Terminal No.	Color	Wire	Signal Name [Specification]
1	GR		
2	R		
3	W		
6	O		
7	B		
8	B		
9	W		
11	B		
12	LG		
13	SB		
14	LG		
15	G		
16	W		
19	GR		
20	R		
21	O		
26	L		
27	P		

Terminal No.	Color	Wire	Signal Name [Specification]
28	LG		
29	R		
30	L		
31	R		
32	W		
33	W		
34	Y		
39	Y		

Connector No.	M1
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS08FW-M2



Terminal No.	Color	Wire	Signal Name [Specification]
1A	V		
2A	G		
3A	L		
4A	LG		
5A	SB		
6A	Y		
7A	R		
8A	L		

Connector No.	M3
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS12FW-CS



Terminal No.	Color	Wire	Signal Name [Specification]
10C	L		
11C	R		
12C	W		
6C	R		
7C	B		
9C	BR		

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color	Wire	Signal Name [Specification]
1	L		
3	R		
4	G		
5	Y		
6	P		
7	W		
8	V		
9	L		
10	Y		
11	G		
12	BG		
13	R		
14	L		
15	BR		
16	R		
17	SHIELD		
18	L		
19	P		
20	B		
21	W		
22	GR		
23	L		
24	V		
25	BR		
26	G		
27	SHIELD		

Terminal No.	Color	Wire	Signal Name [Specification]
28	G		
29	R		
30	W		
31	V		
32	G		
33	GR		
34	LG		
35	P		
36	L		
37	W		
38	Y		
39	GR		
40	BG		
41	W		
42	R		
43	Y		
44	BR		
45	G		
46	LG		
48	W		
49	L		
50	R		
51	SHIELD		
60	SB		
61	V		
71	W		
72	LG		
74	R		
75	BR		
76	LG		
77	R		
78	BR		
79	W		
80	Y		
81	BG		
82	SB		
84	Y		
85	P		
86	GR		
87	R		
88	L		
89	G		
90	P		
91	W		
92	R		
93	LG		
94	W		
95	SB		
96	L		
97	L		

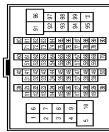
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

98	Y	-
99	BG	-
100	L	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	THR01WW-CS16-TM4

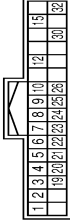


Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
5	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	-
12	SB	-
13	G	-
14	W	-
15	BR	-
16	R	-
17	BG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	-
27	W	-
28	R	-
31	GR	-
32	V	-
33	V	-
34	BG	-
39	W	-
40	BG	-
41	R	-

42	V	-
43	W	-
47	G	-
48	R	-
49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	GR	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	LG	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [Without active noise control unit]
83	Y	- [With active noise control unit]
84	SHIELD	-
85	V	-
86	LG	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	LG	-
93	Y	-
94	G	-
95	R	-

96	Y	-
97	R	-
98	G	-
99	L	-
100	W	-

Connector No.	M14
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	THS2FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CANL
2	L	CANH
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	W	FL TUNER (SIG)
7	SB	RR TUNER (PWR)
8	GR	RL TUNER (PWR)
9	R	FR TUNER (PWR)
10	LG	FL TUNER (PWR)
12	W	SW SIG
15	G	IGN
19	R	RR TUNER (RSSI)
20	BG	RL TUNER (RSSI)
21	P	FR TUNER (RSSI)
22	G	FL TUNER (RSSI)
23	GR	RR TUNER (GND)
24	V	RL TUNER (GND)
25	L	FR TUNER (GND)
26	BR	FL TUNER (GND)
30	G	FLASHER SIG
32	B	GROUND

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



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	B	-
5	B	-
6	L	-
7	V	-
8	G	-
11	G	-
14	P	-
16	Y	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	ISAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	V	AC AUTO STOP COMPASS MOTOR SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)

JRNWE1198GB

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

INL

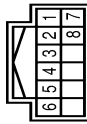
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

METER

Terminal No.	Color Of Wire	Signal Name [Specification]
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CANH
22	P	CANH
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (I)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (O)
25	G	TRIP AB RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	Y	BRAKE FLUID LEVEL SWITCH SIGNAL
33	Y	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12PW-NH



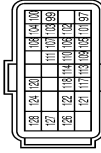
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	W	-
3	LG	-
4	R	-
5	V	-
6	BG	-
7	SB	-
8	G	-

Connector No.	M66
Connector Name	A.C. AUTO AMP.
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CANH
2	L	CANH
10	L	A.C. IAN SIGNAL
11	R	EACH DOOR MOTOR POWER SUPPLY
15	BG	SUNLOAD SENSOR SIGNAL
16	R	INTAKE SENSOR SIGNAL
17	SB	ACC POWER SUPPLY
19	B	GROUND
20	G	IGNITION POWER SUPPLY
24	BG	ECV SIGNAL
32	L	BLOWER MOTOR CONTROL SIGNAL
34	Y	A.C. AUTO AMP. CONNECTION SIGNAL
35	P	AMBIENT SENSOR SIGNAL
36	LG	IN-VEHICLE SENSOR SIGNAL
37	BG	SENSOR GROUND
39	B	GROUND
40	Y	BATTERY POWER SUPPLY

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-RLH-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
97	P	CAN COMMUNICATION LINE
99	SB	SENSOR POWER SUPPLY
100	BR	SENSOR POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
101	L	CAN COMMUNICATION LINE
102	G	ASC/D STEERING SWITCH
103	GR	SENSOR GROUND
104	P	ACCELERATOR PEDAL POSITION SENSOR 1
105	W	ECM RELAY (SELF SHUT-OFF)
106	LG	IGNITION SWITCH
107	BG	SENSOR GROUND
108	L	ACCELERATOR PEDAL POSITION SENSOR 2
109	L	SAVALVERLY
110	P	STOP LAMP SWITCH
111	GR	PNP SIGNAL
113	SB	ENGINE SPEED OUTPUT SIGNAL
114	V	DATA LINK CONNECTOR
117	R	ASC/D BRAKE SWITCH
118	W	POWER SUPPLY FOR ECM (BACK-UP)
120	BR	SAPMERLY
121	P	POWER SUPPLY FOR ECM
122	V	POWER SUPPLY FOR ECM
124	B	ECM GROUND
126	L	FUEL PUMP RELAY
127	G	THROTTLE CONTROL MOTOR RELAY
128	B	ECM GROUND

Connector No.	M116
Connector Name	WIFE TO WIRE
Connector Type	TK36MM-NS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	W	-
6	P	-
7	B	-
8	B	-
9	W	-
11	B	-
12	LG	-
13	B	-
14	BR	-
15	G	-

Terminal No.	Color Of Wire	Signal Name [Specification]
16	W	-
19	W	-
20	R	-
21	BG	-
26	L	-
27	Y	-
28	LG	-
29	BR	-
30	Y	-
31	R	-
32	LG	-
33	LG	-
34	Y	-
39	V	-

Connector No.	M117
Connector Name	WIFE TO WIRE
Connector Type	TP80MM-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	G	-
9	W	-
10	L	-
31	Y	-
32	LG	-
33	BR	-
34	L	-
40	G	-
41	R	-
42	SB	-
43	L	-
44	R	-
45	G	-
50	SB	-
52	BG	-
53	R	-
54	GR	-
60	L	-

COMBINATION METER

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Terminal No.	Color Of Wire	Signal Name [Specification]
53	Y	SIDE SENS LH2+
54	BR	SIDE SENS LH2-
59	L	CAN-H
60	P	CAN-L

61	P	-	CAN-L
62	L	-	CAN-H
63	Y	-	KEY SLOT ILL OUTPUT
64	LG	-	ON IND
69	P	-	ACC RELAY CONT
70	L	-	AT SHIFT SELECTOR POWER SUPPLY
71	Y	-	S/L CONDITION 1
80	L	-	S/L CONDITION 2
81	G	-	SHIFT P
82	BR	-	PASSENGER DOOR REQUEST SW
83	B	-	DRIVER DOOR REQUEST SW
84	V	-	BLOWER FAN MOTOR RELAY CONT
85	SB	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
86	SHIELD	-	S/L UNIT POWER SUPPLY
87	W	-	COMBI SW INPUT 1
88	Y	-	COMBI SW INPUT 4
89	G	-	COMBI SW INPUT 2
90	V	-	HAZARD SW
100	W	-	S/L UNIT COMM

90	P	-	CAN-L
91	L	-	CAN-H
92	LG	-	KEY SLOT ILL OUTPUT
93	V	-	ON IND
95	EG	-	ACC RELAY CONT
96	SB	-	AT SHIFT SELECTOR POWER SUPPLY
97	L	-	S/L CONDITION 1
98	R	-	S/L CONDITION 2
99	G	-	SHIFT P
100	W	-	PASSENGER DOOR REQUEST SW
101	V	-	DRIVER DOOR REQUEST SW
102	BG	-	BLOWER FAN MOTOR RELAY CONT
103	LG	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	P	-	S/L UNIT POWER SUPPLY
107	LG	-	COMBI SW INPUT 1
108	R	-	COMBI SW INPUT 4
109	Y	-	COMBI SW INPUT 2
110	G	-	HAZARD SW
111	Y	-	S/L UNIT COMM

112	P	-	CAN-L
113	L	-	CAN-H
114	Y	-	KEY SLOT ILL OUTPUT
115	LG	-	ON IND
116	EG	-	ACC RELAY CONT
117	L	-	AT SHIFT SELECTOR POWER SUPPLY
118	Y	-	S/L CONDITION 1
119	R	-	S/L CONDITION 2
120	G	-	SHIFT P
121	W	-	PASSENGER DOOR REQUEST SW
122	B	-	DRIVER DOOR REQUEST SW
123	V	-	BLOWER FAN MOTOR RELAY CONT
124	BG	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
125	LG	-	S/L UNIT POWER SUPPLY
126	P	-	COMBI SW INPUT 1
127	LG	-	COMBI SW INPUT 4
128	R	-	COMBI SW INPUT 2
129	Y	-	HAZARD SW
130	G	-	S/L UNIT COMM

131	P	-	CAN-L
132	L	-	CAN-H
133	Y	-	KEY SLOT ILL OUTPUT
134	LG	-	ON IND
135	EG	-	ACC RELAY CONT
136	L	-	AT SHIFT SELECTOR POWER SUPPLY
137	Y	-	S/L CONDITION 1
138	R	-	S/L CONDITION 2
139	G	-	SHIFT P
140	W	-	PASSENGER DOOR REQUEST SW
141	B	-	DRIVER DOOR REQUEST SW
142	V	-	BLOWER FAN MOTOR RELAY CONT
143	BG	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
144	LG	-	S/L UNIT POWER SUPPLY
145	P	-	COMBI SW INPUT 1
146	LG	-	COMBI SW INPUT 4
147	R	-	COMBI SW INPUT 2
148	Y	-	HAZARD SW
149	G	-	S/L UNIT COMM

150	P	-	CAN-L
151	L	-	CAN-H
152	Y	-	KEY SLOT ILL OUTPUT
153	LG	-	ON IND
154	EG	-	ACC RELAY CONT
155	L	-	AT SHIFT SELECTOR POWER SUPPLY
156	Y	-	S/L CONDITION 1
157	R	-	S/L CONDITION 2
158	G	-	SHIFT P
159	W	-	PASSENGER DOOR REQUEST SW
160	B	-	DRIVER DOOR REQUEST SW
161	V	-	BLOWER FAN MOTOR RELAY CONT
162	BG	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
163	LG	-	S/L UNIT POWER SUPPLY
164	P	-	COMBI SW INPUT 1
165	LG	-	COMBI SW INPUT 4
166	R	-	COMBI SW INPUT 2
167	Y	-	HAZARD SW
168	G	-	S/L UNIT COMM

169	P	-	CAN-L
170	L	-	CAN-H
171	Y	-	KEY SLOT ILL OUTPUT
172	LG	-	ON IND
173	EG	-	ACC RELAY CONT
174	L	-	AT SHIFT SELECTOR POWER SUPPLY
175	Y	-	S/L CONDITION 1
176	R	-	S/L CONDITION 2
177	G	-	SHIFT P
178	W	-	PASSENGER DOOR REQUEST SW
179	B	-	DRIVER DOOR REQUEST SW
180	V	-	BLOWER FAN MOTOR RELAY CONT
181	BG	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
182	LG	-	S/L UNIT POWER SUPPLY
183	P	-	COMBI SW INPUT 1
184	LG	-	COMBI SW INPUT 4
185	R	-	COMBI SW INPUT 2
186	Y	-	HAZARD SW
187	G	-	S/L UNIT COMM

188	P	-	CAN-L
189	L	-	CAN-H
190	Y	-	KEY SLOT ILL OUTPUT
191	LG	-	ON IND
192	EG	-	ACC RELAY CONT
193	L	-	AT SHIFT SELECTOR POWER SUPPLY
194	Y	-	S/L CONDITION 1
195	R	-	S/L CONDITION 2
196	G	-	SHIFT P
197	W	-	PASSENGER DOOR REQUEST SW
198	B	-	DRIVER DOOR REQUEST SW
199	V	-	BLOWER FAN MOTOR RELAY CONT
200	BG	-	KEYLESS ENTRY RECEIVER POWER SUPPLY
201	LG	-	S/L UNIT POWER SUPPLY
202	P	-	COMBI SW INPUT 1
203	LG	-	COMBI SW INPUT 4
204	R	-	COMBI SW INPUT 2
205	Y	-	HAZARD SW
206	G	-	S/L UNIT COMM

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
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1	R	IGN
2	B	GROUND
3	Y	DR1 (-) DR2 (-)
4	Y	DR1 (+)
5	Y	DR2 (+)
6	Y	AS2 (+)
7	Y	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	SB	EC2S (+)
19	V	EC2S (-)
22	SHIELD	GROUND
23	R	AIR BAG W/L
24	G	SEAT BELT
25	R	CUTOFF TAILALE
51	R	SIDE SENS RH2+
52	G	SIDE SENS RH2-

1	R	IGN
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COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

System	Processing	
Speedometer	Returns to zero when communication is blocked.	
Tachometer		
Engine coolant temperature gauge		
Meter illumination control	Shifts to night mode when communication is blocked.	
Shift position indicator	Turned OFF when communication is blocked.	
Information display	Door open warning	Indication is turned OFF when communication is blocked.
	Trunk open warning	
	Parking brake release warning	
	Shift " P " warning	
	Transmission system check	
	Shift lever position warning	
	Transmission clutch high temperature warning	
	Transmission oil high temperature warning	
	Transmission system warning	
	Run-flat tire warning	
	Low tire pressure warning	
	Tire pressure monitoring system warning	
	AWD clutch high temperature warning	
	Front/rear tire size discrepancy warning	
	AWD system warning	
	Anti-lock braking system (ABS) warning	
	Vehicle dynamic control (VDC) system warning	
	Engine system warning	
	CRUISE control system warning	
	CRUISE control system status	
Reverse warning		
Vehicle speed display	0 km/h (0 MPH) is indicated when communication is blocked.	
Possible driving distance	Displays the last calculation result calculated under a normal status when communication is blocked.	
Average fuel consumption		
Instantaneous fuel consumption		
Average vehicle speed		
Warning buzzer	Warning is turned OFF when communication is blocked.	

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

	System	Processing	
Warning lamp/indicator lamp	ABS warning lamp	Turned ON when communication is broken.	A
	VDC warning lamp		B
	Brake warning lamp		C
	AWD warning lamp		D
	Malfunction indicator lamp (MIL)		E
	Tire pressure warning lamp	Blinks first, then illuminates after approximately 1 minute.	F
	High beam indicator lamp	Turned OFF when communication is broken.	G
	Turn signal indicator lamp		H
	Tail lamp indicator lamp		I
	CRUISE indicator lamp		J
	SET indicator lamp		K
	KEY warning lamp		L
	Up-shift indicator (green)		M
	Up-shift indicator (yellow)		N
	Up-shift indicator (red)		O
	Transmission check warning lamp		P
VDC OFF indicator lamp			

DTC Index

INFOID:0000000011813659

NOTE:

Details of time display

- CRNT: Displays during the current malfunctioning detection.
- PAST: Displays if any previous malfunction is present when the current status is normal.

IGN counter

- The IGN counter is displayed in the freeze frame data (FFD).
- The IGN counter indicates the number of times ignition switch is turned ON after the DTC detection.
- When a trouble is currently being detected, it displays "0".
- After the status returns to normal, the indication value is incremented as "1 → 2 → 3 → ... 38 → 39" every time the ignition switch is turned OFF → ON.
- When the operation count of ignition switch OFF → ON exceeds 39, the indication will be fixed at "39" until the self-diagnosis is deleted.

Display contents of CONSULT	Diagnostic item is detected if ...	Refer to
CAN COMM CIRCUIT [U1000]	Combination meter cannot communicate CAN communication signal for 2 seconds or more	MWI-61. "Diagnosis Procedure"
CONTROL UNIT (CAN) [U1010]	Malfunction is detected during initial diagnosis of combination meter CAN controller	MWI-62. "Diagnosis Procedure"
VEHICLE SPEED [B2205]	Abnormal vehicle speed signal is received from ABS actuator and electric unit (control unit) for 2 seconds or more	MWI-63. "Diagnosis Procedure"
ENGINE SPEED [B2267]	ECM continuously transmits abnormal engine speed signal for 2 seconds or more	MWI-64. "Diagnosis Procedure"

COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Diagnostic item is detected if ...	Refer to
WATER TEMP [B2268]	ECM continuously transmits abnormal coolant temperature signal for 60 seconds or more	MWI-65. "Diagnosis Procedure"
OIL LEV SEN OPEN [B2321]	Signal from oil level sensor is open (resistance value of oil level sensor is larger than 20 Ω).	MWI-66. "Diagnosis Procedure"
OIL LEV SEN SHORT [B2322]	Signal from oil level sensor is shorted (resistance value of oil level sensor is smaller than 3 Ω).	MWI-66. "Diagnosis Procedure"

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000011487406

CAUTION:

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

Symptom	Possible cause	Inspection item
All the following lamps are not turned ON. <ul style="list-style-type: none"> • Map lamp • Trunk 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-23 .
<ul style="list-style-type: none"> • Interior room lamps are not turned ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamps are not turned 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 . Interior room lamp control circuit Refer to INL-25 .
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-17 .
Step lamps (driver side and passenger side) are not turned ON. (The map lamp is turned ON.)	<ul style="list-style-type: none"> • Harness between BCM and each step lamp • BCM 	Step lamp circuit Refer to INL-27 .
Step lamps (driver side and passenger side) are not turned OFF. (The map lamp is turned OFF.)		
<ul style="list-style-type: none"> • Trunk room lamp is not turned ON. (The bulb is normal.) • Trunk room lamp is not turned OFF. 	<ul style="list-style-type: none"> • Harness between BCM and trunk room lamp switch • Harness between BCM and trunk room lamp • BCM 	Trunk room lamp switch circuit Refer to DLK-85 . Trunk room lamp circuit Refer to INL-29 .
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-31 .
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to INL-18 .

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011487407

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

INFOID:000000011487408

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precautions for Removing Battery Terminal

INFOID:000000011487409

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

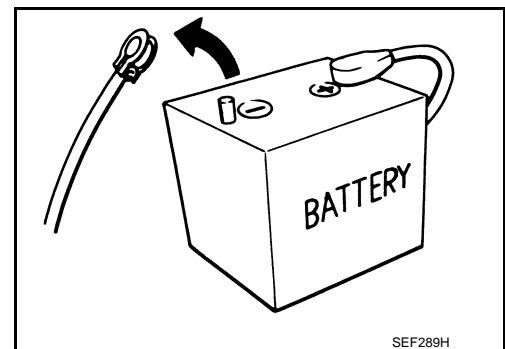
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



MAP LAMP

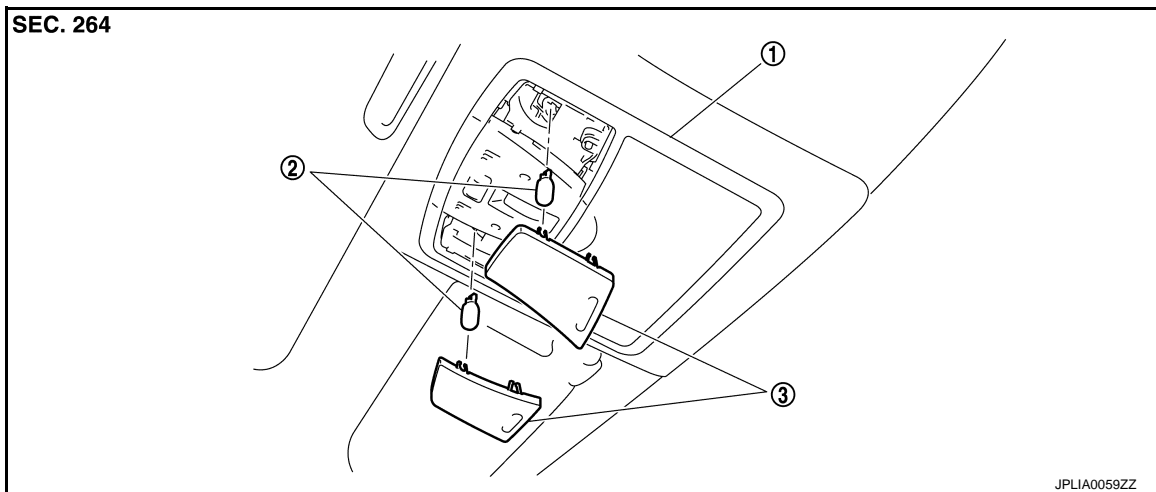
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:000000011487410



1. Map lamp assembly

2. Bulb

3. Lens

Removal and Installation

INFOID:000000011487411

Refer to [INT-24. "Exploded View"](#) for the map lamp assembly installation/removal.

Replacement

INFOID:000000011487412

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.

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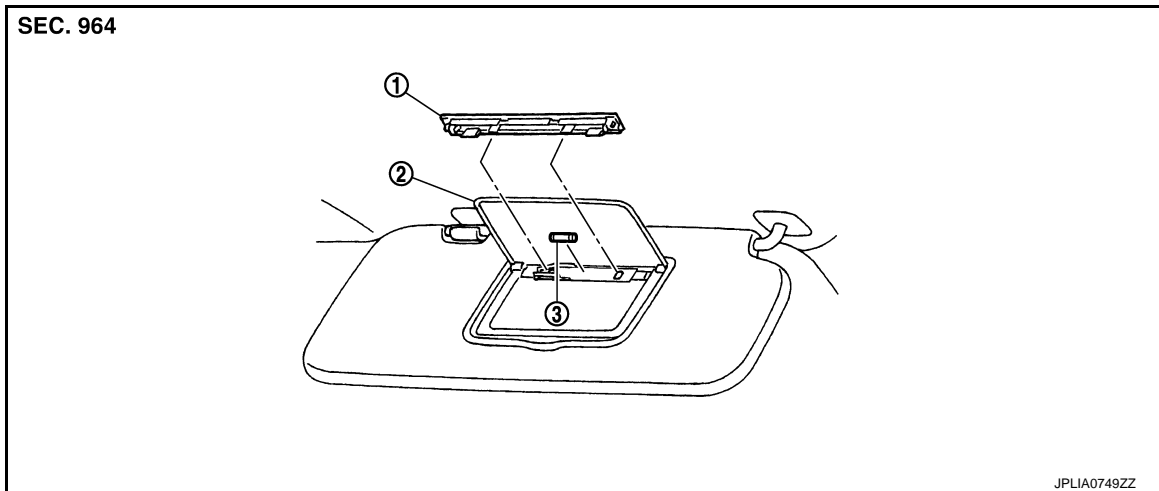
VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Exploded View

INFOID:000000011487413



1. Lens

2. Vanity mirror assembly

3. Bulb

Replacement

INFOID:000000011487414

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

VANITY MIRROR LAMP BULB

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

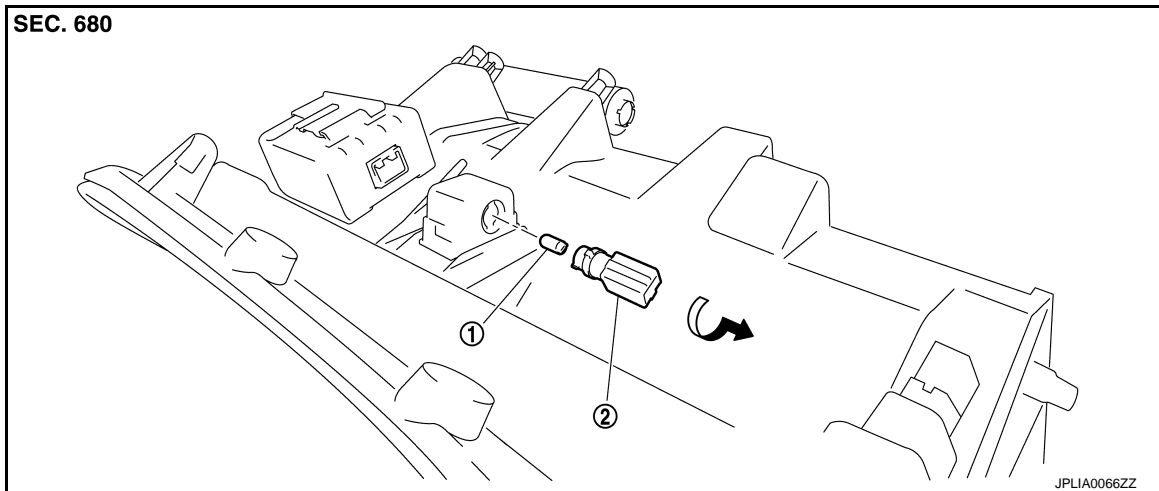
GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View

INFOID:000000011487415



1. Bulb

2. Bulb socket

Replacement

INFOID:000000011487416

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

GLOVE BOX LAMP BULB

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

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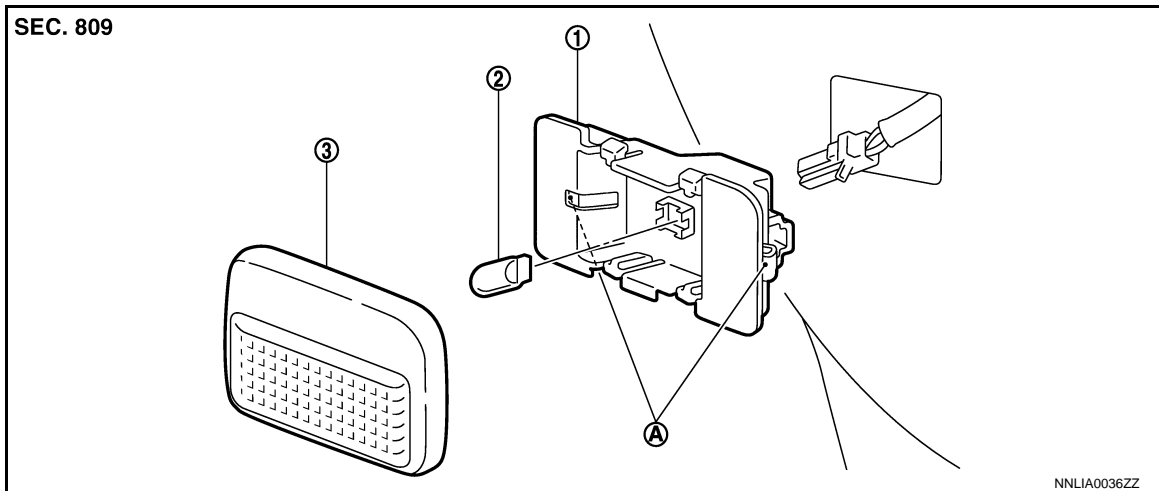
STEP LAMP

< REMOVAL AND INSTALLATION >

STEP LAMP

Exploded View

INFOID:000000011487417



1. Step lamp case
 2. Bulb
 3. Lens
- A Metal clip

Removal and Installation

INFOID:000000011487418

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000011487419

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.

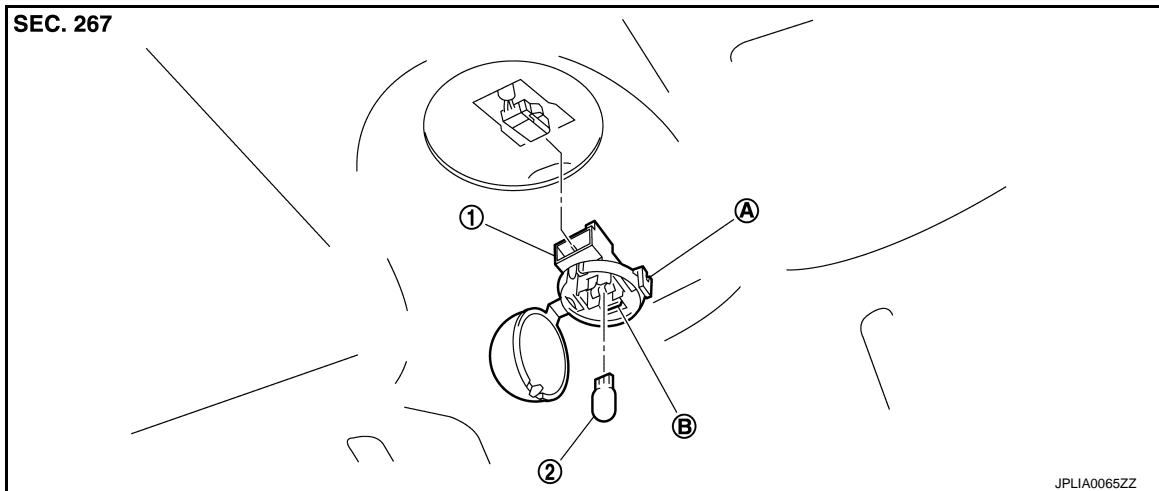
TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

TRUNK ROOM LAMP

Exploded View

INFOID:000000011487420



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

Removal and Installation

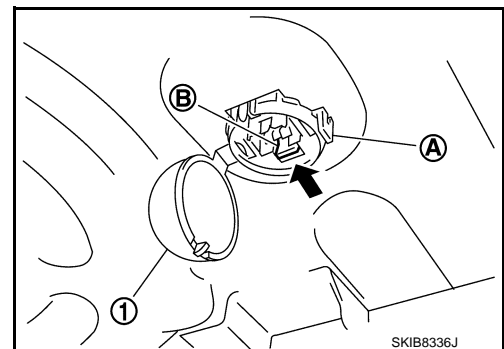
INFOID:000000011487421

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

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



INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000011487422

CAUTION:

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

TRUNK ROOM LAMP BULB

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

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:000000011487423

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	Wedge	8
Vanity mirror lamp	—	1.8
Glove box lamp	—	1.4
Step lamp	Wedge	2.7
Trunk room lamp	Wedge	3.4