

SECTION **DEF**
DEFOGGER

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

CONTENTS

BASIC INSPECTION	3	Diagnosis Procedure	17
DIAGNOSIS AND REPAIR WORK FLOW	3	DRIVER SIDE DOOR MIRROR DEFOGGER ...	18
Work Flow	3	Component Function Check	18
SYSTEM DESCRIPTION	4	Diagnosis Procedure	18
REAR WINDOW DEFOGGER SYSTEM	4	PASSENGER SIDE DOOR MIRROR DEFOGGER	20
System Diagram	4	Component Function Check	20
System Description	4	Diagnosis Procedure	20
Component Parts Location	5	REAR WINDOW DEFOGGER SYSTEM	22
Component Description	5	Wiring Diagram - DEFOGGER SYSTEM -	22
DIAGNOSIS SYSTEM (BCM)	7	ECU DIAGNOSIS INFORMATION	28
COMMON ITEM	7	BCM (BODY CONTROL MODULE)	28
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	7	Reference Value	28
REAR WINDOW DEFOGGER	8	Wiring Diagram - BCM -	51
REAR WINDOW DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)	8	Fail-safe	63
DTC/CIRCUIT DIAGNOSIS	10	DTC Inspection Priority Chart	65
POWER SUPPLY AND GROUND CIRCUIT	10	DTC Index	66
Diagnosis Procedure	10	SYMPTOM DIAGNOSIS	68
REAR WINDOW DEFOGGER SWITCH	11	REAR WINDOW DEFOGGER DOES NOT OPERATE	68
Component Function Check	11	Diagnosis Procedure	68
Diagnosis Procedure	11	REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OPERATE ...	69
REAR WINDOW DEFOGGER RELAY	12	Diagnosis Procedure	69
Component Function Check	12	REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR MIRROR DEFOGGERS OPERATE	70
Diagnosis Procedure	12	Diagnosis Procedure	70
Component Inspection	13	DOOR MIRROR DEFOGGER DOES NOT OPERATE	71
REAR WINDOW DEFOGGER	14	BOTH SIDES	71
Component Function Check	14	BOTH SIDES : Diagnosis Procedure	71
Diagnosis Procedure	14		
DOOR MIRROR DEFOGGER	17		
Component Function Check	17		

DRIVER SIDE	71	PRECAUTIONS	74
DRIVER SIDE : Diagnosis Procedure	71	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	74
PASSENGER SIDE	71	Precautions for Removing Battery Terminal	74
PASSENGER SIDE : Diagnosis Procedure	71	Precautions Necessary for Steering Wheel Rotation After Battery Disconnection	74
ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT IS OPERATED	72	Precaution for Battery Service	75
Diagnosis Procedure	72	REMOVAL AND INSTALLATION	76
REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE	73	FILAMENT	76
Diagnosis Procedure	73	Inspection and Repair	76
PRECAUTION	74	CONDENSER	78
		Exploded View	78
		Removal and Installation	78

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000011488431

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in.

>> GO TO 2.

2.CHECK DTC

Perform self diagnosis with CONSULT

Is any DTC detected?

YES >> Refer to [BCS-84. "DTC Index"](#).

NO >> GO TO 3.

3.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.
Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 5.

5.IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3.

Are all malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 4.

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G
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DEF
M
N
O
P

REAR WINDOW DEFOGGER SYSTEM

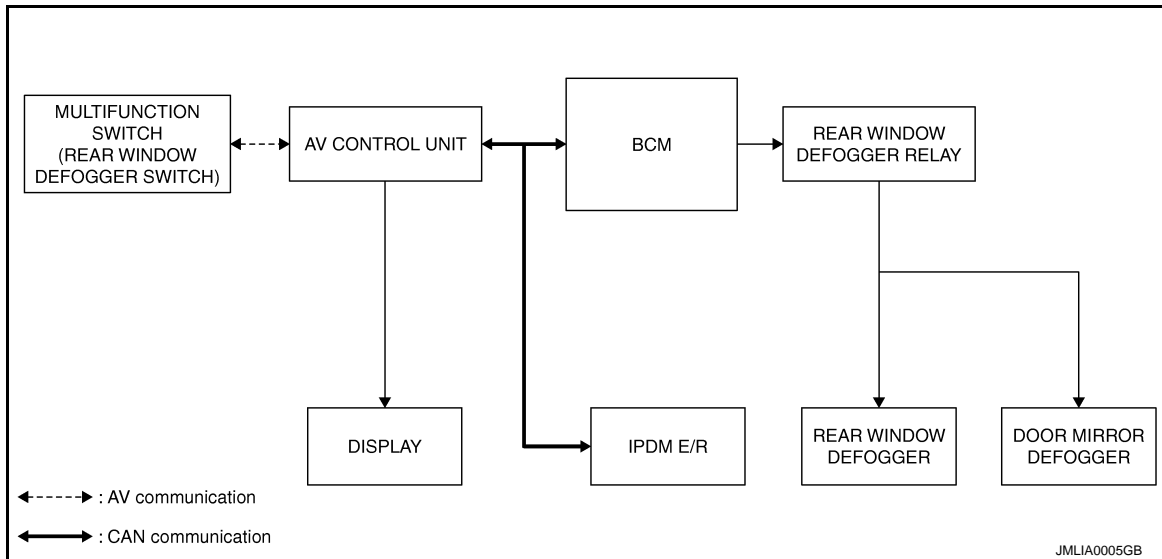
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

REAR WINDOW DEFOGGER SYSTEM

System Diagram

INFOID:000000011488432



System Description

INFOID:000000011488433

Operation Description

- Turn rear window defogger switch ON while the ignition switch is turned ON. Then multifunction switch (rear window defogger switch) transmits rear window defogger switch signal to AV control unit via AV communication. AV control unit transmits rear window defogger switch signal to BCM via CAN communication.
- BCM turns rear window defogger relay ON and transmits rear window defogger control signal to IPDM E/R via CAN communication when rear window defogger switch signal is received.
- Rear window defogger and door mirror defogger are supplied with power and operate when rear window defogger relay turns ON.
- IPDM E/R transmits rear window defogger control signal to AV control unit via CAN communication.
- AV control unit transmits rear defogger feedback signal to multifunction switch (rear window defogger switch) via AV communication then rear window defogger indicator is illuminated.

Timer function

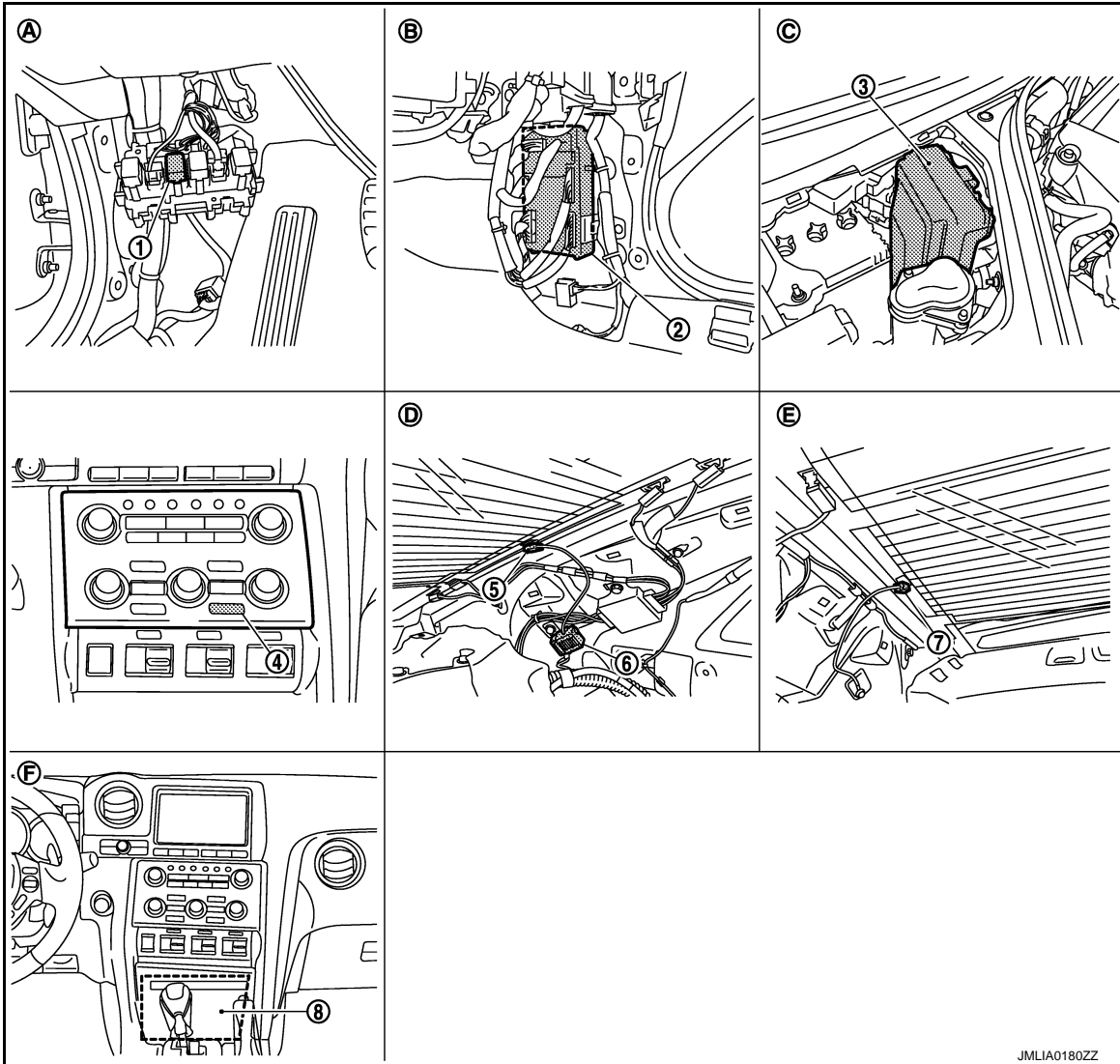
- BCM turns rear window defogger relay ON for approximately 15 minutes when rear window defogger switch is turned ON. It makes rear window defogger and door mirror defogger operate.
- Timer is canceled after pressing rear window defogger switch again during timer operation. Then BCM turns rear window defogger relay OFF. The same reaction also occurs during timer operation, if the ignition switch is turned OFF.

REAR WINDOW DEFOGGER SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000011488434



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|--|--|--------------------------------|
| 1. Rear window defogger relay (built-in relay box) | 2. BCM M118, M119, M122, M123 | 3. IPDM E/R E6 |
| 4. Rear window defogger switch (built-in multifunction switch M72) | 5. Rear window defogger connector B471 | 6. Condenser B33 |
| 7. Rear window defogger connector B472 | 8. AV control unit M81, M82 | |
| A. Dash side lower (driver side) | B. Dash side lower (passenger side) | C. Engine room dash panel (RH) |
| D. Behind rear pillar finisher (LH) | E. Behind rear pillar finisher (RH) | F. Behind cluster lid C |

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Component Description

INFOID:000000011488435

Item	Function
BCM	<ul style="list-style-type: none"> Operates the rear window defogger with the operation of rear window defogger switch. Performs the timer control of rear window defogger.
Rear window defogger relay	Operates the rear window defogger and the door mirror defogger with the control signal from BCM.
IPDM E/R	Transmit rear window defogger control signal to AV control unit via CAN communication.

O
P

REAR WINDOW DEFOGGER SYSTEM

< SYSTEM DESCRIPTION >

Multifunction switch (Rear window defogger switch)	<ul style="list-style-type: none">• The rear window defogger switch is installed.• Turns the indicator lamp ON when detecting the operation of rear window defogger.
AV control unit	Displays the rear window defogger ON to the display when detecting the operation of rear window defogger.
Rear window defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.
Door mirror defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011733078

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. 	

REAR WINDOW DEFOGGER

REAR WINDOW DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:000000011488437

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	Description
REAR DEF SW	This is displayed even when it is not equipped.
PUSH SW	Indicates [ON/OFF] condition of push switch.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation. Rear window defogger operates when "ON" on CONSULT screen is touched.

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B

C

D

E

F

G

H

I

J

K

DEF

M

N

O

P

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000011488438

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.

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER SWITCH

Component Function Check

INFOID:000000011488439

1.CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

Check that the indicator lamp of rear window defogger illuminates when rear window defogger switch ON.

Is the inspection result normal?

- YES >> Rear window defogger switch function is OK.
- NO >> Refer to [DEF-11, "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000011488440

1.CHECK REAR WINDOW DEFOGGER SWITCH

Does rear window defogger switch operate normally? Refer to [AV-153, "Symptom Table"](#)

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace preset switch (rear window defogger switch). Refer to [AV-180, "Removal and Installation"](#).

A
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E
F
G
H
I
J
K
DEF
M
N
O
P

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REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Component Function Check

INFOID:000000011488441

1.CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the rear window heating wire is getting warmer.

Is the inspection result normal?

- YES >> Rear window defogger relay power supply circuit is OK.
NO >> Refer to [DEF-12. "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000011488442

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10A fuse [No.3, located in fuse block (J/B)].

Is the inspection result normal?

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

2.CHECK REAR WINDOW DEFOGGER CIRCUIT 1

1. Turn ignition switch ON.
2. Check voltage between BCM harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
BCM				
Connector	Terminal			
M123	151	Ground	Rear window defogger switch: ON	0
			Rear window defogger switch: OFF	Battery voltage

Is the inspection result normal?

- YES >> Rear window defogger power supply circuit is OK.
NO >> GO TO 3.

3.CHECK REAR WINDOW DEFOGGER CIRCUIT 2

1. Turn ignition switch OFF.
2. Disconnect BCM connector and fuse block (J/B).
3. Check continuity between BCM harness connector and fuse block (J/B) harness connector.

BCM		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
M123	151	M2	4B	Existed

Is the inspection result normal?

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

4.CHECK REAR WINDOW DEFOGGER RELAY

1. Disconnect rear window defogger relay,
2. Check rear window defogger relay.
Refer to [DEF-13. "Component Inspection"](#)

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace rear window defogger relay.

5.CHECK FUSE BLOCK (J/B)

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

1. Install the rear window defogger relay.
2. Turn ignition switch ON.
3. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

(+)		(-)	Voltage (V) (Approx.)
Fuse block (J/B)			
Connector	Terminal	Ground	Battery voltage
M2	4B		

Is the inspection result normal?

- YES >> GO TO 6.
 NO >> Replace fuse block (J/B).

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
 Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

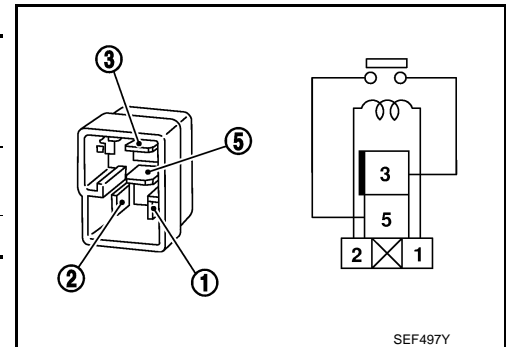
Component Inspection

INFOID:000000011488443

1.CHECK REAR WINDOW DEFOGGER RELAY

1. Turn ignition switch OFF.
2. Disconnect rear window defogger relay.
3. Check rear window defogger relay.

Rear window defogger relay		Condition	Continuity
Terminal			
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed



Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Replace rear window defogger relay.

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

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER

Component Function Check

INFOID:000000011488444

1.CHECK REAR WINDOW DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the rear window heating wire is getting warmer.

Is the inspection result normal?

- YES >> Rear window defogger is OK.
NO >> Refer to [DEF-14, "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000011488445

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check the following.
 - 20A fuse [No.15, located in fuse block (J/B)]

Is the inspection result normal?

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

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between rear window defogger harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B471	1	Ground	Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear window defogger connector.
3. Check continuity between rear window defogger harness connector and ground.

Rear window defogger		Ground	Continuity
Connector	Terminal		
B472	2		Existed

Is the inspection result normal?

- YES >> GO TO 7.
NO >> Repair or replace harness between rear window defogger and ground.

4.CHECK REAR WINDOW DEFOGGER CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect condenser connector.
3. Check continuity between condenser harness connector and rear window defogger harness connector.

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Condenser		Rear window defogger		Continuity
Connector	Terminal	Connector	Terminal	
B33	1	B471	1	Existed

4. Check continuity between condenser harness connector and ground.

Condenser		Ground	Continuity
Connector	Terminal		
B33	1		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness between condenser and rear window defogger.

5.CHECK REAR WINDOW DEFOGGER CIRCUIT 2

1. Disconnect fuse block (J/B) connector.
2. Check continuity between fuse block (J/B) harness connector and condenser harness connector.

Fuse block (J/B)		Condenser		Continuity
Connector	Terminal	Connector	Terminal	
B6	10G	B33	1	Existed

3. Check continuity between fuse block (J/B) harness connector and ground.

Fuse block (J/B)		Ground	Continuity
Connector	Terminal		
B6	10G		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness between fuse block (J/B) and condenser.

6.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.
2. Check voltage between fuse block (J/B) (fuse block side) and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Fuse block (J/B)				
Connector	Terminal			
B6	10G	Ground	Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace fuse block (J/B).

7.CHECK FILAMENT

Check the filament for damage or blown.
Refer to [DEF-76, "Inspection and Repair"](#)

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair filament.

8.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to [GI-39, "Intermittent Incident"](#)

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

>> INSPECTION END

DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER

Component Function Check

INFOID:000000011488446

1.CHECK DOOR MIRROR DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that both side door mirror glass is getting warmer.

Is the inspection result normal?

- YES >> Door mirror defogger is OK.
NO >> Refer to [DEF-17, "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000011488447

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10A fuse [No.13, located in fuse block (J/B)].

Is the inspection result normal?

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

2.CHECK FUSE BLOCK (J/B)

1. Disconnect fuse block (J/B) connector.
2. Turn ignition switch ON.
3. Check voltage between fuse block (J/B) connector (fuse block side) and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
M3	9C	Ground	Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0
	10C		Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace fuse block (J/B).

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

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

DEF

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Component Function Check

INFOID:000000011488448

1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the driver side door mirror glass is getting warmer.

Is the inspection result normal?

- YES >> Driver side door mirror defogger is OK.
NO >> Refer to [DEF-18. "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000011488449

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect door mirror (driver side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (driver side) harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Door mirror (driver side)				
Connector	Terminal			
D3	1	Ground	Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0

Is the inspection result normal?

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

2. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect fuse block (J/B) connector.
3. Check continuity between fuse block (J/B) harness connector and door mirror (driver side) harness connector.

Fuse block (J/B)		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M3	10C	D3	1	Existed

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness between fuse block (J/B) and door mirror (driver side).

3. CHECK FUSE BLOCK (J/B) OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between fuse block (J/B) harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Fuse block (J/B)				
Connector	Terminal			
M3	10C	Ground	Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0

Is the inspection result normal?

- YES >> GO TO 5.

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace fuse block (J/B).

4.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror (driver side) harness connector and ground.

Door mirror (driver side)		Ground	Continuity
Connector	Terminal		Existed
D3	5		

Is the inspection result normal?

YES >> Replace door mirror glass (driver side). Refer to [MIR-20, "GLASS MIRROR : Disassembly and Assembly"](#).

NO >> Repair or replace harness between door mirror (driver side) and ground.

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

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PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Component Function Check

INFOID:000000011488450

1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the passenger side door mirror glass is getting warmer.

Is the inspection result normal?

- YES >> Passenger side door mirror defogger is OK.
NO >> Refer to [DEF-20, "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000011488451

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect door mirror (passenger side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (passenger side) harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
D33	1	Ground	Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0

Is the inspection result normal?

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

2. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect fuse block (J/B) connector.
3. Check continuity between fuse block (J/B) harness connector and door mirror (passenger side) harness connector.

Fuse block (J/B)		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M3	9C	D33	1	Existed

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness between fuse block (J/B) and door mirror (passenger side).

3. CHECK FUSE BLOCK (J/B) OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between fuse block (J/B) harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
M3	9C	Ground	Rear window defogger switch: ON	Battery voltage
			Rear window defogger switch: OFF	0

Is the inspection result normal?

- YES >> GO TO 5.

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace fuse block (J/B).

4.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror (passenger side) harness connector and ground.

Door mirror (passenger side)		Ground	Continuity
Connector	Terminal		Existed
D33	5		

Is the inspection result normal?

YES >> Replace door mirror glass (passenger side). Refer to [MIR-20, "GLASS MIRROR : Disassembly and Assembly"](#).

NO >> Repair or replace harness between door mirror (passenger side) and ground.

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

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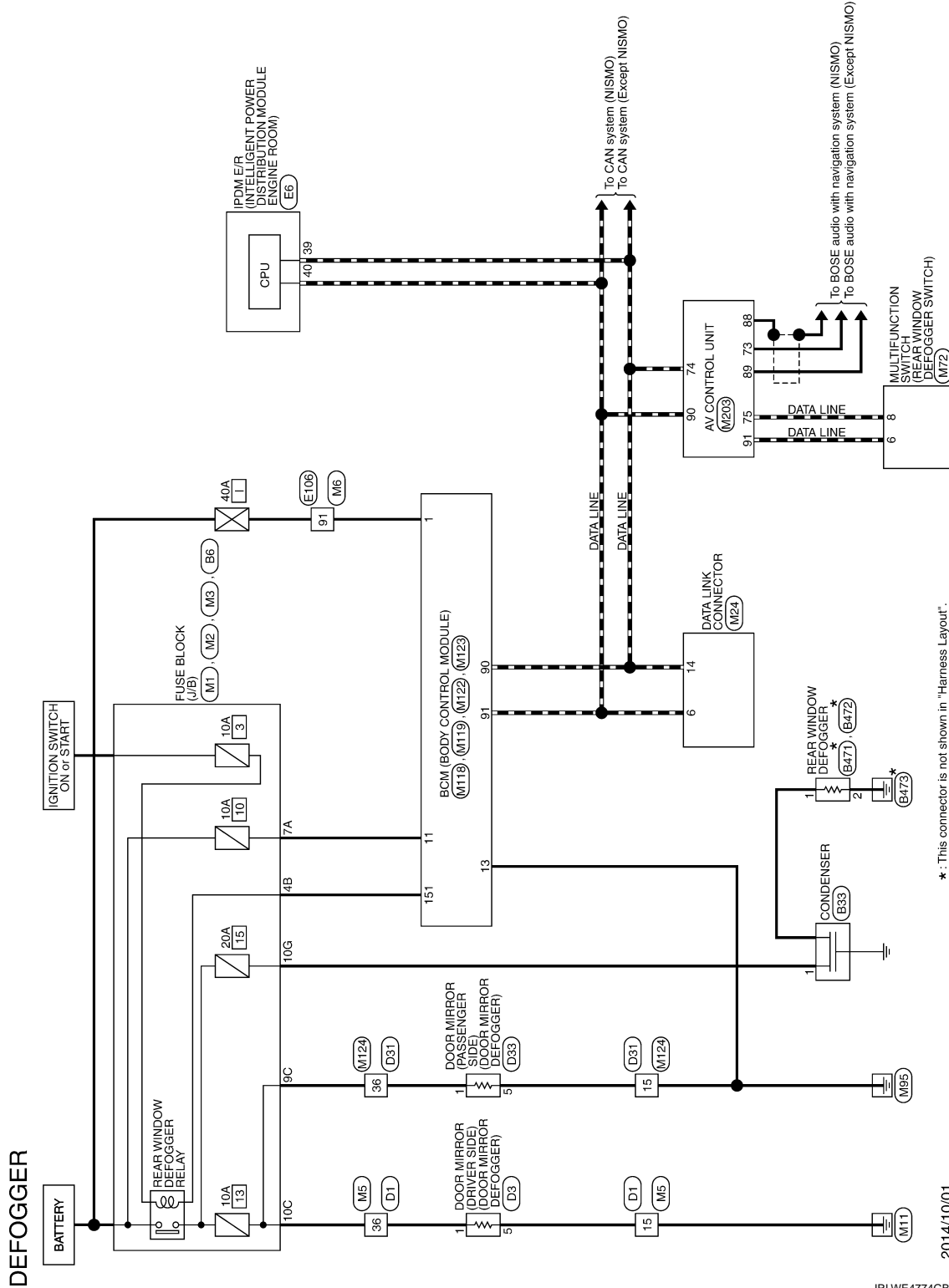
REAR WINDOW DEFOGGER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER SYSTEM

Wiring Diagram - DEFOGGER SYSTEM -

INFOID:000000011488452



REAR WINDOW DEFOGGER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

DEFOGGER

Connector No.	B8
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS12FBRCS



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

Connector No.	B33
Connector Name	CONDENSER
Connector Type	M01FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	EG	-

Connector No.	B471
Connector Name	REAR WINDOW DEFOGGER
Connector Type	P01FB-A



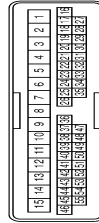
Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-

Connector No.	B472
Connector Name	REAR WINDOW DEFOGGER
Connector Type	P01FB-A



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

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-GS15



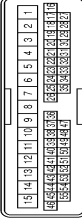
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	G	-
17	R	-
27	SHIELD	-
36	O	-
38	W	-
40	GR	-
41	GR	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	RH48MB



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

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-GS15



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	-

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REAR WINDOW DEFOGGER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

DEFOGGER

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.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	IH88MB



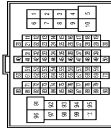
Terminal No.	Color Of Wire	Signal Name (Specification)
1	O	-
2	Y	-
3	G	-
4	W	-
5	B	-
7	R	-
8	L	-

Connector No.	E6
Connector Name	FOUNDER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH89FW-NH



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH89FW-GS16-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	-	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS86FW-M2



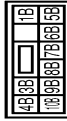
Terminal No.	Color Of Wire	Signal Name (Specification)
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

REAR WINDOW DEFOGGER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

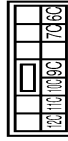
DEFOGGER

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



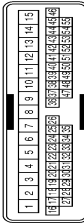
Terminal No.	Color Of Wire	Signal Name [Specification]
10B	Y	-
1B	R	-
2B	P	-
3B	G	-
4B	LG	-
5B	Y	-
6B	R	-
7B	R	-
8B	R	-
9B	SB	-

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



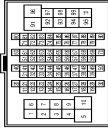
Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	W	-
13C	R	-
14C	B	-
15C	W	-
16C	BR	-

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	W	-
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	-

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	-
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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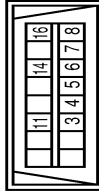
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REAR WINDOW DEFOGGER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

DEFOGGER

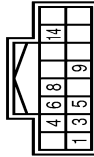
Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

M72

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



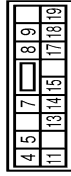
Terminal No.	Color	Wire	Signal Name [Specification]
1	B	-	GROUND
3	V	-	ACC
4	P	-	ILL
5	P	-	ILL CONT
6	G	-	AV COMM (H)
8	R	-	AV COMM (L)
9	BR	-	SW GND
14	SB	-	DISK EJECT SIGNAL

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MD3FELC



Terminal No.	Color	Wire	Signal Name [Specification]
1	W	-	BAT (F/L)
2	R	-	POWER WINDOW POWER SUPPLY (BAT)
3	W	-	POWER WINDOW POWER SUPPLY (P&A2)

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



Terminal No.	Color	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	-	GROUND
14	P	-	PUSHBUTTON 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

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



Terminal No.	Color	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
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	EG	-	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	EG	-	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	V	-	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	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 TPB
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	-	PUSHBUTTON IGNITION SW ILL POWER
134	GR	-	LOCK IND
137	L	-	RECEIVER GND
138	Y	-	RECEIVER 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

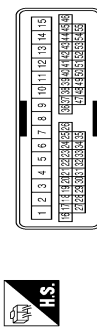
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REAR WINDOW DEFOGGER SYSTEM

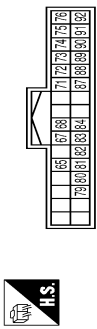
< DTC/CIRCUIT DIAGNOSIS >

DEFOGGER

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40/MW-CS15



Connector No.	M203
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



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	-

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	P	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	SB	COMM (DISP-CONT)
90	L	CAN-H
91	G	AV COMM (H)
92	G	AV COMM (H)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000011811809

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)

< ECU DIAGNOSIS INFORMATION >

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	DEF
	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	DEF
	TRUNK OPEN button of Intelligent Key is pressed	On	
RKE-PANIC	PANIC button of Intelligent Key is not pressed	Off	M
	PANIC button of Intelligent Key is pressed	On	
RKE-P/W OPEN	UNLOCK button of Intelligent Key is not pressed	Off	N
	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	O
	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V	P
	Dark outside of the vehicle	Close to 0 V	
REQ SW-DR	Driver door request switch is not pressed	Off	DEF
	Driver door request switch is pressed	On	
REQ SW-AS	Passenger door request switch is not pressed	Off	M
	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	
VEH SPEED 2	While driving	Equivalent to speedometer reading	F
DOOR STAT-DR	Driver door is locked	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	G
	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	I
ID OK FLAG	Steering is locked	Reset	
	Steering is unlocked	Set	J
PRMT ENG STRT	The engine start is prohibited	Reset	
	The engine start is permitted	Set	K
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	
KEY SW -SLOT	Intelligent Key is not inserted into key slot	Off	
	Intelligent Key is inserted into key slot	On	DEF
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)

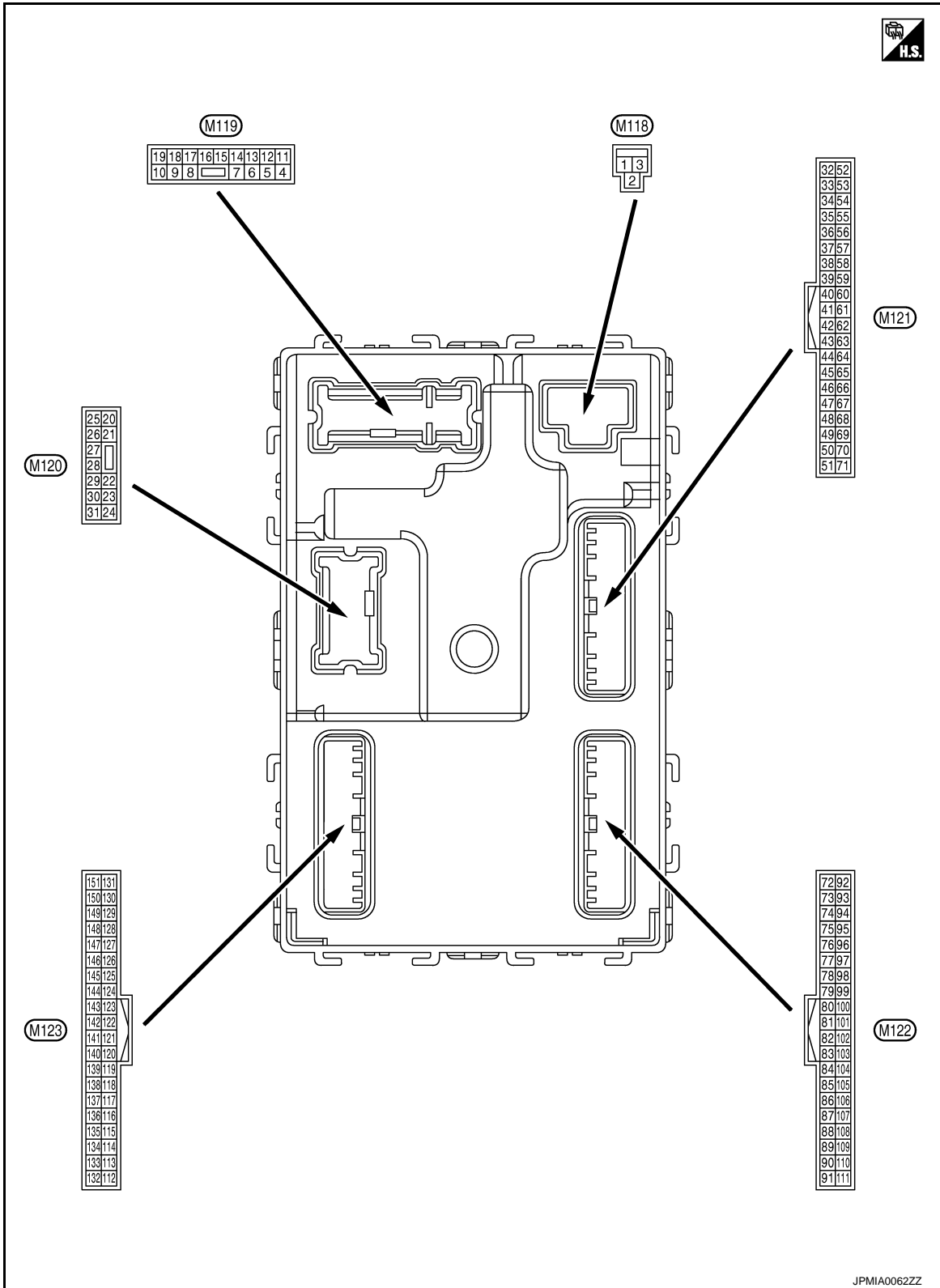
< ECU DIAGNOSIS INFORMATION >

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

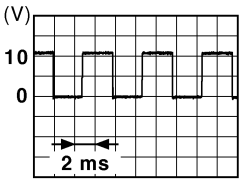


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PHYSICAL VALUES

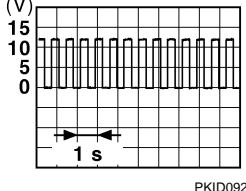
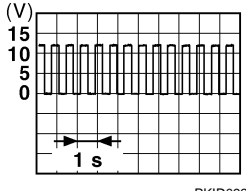
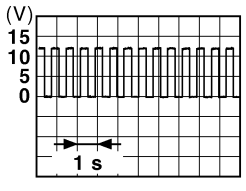
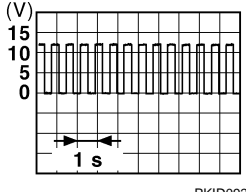
BCM (BODY CONTROL MODULE)

< 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 style="text-align: center;">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)

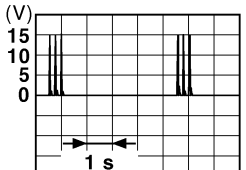
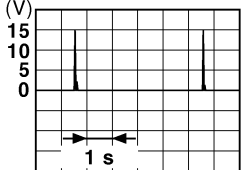
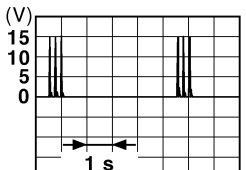
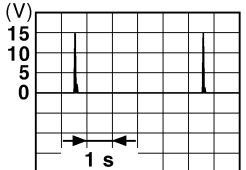
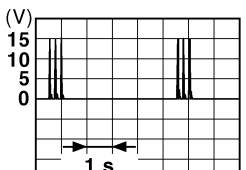
< ECU DIAGNOSIS INFORMATION >

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	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
35 (L)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
38 (R)	Ground	Rear bumper anten- na (-)	Output	When the trunk lid opener re- quest switch is operated with ig- nition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

BCM (BODY CONTROL MODULE)

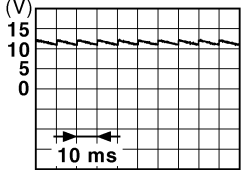
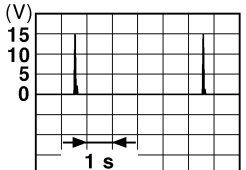
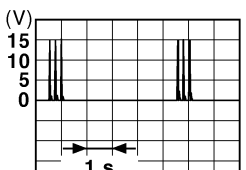
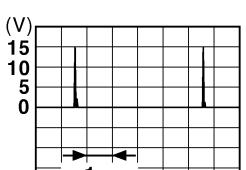
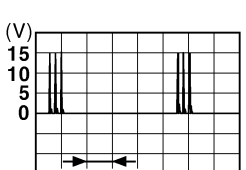
< ECU DIAGNOSIS INFORMATION >

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
				OFF (Trunk is closed)	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	Trunk lid opener request switch	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 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>
75 (BR)	Ground	Passenger door antenna (+)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0063GB</p>

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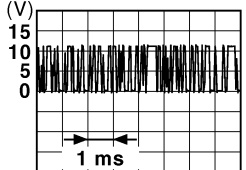
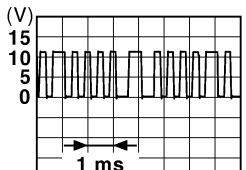


BCM (BODY CONTROL MODULE)

< 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)

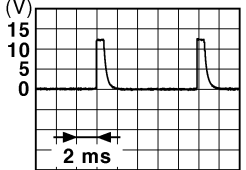
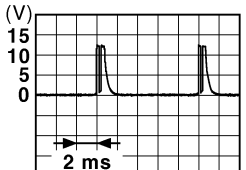

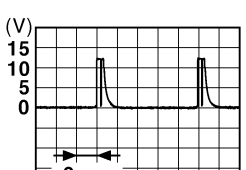
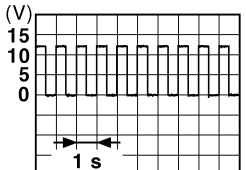
< ECU DIAGNOSIS INFORMATION >

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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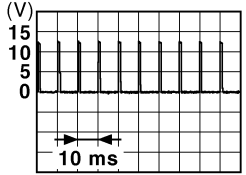
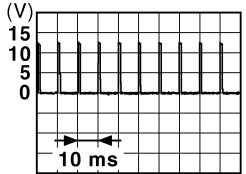
BCM (BODY CONTROL MODULE)

< 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)

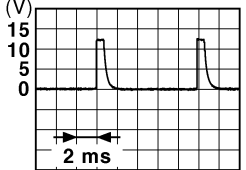

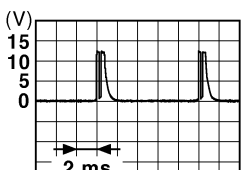
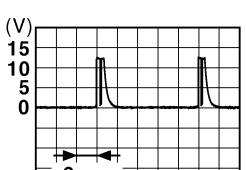
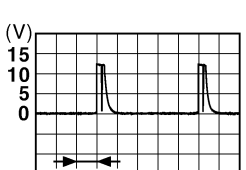
< ECU DIAGNOSIS INFORMATION >

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)	 1.0 V
101 (V)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
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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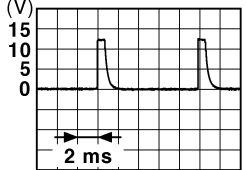
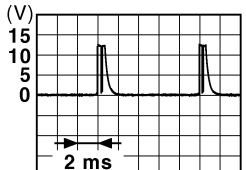
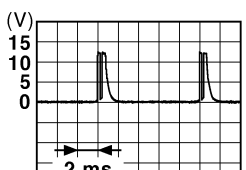
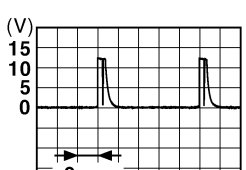
BCM (BODY CONTROL MODULE)

< 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; margin-right: 50px;">JPMIA0041GB</p> <p style="text-align: center;">1.4 V</p>
					Turn signal switch LH	 <p style="text-align: right; margin-right: 50px;">JPMIA0037GB</p> <p style="text-align: center;">1.3 V</p>
					Turn signal switch RH	 <p style="text-align: right; margin-right: 50px;">JPMIA0036GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: right; margin-right: 50px;">JPMIA0038GB</p> <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: right; margin-right: 50px;">JPMIA0039GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

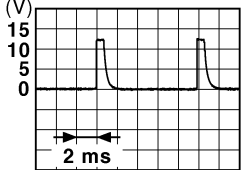

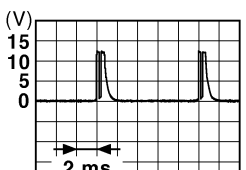
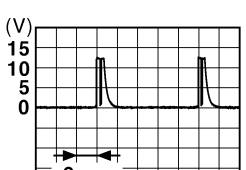
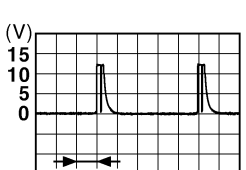
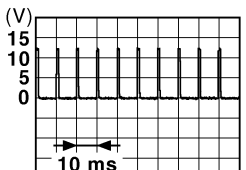
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p>1.4 V</p> </div>
					Lighting switch AUTO (Wiper 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
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

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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 JPMIA0011GB 11.8 V
				LOCK position	0 V
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL JPMIA0012GB 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 JPMIA0011GB 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) JPMIA0159GB NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.	
				OFF	0 V
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	
					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	
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
145 (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	
					Lighting switch AUTO	
					Lighting switch AUTO	

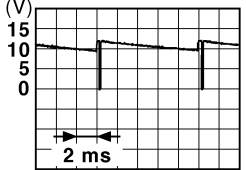
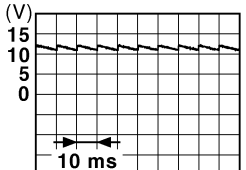
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

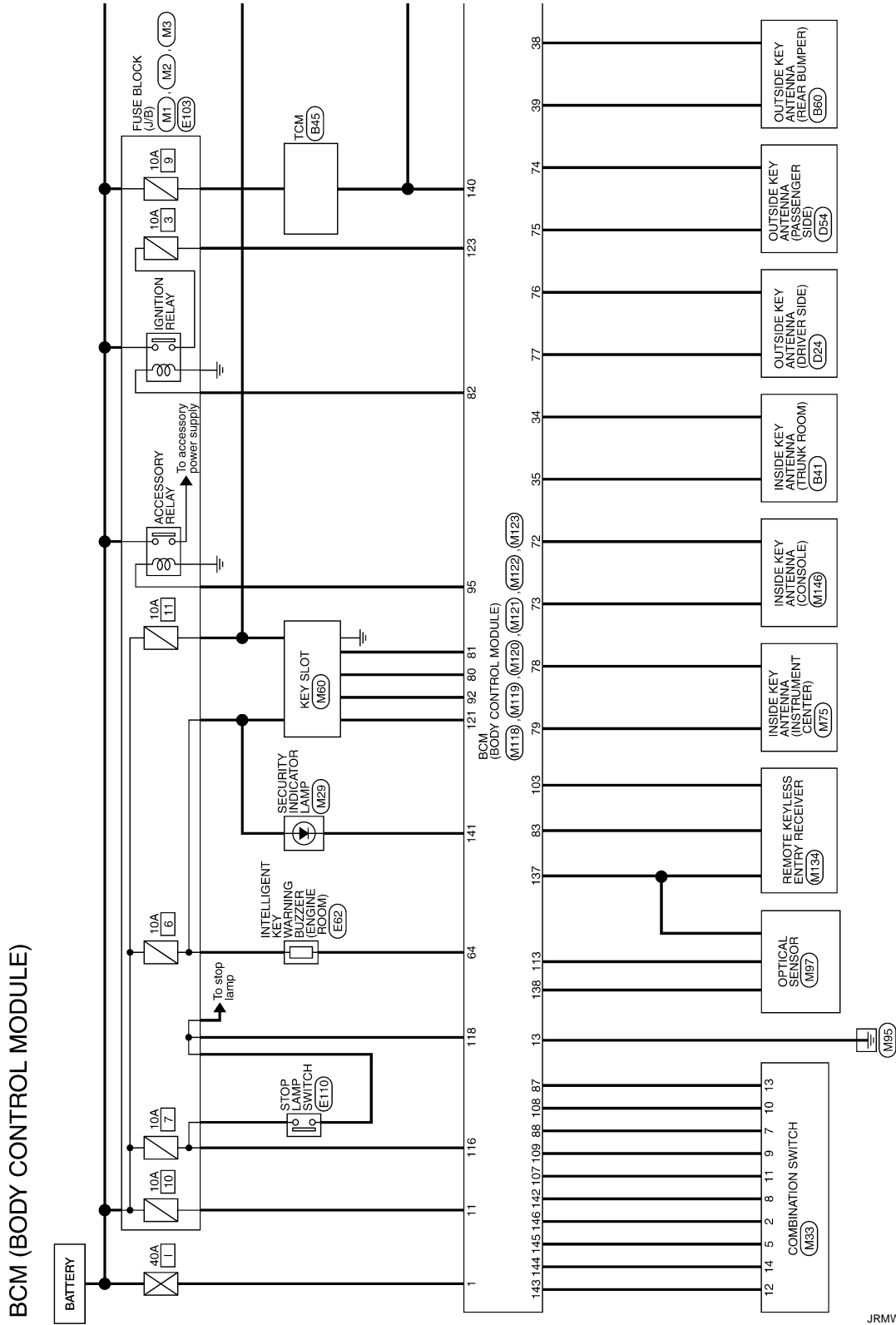
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
146 (SB)	Ground	Combination switch OUTPUT 4	Output	All switches OFF	0 V
				Lighting switch 2ND	
				Lighting switch PASS	
				Turn signal switch LH	
150 (GR)	Ground	Driver door switch	Input	Driver door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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

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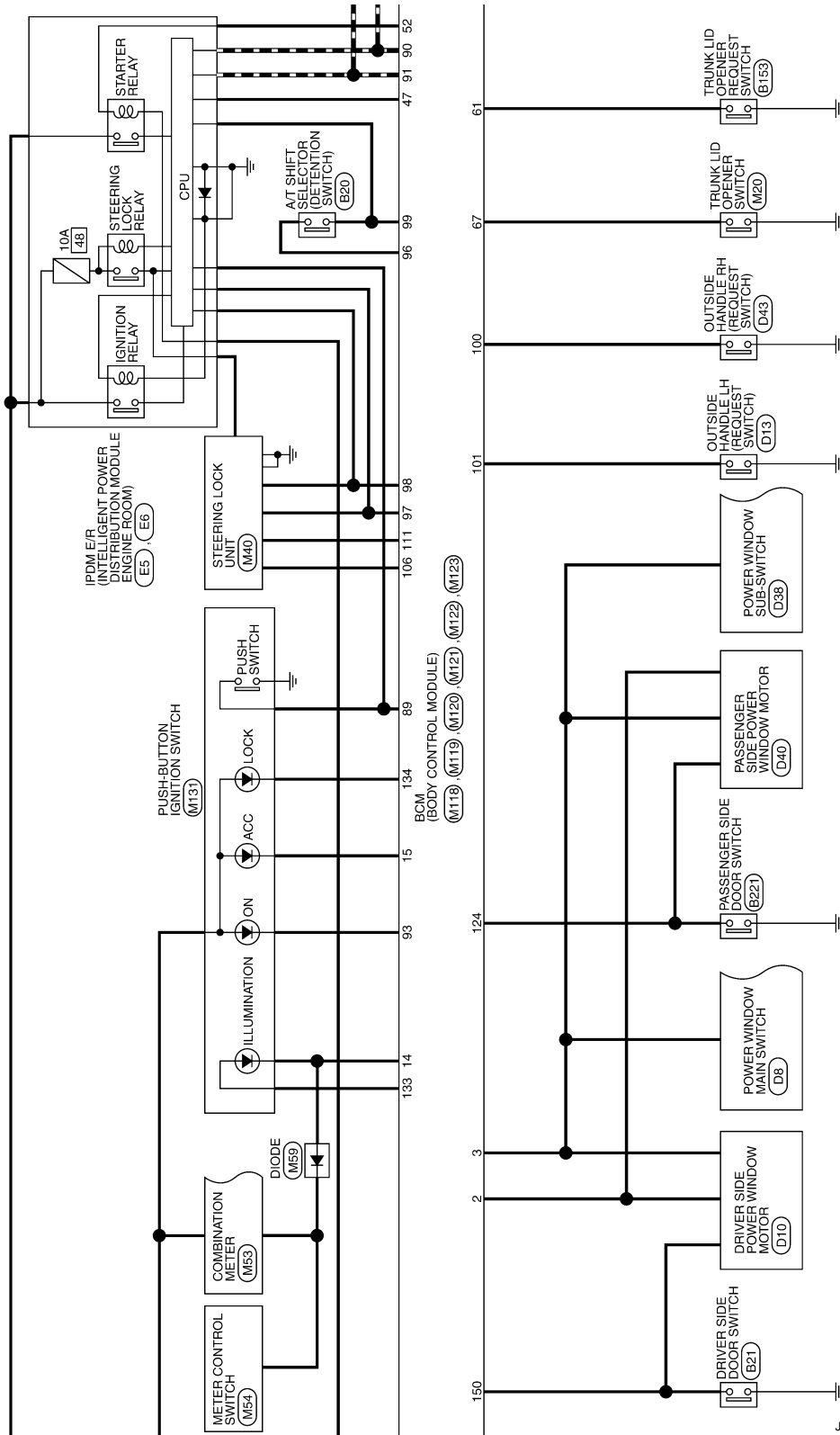
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BCM (BODY CONTROL MODULE)

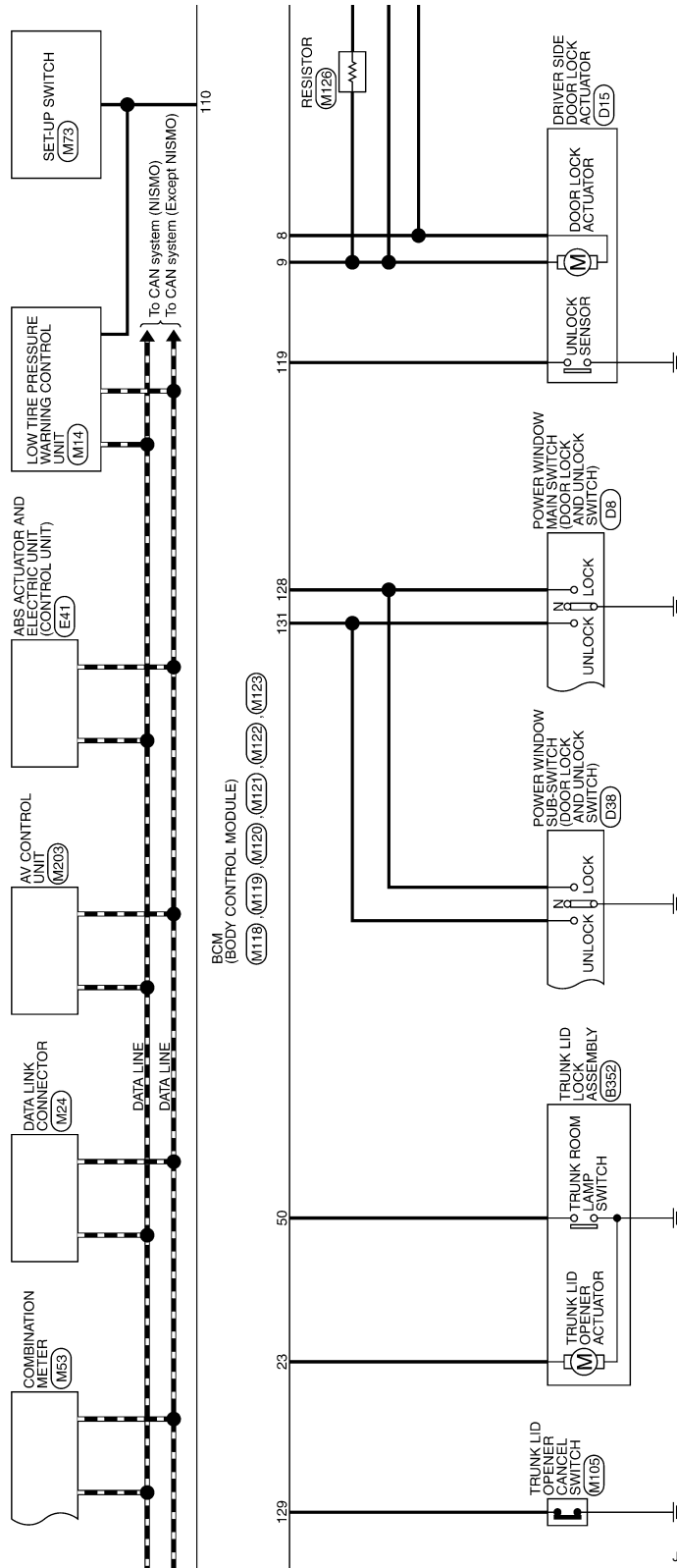
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BCM (BODY CONTROL MODULE)

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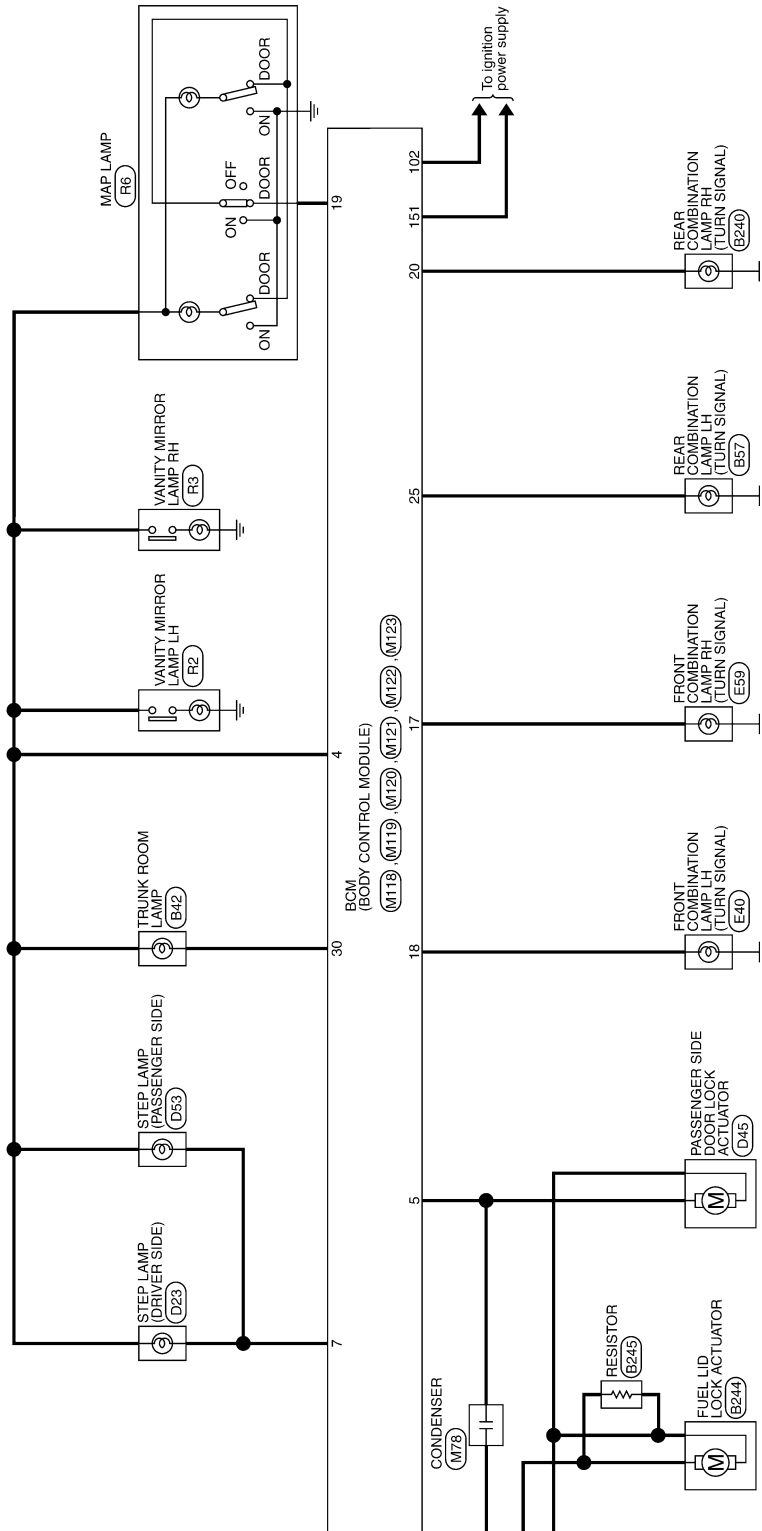


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BCM (BODY CONTROL MODULE)

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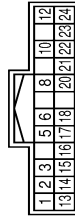
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BCM (BODY CONTROL MODULE)

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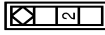
BCM (BODY CONTROL MODULE)

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	VGN
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



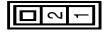
Terminal No.	Color	Wire	Signal Name [Specification]
2	LG	B	-

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



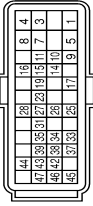
Terminal No.	Color	Wire	Signal Name [Specification]
1	L	P	-
2	P	B	-

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	NSR6MW-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.	B60
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	FKG2FGY



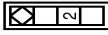
Terminal Color Of No.	Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	B153
Connector Name	TRUNK LID OPENER REQUEST SWITCH
Connector Type	FKG2ML



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

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



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

Connector No.	B240
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS68MW-CS



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

Connector No.	B244
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	M04FW-LC



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

Connector No.	B245
Connector Name	RESISTOR
Connector Type	M04FL-R



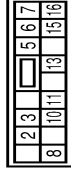
Terminal Color Of No.	Wire	Signal Name [Specification]
1	V	-
2	G	-

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



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

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



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

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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



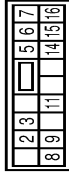
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-

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	C02FW



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

Connector No.	D54
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RK02MGY



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	THE0FW-0S12-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	TH08FW-NH



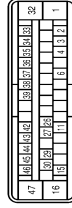
Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B/Y	-
42	G	-
43	SB	-
44	W	-
46	BG	-

Connector No.	E40
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	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	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



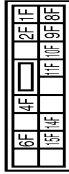
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	FR	-
4	BO	-
5	R	-
6	V	-
7	BR	-
8	BG	-

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



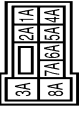
Terminal No.	Color Of Wire	Signal Name [Specification]
10F	GR	-
11F	Y	-
14F	LG	-
15F	P	-
2F	W	-
4F	W	-
6F	BG	-
8F	L	-
9F	R	-

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



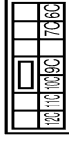
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	LG	-
5A	SB	-
6A	Y	-
7A	R	-
8A	L	-

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	-
7C	R	-
9C	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 >


Terminal No.	Color Of Wire	Signal Name [Specification]
21	P	FR TUNER (RSS)
22	G	FL TUNER (RSS)
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.	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.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



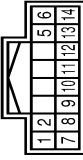
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	
4	B	
5	B	
6	L	
7	V	
8	G	

Connector No.	M29
Connector Name	SECURITY INDICATOR LAMP
Connector Type	TK02FBR




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

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




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

Connector No.	M35
Connector Name	COMBINATION METER
Connector Type	SAB40FW



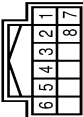
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	ACT/AMP CONNECTION/ELECTRONIC SERVO
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL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

Connector No.	M40
Connector Name	STEERING LOCK UNIT
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	S/L 12V (MECHANICAL)
2	Y	S/L (K LINE)
3	L	S/L COND/L10N1
5	B	GND
6	B	GND
7	P	S/L 12V(CPU)
8	R	S/L COND/L10N2

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	

Terminal No.	Color Of Wire	Signal Name [Specification]
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-H
22	P	CAN-L
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (-)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
25	G	TRIP AB RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALL TERMINATOR
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	RG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

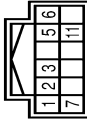
BCM (BODY CONTROL MODULE)

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(BAT)

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)		
Connector No.	Wire	Signal Name [Specification]
M119		BCM (BODY CONTROL MODULE)
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
9	R	BAT (FUSE)
11	B	GND
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
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
Connector No.	M121	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH0FGY-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 (FROM ECU) 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
Connector No.	M122	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH0FBE-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
Connector No.	M123	
Connector Name	BOM (BODY CONTROL MODULE)	
Connector Type	TH0FG-NH	
Terminal No.	Wire	Signal Name [Specification]
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	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
Connector No.	M126	
Connector Name	RESISTOR	
Connector Type	M04FL-R	
Terminal No.	Wire	Signal Name [Specification]
1	G	
2	L	
Connector No.	M131	
Connector Name	PUSH-BUTTON IGNITION SWITCH	
Connector Type	TK08FBR	
Terminal No.	Wire	Signal Name [Specification]
1	B	
2	P	
3	W	
Connector No.	M124	
Connector Name	BOM (BODY CONTROL MODULE)	
Connector Type	TH0FG-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 F/B
124	LG	PASSENGER DOORS SW
126	B	DOOR LOCK UNLOCK SW LOCK
129	BG	TRUNK GANSEL SW
131	BR	DOOR LOCK UNLOCK SW UNLOCK
Connector No.	M125	
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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

4	BR	-	-
5	GR	-	-
6	Y	-	-
7	V	-	-
8	G	-	-

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



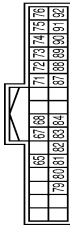
Terminal No.	Wire	Signal Name [Specification]
1	L	GND
2	Y	SIGNAL OUTPUT
4	LG	BATTERY

Connector No.	M146
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



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

Connector No.	M203
Connector Name	AV CONTROL UNIT
Connector Type	TH02FM-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 (R)
79	R	ILLUMINATION
80	W	IGNITION
81	BG	REVERSE
82	V	VEHICLE SPEED (8-PULSE)
83	SHIELD	SHIELD
84	B	COMPOSITE SYNCHRONIZING SIGNAL
87	P	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.	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	-

Connector No.	R6
Connector Name	MAP LAMP
Connector Type	TK06FGY



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

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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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

INFOID:000000011811812

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

INFOID:000000011811813

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 warn- ing 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

REAR WINDOW DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR WINDOW DEFOGGER DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011488458

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [BCS-41, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to [DEF-11, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to [DEF-12, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to [DEF-14, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE

Diagnosis Procedure

INFOID:000000011488459

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to [BCS-41, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.
Refer to [DEF-11, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.
Refer to [DEF-12, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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C
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G
H
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J
K
DEF
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REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR MIRROR DEFOGGERS OPERATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR MIRROR DEFOGGERS OPERATE

Diagnosis Procedure

INFOID:000000011488460

1.CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to [DEF-14, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR MIRROR DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DOOR MIRROR DEFOGGER DOES NOT OPERATE BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:000000011488461

1.CHECK DOOR MIRROR DEFOGGER

Check door mirror defogger.

Refer to [DEF-17, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000011488462

1.CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

Check driver side door mirror defogger.

Refer to [DEF-18, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011488463

1.CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER.

Check passenger side door mirror defogger.

Refer to [DEF-20, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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

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ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT IS OPERATED

< SYMPTOM DIAGNOSIS >

ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT IS OPERATED

Diagnosis Procedure

INFOID:000000011488464

1. CHECK AV CONTROL UNIT FUNCTION

Check that the AV control unit is operating normally. Refer to [AV-91, "Work Flow"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000011488465

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger operate.

- YES >> Replace preset switch (rear window defogger switch). Refer to [AV-180. "Removal and Installation"](#).
- NO >> Check rear window defogger system. Refer to [DEF-3. "Work Flow"](#)

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

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011733056

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.

Precautions for Removing Battery Terminal

INFOID:000000011733076

- 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.

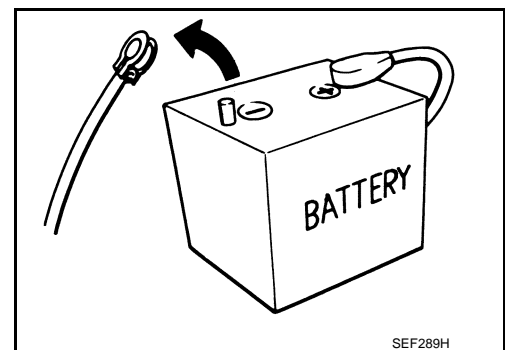
NOTE:

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.



Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

INFOID:000000011863847

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

PRECAUTIONS

< PRECAUTION >

- Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables. A
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables. B
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results. C

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation. D

OPERATION PROCEDURE

1. Connect both battery cables.
NOTE:
Supply power using jumper cables if battery is discharged. E
2. Turn the ignition switch to ACC position.
(At this time, the steering lock will be released.) F
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned. G
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.) H
6. Perform self-diagnosis check of all control units using CONSULT. I

Precaution for Battery Service

INFOID:000000011863848

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. J

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FILAMENT

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

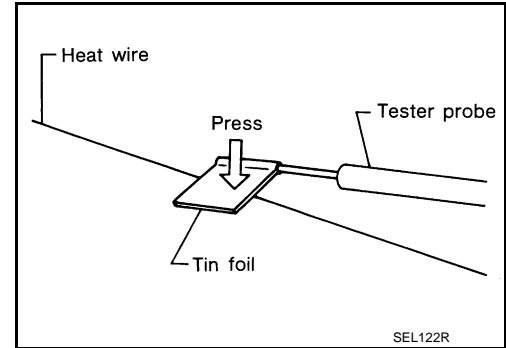
FILAMENT

Inspection and Repair

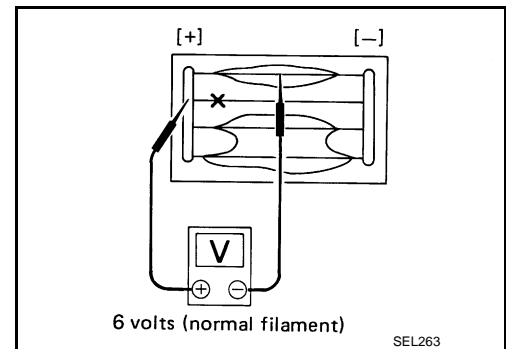
INFOID:000000011488470

INSPECTION

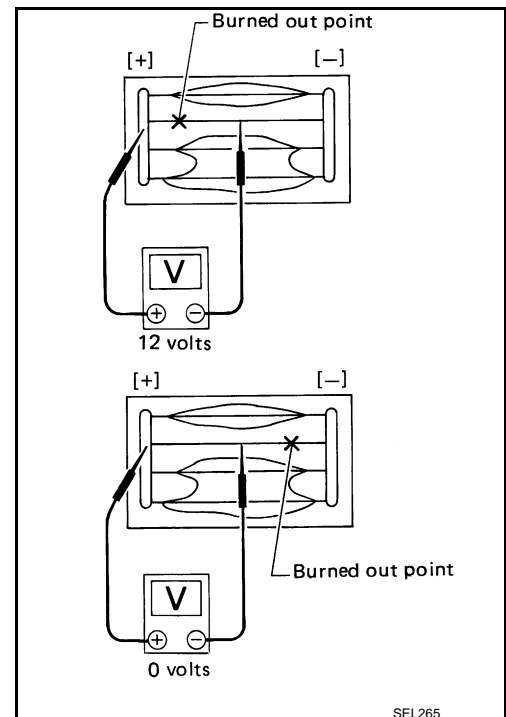
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



2. Attach probe circuit tester (in Volt range) to middle portion of each filament.



3. If a filament is burned out, circuit tester registers 0 or battery voltage.
4. To locate burned out point, move probe to left and right along filament. Test needle will swing abruptly when probe passes the point.



REPAIR

REPAIR EQUIPMENT

- Conductive silver composition (Dupont No. 4817 or equivalent)

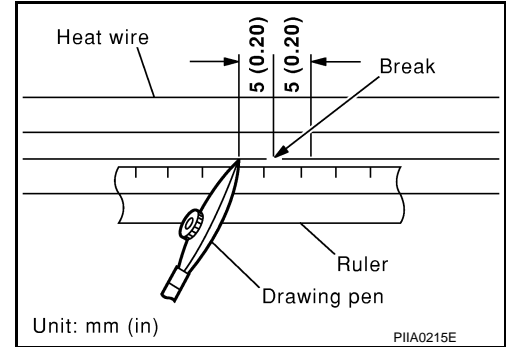
FILAMENT

< REMOVAL AND INSTALLATION >

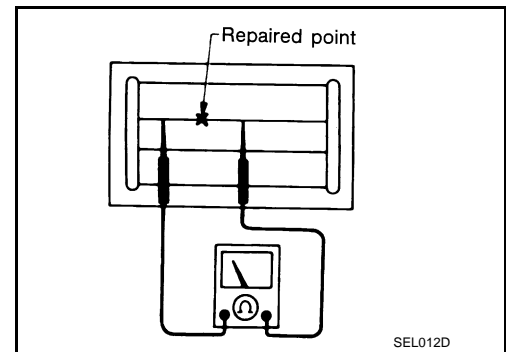
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

REPAIRING PROCEDURE

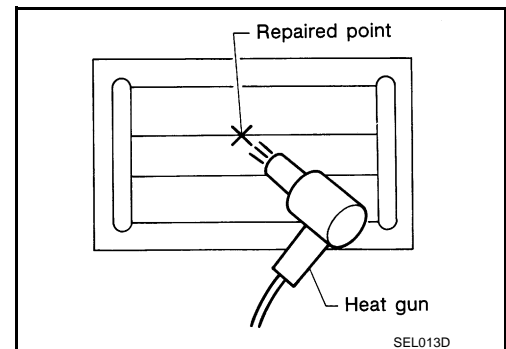
1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
2. Apply a small amount of conductive silver composition to tip of drawing pen. Shake silver composition container before use.
3. Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.20 in)] of the break.



4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited. Do not touch repaired area while test is being conducted.



5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet. If a heat gun is not available, let the repaired area dry for 24 hours.



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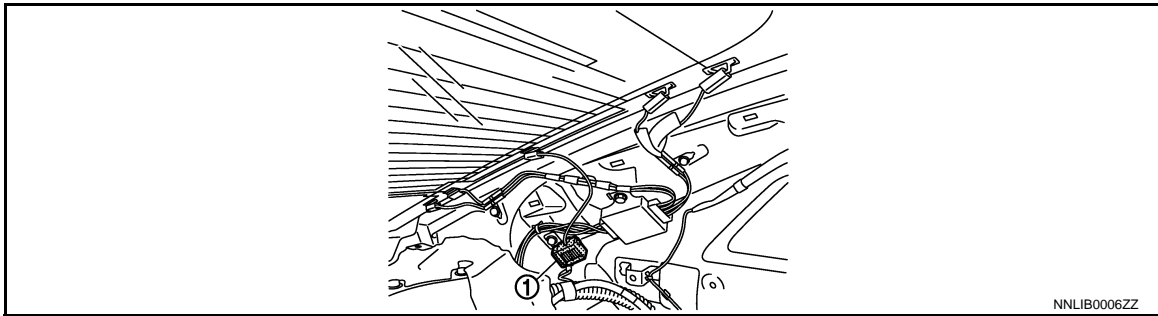
CONDENSER

< REMOVAL AND INSTALLATION >

CONDENSER

Exploded View

INFOID:000000011488471



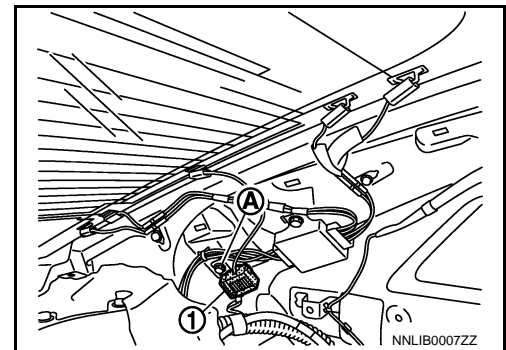
1. Condenser

Removal and Installation

INFOID:000000011488472

REMOVAL

1. Remove the rear seat cushion and the rear seatback.
Refer to [SE-68, "Removal and Installation"](#)
2. Remove the rear kickplate, rear wheel well garnish and the rear pillar finisher.
Refer to [INT-15, "Removal and Installation"](#)
3. Remove bolt (A), and then remove condenser (1) from the vehicle body.



INSTALLATION

Install in the reverse order of removal.