

D

Е

CONTENTS

BASIC INSPECTION3
DIAGNOSIS AND REPAIR WORK FLOW 3 Work Flow
SYSTEM DESCRIPTION4
REAR WINDOW DEFOGGER SYSTEM
DIAGNOSIS SYSTEM (BCM)6
COMMON ITEM6 COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)6
REAR WINDOW DEFOGGER
DTC/CIRCUIT DIAGNOSIS9
PREAR WINDOW DEFOGGER SWITCH
REAR WINDOW DEFOGGER RELAY10Description10Component Function Check10Diagnosis Procedure10Component Inspection11
REAR WINDOW DEFOGGER12Description12Component Function Check12Diagnosis Procedure12Component Inspection14
DOOD MIDDOD DEEOGGED 45

F
G H
J
K
M
Ν
0
O

DOOR MIRROR DEFOGGER DOES NOT OP-	Diagnosis Procedure	. 59
ERATE57	PRECAUTION	60
BOTH SIDES57	PRECAUTIONS	
BOTH SIDES : Diagnosis Procedure57	Precaution for Supplemental Restraint System	. 60
DRIVER SIDE 57	(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	
DRIVER SIDE : Diagnosis Procedure 57	SIONER"	. 60
PASSENGER SIDE57	Precaution for Battery Service	. 60
PASSENGER SIDE : Diagnosis Procedure 57	REMOVAL AND INSTALLATION	61
ON IS NOT DISPLAYED WHEN PRESSING	FILAMENT	. 61
REAR WINDOW DEFOGGER SWITCH BUT	Inspection and Repair	. 61
IT IS OPERATED58		
Diagnosis Procedure58	CONDENSER	
	Exploded View	
REAR WINDOW DEFOGGER INDICATOR	Removal and Installation	. 63
DOES NOT ILLUMINATE59		

DIAGNOSIS AND REPAIR WORK FLOW

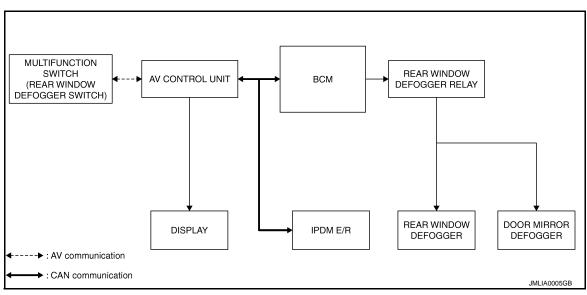
< BASIC INSPECTION >

BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:0000000008161274 **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-73, "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

System Diagram



System Description

INFOID:0000000008161276

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 transmit rear window defogger ON signal to IPDM E/R via CAN communication when rear window defogger switch signal is received.
- Rear window defogger and door mirror defogger (with mirror defogger) are supplied with power and operate when rear window defogger relay turns ON.
- AV control unit transmit rear window defogger control signal to multifunction switch (rear window defogger switch) via AV communication.
- IPDM E/R transmits rear window defogger control signal to AV control unit via CAN communication.

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 (with 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

INFOID:0000000008161277

Α

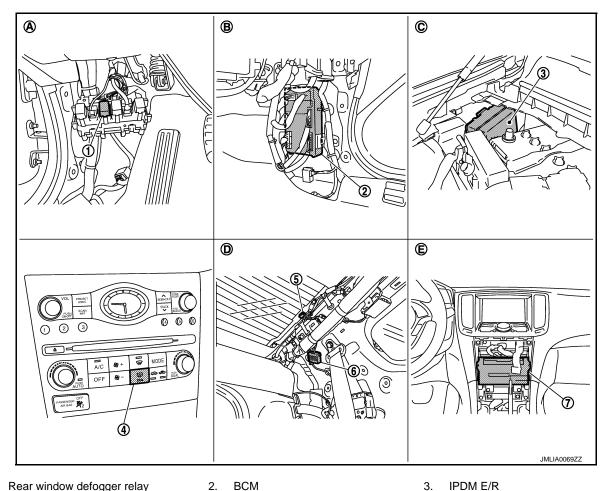
В

D

Е

F

Н



- Rear window defogger relay
- Rear window defogger switch (built-in multifunction switch)
- AV control unit
- Dash side lower (driver side) A.
- Behind rear pillar finisher (LH)
- **BCM**
- Rear window defogger connector
 - 6. Condenser
- В. Dash side lower (passenger side)
- E. Behind cluster lid C
- Engine room dash panel (RH) C.

Component Description

INFOID:0000000008161278

BCM	 Operates the rear window defogger with the operation of rear window defogger switch Performs the timer control of rear window defogger 		
Rear window defogger relay	Operates the rear window defogger and the door mirror defogger with the control signal from BCM		
IPDM E/R	Transmit rear window defogger ON 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 ON to the display when detecting the operation of rear window defogger		
Rear window defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up		
Door mirror defogger*	Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up		

^{*:} With mirror defogger

DEF-5 Revision: 2012 July 2013 G Coupe

DEF

Κ

M

Ν

0

Р

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000008832629

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	This function is not used even though it is displayed.

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 avetem adjection 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	BCM	×		
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	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.

^{*:} 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	Power supply position status of the moment a particular DTC is detected	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)		
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)		
	ACC>OFF		While turning power supply position from "ACC" to "OFF"		
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*		
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"		
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"		
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode		
	LOCK		Power supply position is "LOCK"*		
	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 (A/T models), 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:0000000008161280

Ν

0

Р

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.

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Description INFOID:0000000008161281

- 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.

Component Function Check

1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

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

YES >> Rear window defogger switch function is OK.

NO >> Refer to DEF-9, "Diagnosis Procedure"

Diagnosis Procedure

1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH)

Does multifunction switch operate normally?

- Base audio without rear view camera. Refer to <u>AV-20, "Diagnosis Description"</u>
- Base audio with rear view camera. Refer to AV-105, "On Board Diagnosis Function"
- BOSE audio without navigation. Refer to AV-215, "On Board Diagnosis Function"
- BOSE audio with navigation. Refer to AV-340, "On Board Diagnosis Function"

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace multifunction switch (rear window defogger switch). Refer to <u>AV-91, "Removal and Installation"</u>

DEF

IVI

Ν

O

Р

DEE

K

Α

В

D

Е

Н

INFOID:0000000008161282

INFOID:0000000008161283

Revision: 2012 July DEF-9 2013 G Coupe

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description INFOID:000000008161284

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

Component Function Check

INFOID:0000000008161285

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

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

Is the inspection result normal?

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

NO >> Refer to <u>DEF-10</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008161286

1. CHECK FUSE

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.check rear window defogger circuit 1 $\,$

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

	+) CM	(-) Condition		Condition		
Connector	Terminal				(Approx.)	
M123	151	Ground	Rear window defogger	ON	0	
IVI 123	151		switch	OFF	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

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

- Turn ignition switch OFF.
- 2. Disconnect BCM connector and rear window defogger relay.
- 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	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-11, "Component Inspection".

Is the inspection result normal?

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

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		(+ +)	
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-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

1. CHECK REAR WINDOW DEFOGGER RELAY

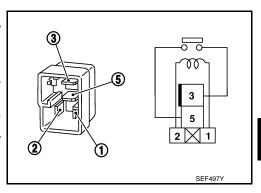
- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger relay.
- 3. Check rear window defogger relay.

Teri	minal		
Rear window defogger 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.



В

Α

D

Е

Г

INFOID:0000000008161287

K

DEF

M

Ν

0

Р

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER

Description INFOID:000000008161288

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:0000000008161289

1. CHECK REAR WINDOW DEFOGGER

- 1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
- 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-12</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000008161290

1. CHECK FUSE

- 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 POWER SUPPLY CIRCUIT

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

(+) Rear window defogger		(-)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(* 155. 37.)	
B401	1	Ground		ON	Battery voltage	
B401	!			OFF	0	

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

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

Rear windo	ow defogger		Continuity	
Connector	Connector Terminal		Continuity	
B402	2		Existed	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

4. CHECK REAR WINDOW DEFOGGER CIRCUIT 1

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect condenser connector and rear window defogger connector.
- Check continuity between condenser (condenser side) and rear window defogger harness connector.

Condenser		Rear windo	Continuity		
Connector	Terminal	Connector Terminal			
B26	1	B401	1	Existed	

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

Cond	lenser		Continuity	
Connector Terminal		Ground	Continuity	
B26	1		Not existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace condenser. Refer to DEF-63, "Removal and Installation".

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

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

Fuse block (J/B)		Cond	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B6	10G	B26	1	Existed
ь	11G	D20	ı	LXISIEU

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

Fuse b	lock (J/B)		Continuity
Connector	Terminal	Ground	Continuity
В6	10G	Ground	Not existed
	11G		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.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		n	Voltage (V) (Approx.)	
Connector	Terminal				(
	10G			ON	Battery voltage	
В6	100	Ground	Rear window defogger	OFF	(Approx.)	
ьо	11G	Ground	switch	ON	Battery voltage	
	116			OFF	0	

Is the inspection result normal?

YES >> GO TO 8.

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

7. CHECK FILAMENT

Check filament.

Refer to DEF-14, "Component Inspection".

Revision: 2012 July DEF-13 2013 G Coupe

DEF

K

Α

В

D

Е

F

Н

M

Ν

0

F

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair filament.

8.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000008161291

1. CHECK FILAMENT

Check the filament for damage or blown. Refer to DEF-61, "Inspection and Repair".

Is the inspection result normal?

YES >> INSPECTION END NO >> Repair filament.

DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER

Description INFOID:0000000008161292

Power is supplied to the door mirror defogger with BCM control.

Component Function Check

1. CHECK DOOR MIRROR DEFOGGER

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

Is the inspection result normal?

YES >> Door mirror defogger is OK.

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

Diagnosis Procedure

1.CHECK FUSE

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 POWER SUPPLY CIRCUIT

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

(+) Door mirror (driver side)		(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(11)
D3	4	Ground	Rear window defogger	ON	Battery voltage
D3	4	Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 3.

3.check driver side door mirror defogger circuit

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

Fuse bl	ock (J/B)	Door mirror	Continuity	
Connector	Terminal	Connector Terminal		
M3	10C	D3	4	Existed

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

Fuse bl	ock (J/B)		Continuity	
Connector	Connector Terminal		Continuity	
M3	10C		Not existed	

Is the inspection result normal?

DEF

K

Α

В

D

Е

INFOID:0000000008161293

INFOID:0000000008161294

M

Ν

DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4. 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		Voltage (V) (Approx.)
Connector	Terminal				,
M3	10C	Rear window defogger		ON	Battery voltage
IVIS	IVI3	Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 5.

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

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Description INFOID:0000000008161295

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

Component Function Check

1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

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

Is the inspection result normal?

YES >> Driver side door mirror defogger is OK.

NO >> Refer to <u>DEF-17</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

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

	+) (driver side)	(–)	Condition	1	Voltage (V) (Approx.)
Connector	Terminal	Ground Rea			(11 - 7
	4	Ground	Rear window defogger	ON	Battery voltage
	4	Giodila	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check driver side door mirror defogger circuit

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

Fuse block (J/B) Door mirror (driver side)		Continuity		
Connector	Terminal	Connector	Terminal	Continuity
M3	10C	D3	4	Existed

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

Fuse bl	ock (J/B)		Continuity
Connector	Terminal	Ground	Continuity
M3	10C		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

DEF

K

Α

D

Е

Н

INFOID:0000000008161296

INFOID:0000000008161297

M

. .

Ν

F

Revision: 2012 July DEF-17 2013 G Coupe

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Door mirror (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D3	8		Existed

Is the inspection result normal?

YES >> Replace door mirror glass (driver side). Refer to MIR-37, "GLASS MIRROR: Disassembly and Assembly".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Description INFOID:0000000008161298

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

Component Function Check

1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

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

Is the inspection result normal?

YES >> Passenger side door mirror defogger is OK.

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

Diagnosis Procedure

1. CHECK POWER SUPPLY CIRCUIT

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

Door mirror (p	+) passenger side)	(–)	Condition	1	Voltage (V) (Approx.)
Connector	Terminal				(11 -)
D33	4	Ground	Rear window defogger	ON	Battery voltage
DSS	4	Giouna	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER CIRCUIT

- 1. Turn ignition switch OFF.
- 2. 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	4	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 >> GO TO 4.

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

DEF

K

Α

D

Е

Н

INFOID:0000000008161299

INFOID:0000000008161300

M

Ν

Р

Revision: 2012 July DEF-19 2013 G Coupe

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Door mirror (p	Door mirror (passenger side)		Continuity
Connector	Terminal	Ground	Continuity
D33	8		Existed

Is the inspection result normal?

>> Replace door mirror glass (passenger side). Refer to MIR-37, "GLASS MIRROR: Disassembly YES and Assembly".
>> Repair or replace harness.

NO

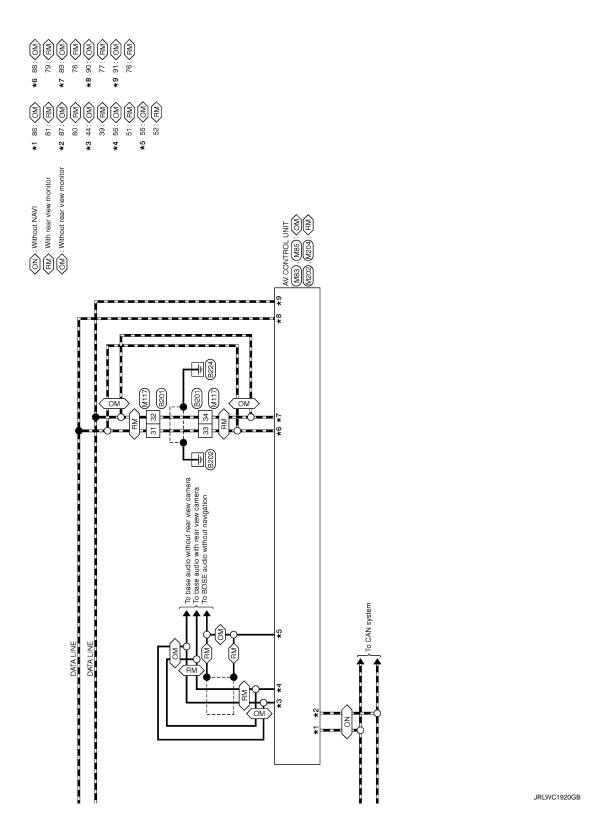
4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

REAR WINDOW DEFOGGER SYSTEM Α Wiring Diagram - DEFOGGER CONTROL SYSTEM -INFOID:0000000008161301 To BOSE audio with navigation AV CONTROL UNIT (M210): (NV) В MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH) (M72) C D ≥ Е IPDM E/R (INTELLIGENT POWER DOWER MODULE ENGINE ROOM) (E6) F (MD): With mirror defogger (NV): With NAVI (ON): Without NAVI SPU Н DATA LINK CONNECTOR M24 91 Me Me FUSE BLOCK (J/B) (M1), (M2), (M3), (B6) J DEFOGGER (B401), (B402) BCM (BODY CONTROL MODULE) (M118) (M119) (M123) IGNITION SWITCH ON or START 10A K CONDENSER B26 10A DEF 20A M 20A D31) Ν S BEFOGGER RELAY DEFOGGER 0 M5 10A BATTERY 2012/02/28 Р JRLWC1919GB



< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

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.

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 WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT/AUTO	Off
FR WIPER IN I	Front wiper switch INT/AUTO	On
ED WIDED STOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial posi tion
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI GIONIAL 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
LU DE AM OVA	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OW	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB OW O	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DAGGING GIA	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
ED E00 0W	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD SW AS	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On

Revision: 2012 July DEF-23 2013 G Coupe

С

Α

В

Е

D

F

Н

1

Κ

DEF

M

Ν

 \circ

Р

Monitor Item	Condition	Value/Status
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
001 1 001 011	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
1/5/ 0/4 11/ 0/4/	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
1/E// 0// 1/N 0/M	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
	Trunk lid opener cancel switch OFF	Off
TR CANCEL SW	Trunk lid opener cancel switch ON	On
TD/DD ODEN OW	Trunk lid opener switch OFF	Off
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	On
TONIZ/LIAT MAITO	Trunk lid closed	Off
TRNK/HAT MNTR	Trunk lid opened	On
REVERSE SW	NOTE: The item is indicated, but not monitored.	Off
DKE I OOK	LOCK button of the Intelligent Key is not pressed	Off
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
RRE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
ICKE-TIVIDO	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
TARE TAINIO	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
TARE 17W OF EN	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
OF HOME SENSOR	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
NEW OW -DIV	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
NEW OW TAU	Passenger door request switch is pressed	On

Monitor Item	Condition	Value/Status
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
	Trunk lid opener request switch is not pressed	Off
REQ SW -BD/TR	Trunk lid opener 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
IGN RLY2 -F/B	NOTE: The item is indicated, but not monitored.	Off
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
0111011011	The clutch pedal is not depressed	Off
CLUCH SW	The clutch pedal is depressed	On
	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 (OANOL OW)	Selector lever in P position (Except M/T models) The clutch pedal is depressed (M/T models)	Off
DETE/CANCL SW	Selector lever in any position other than P (Except M/T models) The clutch pedal is not depressed (M/T models)	On
CET DAI/ALC\A/	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
UNLK SEN -DR	Driver door is unlocked	Off
ONER SEN -DIX	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
1 0311 3W -11 DW	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
ION ICE 17-17B	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N (Except M/T models) The clutch pedal is not depressed (M/T models)	Off
O. 1 1 W -11 DIW	Selector lever in P or N position The clutch pedal is depressed	On
SFT P -MET	Selector lever in any position other than P	Off
OI I I -IVIL I	Selector lever in P position	On
SET N MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
ENCINE STATE	While the engine stalls	Stall
ENGINE 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 (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
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch is ON	Set
DDMT FNC CTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
KET SW -SLUT	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.	_
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRIMID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIDM 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
CONFIDM ID2	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM ID3	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIDM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRM IDT	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
174	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
1173	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
IP 2	The ID of second Intelligent Key is registered to BCM	Done
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet
TP 1	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 DECCE 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 DECCE 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
VAVA DANIANO I ARAD	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

M

DEF

Κ

Α

В

С

D

Е

F

G

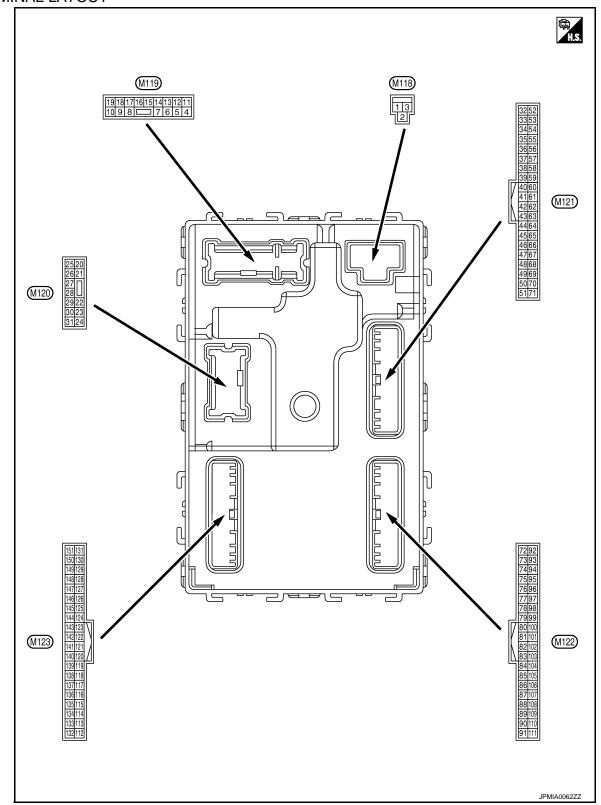
Н

Ν

0

Ρ

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. Description (Wire color)		1			Value		
+	color)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage	
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch (OFF	12 V	
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch (ON	12 V	
					mp battery saver is activated. or room lamp power supply)	0 V	
4 (LG)	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-	Output	Passenger	UNLOCK (Actuator is activated)	12 V	
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V	
7	Ground	Step lamp	Output	Step lamp	ON	0 V	
(SB)	Cround	Otep lamp	Output	Olop lamp	OFF	12 V	
8	Ground	All doors, fuel lid	Output All door	All doors, fuel	LOCK (Actuator is activated)	12 V	
(V)	Ground	Ground LOCK Output	Other	Other than LOCK (Actuator is not activated)	0 V		
9	Ground	Driver door, fuel lid	Output Driver door, fuel lid			UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK			fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch (OFF	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch (ON	0 V	
					OFF	0 V	
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 2 ms JSNIA0010GB	
15 (BG)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(DG)					ACC	0 V	

	nal No.	Description				Value
+ (Wire	color)	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 (V) 15 10 5 11 1 s PKID0926E 6.5 V
					Turn signal switch OFF	0 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	Craund	Interior room lamp	0454	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		T	0.1.1	T. 11:1	OPEN (Trunk lid opener actuator is activated)	12 V
(LG)	Ground	Trunk lid open	Output	Trunk lid	Other than OPEN (Trunk lid opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
30				Trunk room	ON	0 V
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V

	nal No.	Description	T.		0 199	Value					
+	color)	Signal name	Input/ Output		Condition	(Approx.)					
34		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 S S S S S S S S S					
(SB)	Ground	(-)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB					
35		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB					
(V)	Ground	(+) Output O	When Intelligent Key is no	OFF	Off	Output OFF	OFF	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	
38	Ground	Rear bumper anten-	Output	When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB					
(B)	Ground	na (–)	Output	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					

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
39	When the trunk lid opener re-		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB		
(W)	Ground	na (+)	Output	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
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V 0 V
50 (BG)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Trunk lid is opened)	0 V
				Ignition switch ON (A/T models) Ignition switch ON (M/T models)	When selector lever is in P or N position	12 V
52	0	Otantan nalawa a ntaal	Outrout		When selector lever is not in P or N position	0 V
(R)	Ground	Starter relay control	Output		When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0 V
60	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)	Orodria	switch (Push switch)	mput	(Push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
		Intelligent Key warn-		Intelligent Key	Sounding	0 V
64 (G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Value							
+	-	Signal name	Input/ Output		Condition	(Approx.)							
					Pressed	0 V							
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Not pressed	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB							
					When Intelligent Key is in the passenger compart-	(V) 15 10 5 0							
72 (D)	Ground	Room antenna 2 (–)	Output	Output	Output	Ignition switch	Ignition switch	Ignition switch	Ignition switch OFF	Ignition switch OFF	Ignition switch OFF	ment	JMKIA0062GB
(R)		(Center console)										When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0							
73		Room antenna 2 (+)		Ignition switch		JMKIA0062GB							
(G)	Ground (Center console)	Output	OFF		(V)								
				When Intelligent Key is not in the passenger compartment	15 10 5 0								
						JMKIA0063GB							

Revision: 2012 July DEF-33 2013 G Coupe

Р

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
74		Passenger door an-		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
(SB)	Ground	tenna (–)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
75	Ground	Passenger door an-	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 11 1 s JMKIA0062GB
(BR)	Sidurid	tenna (+)	Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
76	Ground	Driver door antenna	Quitout	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
(V)	Ground	(-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description			0 19	Value	А
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)	\wedge
77	Ground	Driver door antenna	Output	When the driver door request switch is oper-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(LG)	Glound	(+)	Output	ated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E F
78	Ground	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(Y)	Clound	(Instrument panel)	Cutput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J K
79	Crown	Room antenna 1 (+)	Outout	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 0 1 s JMKIA0062GB	M
(BR)	Ground	(Instrument panel)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	O P

	nal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(Y)	Ground	receiver communication	Output	When operating either button on the Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB
			Input	nput Combination switch	All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (Y)	Ground	Combination switch INPUT 5			Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

Terminal No. Description (Wire color)					Value		
+	-	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C D
88	Ground	Combination switch		Combination	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 2 ms JPMIA0036GB 1.3 V	E F
(BG)	Clound	INPUT 3	Input	switch	Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	G H
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	J K
90 (P)	Ground	CAN-L	Input/ Output		_	_	
91 (L)	Ground	CAN-H	Input/ Output		_	_	M
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	OFF Blinking ON	12 V (V) 15 10 5 0 JPMIA0015GB 6.5 V 0 V	N O P
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
` '					ON	0 V	

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
95	Cround	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
		Selector lever P posi-			P position	0 V
99		tion switch (A/T mod- els)		Selector lever	Any position other than P	12 V
(R)* ¹ (BR)* ²	Ground	ASCD clutch switch	Input	ASCD clutch	OFF (Clutch pedal is depressed)	0 V
		(M/T models)		switch	ON (Clutch pedal is not depressed)	12 V
		Passenger door request switch		Passenger door request switch	ON (Pressed)	0 V
100 (Y)	Ground		Input		OFF (Not pressed)	(V) 10 5 0 10 ms JPMIA0016GB
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(BG)	Giouna	lay control	Output	ignition switch	ON	12 V
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (DFF	12 V

Terminal No. Description				Value		
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume 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 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
(R)	Clound	INPUT 4		switch	Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB

Terminal No. Description (Wire color)				Value		
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 JPMIA0041GB 1.4 V
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					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

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	Value (Approx.)
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch (DN	(V) 15 10 5 0 10 10 10 10 10 10 10 10 10 10 10 10 1
113	Cround	Ontical canaar	lanut	Ignition switch	When bright outside of the vehicle	Close to 5 V
(BG)	Ground	Optical sensor	Input	ON	When dark outside of the vehicle	Close to 0 V
114	Ground	Clutch interlock	Input	Clutch interlock switch	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground	switch	при		ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
		Stop lamp switch 2 (Without ICC) Stop lamp switch 2 (With ICC)		Stop lamp	OFF (Brake pedal is not depressed)	0 V
118	Ground		_ Input	switch	ON (Brake pedal is depressed)	Battery voltage
(BR)	Cround				h OFF (Brake pedal is not ICC brake hold relay OFF	0 V
					h ON (Brake pedal is de- brake hold relay ON	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 1.1 V
					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
(SB)	Ground	Key slot switch	Input	When the Intelli- key slot	gent Key is not inserted into	0 V
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
(V)	2.300			g517 5 511	ON	Battery voltage

	nal No. color)	Description	Т		0 177	Value
+	–	Signal name	Input/ Output		Condition	(Approx.)
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	15 10 5 0
					ON	JPMIA0012GB 1.1 V 0 V
						(V)
132 (V)	Ground		Input/ Output	Ignition switch C	М	15 10 5 0
						JPMIA0013GB 10.2 V
				Ignition switch C	OFF or ACC ON (Tail lamps OFF)	12 V 9.5 V
133	Ground	Push-button ignition	Output	Push-button ig- nition switch il-	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.
(L)		switch illumination	Output	lumination	OFF	JPMIA0159GB
134				LOCK indicator	OFF	Battery voltage
(LG)	Ground	LOCK indicator lamp	Output	lamp	ON	0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)	Ground	power supply	Output	iginuon switch	ACC or ON	5.0 V

	nal No.	Description				Value
+ (VVire	color)	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D
(L)		er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0
140* ¹	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(B)	Oround	position	IIIput	Ocicotor icver	Except P and N positions ON	0 V
141 (W)	Ground	Security indicator lamp	Output	Security indicator lamp	Blinking	(V) 15 10 5 0 11.3 V
142 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper volume dial 4)	OFF All switches OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	12 V 0 V (V) 15 10 5 0 2 ms JPMIA0031GB 10.7 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper volume dial 4) Front wiper switch HI (Wiper volume dial 4) Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 Wiper volume dial 7	0 V (V) 15 10 5 0 2 ms JPMIA0032GB 10.7 V

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Constitues	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G) Grour	Ground	Combination switch OUTPUT 2			Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6	15 10 5 0 2 ms JPMIA0033GB 10.7 V
					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V) 15
145		Combination switch OUTPUT 3	Output	Combination switch (Wiper volume dial 4)	Front wiper switch LO	10
(L)	Ground				Lighting switch AUTO	5 0 10.7 V 10.7 V
				Combination	All switches OFF	0 V
		d Combination switch OUTPUT 4			Front fog lamp switch ON	(V) 15 10
					Lighting switch 2ND	
146	Ground		Output	switch	Lighting switch PASS	
(SB)	Ground		Output	(Wiper volume dial 4)	Turn signal switch LH	5 0 2 ms JPMIA0035GB
150 (GR)	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	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	2.54.14	ger relay control	- Supar	defogger	Not activated	Battery voltage

^{• *1:} A/T models

DEF

Κ

Α

В

С

D

Е

F

G

Н

M

Ν

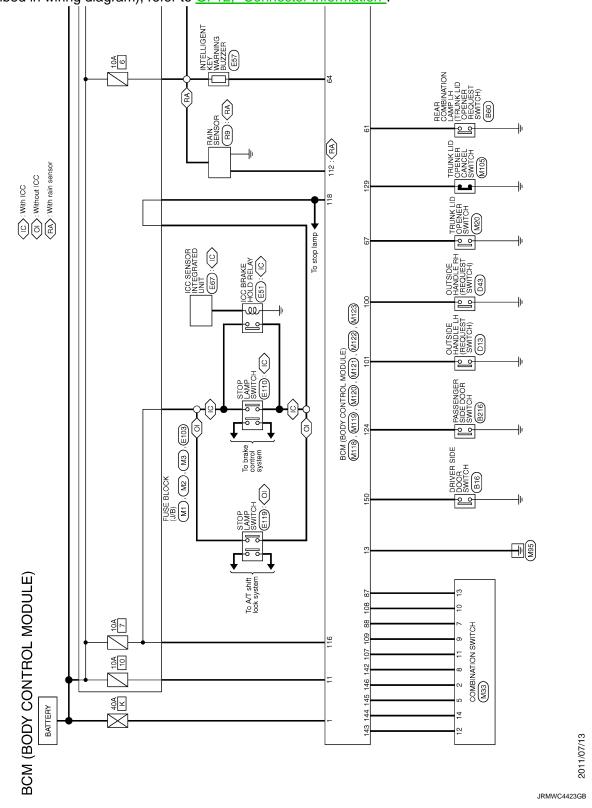
Ρ

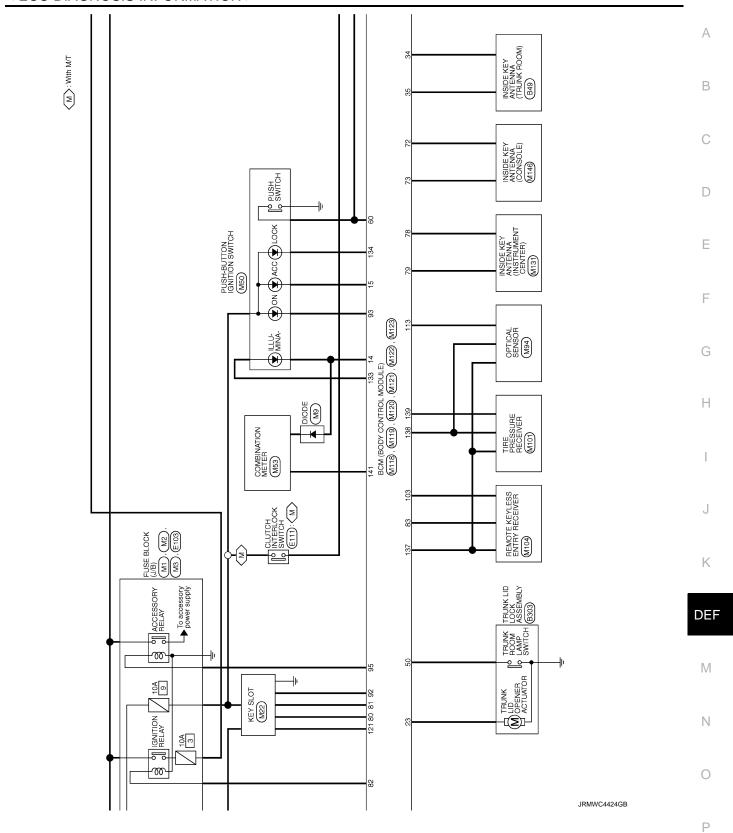
^{• *2:} M/T models

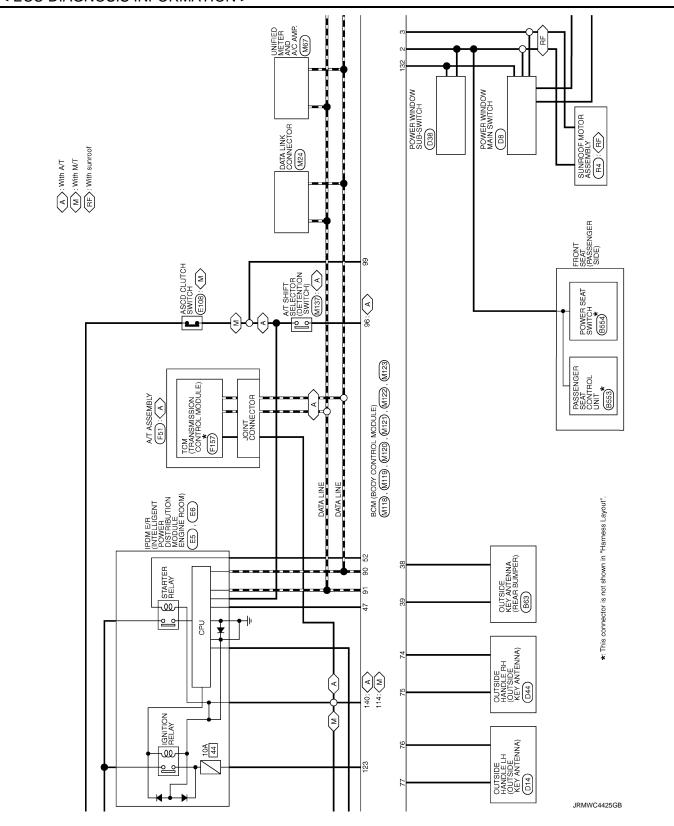
Wiring Diagram - BCM -

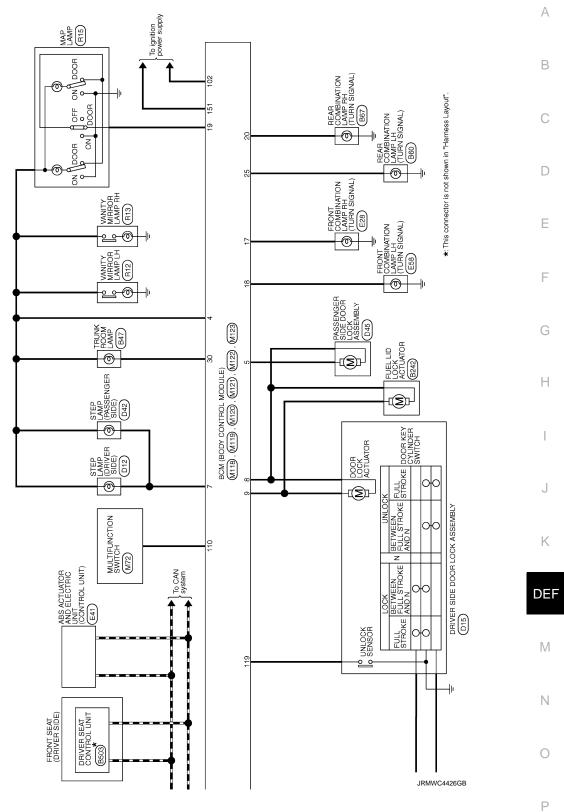
INFOID:0000000008814777

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".









Fail-safe INFOID:0000000008814778

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 (12 V) 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: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
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)

DTC Inspection Priority Chart

INFOID:0000000008814779

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 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	
	B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED	- A
	 B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION 	В
	 B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2608: STARTER RELAY 	С
4	B2608: STARTER RELAT B260A: IGNITION RELAY B260F: ENG STATE SIG LOST B2614: BCM	D
	 B2615: BCM B2616: BCM B2617: BCM B2618: BCM 	Е
	 B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E8: CLUTCH SW 	F
	B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED	G
	 C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL 	Н
5	 C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL 	I
	 C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	J
6	 B2621: INSIDE ANTENNA B2622: INSIDE ANTENNA B2623: INSIDE ANTENNA 	K DE

DTC Index INFOID:0000000008814780

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-16, "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	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-36
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-37
U0415: VEHICLE SPEED	_	_	_	_	BCS-38
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-51

DEF-51 Revision: 2012 July 2013 G Coupe

DEF

M

Ν

0

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
B2191: DIFFERENCE OF KEY	×	_	_	_	<u>SEC-54</u>
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-55
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-57
B2195: ANTI-SCANNING	×	_	_	_	<u>SEC-58</u>
B2553: IGNITION RELAY	_	×	_	_	PCS-48
B2555: STOP LAMP	_	×	_	_	<u>SEC-59</u>
B2556: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-61</u>
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-63</u>
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-64</u>
B2562: LOW VOLTAGE	_	×	_	_	BCS-39
B2601: SHIFT POSITION	×	×	×	_	<u>SEC-65</u>
B2602: SHIFT POSITION	×	×	×	_	<u>SEC-68</u>
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-70</u>
B2604: PNP/CLUTCH SW	×	×	×	_	<u>SEC-73</u>
B2605: PNP/CLUTCH SW	×	×	×	_	<u>SEC-75</u>
B2608: STARTER RELAY	×	×	×	_	<u>SEC-77</u>
B260A: IGNITION RELAY	×	×	×	_	PCS-50
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-79
B2614: BCM	_	×	×	_	PCS-52
B2615: BCM	_	×	×	_	PCS-54
B2616: BCM	_	×	×	_	PCS-56
B2617: BCM	×	×	×	_	SEC-83
B2618: BCM	×	×	×	_	PCS-58
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-59
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-85
B2621: INSIDE ANTENNA	_	×	_	_	DLK-55
B2622: INSIDE ANTENNA	_	×	_	_	<u>DLK-57</u>
B2623: INSIDE ANTENNA	_	×	_	_	DLK-59
B26E8: CLUTCH SW	×	×	×	_	SEC-80
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	SEC-82
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	\\/T_10
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-19</u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	<u>WT-21</u>
C1710: [NO DATA] RR			_	×	
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	Refer- ence page
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT-24
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>VV 1-24</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-25</u>
C1734: CONTROL UNIT	_	_	_	×	<u>WT-26</u>

Е

Α

В

С

D

F

G

Н

J

Κ

DEF

 \mathbb{N}

Ν

0

REAR WINDOW DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR WINDOW DEFOGGER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000008161307

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to DEF-9, "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-10, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to DEF-12, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1.

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OPERATE

SYMPTOM DIAGNOSIS >

	А
Diagnosis Procedure	В
1. CHECK REAR WINDOW DEFOGGER SWITCH	
Check rear window defogger switch. Refer to DEF-9, "Component Function Check". Is the inspection result normal?	С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	D
2.CHECK REAR WINDOW DEFOGGER RELAY	
Check rear window defogger relay. Refer to DEF-10, "Component Function Check".	Е
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	F
3.CONFIRM THE OPERATION	G
Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	Н
	I
	J
	K
	DEF
	M
	Ν
	0

Revision: 2012 July DEF-55 2013 G Coupe

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:0000000008161309

1. CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to DEF-12, "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-43. "Intermittent Incident".

NO >> GO TO 1.

DOOR MIRROR DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DOOR MIRROR DEFOGGER DOES NOT OPERATE BOTH SIDES	А
BOTH SIDES : Diagnosis Procedure	В
1. CHECK DOOR MIRROR DEFOGGER	Ь
Check door mirror defogger. Refer to <u>DEF-15</u> , "Component Function Check". Is the inspection result normal?	С
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	D
Confirm the operation again.	Е
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. DRIVER SIDE	F
DRIVER SIDE : Diagnosis Procedure	G
1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER	
Check driver side door mirror defogger. Refer to DEF-17, "Component Function Check".	Н
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION	I
Confirm the operation again.	J
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. PASSENGER SIDE	K
PASSENGER SIDE : Diagnosis Procedure	DEF
1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER.	M
Check passenger side door mirror defogger. Refer to DEF-19, "Component Function Check".	1 V I
Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	N
2.CONFIRM THE OPERATION	0
Confirm the operation again. Is the inspection result normal?	
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	Р

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:0000000008161313

1. CHECK AV CONTROL UNIT FUNCTION

Check that the AV control unit is operating normally.

Base audio without rear view camera refer to <u>AV-11, "Work Flow"</u>. Base audio with rear view camera refer to <u>AV-139, "Work Flow"</u>.

BOSE audio without navigation refer to AV-253, "Work Flow".

BOSE audio with navigation refer to AV-374, "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-43, "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:0000000008161314 1. CHECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH) В Check rear window defogger operate. YES >> Replace multifunction switch (rear window defogger switch). Refer to AV-91, "Removal and Instal-NO >> Check rear window defogger system. Refer to DEF-3, "Work Flow" D Е F Н J Κ DEF M Ν 0

Revision: 2012 July DEF-59 2013 G Coupe

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.

INFOID:0000000008161316

Precaution for Battery Service

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

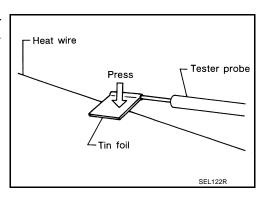
REMOVAL AND INSTALLATION

FILAMENT

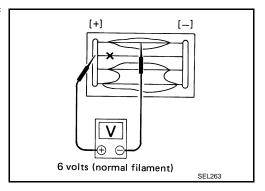
Inspection and Repair

INSPECTION

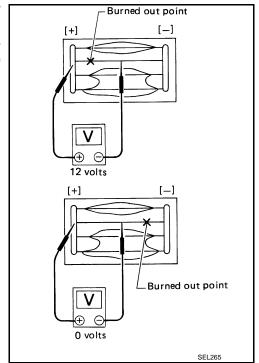
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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 will swing abruptly when probe passes the point.



REPAIR

REPAIR EQUIPMENT

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

Revision: 2012 July DEF-61 2013 G Coupe

DEF

K

Α

В

D

Е

F

Н

INFOID:0000000008161317

M

Ν

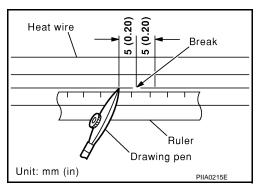
 \circ

< REMOVAL AND INSTALLATION >

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

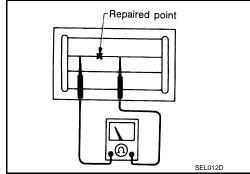
REPAIRING PROCEDURE

- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen.
 - Shake silver composition container before use.
- 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.



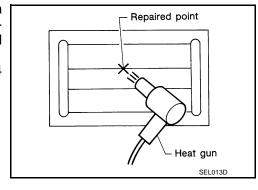
4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

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.



CONDENSER

< REMOVAL AND INSTALLATION >

CONDENSER

Exploded View

Refer to INT-15, "Exploded View"

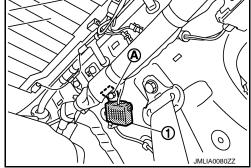
Removal and Installation

REMOVAL

1. Remove the rear seat cushion and the rear seatback. Refer to <u>SE-176</u>, "Removal and Installation"

2. Remove the rear kickplate, rear wheel well garnish and the rear pillar finisher. Refer to INT-15, "Removal and Installation"

3. Remove bolt (A), and then remove condenser (1) from the vehicle body.



INSTALLATION

Install in the reverse order of removal.

DEF

K

Α

В

D

Е

F

Н

M

N

0