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DIAGNOSIS AND REPAIR WORK FLOW

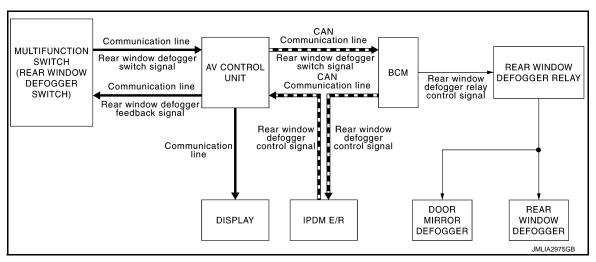
< BASIC INSPECTION >

BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:00000000009063638 **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. D >> GO TO 2. 2. CHECK DTC Е Perform self diagnosis with CONSULT. Is any DTC detected? F YES >> Refer to BCS-90, "DTC Index". NO >> GO TO 3. $3.\mathsf{REPRODUCE}$ 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. Н >> GO TO 4. f 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. ${f 5}.$ IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS" Perform the diagnosis with "Component diagnosis" of the applicable system. >> GO TO 6. DEF 6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS Repair or replace the specified malfunctioning parts. M >> GO TO 7. 7. FINAL CHECK Ν 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.

SYSTEM DESCRIPTION

REAR WINDOW DEFOGGER SYSTEM

System Diagram



System Description

INFOID:0000000009063640

OPERATION DESCRIPTION

- Turn rear window defogger switch ON while 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 window defogger feedback signal to multifunction switch (rear window defogger switch) via AV communication. then rear window defogger indicator is illuminated.
- AV control unit displays rear window defogger ON to the display when detecting the operation of rear window defogger.

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.

Component Parts Location

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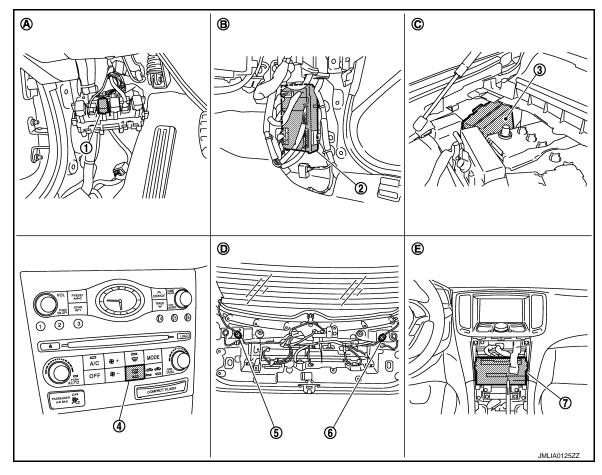
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- Rear window defogger relay
- Rear window defogger switch (built-in 5. multifunction switch)
- AV control unit
- Dash side lower (driver side)
- Behind back door finisher
- **BCM** 2.
- Rear window defogger connector
- IPDM E/R 3.
- 6. Rear window defogger connector
- Dash side lower (passenger side)
- Behind cluster lid C
- Engine room dash panel (RH)

Component Description

INFOID:0000000009063642

BCM	 Operates the rear window defogger with the operation of rear window defogger switch. Transmits rear window defogger control signal to IPDM E/R. Performs the timer control of rear window defogger.
Rear window defogger relay	Operates rear window defogger and door mirror defogger with BCM control.
IPDM E/R	Transmits rear window defogger control signal to AV control unit via CAN communication.
Multifunction switch (Rear window defogger switch)	The rear window defogger switch is installed. Turns the indicator lamp ON when detecting the operation of rear window defogger.
AV control unit	 AV control unit transmits rear window defogger switch signal to BCM via CAN communication. AV control unit transmits rear window defogger feedback signal to multifunction switch. Displays rear window defogger ON to the display when detecting the operation of rear window defogger.

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< SYSTEM DESCRIPTION >

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)

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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	 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

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

NOTE:

FREEZE FRAME DATA (FFD)

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

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^{*:} This item is displayed, but is not used.

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				
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)			
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)			
	LOCK>ACC		While turning power supply position from "LOCK"* to "ACC"			
	ACC>ON		While turning power supply position from "ACC" to "IGN"			
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Except emergency stop operation)			
	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	Power supply position status of the moment a	While turning power supply position from "OFF" to "LOCK"*			
Vehicle Condition	OFF>ACC	particular DTC is de-	While turning power supply position from "OFF" to "ACC"			
	ON>CRANK	tected*	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"*			
	OFF		Power supply position is "OFF" (Ignition switch OFF)			
	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	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 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. 				

NOTE:

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.
- · Closing door
- Opening door
- · Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

REAR WINDOW DEFOGGER

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

INFOID:0000000009063644

DATA MONITOR **NOTE**:

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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.

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	Rear window defogger operates when "ON" on CONSULT screen is touched.

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REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Component Function Check

INFOID:0000000009063645

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 <u>DEF-10</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000009063646

1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH)

Does multifunction switch operate normally?

- Base audio without navigation: Refer to AV-21, "On Board Diagnosis Function".
- BOSE audio without navigation: Refer to AV-161, "On Board Diagnosis Function".
- BOSE audio with navigation: Refer to AV-360, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace multifunction switch (rear window defogger switch).

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Component Function Check

${f 1}$.CHECK REAR WINDOW DEFOGGER RELAY FUNCTION

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

Is the inspection result normal?

>> Rear window defogger relay power supply circuit is OK.

>> Refer to DEF-11, "Diagnosis Procedure". NO

Diagnosis Procedure

1.CHECK FUSE

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

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

(+)				V-16 0.0
BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
M123	151	Ground	Rear window defogger	ON	0
WIIZS	W1123 131	Giodila	switch	OFF	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

Fixed at 0 V>>GO TO 3.

Fixed at battery voltage>>Replace BCM. Refer to BCS-96, "Removal and Installation".

3.check rear window defogger circuit ${\scriptstyle 2}$

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

f 4.CHECK REAR WINDOW DEFOGGER RELAY 1

Check rear window defogger relay.

Refer to DEF-12, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

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>> Replace rear window defogger relay. NO

5.CHECK FUSE BLOCK (J/B)

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REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

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

(+) Fuse block (J/B)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M2	4B	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 7.

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

6. CHECK REAR WINDOW DEFOGGER RELAY 2

Check rear window defogger relay.

Refer to DEF-12, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace rear window defogger relay.

7.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

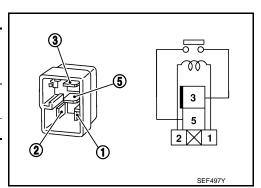
Component Inspection

INFOID:0000000009063649

1. CHECK REAR WINDOW DEFOGGER RELAY

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

Terr	ninal		
	vindow er relay	Condition	Continuity
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.

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER

Component Function Check

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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 <u>DEF-13</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check the following.
- 20A fuse [No.14, located in fuse block (J/B)]
- 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 REAR WINDOW DEFOGGER POWER SUPPLY

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

	+) ow defogger	(-)	Condi	tion	Voltage (V) (Approx.)
Connector	Terminal				(* ,pp******)
D108	1	Ground Rear window defogger		ON	Battery voltage
	D106 1	Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3. CHECK REAR WINDOW DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between rear window defogger harness connector and ground.

Rear windo	ow defogger		Continuity
Connector	Terminal	Ground	Continuity
D120	2		Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

4. CHECK REAR WINDOW DEFOGGER CIRCUIT

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

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REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Fuse bl	ock (J/B)	Rear window defogger		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B6	10G	D108	D108 1	Existed	
ьо	11G	D100	'	LAISIGU	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK FUSE BLOCK (J/B)

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

(+) Fuse block (J/B)		(-) Condition		Condition	
Connector	Terminal				(Approx.)
	10G		Ground Rear window defogger switch	ON	Battery voltage
B6	100	Cround		OFF	0
Бб	11G	Ground		ON	Battery voltage
	116			OFF	0

Is the inspection result normal?

YES >> GO TO 7.

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

6. CHECK FILAMENT

Check the filament for damage or blown.

Refer to DEF-77, "Inspection and Repair".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair filament.

7. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER

Component Function Check

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1. CHECK DOOR MIRROR DEFOGGER

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

Is the inspection result normal?

YES >> Door mirror defogger function is OK.

NO >> Refer to <u>DEF-15</u>, "<u>Diagnosis Procedure</u>".

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Diagnosis Procedure

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.

(+) Fuse block (J/B)		(-) Condition		tion	Voltage (V) (Approx.)
Connector	Terminal				(+ +)
	00		Rear window defogger switch	ON	Battery voltage
M3	9C	Ground		OFF	0
IVIS	10C	Glound		ON	Battery voltage
			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-42, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

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DRIVER SIDE DOOR MIRROR DEFOGGER

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< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Component Function Check

1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
- 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 <u>DEF-16</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK DOOR MIRROR DEFOGGER (DRIVER SIDE) 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.

	+) (driver side)	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(Арргох.)
	7	Ground	Rear window defogger	ON	Battery voltage
Ъ3	D3 / Glound	switch	OFF	0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR MIRROR DEFOGGER (DRIVER SIDE) CIRCUIT

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

Fuse bl	Fuse block (J/B)		Door mirror (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M3	10C	D3	7	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK DOOR MIRROR DEFOGGER (DRIVER SIDE) GROUND CIRCUIT

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

Door mirror	(driver side)		Continuity
Connector	Terminal	Ground	Continuity
D3	19		Existed

Is the inspection result normal?

YES >> Replace glass mirror (driver side).

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident.
Refer to <u>GI-42</u>, "<u>Intermittent Incident</u>".

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PASSENGER SIDE DOOR MIRROR DEFOGGER

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< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Component Function Check

1. CHECK DOOR MIRROR DEFOGGER (PASSENGER SIDE)

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
- 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 <u>DEF-18</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK DOOR MIRROR DEFOGGER (PASSENGER SIDE) 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.

(-	+)				V 16 0.0
Door mirror (p	assenger side)	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(/ .pp. 3/)
D33	7	Ground	Rear window defogger	ON	Battery voltage
D33	D33 /	Glound	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR MIRROR DEFOGGER (PASSENGER SIDE) CIRCUIT

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

Fuse bl	Fuse block (J/B)		Door mirror (passenger side)	
Connector	Terminal	Connector	Terminal	Continuity
M3	9C	D33	7	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3.CHECK DOOR MIRROR DEFOGGER (PASSENGER SIDE) GROUND CIRCUIT

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

Door mirror (p	assenger side)		Continuity
Connector	Terminal	Ground	Continuity
D33	19		Existed

Is the inspection result normal?

YES >> Replace glass mirror (passenger side).

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident.
Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

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REAR WINDOW DEFOGGER SYSTEM

Wiring Diagram - DEFOGGER SYSTEM -

To base audio without navigation To BOSE audio without navigation To BOSE audio with navigation MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH) (M72) (3) To CAN system AV CONTROL UNIT (M210): (NV) (M202): (M204): IPDM E/R
(INTELLIGENT
POWER
DISTRIBUTION
MODULE
ENGINE ROOM) DATA LINE ⟨NV⟩: With NAVI ⟨ON⟩: Without NAVI CPU DATA LINE DATA LINK CONNECTOR M24 16 MB E100 **4**04 **₹** FUSE BLOCK (J/B) (M1), (M2), (M3), (B6) CONTROL MODULE), (M113), (M123) IGNITION SWITCH ON or START 10A BCM (BODY (M118), 10A REAR WINDOW DEFOGGER 0108, 0120 B27 (D101) 20A 20A 14 M124 M124 _ [33] D31 REAR WINDOW DEFOGGER RELAY DEFOGGER [a] 12 MS M5 10A BATTERY 2013/02/11

	21 GR -	23 Y		Connector No. D31	Connector Name WIRE TO WIRE	Connector Type TH40FW-CS15			5 2 3 2 1 3 7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2000			Terminal Color Of Signal Name [Specification]		+	4	_	12 P -	13 LG -	-	15 W	16 BR -	╀	╀	: >	20 B . IM/th BOSE audiol	+	: 88	+	0 >	, a 27	+	A 6	25 38	┪	29 SHIELD -	M	-	32 BR -	H	34 GR	H	43 Y	
	36 LG .	38 P	40 BR 41 L -	GR	43 BR - [With automatic drive positioner] 43 O - [Without automatic drive positioner]	GR .	+	45 Y - [With automatic drive positioner]	╁	^	_	_	Υ ()	+	2 2	- Y 95			Connector No. D3	Complete Name Coop (1997) (1997)		Connector Type TH24MW-NH		•			7 6 5 3 2		11 01 61 17 77 07 47			No Mice Signal Name [Specification]	П	0	3 B SIDE CAMERA LH COMM	*	\dashv	×		11 P	12 0 -	14 LG -	9	18 W SIDE CAMERA LH GND	L
	Cornector No. D1	Connector Type TH40FW-CS15				22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25		Color Of	No. Wire Signal Name [Specification]	1 R	+		M.	+) C	┨		-	10 BR -	11 P .	H	13 B	- 14 Y	15 W	╁	- M 21	+	╀	╀	23	+	_ G	+	+	25 GK -	+	┪	σ̈́	-	30 G	H	32 G -	┞	34 SB -	35 R
DEFOGGER	Connector No. B6	Connector Type NS12FBR-CS			56 46	1.3.			No. Wire Signal Name (Specification)	10G W -		12G GR	4G R	- 51 5e		- 1	Connector No. B27	Compositor Namo	COMPACIO NAME TO VILLE	Connector Type M06MW-LC					123	H.V.				No Mire Signal Name [Specification]		_ <	t	$^{+}$		5									

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97 R 98 SHELD 99 L 90 L 90 L 90 Corrector Name PLSE BLOCK (JIB) Corrector Name PLSE BLOCK (JIB)	1.5. 3A 24.14 3A C C C C C C C C C	SA V C C C C C C C C C	
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_		77	4	- [Without ICC]	16	≻		Connector Type	Connector Type NS16FW-CS
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20 BG		78	R	- [Without ICC]	Conne	Connector No.	M72		[
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22 W		79	> ~	- [With ICC]	3	Connector Name	MULTIFUNCTION SWITCH	Ę	44 45 44 45
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33 B		88	GR					8	ALL DOOR, FUEL LID LOCK OUTPUT
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35 R		91	*		<u>S</u>	Wire	Signal Name [Specification]	10 BR	REAR DO
36 SHIELD	-	92	> -		_	В	GROUND	11	BAT (FUSE)
		93	BR BR		3	>	ACC	13 B	GROUND
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39 BR		92	B GR	•	2	А	ILL CONT	15 Y	ACC IND
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42 BG	-	46	٦		8	97	AV COMM (L)	18 BG	TURN SIGNAL LH (FRONT)

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< DTC/CIRCUIT DIAGNOSIS >

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			49	9	COMPOSITE IMAGE SIGNAL GND				
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ļ		_	7/	¥ I	MICKUPHONE VCC				
S	Connector Type	IH32FW-NH	5	¥	COMM (CONI-DISP)				
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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value INFOID:0000000009357371

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 ITE	ΞM
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Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
I IX WIF LIX I II	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
FR WIFER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
TR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
I IX WIF LIX IIN I	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
I K WIF LK STOF	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
KK WIFEK ON	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
KK WIPEK INI	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
KK WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
KK WIFEK STOP	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
TORN SIGNAL IX	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
TORN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAWII OW	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
TH BEAW GVV	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
TIE/O E/(WI OW I	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
, to to Lighti ovv	Lighting switch AUTO	On

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Monitor Item	Condition	Value/Status
FR FOG SW	Front fog lamp switch OFF	Off
-K FOG 3W	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
DOOK SW-AS	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
DOOK SW-KK	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
DOOK SW-KL	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
DOOK SW-DK	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
SDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
NET CTL LK-SW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
VET CTL OIN-SVV	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
IAZAND SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
HADD OF EN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
DKE I OCK	LOCK button of the key is not pressed	Off
RKE-LOCK	LOCK button of the key is pressed	On
DKE TINI OCK	UNLOCK button of the key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
DKE DVIIC	PANIC button of the key is not pressed	Off
RKE-PANIC	PANIC button of the key is pressed	On
	UNLOCK button of the key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the key is pressed and held	On

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of the key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
DEO CW. DD	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
250 014/ 40	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
DEO CW. DD/TD	Back door request switch is not pressed	Off
REQ SW -BD/TR	Back door request switch is pressed	On
	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
GN 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
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
DDAKE OM O	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
DET DN/N CW/	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
JNLK SEN -DR	Driver door is unlocked	Off
DINEIX OF IN -DIX	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
- UUN UVV -IPUIVI	Push-button ignition switch (push-switch) is pressed	On
CN DIV1 F/D	Ignition switch in OFF or ACC position	Off
GN RLY1 -F/B	Ignition switch in ON position	On
DETE OW IDDIA	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
DET DN IDDI	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On

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Monitor Item	Condition	Value/Status
CET D. MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
SI I IN -IVIL I	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
LINGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Shift position is in the P position)	Reset
	Ignition switch ON	Set
PRMT ENG STRT	The engine start is prohibited	Reset
TRIVIT ENG OTHE	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The key is not inserted into key slot	Off
NET 5W -SEOT	The key is inserted into key slot	On
RKE OPE COUN1	During the operation of the key	Operation frequency of the key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet
OOM NIN ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet
JOINI IRIVI ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	Done
	The key ID that the key slot receives does not accord with the third key	
CONFIRM ID3	ID registered to BCM.	Yet

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet	
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done	
CONFIDMEN	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet	
CONFIRM ID1	The key ID that the key slot receives accords with the first key ID registered to BCM.	Done	
TP 4	The ID of fourth key is not registered to BCM	Yet	
1P 4	The ID of fourth key is registered to BCM	Done	
TP 3	The ID of third key is not registered to BCM	Yet	
IF 3	The ID of third key is registered to BCM	Done	
TD 0	The ID of second key is not registered to BCM	Yet	
TP 2	The ID of second key is registered to BCM	Done	
TD 4	The ID of first key is not registered to BCM	Yet	
TP 1	The ID of first key is registered to BCM	Done	
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire	
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire	
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire	
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire	
ID DECOT EL 4	ID of front LH tire transmitter is registered	Done	
ID REGST FL1	ID of front LH tire transmitter is not registered	Yet	
ID DECCT ED4	ID of front RH tire transmitter is registered	Done	
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet	
ID DECOT DD4	ID of rear RH tire transmitter is registered	Done	
ID REGST RR1	ID of rear RH tire transmitter is not registered	Yet	
ID DECCE DI 4	ID of rear LH tire transmitter is registered	Done	
ID REGST RL1	ID of rear LH tire transmitter is not registered	Yet	
MADNING LAMP	Tire pressure indicator OFF	Off	
WARNING LAMP	Tire pressure indicator ON	On	
DUZZED	Tire pressure warning alarm is not sounding	Off	
BUZZER	Tire pressure warning alarm is sounding	On	

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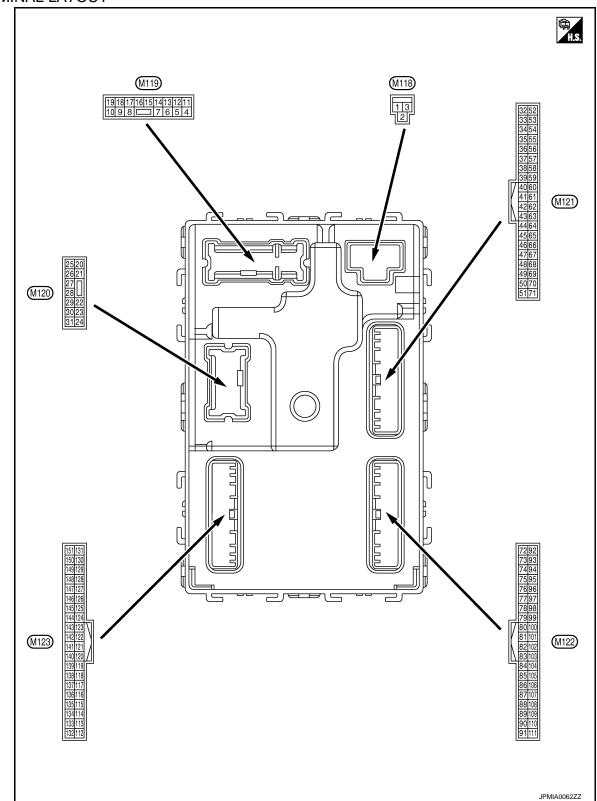
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TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. Description											
	e color)	Signal name	Input/ Output	Condition		Value (Approx.)	Α				
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	В				
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage	C				
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	ı	Battery voltage					
4		Late de la constante de la con		Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V					
4 (LG)	Ground	Interior room lamp power supply	Output	ed.	battery saver is not activator room lamp power supply)	Battery voltage	Е				
5	Cround	Passenger door UN-	Outrout		UNLOCK (Actuator is activated)	Battery voltage					
(L)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V	F				
7	Ground	Step lamp	Output	Otan Inna	ON	0 V	(-				
(Y)	Glouria	Step lamp	Output	Step lamp	OFF	Battery voltage					
8		All doors, fuel lid LOCK	All doors, fuel lid	All doors, fuel lid	All doors, fuel lid	All doors, fuel lid	Outout	All doors	LOCK (Actuator is activated)	Battery voltage	-
(V)			Output	ut All doors	Other than LOCK (Actuator is not activated)	0 V					
9	Cround	Driver door, fuel lid UNLOCK	Output	utput Driver door	UNLOCK (Actuator is activated)	Battery voltage	I				
(G)			Output		Other than UNLOCK (Actuator is not activated)	0 V					
10	Rear RH door and Ground rear LH door UN-		Output	Output Rear RH door	UNLOCK (Actuator is activated)	Battery voltage					
(BR)	Ground	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V	ŀ				
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	DI				
13 (B)	Ground	Ground	_	Ignition switch ON		0 V					
					OFF	0 V	1				
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 JSNIA0010GB	N C				
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON ACC	Battery voltage 0 V					

Terminal No. (Wire color)		Description				Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0 V	
					Turn signal switch OFF	1 s РКID0926E 6.5 V	
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
19	Cround	Room lamp timer	Output	Interior room	OFF	Battery voltage	
(V)	Ground	control		lamp	ON	0 V	
					Turn signal switch OFF	0 V	
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
23	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)	Battery voltage	
(G)					Other than OPEN (Back door opener actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
26		Rear wiper	Output	Rear wiper	OFF (Stopped)	6.5 V 0 V	
26 (G)	Ground				ON (Operated)	Battery voltage	

Terminal No. Description (Wire color)					Value		
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
34		Luggaga raom opton		Ignition quitob	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	C
(SB) Ground Luggal na (–)	Luggage room anten- na (–)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E	
35		Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G
(V) Ground	na (+)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J N	
				When the back	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	N
38 (B)	Ground	Back door antenna (-)	Output	door opener request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	F

Terminal No. (Wire color)		Description				Value	
+	e color)	Signal name	Input/ Output	Condition		(Approx.)	
39	Ground	Back door antenna		When the back door opener re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB	
(W)	Glound	(+)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage	
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V	
52	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	Battery voltage	
(SB)					When selector lever is not in P or N position	0 V	
60		Push-button ignition		Push-button igni-	Pressed	0 V	
(BR)	Ground	switch (Push switch)	Input	tion switch (push switch)	Not pressed	Battery voltage	
					ON (Pressed)	0 V	
61 (W)	Ground	Back door opener request switch	Input	Back door opener request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	
64		Intelligent Key warn-		Intelligent Key	Sounding	0 V	
(V)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	Battery voltage	
65 (BG)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms	
					No Change St	1.0 V	
					Not in stop position	0 V	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
					Pressed	0 V
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close) ON (Door open)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					5.1 (Boot opon)	- V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V

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	ninal No. e color)	Description			O an alitica	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
74		Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(SB)	Ground	tenna (-)		quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
75	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(GR)	Glound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
76	Cround	Driver door antenna (-)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	ninal No.	Description				Value	٨
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
				When the driver	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	С
77 (LG)	Ground	Driver door antenna (+)	Output	door request switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB	E
78		Room antenna 1 (–)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
78 (Y) Gro	Ground	(Instrument panel)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	J K
70					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	M
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	O

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
82	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V	
(R)	Ground	block (J/B)] control	Output	ignition switch	ON	Battery voltage	
83		Remote keyless entry	lonut/	During waiting		(V) 15 10 5 1 ms JMKIA0064GB	
(Y)	Ground	receiver communication	Input/ Output	When operating e	ither button on the key	(V) 15 10 5 0 1 ms JMKIA0065GB	

< ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Value	Λ
+ (Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	В
						1.4 V	D
					Front fog lamp switch ON	(V) 15 10 0	Е
					(Wiper intermittent dial 4)	2 ms	F
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch		JРМIА0037GB 1.3 V	G
(DIV)				SWILCH	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5	Н
						JPMIA0039GB 1.3 V	I
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	(V) 15 10 5 0	J K
					Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	2 ms JPMIA0040GB	DEF

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	inal No. e color)	Description	T		One distant	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
90 (P)	Ground	CAN-L	Input/ Output	_		_
91 (L)	Ground	CAN-H	Input/ Output	_		_

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
			-		OFF	Battery voltage
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB 6.5 V
					ON	0 V
93			•		OFF or ACC	Battery voltage
(V)	Ground	ON indicator lamp	Output	Ignition switch	ON	0 V
94	0	Doddle Love & C	0 : :	Desilal de la co	OFF	Battery voltage
(Y)	Ground	Puddle lamp control	Output	Puddle lamp	ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Giouna	ACC Telay CUTILIOI	Output	IGHILIOH SWILCH	ACC or ON	Battery voltage
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	_		Battery voltage
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(R)	Ground	tion switch	iriput	Selector level	Any position other than P	Battery voltage
					ON (Pressed)	0 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
100		Blower fan motor re-			OFF or ACC	1.0 V
102 (BG)	Ground	lay control	Output	Ignition switch	ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF		Battery voltage

	ninal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

	inal No. e color)	Description			0 150	Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	Π
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	С
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	E
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	G H
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	J K
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0	M
						JPMIA0039GB 1.3 V	0

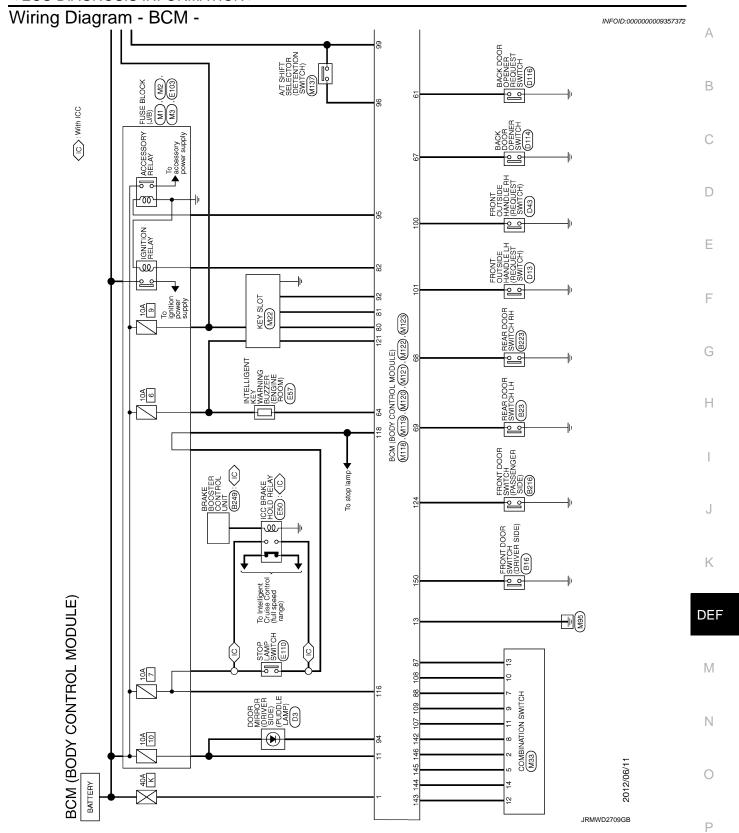
	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V

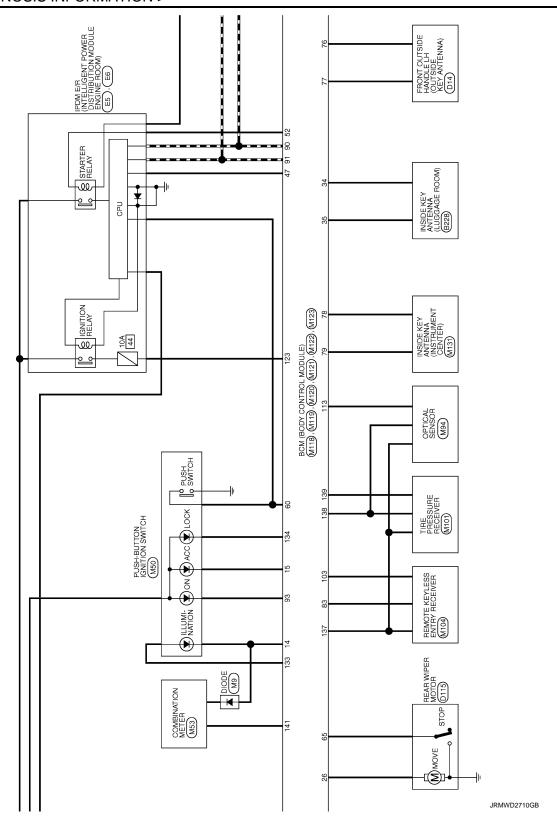
Terminal No. (Wire color)		Description				Value	
(Wire	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	F
113			_	Ignition switch	When bright outside of the vehicle	Close to 5 V	Е
(P)	Ground	Optical sensor	Input	ŎN	When dark outside of the vehicle	Close to 0 V	
116 (SB)	Ground	Stop lamp switch 1	Input	_		Battery voltage	(
		Stop lamp switch 2		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V	
118	Ground	(Without ICC)	Input	Stop lamp switch	ON (Brake pedal is depressed)	Battery voltage	
(P)	Giodila	Stop lamp switch 2	iliput	Stop lamp switch pressed) and ICC	OFF (Brake pedal is not de- brake hold relay OFF	0 V	E
		(With ICC)			ON (Brake pedal is de- rake hold relay ON	Battery voltage	F
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB	(-
					UNLOCK status (Unlock switch sensor ON)	1.1 V 0 V	
121	0	Marrial arritals	la a cet	When the key is ir	nserted into key slot	Battery voltage	
(BR)	Ground	Key slot switch	Input	When the key is n	ot inserted into key slot	0 V	
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V	
(W)	Ground	IGN reedback	Input	Ignition switch	ON	Battery voltage	
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	D
					ON (Door open)	0 V	1
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON	I	(V) 15 10 5 0	(
						JPMIA0013GB 10.2 V	
ĺ			1	Ignition switch OFF or ACC		10.2 V	

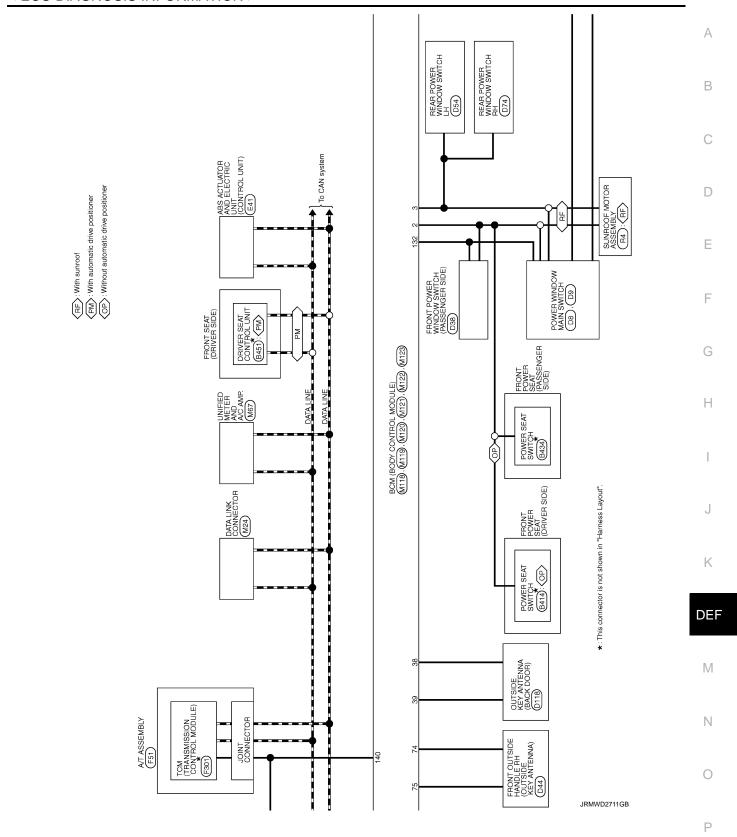
	inal No. e color)	Description			0 10	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					ON (Tail lamps OFF)	9.5 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15 10 5 0 JPMIA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF ON	Battery voltage 0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(Y)	0.000	power supply	- Carpar		ACC or ON	5.0 V
139	Ground	Tire pressure receiv-	Input/	Ignition switch ON	Standby state	(V) 6 4 2 0 *** 0.2s
(L)	Glodina	er communication	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	Battery voltage
(GR)		position	1 4.5		Except P and N positions	0 V
					ON	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s
					OFF	11.3 V
					OFF	Battery voltage

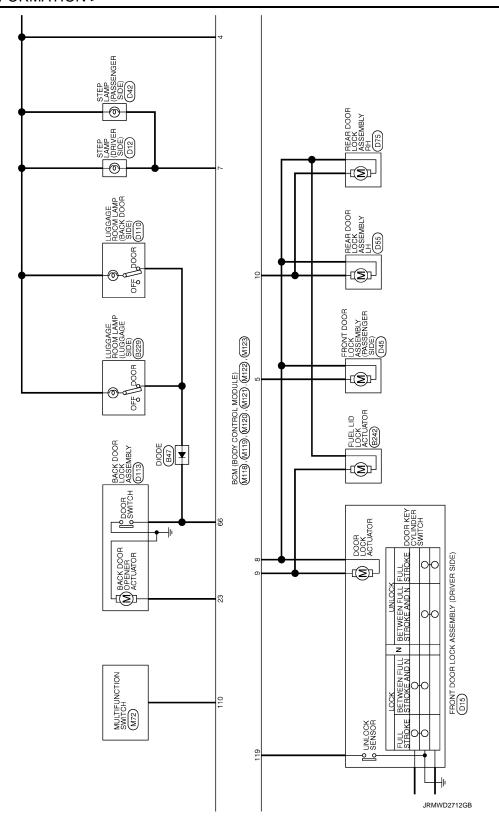
	inal No.	Description				Value	٨
(Wire	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	Α
					All switches OFF	0 V	В
					Lighting switch 1ST		D
				Combination	Lighting switch HI	(V)	
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10	С
(BG)		OUTPUT 5		(Wiper intermittent dial 4)	Turn signal switch RH	0	D
					All switches OFF (Wiper intermittent dial 4)	0 V	Е
					Front wiper switch HI (Wiper intermittent dial 4)		_
143	Ground	Combination switch	Output	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10	F
(P)	Glound	OUTPUT 1	Output	switch	Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2	5 0 	G
					Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	JPMIA0032GB 10.7 V	Н
					All switches OFF (Wiper intermittent dial 4)	0 V	I
					Front washer switch ON (Wiper intermittent dial 4)		
144		Combination switch		Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15	J
(G)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	10 5 0	K
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB	DEF
					All switches OFF	0 V	M
					Front wiper switch INT		4 V I
				Combination	Front wiper switch LO	(V) 15	
145 (L)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB	N O
						10.7 V	

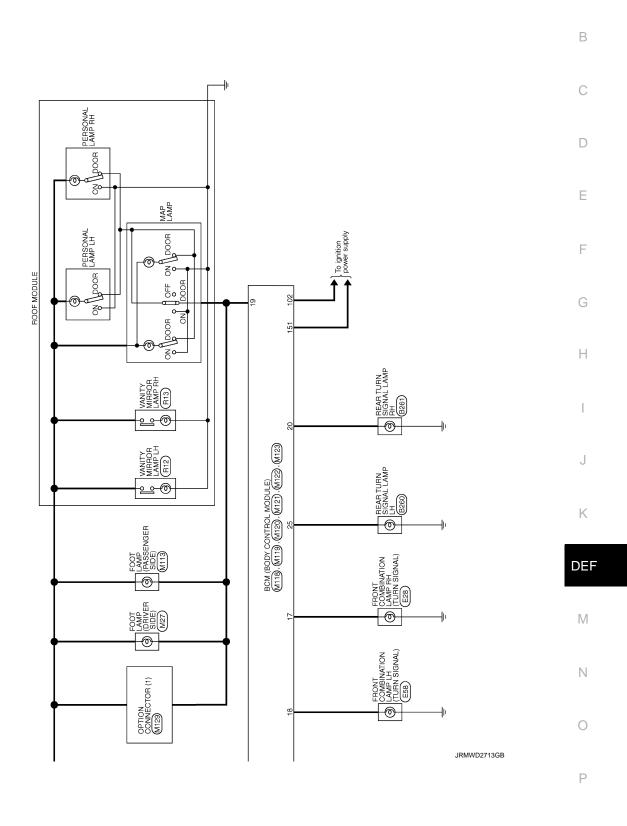
	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)		OUTPUT 4	•	(Wiper intermit- tent dial 4)	Turn signal switch LH	0
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					ON (Door open)	0 V
151	Crownd	Rear window defog-	Outrout	Rear window de-	Active	0 V
(G)	Ground	ger relay control	Output	fogger	Not activated	Battery voltage











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Revision: 2013 March **DEF-55** 2014 QX50

BCM (BODY CONTROL MODULE)	Terminal Color Of Circust Name (Consultantion)	Connector No. B228	Cornector No. B242
Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	No. Wire Ognerinating Epocinication	Connector Name NSIDE KEY ANTENNA (LUGGAGE ROCM)	Connector Name FUEL LID LOCK ACTUATOR
Connector Type A03FW	2 L -	Connector Type RK02FGY	Connector Type M04FW-LC
	Connector No. B216	<	
T C	و ا		
	Connector Type A03FW	1.3.	H.S.
0 		0 0 0 0 0 0 0 0 0 0	0 0 0 0 0
Ferminal Color Of Signal Name [Specification] No. Wire		erminal Color Of Signal Name [Specification] No. Wire	Ferminal Color Of Signal Name [Specification] No. Wire
2 V	H.S.	1 V	2 V
Connector No. B23			
e	lal	Connector No. B229	Connector No. B249
Connector Type A03FW	No. Wire 2 L -	Connector Name LUGGAGE ROOM LAMP (LUGGAGE SIDE)	Connector Name BRAKE BOOSTER CONTROL UNIT
		Connector Type TK03FW	Connector Type TK24FGY
	Connector No. B223		
<u>√</u>	Connector Name REAR DOOR SWITCH RH		333
	Connector Type A03FW	H.S.	F. S.
			140 47
Terminal Color Of Signal Name [Specification] No. Wire	K	Terminal Color Of	Terminal Color Of
Н	2	No. Wire Signal Name [Specification]	Signal N
		1 GR	33 BR IGNITION
Connector No. B47		-	3 0
۵ ا	ē		æ
October 7.00	Wire		47 V BRAKE HOLD RLY DRIVE SIGNAL
Connector Type Z4335_C9900	2 BK		
T S			

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< ECU DIAGNOSIS INFORMATION >

		JRMWD8154GB
BCM (BODY CONTROL MODULE) Connector Name REAR TURN SIGNAL LAMP LH Connector Type HSGZFG-W	Terminal Color Of Nune (Specification) No. Wire Signal Name (Specification) Connector Name REAR TURN SIGNAL LAMP RH Connector Type HS0275-W Terminal Color Of Name (Specification) No. Wire Signal Name (Specification)	M N
Connector No. E414 Connector Name POWER SEAT SWITCH	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) No. N	Terminal Color Of Signal Name (Specification) No. Wyee No. Wyee Signal Name (Specification) No. Wyee No. No.
Corrector No. B451 Corrector Type THO2FW THO2FW THO3FW THO	No. Name Specification No. Wire Name Specification No. Wire Name 1	F G H
Cornector No. Connector Name Connec		Terminal (A)
D3 DOOR MIRROR (DRIVE TH24AWV-NH1 2 1 10 7 6 10 10 10 10 10 10 10	Color Of Signal Name Wine Signal Name Signal CAMERAL	1 2 3 4 5 6 7
R SIDE)	cification] HOOMM WER SUPPLY WER SUPPLY MAGE GND LHGND SWITCH	Ceffication 1 15 B
		/ 1

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Corrector No. D42	H.S.	Terminal Color Of Signal Name Specification No. Wife	Corrector Name FRONT OUTS DE HANDLE RH (REQUEST SWITCH) Corrector Type RK02FL	H.S.	Terminal Color Of Signal Name (Specification) No. Wire W 	TTTTT	
Gornector No. D15 Cornector Name PROVIDOR LOCK ASSEMBLY (DRIVER SIDE) Cornector Type E08F0Y-RS	H.S. (123456)	Nal Col	5 Y	Cornector Name PROVITOWER WINDOW BWITCH (PASSENGER SDE) Connector Type NS16FW.CS		No. Wire 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	+++
Connector No. D13 Connector Name Recurrent Connector Type RK02FL	H.S.	Terminal Color Of Signal Name (Specification) No. Wire	Connector No. D14 Connector Name Provi cursic lives a House Key Anterway Connector Type RK02MGY	H.S.	Terminal Color Of		
BCM (BODY CONTROL MODULE) 5 0 6 7 8 1 8 1 9 0	7	Cornector No. D9 Cornector Name POWER WINDOW MAIN SWITCH Cornector Type NSO3FW-CS	H.S.	Terminal Color Of Signal Name [Specification] No. Wire	Connector No. D12 Connector Name STEP LAMP (DRIVER SIDE) Connector Type TB02FW	H.S.	Terminal Color Of Signal Name [Specification] No. Wire 1 R

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< ECU DIAGNOSIS INFORMATION >

Signal Name [Specification] Y Y Signal Name [Specification] A A Signal Name [Specification]	В
D110 WIGGARD TROSFIN NSG4FP	С
Corrector No. Corrector Name Terminal Color Of No. Wire Townword Name Corrector Name Corrector Name Townword No. Corrector No. Corrector Name Townword No. Corrector Name Townword No. Corrector No. Corrector No. Corrector No. Townword No. Townword No. Townword No. Townword No. Townword No. Corrector Type Townword No. Townword No	D
SEMBLY RH SEMBLY RH Coffication]	E
PASAR POWER WINDOW SWITCH RH INSOGRW.CS Signal Name [Specification]	F
Connector No. D74	G H
REAR POWER WINDOW SWITCH LH NSDBFW-CS Signal Name [Specification]	J
Connector No. D04	K
	DEF
Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)	M
HS. HS. HS. HS. HS. HS.	N
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BCM (BODY CONTROL MODULE) Connector Name BACK DOOR OPENER SWITCH Connector Type TYGDMBR-P	Corrector No. D116 Corrector Name BACK DOOR OPENER REQUEST Corrector Type TK02MBR-P	Connector No. Connector Name	o. E5 POWER DETREUTION MODULE STATE OF TREUTION MODULE STATE OF THE ZORY TO THE TREUTION MODULE THE ZORY TO THE ZORY THE ZORY TO THE ZORY	Connector No. Connector Name Connector Type	E28 FRONT COMBINATION LAWP RH RS08FB-PR	
H.S.	H.S.	HS		H.S.	2 3 4 5 6 7 8	
Terminal Color Of Signal Name (Specification) No. Wire	Terminal Color Of Signal Name [Specification] No. Wire Wire	Terminal Color Of No. Wire 4 V 5 L 7 R	Solor Off Signal Name [Specification] Wire L R R	Terminal Color Ol	Of Signal Name [Specification]	
Connector No. D115 Connector Name REAR WIPER MOTOR Connector Type CJOAFW-1V	Connector No. D118 Connector Name OUTSIDE KEY ANTENNA (BACK DOOR) Connector Type RY02FGY	13 14 19 19 25 25 25 25	MM MM	5 BG V V V R BR R BR R BR R BR R BR R BR		
H.S.	H.S.	++++	BG B	Connector No. Connector Name Connector Type	E41 BAAAZEB-AHZ4-LH	
a C	Terminal Color Of Signal Name (Specification) Wee	Connector No. Connector Name Connector Type	o. E6 cou en writt Locar rowen ostreumon woode envire noon, ype TH08FW-NH	HS		
B		E S	14 40 39	Terminal Color Of No. Wire 1 B 2 G 2 G 3 R 4 B B 4 B B Color Of Terminal Color Of	Signal Name [Specification] GROUND GROUND UBMR UBMR GROUND	
		Terminal Color Of No. Wire 39 P L 40 L 41 BIW 43 SB 44 BR 45 G G	Wire Signal Name (Specification) Wire L L BW SB SB SB G G G Signal Name (Specification)	1 2 2		
		L	~	19 P	TSU	

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< ECU DIAGNOSIS INFORMATION >

Cornector No. F301	
Cornector No. E110	
Corrector No. ESS	
BCM (BODY CONTROL MODULE) 25	
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BCM (BODY CONTROL MODULE)	Connector No. M9	Connector No. M24	Connector No. M33	
Connector Name FUSE BLOCK (J/B)	Connector Name DIODE	Connector Name DATA LINK CONNECTOR	Connector Name COMBINATION SWITCH	
Connector Type NS10FW-CS	Connector Type 24335_C9900	Connector Type BD16FW	Connector Type TH16FW-NH	
H.S. 98 88 78 66 58	H.S.	H.S.	1 2 3 4 5 6 6 4 5 6 6 4 5 6 6 4 5 6 6 6 6	
<u> </u>			0 2 1 1 0 1 2 0 7	
Terminal Color Of Signal Name [Specification]				
Н	Н	\vdash	Ь	
Н	2 W -	\dashv	SB	
> PR 98		n -	3 GK FKWASHEK(+)	
- d 87	Connector No. M22	+	70	
⊢	$\overline{}$	9 8	6 B GROUND	
- BS 86		11 SB -		
	Connector Type TH12FW-NH	14 P	8 BG OUTPUT 5	
		16 Y -	Υ	
Connector No. M3			œ	
Connector Name FUSE BLOCK (J/B)			9] •	
CO MILOROIS		Connector No. M/2/	a 8	
Connector Type NSTZFW-CS	1 2 3 5 6	Connector Name FOOT LAMP (DRIVER SIDE)	13 BK INPUIS	
_	7 11	Connector Type A02FW		
	la l		Connector No. M50	
30 101 101 100	No. Wire	K	Connector Name PUSH-BUTTON IGNITION SWITCH	
22 22 22 22 22 22 22 22 22 22 22 22 22			Connector Type TK08FBR	
	t	H.3.		
a	>		[
Wire				
10C L	7 B GROUND	Terminal Color Of Signal Name [Specification]	7 1	
4	אפ	D Wille	8 4 5 6 7 8	
22 S		2 BR		
+				
9C BG -			la la	
			No. Wire	
			2 W	
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< ECU DIAGNOSIS INFORMATION >

	Connector No. M101	Connector Name TIRE PRESSURE RECEIVER	Connector Type TK04FW	_	H.S.	Terminal Color Of Signal Name [Specification] No. Wire	H	2 L SIGNAL	1231140	- 1			Connector Type JAB04FB				1 2 4			Terminal Color Of Signal Massa (Specification)	Signal N	SIGNAL OFFICE	. 97										
- 1	Connector No. M/2	Connector Name MULTIFUNCTION SWITCH	Connector Type TH16FW-NH		\$\frac{1}{8} \frac{1}{8} \frac{1}	Terminal Color Of Signal Name [Specification]	В	3 V	⊒ ∠ ≻	8S S	9 B SW GND	Y DISP	16 G HAZARDON		Connector No. M94	Connector Name OPTICAL SENSOR	\neg	Colliector type Trooptw	_		₩ 	123			nal	No. Wire	- a	3 B GROUND					
	Connector No. M6/	Connector Name UNIFIED METER AND A/C AMP.	Connector Type TH32FW-NH		21 11 10 10 10 10 10 10 10 10 10 10 10 10	Terminal Color Of Signal Name [Specification] No. Wire	>	42 Y FUEL LEVEL SENSOR SIGNAL	2 97	а ₂	46 BG SUNILOAD SENSOR SIGNAL 47 G FORMING VITABLE COOR DETECTING SENSOR SIGNAL	0	Y BATTER	55 B GROUND	W BR	BR FI	59 GR INTAKE SENSOR GROUND 60 I INTAKE SENSOR GROUND	- H	+	63 R	g .	70 P FACH DOOR MOTOR POWER SINDS V	ź 💩	72 P CAN-L									
BCM (BODY CONTROL MODULE)	+	n	Connector No M53	Connector Name COMBINATION METER	Connector Type TTH40FW-NH	1 2 3 3 5 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10		10-1-01		GR	3 GR COMMUNICATION SIGNAL (MPTER-AMP.)	B GROUN	A	7 BR AIR BAG SIGNAL	о в	B METER CON	8 0	z Sg	┰	æ	Y COMMUNICATION SIG	20 K VEHICLE SPEED SIGNAL (9-PULSE)	W BRAKE FLUID LEVEL :	SB SEAT BELT BUCKLE SWITCH:	Н	33 B IIIIMINATION CONTROL SIGNAL	SEI ECT SWITC	37 SB ENTER SWITCH SIGNAL	L TRIP A/B RESET S/	P ILLUMINATION CONTROL	BG ILLUMINATION CONTROL		

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BCM (BODY CONTROL MODULE)	Connector No. M110	of rotation	Mator	S	9	NATS ANT AMD
College of the Colleg	Τ	O BOOK	17110	3 2	į s	CAN THAN STAIN
Connector Name FOOT LAMP (PASSENGER SIDE)	Connector Name BCM (BODY CONTROL MODULE)	Connector Name	BCM (BODY CONTROL MODULE)	- c	2	ION BELAY (E/B) CONT
Commontan Time ADDEM	Commender Time NO48EDI OS	Connector Tree	THACK OF THE PARTY	20 00	د }	KEN TES TAMBY BECENTED COMM
Colliscial type Acel w	┑.	odillectol i she		8 2	- 6	COMBLSW INPIT 5
		_		8	<u> </u>	COMBI SW INPITES
E				6	<u>a</u>	CANE
	4 5 7 8 9 10			9	-	CAN-H
1 C	14 42 44 45	SE.	33 38	95	PP	KEY SLOT ILL CONT
	1 10 11	Ż	28 88 88 E E E E E E E E E E E E E E E E	93	>	QN IND
				94	>	PUDDLE LAMP CONT
	-			95	BB	ACC RELAY CONT
Terminal Color Of Signal Name (Specification)	Terminal Color Of Signal Name [Specification]	Terminal Color Of	Of Signal Name [Specification]	96	R a	A/T SHIFT SELECTOR POWER SUPPLY
+	+	+	LUGGAGE BOOM ANT-	100	2 0	PASSENGER DOOR REQUEST SW
2 BR	t	ł	LUGGAGE ROOM ANT+	101	SB	DRIVER DOOR REQUEST SW
	>	- B	BACK DOOR ANT-	102	BG	BLOWER FAN MOTOR RELAY CONT
	8 V ALL DOOR, FUEL LID LOCK OUTPUT	F	BACK DOOR ANT+	103	97	KEYLESS ENTRY RECEIVER POWER SUPPLY
Connector No. M118	9 G DRIVER DOOR, FUEL LID UNLOCK OUTPU	Y Y	IGN RELAY (IPDM E/R) CONT	107	PI	COMBI SW INPUT 1
Г	10 BR REAR DOOR UNLOCK OUTPUT	52 SB	STARTER RELAY CONT	108	œ	COMBI SW INPUT 4
Connector Name BCM (BODY CONTROL MODULE)	11 R BAT (FUSE)	60 BR	PUSHSW	109	≻	COMBI SW INPUT 2
Connector Type M03FB-LC	13 B GROUND	61 W	BACK DOOR OPENER REQUEST SW	110	Ø	HAZARD SW
	14 W PUSHBUTTON IGNITION SWILL GND	64 V	I-KEY WARN BUZZER (ENG ROOM)			
	15 Y ACC IND	65 BG	REAR WIPER STOP POSITION			
<u> </u>	17 W TURN SIGNAL RH (FRONT)	66 R	BACK DOOR SW	Connec	Connector No.	M123
1 3	BG T	Н	BACK DOOR OPENER SW	Janua	Connector Name	BCM (BODY CONTBO! MODI!! E)
	19 V INT ROOM LAMP CONT	_	REAR RH DOOR SW	50	O LIGHT	
		69 R	REAR LH DOOR SW	Connec	Connector Type	TH40FG-NH
]		F		-	•	
	Connector No. M120		0077		1	
Terminal Color Of Signal Name [Specification]	Connector Name BCM (BODY CONTROL MODULE)	Connector No.	M122		•	
+	Connector Tyne NS12FW-CS	Connector Name	BCM (BODY CONTROL MODULE)	_	Ġ	E11 81 611 131 E22-62
POWER WINDOW PO	٦.	Connector Type	TH40FB-NH		į	द्या द्या ह्या ह्या ह्या ह्या ह्या ह्या ह्या ह
П	_					
		_				
	20 23			Terming	Terminal Color Of	f Signal Name [Specification]
	60 80			ġ	Wire	
	102 67	٠/ ۲		113	a 8	OPLICAL SENSOR
				116	SB	STOP LAMP SW 1
		-		118	۵,	STOP LAMP SW 2
	<u>a</u>			119	eg S	DR DOOR UNLOCK SENSOR
	Wire	la E	Sional Name [Snecification]	121	æ	KEY SLOT SW
	>	7		123	≯	IGN F/B
	Ф	74 SB	PASSENGER DOOR ANT-	124	PC	PASSENGER DOOR SW
	_o	75 GR	PASSENGER DOOR ANT+	132	BR	POWER WINDOW SW COMM
	26 G REAR WIPER OUTPUT	\dashv	DRIVER DOOR ANT-	133	≷	PUSH-BUTTON IGNITION SW ILL POWER
		97 42	DRIVER DOOR ANT+	134	g g	LOCK IND
		+	ROOM ANIT-	13/	g ,	RECEIVER/SENSOR GND
		79 BR	ROOM AN11+	339	>	RECEIVER/SENSOR POWER SUPPLY

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Commondate No. 1913	Τ	Connector Name VANITY MIRROR LAMP LH	Connector Type MCA02FW			1	=	<u>ا</u>	7	Terminal Color Of Signal Name (Specification)	No. Wire Signal Marie Specification		2			Connector No. R13	LIG GMA I GOOGLIM VEHICLE		Connector Type MCA02FW				<u> </u>	2			lal C	No. Wire												
14407		A/T SHIFT SELECTOR	TH12FW-NH			7		1 2 3 4 5	7 8 9 10 11	Cincil Name Consideration	orginal realite [openitication]		-	-			-		,				BA		SUNROOF MOTOR ASSEMBLY	YEA10FGY		[F	1	7 8 9 10		Signal Name [Specification]	7400000	SW-BIT1	SW-BIT0	8+	SPEED SENSOR(2P)	TIMER(+IGN)	
Constant No	000000	Connector Name	Connector Type		1		•	SE.	1	Terminal Color Of	No. Wire	۱ ۸	2 V	3	4 B	5 6	7 R	8 SB	6	10 GR	T R		Connector No	000000000000000000000000000000000000000	Connector Name	Connector Type	٠		•	Ę	Ċ.		la C	NO.	1 GR	5 P	7 BR	-		ć
BCM (BODY CONTROL MODULE)	SHET NP	SECURITY IND LAMP CONT	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	REAR WINDOW DEFOGGER RELAY CONT	M129	Connector Name OPTION CONNECTOR (1)		TH08MW-NH			K	<u></u>	8	ď			Signal Name [Specification]					M131	NSIDE KEY ANTENNA (INSTRUMENT CENTER)	DK03E0X	MOZEGI	<		(1 <u> 2</u>))			Signal Name (Specification)	Office recinc Lobosinoscial		_
BCM (BOD	140 GB	┿	F	143 P	144 G	Н			151 G	Connector No.	Connector Name	COLLEGE OF SECTION	Connector Type		_	•		Ę	i I			Terminal Color Of	+	+	+		Connector No.	Connector Name	Commenter Time		_		SH				la C	No. Wire	1 BR	>

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Fail-safe

FAIL-SAFE CONTROL BY DTC

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

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
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 $ON \rightarrow OFF$
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stops.
- 2. Turn rear wiper switch OFF.
- 3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:0000000009357374

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

Priority	DTC
1	B2562: LOW VOLTAGE
2	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
3	B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING

< ECU DIAGNOSIS INFORMATION >

Priority	DTC	۸
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION	В
	 B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW 	С
4	 B2608: STARTER RELAY B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: ACC RELAY CIRC 	D
	 B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM 	Е
	 B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG 	F G
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR	Н
5	 C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR 	J
6	 C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT B2621: INSIDE ANTENNA B2623: INSIDE ANTENNA 	K

DTC Index

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-18, "COM-MON ITEM: CONSULT Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-41
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-42
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-43
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-40

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-43
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-44
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-45
B2195: ANTI SCANNING	×	_	_	_	SEC-46
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	SEC-47
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-49
B2557: VEHICLE SPEED	×	×	×	_	SEC-51
B2560: STARTER CONT RELAY	×	×	×		SEC-52
B2562: LOW VOLTAGE	_	×	_	_	BCS-44
B2601: SHIFT POSITION	×	×	×	_	SEC-53
B2602: SHIFT POSITION	×	×	×	_	SEC-56
B2603: SHIFT POSI STATUS	×	×	×		SEC-59
B2604: PNP SW	×	×	×	_	SEC-62
B2605: PNP SW	×	×	×	_	SEC-64
B2608: STARTER RELAY	×	×	×	_	SEC-66
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-68
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-71
B2618: BCM	×	×	×	_	PCS-61
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-73
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-76
B2621: INSIDE ANTENNA	_	×	_	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60
B26E1: ENG STATE NO RES	×	×	×	_	SEC-69
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-70
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	14/77 00
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-23</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	,
C1710: [NO DATA] RR	_	_	_	×	<u>WT-25</u>
C1711: [NO DATA] RL	_	_	_	×	

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-28
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>VV 1-20</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-30
C1734: CONTROL UNIT	_	_	_	×	WT-32

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REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OP-ERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OPERATE

Diagnosis Procedure

INFOID:0000000009063664

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to DEF-10, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-11, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

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:0000000009063665

1. CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to DEF-13, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

>> Repair or replace the malfunctioning parts. NO

2.CONFIRM THE OPERATION

Confirm the operation again

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

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DOOR MIRROR DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DOOR MIRROR DEFOGGER DOES NOT OPERATE

BOTH SIDES

BOTH SIDES : Description

INFOID:0000000009063666

Both door mirror defoggers do not operate.

BOTH SIDES: Diagnosis Procedure

INFOID:0000000009063667

1. CHECK DOOR MIRROR DEFOGGER

Check door mirror defogger.

Refer to DEF-15, "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-42, "Intermittent Incident".

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000009063668

Driver side door mirror defogger does not operate but passenger side door mirror defogger operates.

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000009063669

1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

Check driver side door mirror defogger.

Refer to DEF-16, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

 $2.\mathsf{confirm}$ the operation

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000009063670

Passenger side door mirror defogger does not operate but driver side door mirror defogger operates.

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000009063671

1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER.

Check passenger 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

DOOR MIRROR DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

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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:0000000009063672

1. CHECK AV CONTROL UNIT FUNCTION

Check that the AV control unit is operating normally.

- Base audio without navigation: Refer to AV-69, "Work Flow".
- BOSE audio without navigation: Refer to AV-228, "Work Flow (Multi AV)".
- BOSE audio with navigation: Refer to AV-421, "Work Flow (Multi AV)".

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-42, "Intermittent Incident".

NO >> GO TO 1.

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE Α Diagnosis Procedure INFOID:0000000009063673 1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH) В Check that the multifunction switch is operating normally. Base audio without navigation: Refer to AV-21, "On Board Diagnosis Function". BOSE audio without navigation: Refer to <u>AV-161</u>, "On Board Diagnosis Function". BOSE audio with navigation: Refer to AV-360, "On Board Diagnosis Function". Is the inspection result normal? YES >> GO TO 2. D NO >> Repair or replace the malfunctioning parts. 2. Е Confirm the operation again. Is the inspection result normal? >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". F NO >> GO TO 1. Н K DEF M Ν Р

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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.

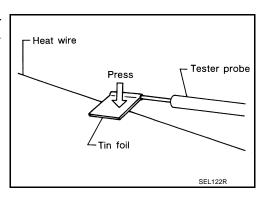
REMOVAL AND INSTALLATION

FILAMENT

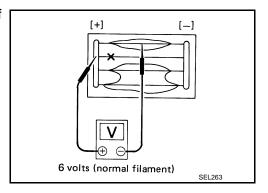
Inspection and Repair

INSPECTION

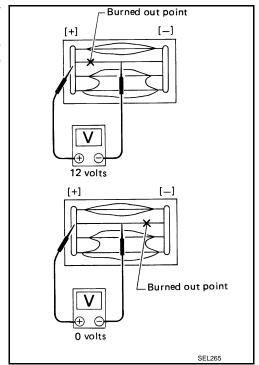
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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.
- 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)

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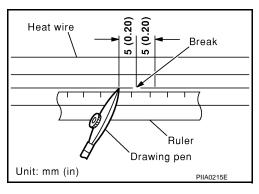
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< REMOVAL AND INSTALLATION >

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

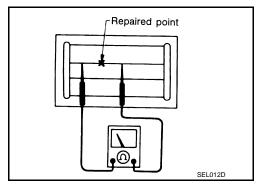
REPAIRING PROCEDURE

- 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.



 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.

