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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:0000000004586115 **DETAILED FLOW** 1. OBTAIN INFORMATION ABOUT SYMPTOM Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurs) as possible when the customer brings the vehicle in. D >> GO TO 2. 2. CHECK DTC Е Perform self-diagnosis with CONSULT-III Are any DTC detected? F YES >> Refer to BCS-79, "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. Р

SYSTEM DESCRIPTION

REAR WINDOW DEFOGGER SYSTEM WITH NAVIGATION

WITH NAVIGATION: System Diagram

INFOID:0000000004586116 MULTIFUNCTION **REAR WINDOW SWITCH** AV CONTROL UNIT всм (REAR WINDOW DEFOGGER RELAY **DEFOGGER SWITCH)** REAR WINDOW DISPLAY IPDM F/R **DEFOGGER** : AV communication -: CAN communication

WITH NAVIGATION: System Description

INFOID:0000000004586117

OPERATION DESCRIPTION

- Turn rear window defogger switch ON when 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 is 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.
- When receiving the signal. AV control unit indicates rear defogger ON on the display. At the same time, AV control unit transmits rear defogger control signal to multifunction switch (rear window defogger switch) via AV communication and illuminates rear defogger switch indicator.

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 operate.
- Timer is canceled after pressing rear window defogger switch again during timer operation. Then BCM turns rear window defogger relay OFF. The same operation also occurs during timer operation, if the ignition switch is turned OFF.

WITH NAVIGATION: Component Parts Location

INFOID:0000000004586118

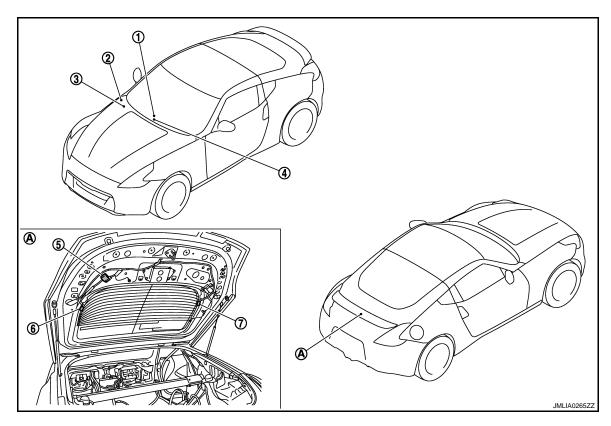
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- Multifunction switch (rear window defogger switch) M72
- AV control unit M85, M86
 Refer to <u>AV-156</u>, "Component Parts <u>Location"</u>
- 7. Rear window defogger connector D201
- A. Behind back door assembly
- 2. IPDM E/R E6
 Refer to PCS-5, "Component Parts
 Location"
- 5. Condenser D106

- BCM M118, M119, M122, M123
 Refer to BCS-8, "Component Parts
 Location"
- 6. Rear window defogger connector D107

WITH NAVIGATION: Component Description

INFOID:0000000004586119

ВСМ	 Operates the rear window defogger relay receiving rear window defogger switch signal Performs the timer control of rear window defogger 		
Rear window defogger relay	Operates the rear window defogger with the control signal from BCM		
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	Displays the rear window defogger is ON on 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		

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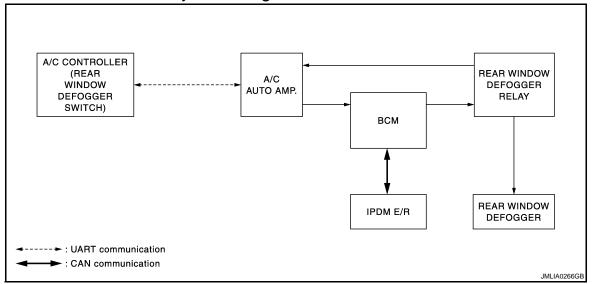
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Revision: 2009 December DEF-5 2009 370Z

< SYSTEM DESCRIPTION >

WITHOUT NAVIGATION: System Diagram

INFOID:0000000004586120



WITHOUT NAVIGATION: System Description

INFOID:0000000004586121

OPERATION DESCRIPTION

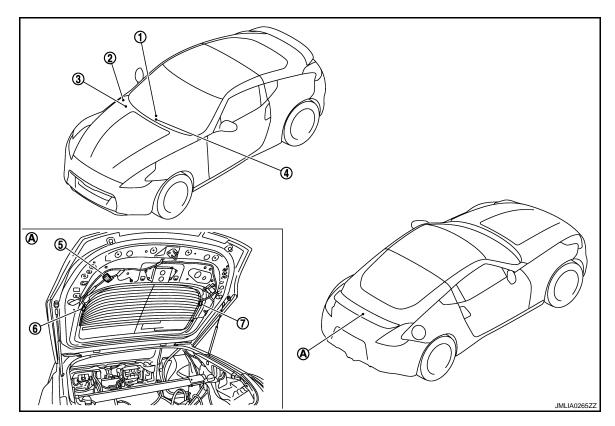
- Turn rear window defogger switch ON when the ignition switch is turned ON. Then A/C controller (rear window defogger switch) transmits rear window defogger switch signal to A/C auto amp. and BCM.
- BCM turns rear window defogger relay ON and transmits rear window defogger control signal to IPDM E/R via CAN communication when rear window defogger switch signal is received.
- Rear window defogger is supplied with power and operates when rear window defogger relay turns ON.
- Rear window defogger relay transmits rear window defogger control signal to A/C auto amp. when rear window defogger operates.
- At the same time, A/C auto amp. transmits rear defogger control signal to A/C controller (rear window defogger switch) and illuminates rear defogger switch indicator.

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 operate.
- Timer is canceled after pressing rear window defogger switch again during timer operation. Then BCM turns
 rear window defogger relay OFF. The same operation also occurs during timer operation, if the ignition
 switch is turned OFF.

WITHOUT NAVIGATION: Component Parts Location

INFOID:0000000004586122



- 1. A/C controller M67
- Refer to HAC-22, "Component Parts Location"
- 7. Rear window defogger connector D201
- A. Behind back door assembly
- IPDM E/R E6
 Refer to PCS-5, "Component Parts
 Location"
- 5. Condenser D106

- Refer to BCS-8, "Component Parts Location"
- Rear window defogger connector D107

WITHOUT NAVIGATION : Component Description

INFOID:0000000004586123

BCM	 Operates the rear window defogger relay 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 with the control signal from BCM
IPDM E/R	Transmit rear window defogger control signal to ECM via CAN communication
A/C controller (Rear window defogger switch)	The rear window defogger switch is installed Turns the indicator lamp ON when detecting the operation of rear window defogger
A/C auto amp.	Dietecting 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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000004689142

APPLICATION ITEM

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

Diagnosis mode	Function Description		
Work Support	Changes the setting for each system function.		
Self Diagnostic Result	Displays the diagnosis results judged by BCM.		
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.		
Data Monitor	The BCM input/output signals are displayed.		
Active Test	The signals used to activate each device are forcibly supplied from BCM.		
Ecu Identification	The BCM part number is displayed.		
Configuration	 Read and save the vehicle specification. Write the vehicle specification when replacing BCM. 		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
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 system Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	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-III.

^{*:} 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" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT	Power position status of the moment a particular DTC is detected	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"	
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
Vollidio Collabori	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	 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. 		

REAR WINDOW DEFOGGER

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

NFOID:0000000004586125

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Data monitor

Monitor Item	Description		
REAR DEF SW	 Without navigation: Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch With navigation: This is displayed even when it is not equipped 		
PUSH SW	Indicates [ON/OFF] condition of push switch		

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000004586126

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1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.	
1	Rattory power supply	K (40 A)	
11	Battery power supply	10 (10 A)	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

2. CHECK POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M119	13		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

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REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER SWITCH

WITH NAVIGATION

WITH NAVIGATION: Description

INFOID:0000000004586127

- The rear window defogger is operated by turning the rear window defogger switch ON.
- The indicator lamp in the rear window defogger illuminates when the rear window defogger is operating.

WITH NAVIGATION: Component Function Check

INFOID:0000000004586128

1. CHECK FUNCTION

Check that the indicator lamp of rear window defogger illuminates when rear window defogger switch is ON. Is the inspection result normal?

YES >> Rear window defogger switch function is OK.

NO >> Refer to DEF-12, "WITH NAVIGATION : Diagnosis Procedure"

WITH NAVIGATION: Diagnosis Procedure

INFOID:000000004586129

1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH)

Check multifunction switch (rear window defogger switch) operate.

Refer to AV-171, "Diagnosis Description".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace the malfunctioning parts.

WITHOUT NAVIGATION

WITHOUT NAVIGATION: Description

INFOID:0000000004586130

- The rear window defogger is operated by turning the rear window defogger switch ON.
- The indicator lamp in the rear window defogger illuminates when the rear window defogger is operating.

WITHOUT NAVIGATION: Component Function Check

INFOID:0000000004586131

1. CHECK FUNCTION

Check (REAR DEF SW) in "DATA MONITOR" mode with CONSULT-III when rear window defogger switch is ON.

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.

NO >> Refer to DEF-12, "WITHOUT NAVIGATION: Diagnosis Procedure"

WITHOUT NAVIGATION: Diagnosis Procedure

INFOID:0000000004586132

1. CHECK A/C CONTROLLER (REAR WINDOW DEFOGGER SWITCH)

Check A/C control system.

Refer to HAC-5, "Work Flow".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK BCM OUTPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect A/C auto amp. connector.
- 3. Turn ignition switch ON.
- 4. Check signal between A/C auto amp. harness connector and ground with oscilloscope.

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

(+) A/C auto amp.		(-)	Signal (Reference value)	
Connector	Terminal		(Notoronoo valao)	
M66	27	Ground	(V) 15 10 5 0 10 ms JPMIA0012GB	

Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to <u>HAC-85</u>, "BOSE AUDIO WITHOUT NAVIGATION : Removal and <u>Installation"</u>.

NO >> GO TO 3.

3.CHECK REAR WINDOW DEFOGGER SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check continuity between BCM harness connector and A/C auto amp. connector.

ВСМ		A/C auto amp.		Continuity
Connector	Terminal	Connector Terminal		Continuity
M123	130	M66	27	Existed

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector Terminal		Ground	Continuity	
M123	130		Not existed	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".

NO >> Repair or replace harness.

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REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description INFOID:000000004586133

Power is supplied to the rear window defogger with BCM control.

Component Function Check

INFOID:0000000004586134

1. CHECK FUNCTION

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT-III.
- 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 function is OK.

NO >> Refer to <u>DEF-14</u>, "<u>Diagnosis Procedure</u>"

Diagnosis Procedure

INFOID:0000000004586135

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 RELAY CIRCUIT 1

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

(+) BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(44.5)
M123	151 Ground	151 (=round	Rear window de-	ON	0
IVI 123	151		fogger switch	OFF	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3.check rear window defogger relay circuit 2 $\,$

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

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

4. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M123	151		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK REAR WINDOW DEFOGGER RELAY

- 1. Disconnect rear window defogger relay,
- 2. Check rear window defogger relay.

Refer to DEF-15, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace rear window defogger relay.

5. CHECK FUSE BLOCK (J/B)

- 1. Install the rear window defogger relay.
- 2. Turn ignition switch ON.
- 3. Check voltage between fuse block (J/B) (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 6.

NO >> Repair or replace fuse block (J/B).

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident"

>> INSPECTION END

Component Inspection

1. CHECK REAR WINDOW DEFOGGER RELAY

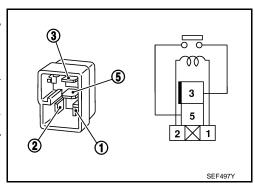
- Turn ignition switch OFF.
- 2. Disconnect rear window defogger relay.
- 3. Check continuity between rear window defogger relay terminals.

Terr	minal		
	window 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.



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REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER

Description INFOID:000000004586137

Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.

Component Function Check

INFOID:0000000004586138

1. CHECK REAR WINDOW DEFOGGER

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

Diagnosis Procedure

INFOID:0000000004586139

1. CHECK FUSE

- Turn ignition switch OFF.
- Check 20A fuse [No.14*, No.15, located in fuse block (J/B)].
- *:Without navigation

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.

	+) ow defogger	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(p)
D201	1 Ground	Ground	Rear window defogger	ON	Battery voltage
5201		switch		OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3. CHECK GROUND CIRCUIT

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

Rear windo	ow defogger		Continuity
Connector	Connector Terminal		Continuity
D107	2		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

4. CHECK REAR WINDOW DEFOGGER CIRCUIT 1

- 1. Turn ignition switch OFF.
- 2. Disconnect condenser connector and rear window defogger connector.

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between condenser (condenser side) connector and rear window defogger harness con-

Cond	Condenser		Rear window defogger		
Connector	Terminal	Connector Terminal		Continuity	
D106	1	D201	1	Existed	

Check continuity between condenser (condenser side) connector and ground.

Conc	lenser		Continuity
Connector Terminal		Ground	Continuity
D106	1		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace condenser. Refer to DEF-69, "Removal and Installation"

${f 5.}$ CHECK REAR WINDOW DEFOGGER CIRCUIT 2

Disconnect fuse block (J/B) connector.

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

Fuse bl	ock (J/B)	Cond	denser	Continuity
Connector	Terminal	Connector	Terminal	Continuity
R6	10G	D106	1	Existed
B6	11G*	D 100	'	LAISIEU

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

Fuse bl	ock (J/B)		Continuity
Connector	Terminal	Ground	Continuity
P.G	10G	Ground	Not existed
B6	11G*		Not existed

^{*:}Without navigation

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK FUSE BLOCK (J/B)

Turn ignition switch ON.

Check voltage between fuse block (J/B) (fuse block side) and ground.

	(+) ock (J/B)	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11 - /
	100	OG Ground	Rear window defogger switch	ON	Battery voltage
В6	100			OFF	0
	11G*			ON	Battery voltage
	116			OFF	0

^{*:}Without navigation

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace fuse block (J/B).

.CHECK FILAMENT

Check filament.

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REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Refer to DEF-18, "Component Inspection"

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace filament. Refer to DEF-67, "Inspection and Repair".

8. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident"

>> INSPECTION END

Component Inspection

INFOID:0000000004586140

1. CHECK FILAMENT

Check the filament for damage.

Refer to DEF-67, "Inspection and Repair"

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair filament.

REAR WINDOW DEFOGGER ON SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER ON SIGNAL

Description INFOID:0000000004586150

Turns the indicator lamp in the rear window defogger switch ON when operating the rear window defogger.

Component Function Check

1. CHECK FUNCTION

Check that the indicator lamps of rear window defogger switch are illuminated when turning the rear window defogger switch ON.

Is the inspection result normal?

YES >> Rear window defogger ON signal function is OK.

>> Refer to DEF-19, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK FUSE

Turn ignition switch OFF.

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 REAR WINDOW DEFOGGER INDICATOR LAMP ON SIGNAL

Turn ignition switch ON.

Check voltage between A/C auto amp. harness connector ground.

(+)				
A/C au	ito amp.			Voltage (V)	
Connector	Terminal				(Approx.)
M66	26	Ground	Rear window defogger	ON	Battery voltage
	20	Giodila	switch	OFF	0

Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to HAC-85, "BOSE AUDIO WITHOUT NAVIGATION: Removal and Installation".

NO >> GO TO 3.

3.check rear window defogger indicator lamp circuit

Turn ignition switch OFF.

Disconnect fuse block (J/B) connector and A/C auto amp. connector.

Check continuity between fuse block (J/B) harness connector and A/C auto amp. harness connector.

Fuse bl	ock (J/B)	A/C auto	amp.	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M3	9C	M66	26	Existed

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

Fuse bl	ock (J/B)		Continuity
Connector	Terminal	Ground	Continuity
M3	9C		Not existed

Is the inspection result normal?

YES >> Repair or replace fuse block (J/B).

NO >> Repair or replace harness.

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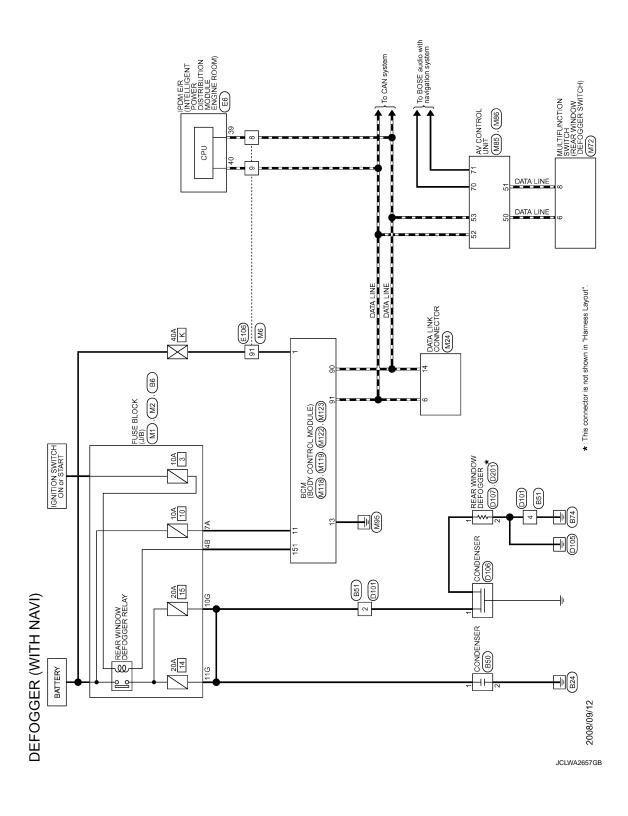
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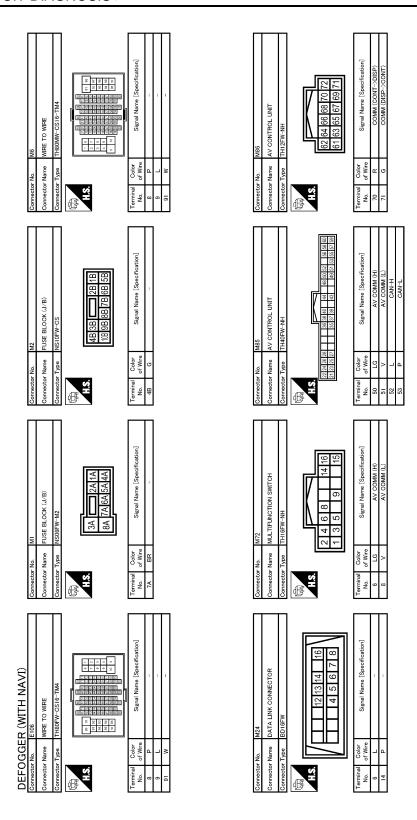
Wiring Diagram - DEFOGGER (WITH NAVI) -

INFOID:0000000004749361



Connector No. D101 Connector Name WIFE TO WIFE Connector Type MOJEW-LC H.S. Z 1 Z 1 Z 1	Terminal Color No. of Wire Signal Name [Specification] 2 Y Color Color	Connector No. E6 Connector Name pDAR ER (INTELLICENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type THUSEW-NH H.S. 42 41 40 39 46 45 44 43 40 P Signal Name [Specification] 40 L	A B C
	stion	Réon]	Е
© 0 WIRE	Signal Name (Specification)	POITE—A POITE—A Signal Name [Specification]	F
No. B51 Name WIRE TO WIRE Type MODAWN-LC	Color of Wire B	P016B-A	G
Connector No Commerce Type	Terminal No o 2 2 2 4	Oomestor No. Connector Type Terminal Color No. of Wir. 1 B	Н
S. S. R. L. C.	Signal Name (Specification)	POITE-A POITE-A Signal Name [Specification]	I J
Connector No. B50 Connector Name CONDENSER Connector Type MOZFW-LC H.S.	Terminal Color No. of Wire 1 W	Connector No. D107 Connector Name REAR WI Connector Type POIFB-A No. of Wire Z B	К
	ntion]	ation]	DEF
(J/B) 302010 90867660	Signal Name (Specification)	SER Signal Name [Specification]	M
DEFOGGER (WITH NAVI) Connector No. 86 Connector Name FUSE BLOCK (J/B) Connector Type NS12FBR-CS ALS EGGE 109 GS 72 126 116 116 96 SS 77		CONDEN	N
DEFOGGIE Connector Name Connector Type H.S.	Terminal Color No. O'Wire 11G W	Connector No. Connector Name Connector Type Connector Type No. Of Wire I V	0
		JCLWA2658GB	Р

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JCLWA2659GB

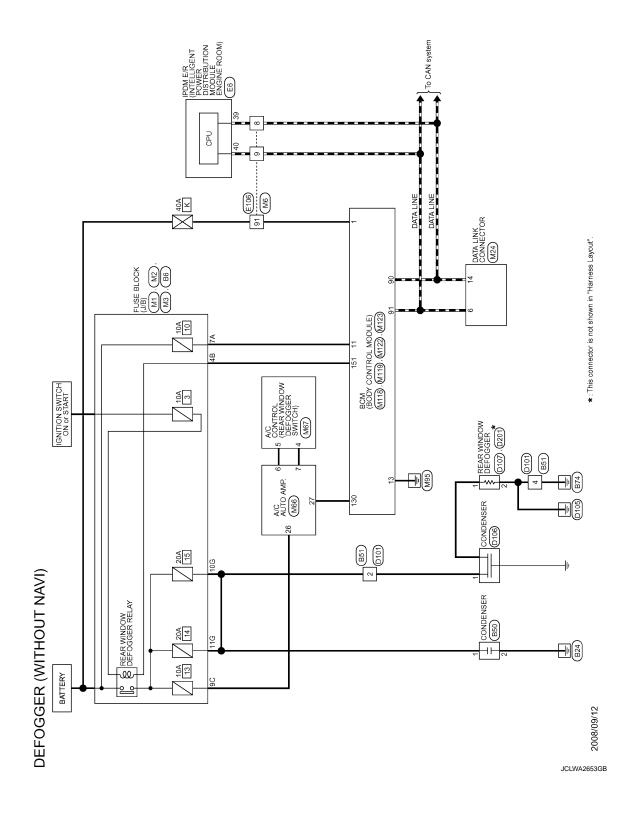
< DTC/CIRCUIT DIAGNOSIS >

	(E)	RELAY CONT		Α
	BON (BODY CONTROL MODULE) TH40FG-NH	Signal Name [Specification] REAR WINDOW DEFOGGER RELAY CONT		В
	Connector Name BCM (BODY Connector Type TH40FC-NH H.S. H.S. BD WENNER BENEAU EN PROPERTY OF THE PROPERTY OF T	Color Color No. of Wire ISI G REAl		D
	74 73 72 94 88 92			Е
	BCM (BODY CONTROL MODULE) TH40FB-NH TH40FB-NH TH GREEN GIVEN TO THE	Signal Name [Specification] CAN-H CAN-H CAN-H		F
	ector Name ector Type	Color No. Of Wire 99 P. P. 99 P. P. 99 P. P.		G
<u></u>	Com	Temin No. 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Н
	BEAN (BODY CONTROL MODULE) INSIGHW-CS 5 6 7 8 9 10 12 13 14 15 16 17 18 19	Signal Name [Specification] BAT (FUSE) GND		I
M119	BCM (BODY CON) NS 16FW-CS 5 6 7	N large S		J
	Connector Name BCM Connector Type NSI6 H.S. H.S. 11112	Color Colo	_	K
П	\prod			DEF
H NAVI)	BIGH (BODY CONTROL MODULE) MOSFB-LC 13	Signal Name [Specification] BAT (F/L)		M
111				Ν
DEFOGGER (WITH NAVI)	Connector Name Connector Type	Color Colo		0
-1	<u> </u>		JCLWA2660GB	Р

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Wiring Diagram - DEFOGGER (WITHOUT NAVI) -

INFOID:0000000004749364



Cornector No. D101 Cornector Name WRE TO WIRE Cornector Type MO4FW-LC 1.5 2 1 4 3	Terminal Color No. of Wire 2 Y 4 B	Connector No. E6 Connector Name IPOM E7R (INTELLIGENT POWER Connector Type THOSEW-NNI Connector Type THOSEW-NNI Terminal Color Signal Name [Specification] 39 Ph 40 L		A B C
				Е
BSI WIRE TO WIRE MOMAWY-LC	Signal Name (Specification)	PEAR WINDOW DEFOGGER POIFE-A Signal Name [Specification]		F
9E 90	I Color VMrre	No. Type		G
Connector No Connector Ty	No. No. 2 2 2 4 4	Commercial		Н
	Signal Name [Specification]	POIFEAR WINDOW DEFOGGER POIFE-A Signal Name [Specification]		I
Connector No. B50 Connector Name CONDENSER Connector Type M02FW-LC	Terminal Color Nur 1 Wire 2 B	Connector No. D107 Connector Name REAR WIN Connector Type POIFE-A H.S Terminal Color No. of Wire 2 B	•	K
	اما			DEF
DEFOGGER (WITHOUT NAVI) Connector No. B6 Connector Name FUSE BLOCK (J/B) Connector Type NS12FBR-CS ALS EG46 352616	Signal Name (Specification)	SER		M
ER (WITHOU' Bi FUSE BLOCK (J/B) NSIZEBR-CS 5646 3		D 106 C C ONDEN		Ν
DEFOGGE Connector No. Connector Name Connector Type H.S.	Color Colo	Connector No. Connector Name Connector Type LLS. Terminal Color No. of Wire Type Terminal Color Type Terminal Color Type Ty		0
		<u> </u>	JCLWA2654GB	Б
				Р

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삥	N	Γ	Γ
Connector No.	Connector No.	Connector No. MZ	Connector No. Mis
Connector Name WIRE TO WIRE	Connector Name FUSE BLOCK (J/B)	Connector Name FUSE BLOCK (J/B)	Connector Name FUSE BLOCK (J/B)
Connector Type TH80FW-CS16-TM4	Connector Type NS06FW-M2	Connector Type NS10FW-CS	Connector Type NS12FW-CS
\$\frac{1}{3} \frac{1}{3} \frac	HS 3A 2A1A 8A 7A 6A 5A 4A	4B 3B 2B 1B 109 9B 8B 7B 6B 5B	#S. 5040 352010 120110 10090 89770 60
Terminal Color Signal Name [Specification] Color Signal Name [Specification] Signal Na	Terminal Color Signal Name [Specification] TA BR	Terminal Color Signal Name [Specification] AB G Color Co	Terminal Color No. of Wire Signal Name [Specification] 9C R -
Connector No. M6	Connector No. M24	Connector No. M66	Connector No. M67
Connector Name WIRE TO WIRE	Connector Name DATA LINK CONNECTOR	Connector Name A/C AUTO AMP.	Connector Name A/C CONTROL
Connector Type TH80MW-CS16-TM4	Connector Type BD16FW	Connector Type SAB40FW	Connector Type TH10FB-NH
\$ 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HS	H.S. (1.2 put 0.6 7 0.0 1.5 0.5	H.S. 1 2 3 4 5 5 6 6 6 7 8 4 5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification]	Terminal Color Signal Name [Specification] No.	Terminal Golor Signal Name [Specification]	Terminal Color Signal Name [Specification]
L -	+		а.
- A - C - C - C - C - C - C - C - C - C	7	/ P KX(CON1)AMP) 26 R REAR WINDOW DEFOGGER FEEDBACK SIGNAL	5 L KX(AMP/SW)
1		-	

JCLWA2655GB

< DTC/CIRCUIT DIAGNOSIS >

	N CONT		А
M123 TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH TH40FG-NH	Signal Name [Specification] REAR DEFOGGER SW REAR WINDOW DEFOGGER RELAY CONT		В
188			С
Connector No. Connector Name Connector Type H.S. H.S.	Terninal Color No. Of Wire 130 L 151 G Color Color		D
DULE)	ification		Е
M122 BCM (BODY CONTROL MODULE) TH40FB-NH TH40FB-NH TH60FB (S) EV	Signal Name [Specification] CAN-H CAN-H		F
or No.	of Wine		G
Connect Connect H.S.	Terminal 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Н
TROL MODULE) ■ 8 9 10 16 17 18 19	Signal Name (Specification) BAT (FUSE) GND		I
MI19 NS16FW-CS NS16FW-TCS 5 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7			J
Connector No. Connector Name Connector Type H.S.	Color Colo		K
	[60]		DEF
R (WITHOUT NAVI) MIIS BEM BODY CONTROL MODULE) MOSFB-LC 13	Signal Name (Specification) BAT (F/L)		M
шППП	O O of Wree Williams		Ν
DEFOGG Connector No. Connector Name Connector Type	Terminal (No. 10)	JCLWA2656GB	0
			Р

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK HI	Front wiper switch HI	On
ED WIDER LOW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED OTOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dia position
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDN GIONAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAND OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
D4.001110.0144	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DD 500 0W	Rear fog lamp switch OFF	Off
RR FOG SW	Rear fog lamp switch ON	On
DOOD SW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD 0W 40	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

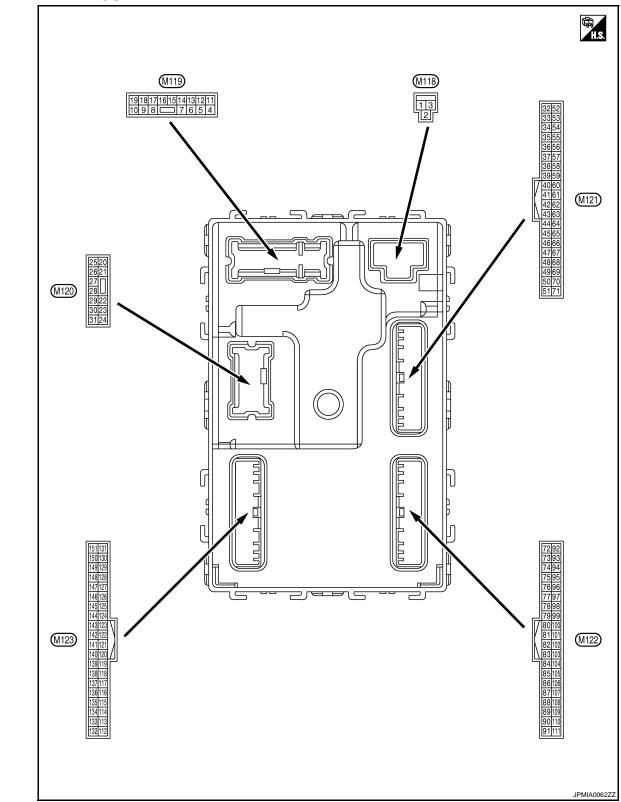
Monitor Item	Condition	Value/Status
OOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
OOOR SW-BK	Back door closed	Off
JOOK SW-BK	Back door opened	On
SDL LOCK SW	Other than door lock and unlock switch LOCK	Off
CDL LOCK SW	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
DL UNLOCK SW	Door lock and unlock switch UNLOCK	On
(EY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
ET CTL LK-SVV	Driver door key cylinder LOCK position	On
TEV CVI LINI SW	Other than driver door key cylinder UNLOCK position	Off
EY CYL UN-SW	Driver door key cylinder UNLOCK position	On
EY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
IAZADD CW	Hazard switch is OFF	Off
IAZARD SW	Hazard switch is ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
IOTE: at models with NAVI this item as not monitored.	Rear window defogger switch ON	On
I/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
R CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
R/BD OPEN SW	Back door opener switch OFF	Off
R/BD OPEN SW	While the back door opener switch is turned ON	On
RNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
NE LOCK	LOCK button of the Intelligent Key is not pressed	Off
KE-LOCK	LOCK button of the Intelligent Key is pressed	On
DI/T N 0 0 /	UNLOCK button of the Intelligent Key is not pressed	Off
KE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
NACE DANIO	PANIC button of the Intelligent Key is not pressed	Off
KE-PANIC	PANIC button of the Intelligent Key is pressed	On
	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On
	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
DTION OF YOUR	Bright outside of the vehicle	Close to 5 V
PTICAL SENSOR	Dark outside of the vehicle	Close to 0 V
	Driver door request switch is not pressed	Off
REQ SW -DR	Driver door request switch is pressed	On
	Passenger door request switch is not pressed	Off
REQ SW -AS	Passenger door request switch is pressed	On

Monitor Item	Monitor Item Condition			
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off		
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off		
REQ SW -BD/TR	Back door request switch is not pressed	Off		
REQ 3W -BD/TR	Back door request switch is pressed	On		
DUCH CW	Push-button ignition switch (push switch) is not pressed	Off		
PUSH SW	Push-button ignition switch (push switch) is pressed	On		
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off		
IGN KL12 -F/D	Ignition switch in ON position	On		
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off		
CLUCH SW	The clutch pedal is not depressed	Off		
NOTE: At A/T models this item is not monitored.	The clutch pedal is depressed	On		
	Stop lamp switch 1 signal circuit is open	Off		
BRAKE SW 1	Stop lamp switch 1 signal circuit is normal	On		
	The brake pedal is not depressed	Off		
BRAKE SW 2	The brake pedal is depressed	On		
DETE/CANCL SW NOTE:	Selector lever in P position (A/T models) The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off		
At M/T models with SynchroR- ev Match mode this item is not monitored.	Selector lever in any position other than P (A/T models) The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On		
SFT PN/N SW NOTE:	 Selector lever in any position other than P and N (A/T models) Control lever in any position other than neutral position (M/T models with SynchroRev Match mode) 	Off		
At M/T models without SynchroRev Match mode this item is not monitored.	Selector lever in P or N position (A/T models) Control lever in neutral position (M/T models with SynchroRev Match mode)	On		
S/I 1 OCK	Steering is unlocked	Off		
S/L -LOCK	Steering is locked	On		
C/L LINILOCK	Steering is locked	Off		
S/L -UNLOCK	Steering is unlocked	On		
C/I DELAVE/D	Ignition switch in OFF or ACC position	Off		
S/L RELAY-F/B	Ignition switch in ON position	On		
UNLK SEN -DR	Driver door is unlocked	Off		
OINTU SEIN -DK	Driver door is locked	On		
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off		
I OOI I OVV -IFDIVI	Push-button ignition switch (push-switch) is pressed	On		
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off		
ION INELLI -F/D	Ignition switch in ON position	On		
DETE SW -IPDM	Selector lever in any position other than P	Off		
DETE OVV -IF DIVI	Selector lever in P position	On		

Monitor Item	Condition	Value/Status		
SFT PN -IPDM	 Selector lever in any position other than P and N (A/T models) The clutch pedal is not depressed (M/T models) 	Off		
OI I FIN -IF DIVI	 Selector lever in P or N position (A/T models) The clutch pedal is depressed (M/T models) 	On		
SFT P -MET	Selector lever in any position other than P	Off		
SFI F-WEI	Selector lever in P position	On		
SFT N -MET	Selector lever in any position other than N	Off		
OF I IN -IVIE I	On			
	Engine stopped	Stop		
ENGINE CTATE	While the engine stalls	Stall		
ENGINE STATE	At engine cranking	Crank		
	Engine running	Run		
2/L L 00K IDDM	Steering is unlocked	Off		
S/L LOCK-IPDM	Steering is locked	On		
C/L LINUX IDDM	Steering is locked	Off		
S/L UNLK-IPDM	Steering is unlocked	On		
E/I DELAY DEO	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off		
S/L RELAY-REQ	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On		
VEH SPEED 1	While driving	Equivalent to speedom- eter reading		
VEH SPEED 2	While driving	Equivalent to speedom- eter reading		
	Driver door is locked	LOCK		
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY		
	Driver door is unlocked	UNLOCK		
	Passenger door is locked	LOCK		
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY		
	Passenger door is unlocked	UNLOCK		
D OK FLAG	Steering is locked	Reset		
D ON I LAG	Steering is unlocked	Set		
PRMT ENG STRT	The engine start is prohibited	Reset		
NIVII LING STRI	The engine start is permitted	Set		
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset		
VEV CW CLOT	The Intelligent Key is not inserted into key slot	Off		
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On		
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key		
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_		
CONEDMID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet		
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done		

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	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
CONTINUIDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONTINUID2	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
CON INWIET	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
164	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
IF J	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
IF Z	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
IF I	The ID of first Intelligent 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 REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGOTTET	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGOT FIRT	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGOT RICT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID NEGOT NET	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DULLER	Tire pressure warning alarm is sounding	On

TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2009 December DEF-33 2009 370Z

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Terminal No. (Wire color)		Description				Value	
+ (vvire	COIOF)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch (DFF	12 V	
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch (ON	12 V	
				Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V	
4 (R)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V	
5	Ground	Passenger door UN-	0 1 1	Passenger	UNLOCK (Actuator is activated)	12 V	
(G)	Ground	LOCK			Other than UNLOCK (Actuator is not activated)	0 V	
8	Crownd	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V	
(V)	Ground				Other than LOCK (Actuator is not activated)	0 V	
9	0	Driver door, fuel lid	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V	
(G)		UNLOCK			Other than UNLOCK (Actuator is not activated)	0 V	
11 (BR)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V	
					OFF	0 V	
14 (R)	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	
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated) ACC	Battery voltage	

Terminal No. Description (Wire color)		Description				Value	
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0 V	
17 (W)	Ground	Turn signal RH (Front and side)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s	
					Turn signal switch OFF	6.5 V 0 V	
18 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
19		Room lamp timer		Interior room	OFF	12 V	
(V)	Ground	control	Output	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					OPEN (Back door opener actuator is activated)	12 V	
(L)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V	
24* ¹	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V	
(O)	Ground	Near log lamp	Output	rvear roy rarrip	ON	12 V	
					Turn signal switch OFF	0 V	
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s	
						6.5 V	
30	Ground	Luggage room lamp	Output	Luggage room	ON	0 V	
(R)		Luggage roulli lallip	Calput	lamp	OFF	12 V	

Terminal No. (Wire color)		Description				Value	
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	
34					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(G)		Ignition switch OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB			
35	Ground	Luggage room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
38	Ground	Rear bumper antenna (–)	Output	When the back door request switch is oper- ated with igni- tion switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(B)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	

	nal No.	Description	I		2	Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
39		Rear bumper anten-		When the back door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Ground	na (+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
47	Craund	Ignition relay (IPDM	Outrout	lanition quitab	OFF or ACC	12 V
(V)	Ground	E/R) control	Output	Ignition switch	ON	0 V
				Ignition switch ON (A/T mod-	When selector lever is in P or N position	12 V
52 Cround	Starter relay control	Output	els)	When selector lever is not in P or N position	0 V	
(SB)	Ground	Starter relay control	Output	Ignition switch	When the clutch pedal is depressed	Battery voltage
				ON (M/T mod- els)	When the clutch pedal is not depressed	0 V
					ON (Pressed)	0 V
61 (W)	Ground	Back door request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
64		Intelligent Key warn-	_	Intelligent Key	Sounding	1.0 V 0 V
(G)	Ground	ing buzzer	Output	warning buzzer	Not sounding	12 V
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	(V) 15 10 5 0 10 ms
						11.8 V
					ON (Door open)	0 V

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	0 V (V) 15 10 5 0 JPMIA0011GB 11.8 V
72	Ground	Room antenna (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(L)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
73	Ground	Room antenna (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(P)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description			0 100	Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	/
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s 1 s JMKIA0062GB	С
(SB)	Ground	tenna (-)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 0 1 s JMKIA0063GB	E
75		Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	G H
(BR)	Ground	tenna (+)	Cuput	quest 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	J K
				When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 0 1 s JMKIA0062GB	M
76 (V)	Ground	Driver door antenna (-)	Output	er door request switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	O

	nal No.	Description				Value	
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	
77	Ground	Driver door antenna	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(LG)		(+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
80 (GR)	Ground	NATS antenna amp (Built in key slot)	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 (W)	Ground	NATS antenna amp (Built in key slot)	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 12 V	
83	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(GR)				When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB	

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	Λ
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	E
						1.3 V	G
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0	Н
					-	JPMIA0040GB 1.3 V	- 1

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	nal No.	Description				Value
+	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
88	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
(V)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0037GB
					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 2 ms JPMIA0040GB
89		Push-button ignition		Push-button ig-	Pressed	0 V
(BR)	Ground	switch (Push switch)	Input	nition switch (push switch)	Not pressed	Battery voltage
90 (P)	Ground	CAN-L	Input/ Output		_	_
91 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB
					ON	6.5 V 12 V
					J.1	1

	nal No. color)	Description				Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(v)					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Ground	7.00 Telay control	Odipui	ignition switch	ACC or ON	12 V
96* ² (Y)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Cround	tion No. 1	прис	Otoomig look	UNLOCK status	12 V
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)	Ordana	tion No. 2	mpat	Clooming rook	UNLOCK status	0 V
		Selector lever P posi-		Selector lever	P position	0 V
99* ³		tion switch (A/T models)		Selector lever	Any position other than P	12 V
(R)* ² Ground (BR)* ⁴	switch (M/T models	Input	Clutch pedal	OFF (Clutch pedal is depressed)	0 V	
		without SynchroRev Match mode)		position switch	ON (Clutch pedal is not depressed)	Battery voltage
					ON (Pressed)	0 V
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102		Blower fan motor re-			OFF or ACC	0 V
(O)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch OFF		12 V
106		Steering lock unit	•	1	OFF or ACC	12 V
(W)	Ground	power supply	Output	Ignition switch	ON	0 V

	nal No.	Description				Value
(Wire	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
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

< ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch		1.3 V
					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms
						JPMIA0036GB 1.3 V
					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 2 ms

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	nal No.	Description				Value
(Wire	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
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB
					ON	0 V
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB

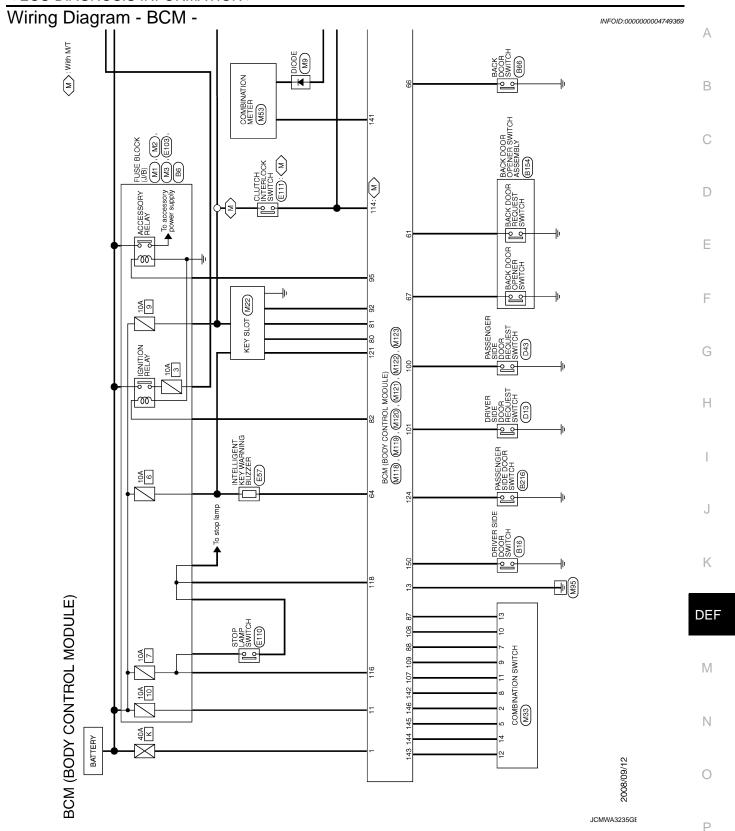
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111 (Y) Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 ms JMKIA0066GB	
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(O)	Ground	Optical serisor	input	ON	When dark outside of the vehicle	Close to 0 V
114* ⁵	114* ⁵ Ground Clutch interlock switch Input Clutch intersection Switch	Clutch interlock	Innut	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)		switch	ON (Clutch pedal is depressed)	Battery voltage		
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
118	Ground	Stop lamp switch 2	Input	Stop lamp	OFF (Brake pedal is not depressed)	0 V
(P)	Ground	Stop lamp switch 2	mput	switch	ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (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)	0 V
121	Ground	Key slot switch	Innut	When the Intellig	gent Key is inserted into key	12 V
(R)	Ground	Ney SIUL SWILCH	Input	When the Intellig	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(W)	Ciouna	IOI4 ICCUDACK	Input	ignition switch	ON	Battery voltage

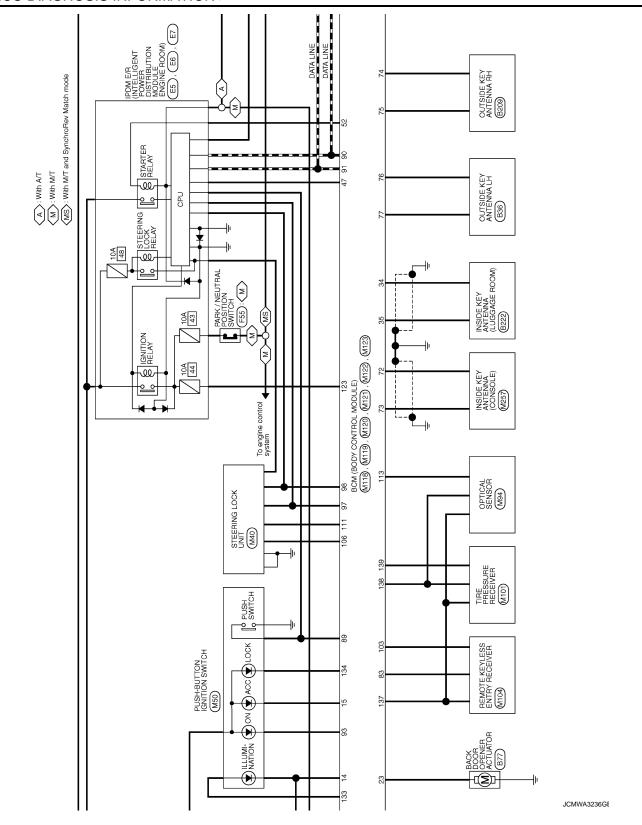
	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
130* ⁶ (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	(V) 15 10 5 0 10 ms JPMIA0012GB
					Rear window defogger switch ON	0 V
132 (Y)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	12 V
					ON (Tail lamps OFF)	9.5 V
133		Push-button ignition	0.1.1	Push-button ig-	ON/T-TION	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level. (V) 15
(G)	Ground	Push-button ignition switch illumination	Output	nition switch il- lumination	ON (Tail lamps ON)	JPMIA0159GB
					OFF	0 V
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage
(GR)		•	11	lamp	ON	0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch C		0 V
138	Ground	Receiver and sensor	nsor Output Ignition switch		OFF	0 V
(V)		power supply	•	•	ACC or ON	5.0 V

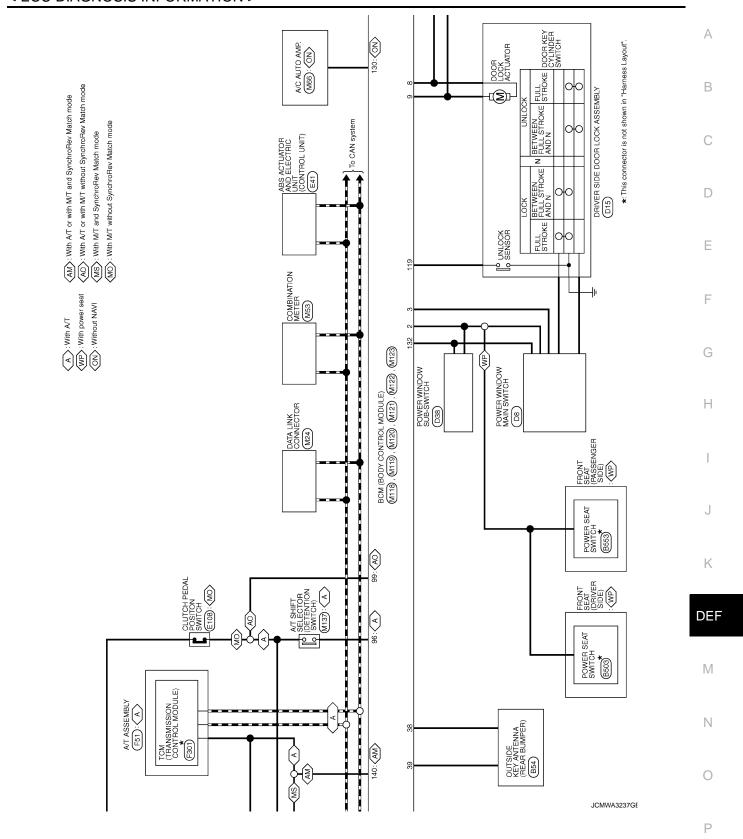
	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 • • 0.2s
(L)	Ground	er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		Selector lever P/N			P or N position	12 V
		position (A/T models)		Selector lever	Except P and N positions	0 V
140* ⁷ (G)	Ground	Transmission range switch (M/T models	Input	Ignition switch	Control lever in neutral position	Battery voltage
		with SynchroRev Match mode)		ON	Control lever in any position other than neutral	0 V
					ON	0 V
141 (Y)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 11.3 V
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	(\frac{1}{2})
				Combination	Lighting switch HI	(V) 15
142 (O)	Ground	Combination switch OUTPUT 5	Output	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms JPMIA0031GB
					All switches OFF	10.7 V
					(Wiper intermittent dial 4)	U V
					Front wiper switch HI (Wiper intermittent dial 4)	(V) _[
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3 Wiper intermittent dial 6 Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB

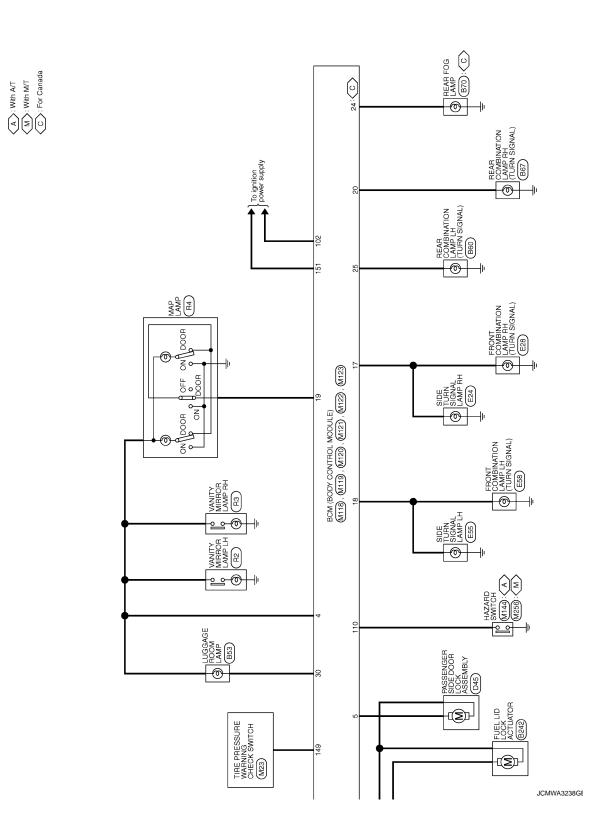
	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB
					All switches OFF	0 V
				Combination switch (Wiper intermittent dial 4)	Front wiper switch INT	
					Front wiper switch LO	(V)
145	Ground	Combination switch	Output		Lighting switch AUTO	10
(L)		OUTPUT 3			Rear fog lamp switch ON	0 JPMIA0034GB 2 ms JPMIA0034GB
				I	All switches OFF	0 V
					Lighting switch 2ND	
					Lighting switch PASS	(V)
146 (SB)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit- tent dial 4)	Turn signal switch LH	10 5 0 2 ms JPMIA0035GB
149 (W)	Ground	Tire pressure warning check switch	Input		_	12 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	Cround	ger relay control	Calput	defogger	Not activated	Battery voltage

- *1: For Canada
- *2: A/T models
- *3: Except M/T models with SynchroRev Match mode
- *4: M/T models without SynchroRev Match mode
- *5: M/T models
- *6: Without NAVI
- *7: Except M/T models without SynchroRev Match mode









		А
M120 NS12FW-CS NS12FW-CS 20 21		В
		С
Connector No. Connector Name Connector Type H.S. H.S. Terminal Color No. of Wir		D
rodule) 1 10 10 1 18 10 1 18 10 1 10 10 1 1	WW L L L L L L L L L L L L L L L L L L	Е
NSIBFW-CS SIBFW-CS SIBFW-CS	COMBI SW INPUT 3 PUSH SW CAN-L CAN-H KEY SIGT TILL ON IND ACC RELAY CONT TA SHIFT SELECTOR POWER SUPPLY SAL CONDITION 1 SAL CONDITION 2 SAL UNIT POWER SUPPLY COMBI SW INPUT 4 COMBI SW INPUT 4 COMBI SW INPUT 2 HAZARD SW SAL UNIT COMM SAL UNIT COMM	F
0 N N mme		G
	88 89 89 89 89 89 89 89 89 89 89 89 89 8	Н
MITE WOSTB-LC Signal Name (Specification) Signal Name (Specification) POWER WINDOW POWER SUPPLY(BAT) POWER WINDOW POWER SUPPLY(BAT)	122 140FB NH 140	I
MOSFB-LC MOSFB-LC Signal Name (Speorificatio BAT (**L) POWER WINDOW POWER SLIPP POWER WINDOW POWER SLIPP	MIZZ BCM (BODY CONTROL MODULE) TH40FB NH TH40FB NH TH T	J
Connector No. Connector Type H.S. Terminal Color No. Of Wire 2 W W 3 V	Connector No. Connector Name Connector Name Connector Type	К
		DEF
Commercior Number Miss Commercior Number Color Number Co	BOM (BODY CONTROL MODULE) THAGFGY-NH THAGFGY-NH THAGFGY-NH THAGFGY-NH THAGFGY-NH THAGFGY-NH Signal Name [Specification] Signal Name [Specification] LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- IGN RELAY (PRDM E78) CONT STARTER RELAY CONT STARTER RELAY CONT BACK DOOR OPENER RECUEST S H-KEY WARN BUZZER (FING BOOM BACK DOOR OPENER RECUEST S BACK DOOR OPENER RECUEST S H-KEY WARN BUZZER (FING BOOM BACK DOOR OPENER RECUEST S	М
Name COMBINATION SWITCH		N
BCM (BO Connector No.	Connector No.	0
		JCMWA3239GE

<u>≥</u>		DOM (DOD I COINTRUL MODULE)				
Connector No.	or No.	M123	134	GR	LOCK IND	
4	N. M.	(a lingon control wool is	137	۵	RECEIVER/SENSOR GND	
	Name	BOM (BOD) CONTROL MODOLE)	138	۸	RECEIVER/SENSOR POWER SUPPLY	
Connector Type	or Type	TH40FG-NH	139	٦	TIRE PRESSURE RECEIVER COMM	
ľ			140	5	PARK/NEUTRAL POSITION SW [With M/T and SynchroRev Match mode]	
B			140	5	SHIFT N/P [With A/T]	
Ę			141	Y	SECURITY INDICATOR	
2			142	0	COMBI SW OUTPUT 5	
	131 130 129 12	131 130 123 123 123 125 125 124 123 123 123 121 121 131 H18 118 116 115 116 115 114 113 112	143	Ь	COMBI SW OUTPUT 1	
	151 150 149 14	151 150 148 148 147 146 145 144 143 142 141 140 139 138 137 135 135 134 133 132	144	5	COMBI SW OUTPUT 2	
'			145	٦	COMBI SW OUTPUT 3	
			146	SB	COMBI SW OUTPUT 4	
Terminal	Color	Cincid Normal Constitution	149	Μ	TIRE PRESSURE WARN CHECK SW	
No.	of Wire	O'Bright Marrie Lobechicacon	150	ЯĐ	DRIVER DOOR SW	
113	0	OPTICAL SENSOR	151	5	REAR WINDOW DEFOGGER RELAY CONT	
114	œ	CLUTCH INTERLOCK SW				
116	SB	STOP LAMP SW 1				
118	Ь	STOP LAMP SW 2				
119	SB	DR DOOR UNLOCK SENSOR				
121	ď	KEY SLOT SW				
123	М	IGN F/B				
124	97	PASSENGER DOOR SW				
130	٦	REAR DEFOGGER SW				
132	Υ	POWER WINDOW SW COMM				
133	ی	PLISH BLITTON IGNITION SW ILL BOWER				

JCMWA3240GE

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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 Starter control relay signal Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are ful-filled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (battery voltage) P range signal or N range signal (CAN): ON Status 2 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: Except P and N positions (0 V) Interlock/PNP switch signal (CAN): OFF Status 2 Ignition switch is in the ON position Selector lever P/N position signal: P or N position (battery voltage) PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status has becomes consistent Steering lock relay signal (Request signal) Steering lock relay signal (Condition 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)
B2609: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled Power position changes to ACC Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking Inhibit steering lock	 When any of the following conditions are fulfilled Steering lock unit status signal (CAN) is received normally The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

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

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

NOTE:

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

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF \Rightarrow ON and front wiper switch is INT position, BCM operates a fail-safe control.

< ECU DIAGNOSIS INFORMATION >

DTC Inspection Priority Chart

INFOID:0000000004749371

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	
	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY 	
	 B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: PNP SW 	
4	 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	
	 B2612: 3/E STATOS B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC 	
	 B2617: STAKTEK KELAT CIRC B2618: BCM B2619: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE 	
	 B26TE: VEHICLE TIPE B26E8: CLUTCH SW B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR 	
	U0415: VEHICLE SPEED SIG	

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< ECU DIAGNOSIS INFORMATION >

Priority	DTC
5	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] FR C1719: [PRESSDATA ERR] RR C1720: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL C1727: [BATT VOLT LOW] RL C1727: [BATT VOLT LOW] RR
6	B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA

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 <u>BCS-17, "COM-MON ITEM":</u>

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	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-38
U1010: CONTROL UNIT (CAN)	_	_	_	_	BCS-39
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-40
B2013: ID DISCORD BCM-S/L	×	×	_	_	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	_	_	SEC-51
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-42
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-45
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-48
B2195: ANTI SCANNING	×	_	_	_	SEC-49
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	<u>SEC-54</u>

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	Refer- ence page
B2556: PUSH-BTN IGN SW		×	×	_	<u>SEC-56</u>
B2557: VEHICLE SPEED	×	×	×	_	SEC-58
B2560: STARTER CONT RELAY	×	×	×	_	SEC-59
B2562: LOW VOLTAGE	_	×	_	_	BCS-41
B2601: SHIFT POSITION	×	×	×	_	SEC-60
B2602: SHIFT POSITION	×	×	×	_	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-66</u>
32604: PNP SW	×	×	×	_	SEC-69
B2605: PNP SW	×	×	×	_	<u>SEC-71</u>
32606: S/L RELAY	×	×	×	_	SEC-73
B2607: S/L RELAY	×	×	×	_	SEC-74
B2608: STARTER RELAY	×	×	×		<u>SEC-76</u>
B2609: S/L STATUS	×	×	×	_	<u>SEC-78</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260B: STEERING LOCK UNIT	_	×	×	_	SEC-82
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-83
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-84
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-85
B2612: S/L STATUS	×	×	×	_	SEC-90
B2614: ACC RELAY CIRC	_	×	×	_	PCS-52
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-55
B2616: IGN RELAY CIRC	_	×	×	_	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-94
B2618: BCM	×	×	×	_	PCS-61
B2619: BCM	×	×	×	_	SEC-96
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-97
B2622: INSIDE ANTENNA	_	×	_	_	DLK-55
B2623: INSIDE ANTENNA	_	×	_	_	DLK-57
B26E8: CLUTCH SW	×	×	×	_	SEC-86
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	SEC-88
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-89
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	VA/T 40
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-16</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	1A/T 40
C1710: [NO DATA] RR	_	_	_	×	<u>WT-18</u>
C1711: [NO DATA] RL		_	_	×	

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	Refer- ence page
C1712: [CHECKSUM ERR] FL	_	_	_	×	
C1713: [CHECKSUM ERR] FR	_	_	_	×	WT-21
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u> </u>
C1715: [CHECKSUM ERR] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-24
C1718: [PRESSDATA ERR] RR	_	_	— ×	<u>VV 1-24</u>	
C1719: [PRESSDATA ERR] RL	_	_	×		
C1720: [CODE ERR] FL	_	_	_	×	
C1721: [CODE ERR] FR	_	_	_	×	WT-26
C1722: [CODE ERR] RR	_	_	_	×	<u>VV 1-20</u>
C1723: [CODE ERR] RL	_	_	_	×	
C1724: [BATT VOLT LOW] FL	_	_	_	×	
C1725: [BATT VOLT LOW] FR	_	_	_	×	WT-29
C1726: [BATT VOLT LOW] RR	_	_	_	×	<u>vv 1-29</u>
C1727: [BATT VOLT LOW] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-32
C1734: CONTROL UNIT	_	_	_	×	<u>WT-34</u>

REAR WINDOW DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS	- А
REAR WINDOW DEFOGGER DOES NOT OPERATE	/ (
Diagnosis Procedure	8 B
1. CHECK POWER SUPPLY AND GROUND CIRCUIT	
Check power supply and ground circuit. Refer to DEF-11, "BCM: Diagnosis Procedure".	С
Is the inspection result normal?	
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CHECK REAR WINDOW DEFOGGER SWITCH	
Check rear window defogger switch. • With Navigation: Refer to DEF-12, "WITH NAVIGATION: Component Function Check"	- E
 Without Navigation: Refer to <u>DEF-12</u>, "WITHOUT NAVIGATION: Component Function Check" 	F
Is the inspection result normal? YES >> GO TO 3.	Г
NO >> Repair or replace the malfunctioning parts.	
3.CHECK REAR WINDOW DEFOGGER RELAY	G
Check rear window defogger relay. Refer to DEF-14, "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-16, "Component Function Check".	J
Is the inspection result normal? YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	K
5.CONFIRM THE OPERATION	
Confirm the operation again.	DE
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-39</u> , " <u>Intermittent Incident</u> ".	
NO >> GO TO 1.	N
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ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT OPERATES

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

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1. CHECK AV CONTROL FUNCTION

Check that the AV control unit is operating normally.

- With Navigation: Refer to AV-152, "Work Flow".
- Without Navigation: Refer to AV-35, "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 WITH NAVIGATION	Α
WITH NAVIGATION : Diagnosis Procedure	В
1. CHECK REAR WINDOW DEFOGGER OPERATION Check rear window defogger operation.	С
Is the inspection result normal? YES-1 >> With Navigation: Check AV control system. Refer to AV-152, "Work Flow" YES-2 >> Without Navigation: Check AV control system. Refer to AV-35, "Work Flow" NO >> Check rear window defogger system. Refer to DEF-3, "Work Flow"	D
WITHOUT NAVIGATION WITHOUT NAVIGATION: Diagnosis Procedure	E
1.CHECK A/C CONTROLLER FUNCTION	F
Check that the A/C controller is operating normally. Is the inspection result normal?	G
YES >> GO TO 2. NO >> Check A/C control system. Refer to <u>HAC-5</u> , "Work Flow". 2.CHECK REAR WINDOW DEFOGGER ON SIGNAL	Н
Check rear window defogger ON signal. Refer to DEF-19, "Component Function Check".	I
Is the inspection result normal? YES >> Replace A/C controller (rear window defogger switch). Refer to HAC-83, "BOSE AUDIO WITH-OUT NAVIGATION: Removal and Installation". NO >> Repair or replace the malfunctioning parts.	J
140 >> Nepail of replace the mailunctioning parts.	K

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PRECAUTIONS

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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:

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

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT 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.

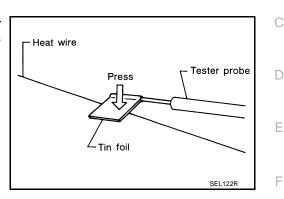
REMOVAL AND INSTALLATION

FILAMENT

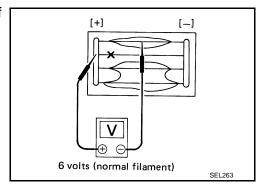
Inspection and Repair

INSPECTION

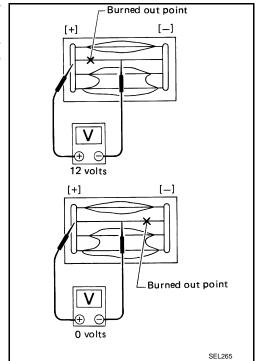
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



- 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 swings abruptly when probe passes the point.



REPAIR

REPAIR EQUIPMENT

• Conductive silver composition (Dupont No. 4817 or an equivalent)

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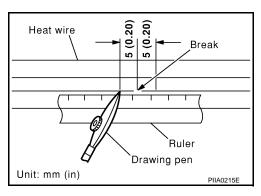
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< REMOVAL AND INSTALLATION >

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

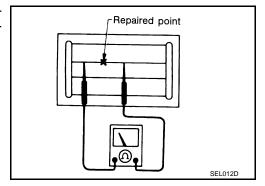
REPAIRING PROCEDURE

- 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.



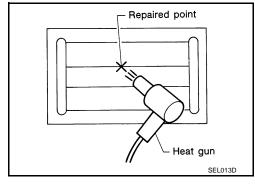
4. After repair has been complete, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

Do not touch repaired area while test is being conducted.



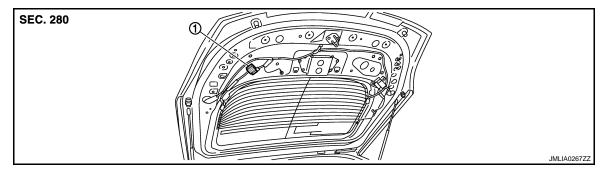
 Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet.

If a heat gun is not available, let the repaired area dry for 24 hours.



CONDENSER

Exploded View

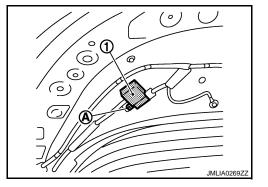


1. Condenser

Removal and Installation

REMOVAL

- Remove the back door finisher lower. Refer to <u>INT-28</u>, "Removal and Installation".
- Remove bolt (A), and then remove condenser (1) from the vehicle body.



INSTALLATION

Install in the reverse order of removal.

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