SECTION DEF DEFOGGER С

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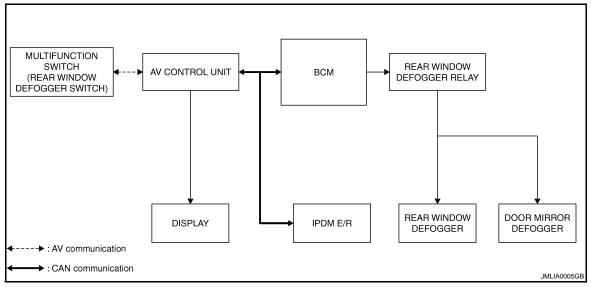
< BASIC INSPECTION >	
BASIC INSPECTION	А
DIAGNOSIS AND REPAIR WORK FLOW	
Work Flow	В
DETAILED FLOW	
1.OBTAIN INFORMATION ABOUT SYMPTOM	С
Interview the customer to obtain the malfunction information (conditions and environment when the malfunc- tion occurred) as much as possible when the customer brings the vehicle in.	D
>> GO TO 2.	
2.CHECK DTC	Е
Perform self diagnosis with CONSULT-III	
Is any DTC detected?	F
YES >> Refer to <u>BCS-73, "DTC Index"</u> NO >> GO TO 3.	
3. REPRODUCE THE MALFUNCTION INFORMATION	C
Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur.	G
>> GO TO 4.	Н
4. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"	
Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start perform- ing the diagnosis based on possible causes and symptoms.	I
>> GO TO 5.	J
5. IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"	
Perform the diagnosis with "Component diagnosis" of the applicable system.	Κ
>> GO TO 6.	
6. REPAIR OR REPLACE THE MALFUNCTIONING PARTS	DEF
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?	0
YES >> INSPECTION END NO >> GO TO 4.	
	Р
	-

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION REAR WINDOW DEFOGGER SYSTEM

System Diagram

INFOID:000000005658149



System Description

INFOID:000000005658150

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.

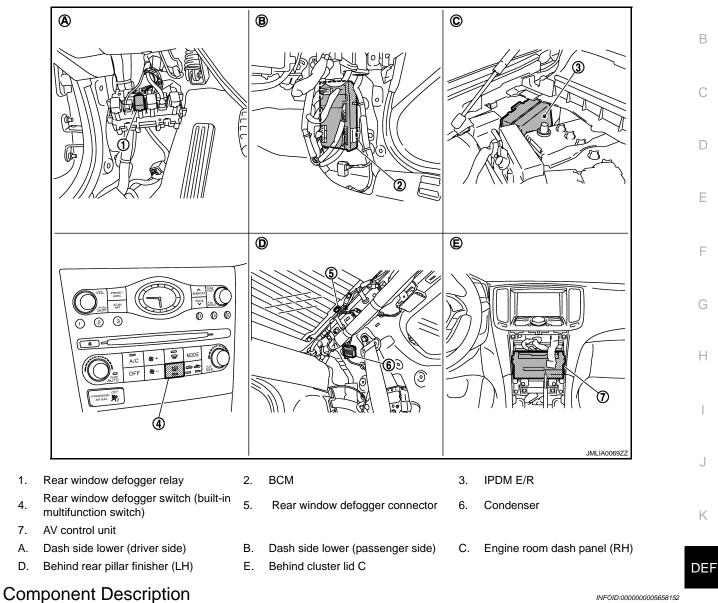
Timer function

- 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.

< SYSTEM DESCRIPTION >

Component Parts Location

А



INFOID:000000005658152

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

1.

4.

7.

Α.

D.

Revision: 2009 November

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

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

INFOID:000000005658153

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 opera- tion 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	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.

Curata m	Sub system selection item	Diagnosis mode		
System		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*			
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	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:

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

FREEZE FRAME DATA (FFD)

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

DEF-6

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	/ehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer	r 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".)	
Vehicle Condition	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	Power 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" (Emer- gency 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" (Ignition switch OFF with steer- ing 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 is 0 when The number increases whenever ignition swit 	t ignition switch is turned ON after DTC is detected a malfunction is detected now. If the $1 \rightarrow 2 \rightarrow 338 \rightarrow 39$ after returning to the normal condition the OFF \rightarrow ON.	

REAR WINDOW DEFOGGER

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

INFOID:000000005658154

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Data monitor

Monitor Item	Description	Р
REAR DEF SW	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.

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >		
DTC/CIRCUIT DIAGNOSIS		Λ
REAR WINDOW DEFOGGER SWITCH		А
Description	INFOID:000000005658156	В
 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.	0
Component Function Check	INFOID:000000005658157	С
1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION		D
Check that the indicator lamp of rear window defogger illuminates when rear window defogger s Is the inspection result normal? YES >> Rear window defogger switch function is OK. NO >> Refer to DEF-9, "Diagnosis Procedure"	switch ON.	E
Diagnosis Procedure	INFOID:000000005887724	F
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> 		G
 Base audio with rear view camera. Refer to <u>AV-111, "On Board Diagnosis Function"</u> BOSE audio without navigation. Refer to <u>AV-230, "On Board Diagnosis Function"</u> BOSE audio with navigation. Refer to <u>AV-366, "On Board Diagnosis Function"</u> 		Н
<u>Is the inspection result normal?</u> YES >> INSPECTION END NO >> Replace multifunction switch (rear window defogger switch). Refer to <u>AV-97, "Remo</u> <u>lation"</u>	oval and Instal-	I
		J
		Κ

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REAR WINDOW DEFOGGER RELAY

Revision: 2009 November

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description

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

Component Function Check

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

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 relay power supply circuit is OK.
- NO >> Refer to <u>DEF-10. "Diagnosis Procedure"</u>

Diagnosis Procedure

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.
- 2. Check voltage between BCM harness connector and ground.

	(+) BCM		Condition		Voltage (V) (Approx.)	
Connector	Terminal				(TT -)	
M123	151	Ground	Rear window defogger	ON	0	
WI123	151 Ground	Ground	switch	OFF	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3.CHECK REAR WINDOW DEFOGGER CIRCUIT 2

1. Turn ignition switch OFF.

2. Disconnect BCM connector and rear window defogger relay.

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

B	BCM		Fuse block (J/B)		
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 <u>DEF-11, "Component Inspection"</u> <u>Is the inspection result normal?</u> INFOID:000000005658159

INFOID:000000005658160

INFOID:000000005658161

REAR WINDOW DEFOGGER RELAY

		DEFOGGER RELAY	
	IAGNOSIS >		
YES >> GO TO NO >> Replace			
5.CHECK FUSE B	e rear window defogger relay.		
	window defogger relay.		
2. Turn ignition sw			
3. Check voltage l	between fuse block (J/B) (fuse blo	ock side) and ground.	
	(+)		
	Fuse block (J/B)	(-)	Voltage (V) (Approx.)
Connecto	r Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
M2	4B	Ground	Battery voltage
Is the inspection res			
YES >> GO TO NO >> Repair	6. or replace fuse block (J/B).		
^ '			
Check intermittent i			
Refer to <u>GI-38, "Inte</u>			
>> INSPE	CTION END		
Component Ins	pection		INFOID:00000005658162
1 OUFOK DEAD V	VINDOW DEFOGGER RELAY		
I.CHECK REAR V			
4 T ' '''			
2. Disconnect rea	vitch OFF. r window defogger relay. dow defogger relay.		
 Disconnect rea Check rear win 	r window defogger relay.		
 Disconnect rea Check rear win Terminal 	r window defogger relay. dow defogger relay.	Continuity 3	
 Disconnect rea Check rear win 	r window defogger relay.	Continuity	
 Disconnect rea Check rear win Terminal Rear window 	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter	Continuity	
 Disconnect rea Check rear win Terminal Rear window 	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2.	mi- Existed	5
2. Disconnect rea 3. Check rear win Terminal Rear window defogger relay 3 5	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2. No current supply	Continuity	
 Disconnect rea Check rear window Terminal Rear window defogger relay 3 5 Is the inspection res 	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2. No current supply sult normal?	mi- Existed	
2. Disconnect rea 3. Check rear win Terminal Rear window defogger relay 3 5 <u>Is the inspection res</u> YES >> INSPEC	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2. No current supply sult normal? CTION END	mi- Existed	
2. Disconnect rea 3. Check rear win Terminal Rear window defogger relay 3 5 Is the inspection res YES >> INSPEC	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2. No current supply sult normal?	mi- Existed	
2. Disconnect rea 3. Check rear win Terminal Rear window defogger relay 3 5 Is the inspection res YES >> INSPEC	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2. No current supply sult normal? CTION END	mi- Existed	
2. Disconnect rea 3. Check rear win Terminal Rear window defogger relay 3 5 Is the inspection res YES >> INSPEC	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2. No current supply sult normal? CTION END	mi- Existed	
2. Disconnect rea 3. Check rear win Terminal Rear window defogger relay 3 5 Is the inspection res YES >> INSPEC	r window defogger relay. dow defogger relay. Condition 12 V direct current supply between ter nals 1 and 2. No current supply sult normal? CTION END	mi- Existed	

0

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< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER

Description

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

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-12</u>, "Diagnosis Procedure"

Diagnosis Procedure

1.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check the following.
- 20A fuse [No.14, located in fuse block (J/B)]
- 20A fuse [No.15, located in fuse block (J/B)]

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.

2. Check voltage between rear window defogger connector and ground.

	+) ow defogger	(-)	(–) Condition		Voltage (V) (Approx.)
Connector	Terminal				(
P401	1	Ground	Rear window defogger	ON	Battery voltage
B401	I Grou	Ground	switch		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	Terminal	Ground	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

INFOID:000000005658163

INEOID-000000005658164

INFOID:000000005658165

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. 3.

	Condenser			Rear window de	efogger		Operationsity
Connector		Terminal	Con	nector	Teri	minal	Continuity
B26		1	В	401		1	Existed
Check continuity	y betwee	n condenser (condenser	side) connector	r and g	round.	
	Cond						Continuity
Connector		Termi	nal	Grou	nd		
B26		1					Not existed
ne inspection res ES >> GO TO D >> Replace CHECK REAR W	5. e condens	ser. Refer to <u>D</u>		moval and Inst	allation	<u>"</u>	
Disconnect fuse Check continuity			I/B) harnes	s connector and	d cond	enser har	ness connector.
Fus	e block (J/E	3)		Condense	er		Continuity
Connector		Terminal	Con	nector	Teri	minal	Continuity
B6		10G	E	B26 1		1	Existed
		11G					
Check continuity	y betwee	n fuse block (.	J/B) harnes	s connector and	d grou	nd.	
	Fuse blo	ock (J/B)					
Connector		ock (J/B) Termi	nal	-	nd		Continuity
				- Grou	Ind		
B6		Termi 100 110	3	Grou 	nd		Continuity Not existed
	ult norma 6. or replace LOCK (J/ itch ON.	Termi 100 110 <u>al?</u> e harness. (B)	3				
B6 ES >> GO TO D >> Repair of CHECK FUSE B Turn ignition sw Check voltage b	ult norma 6. or replace LOCK (J/ itch ON.	Termi 100 110 <u>al?</u> e harness. (B)	3				Not existed
B6 The inspection res ES >> GO TO D >> Repair of CHECK FUSE BI Turn ignition sw Check voltage b (ult norma 6. or replace LOCK (J/ itch ON. between f	Termi 100 110 <u>al?</u> e harness. (B)	3	k side) and gro		n	
B6 The inspection res ES >> GO TO D >> Repair of CHECK FUSE BI Turn ignition sw Check voltage b (ult norma 6. Dr replace LOCK (J/ itch ON. between f +) ock (J/B)	Termi 100 110 <u>al?</u> e harness. (B)	3 3 3) (fuse bloc	k side) and gro	bund.		Not existed Voltage (V) (Approx.)
B6 The inspection res ES >> GO TO D >> Repair of CHECK FUSE B1 Turn ignition sw Check voltage b (Fuse b1	ult norma 6. Dr replace LOCK (J/ itch ON. between f +) ock (J/B) Terr	Termi 100 110 110 110 100 e harness. /B) fuse block (J/B	3 3 3) (fuse bloc	ck side) and gro	ound. Conditio	ON	Not existed Voltage (V) (Approx.) Battery voltage
B6 The inspection res ES >> GO TO D >> Repair of CHECK FUSE B1 Turn ignition sw Check voltage b (Fuse b1	ult norma 6. Dr replace LOCK (J/ itch ON. between f +) ock (J/B) Terr	Termi 100 110 110 110 110 110 110 110 110 11	3 3 3) (fuse bloc	k side) and gro	ound. Conditio	ON OFF	Not existed Voltage (V) (Approx.) Battery voltage 0
B6 The inspection resident of the second se	ult norma 6. Dr replace LOCK (J/ itch ON. between f +) ock (J/B) Terr 10	Termi 100 110 110 110 110 110 110 110 110 11	6) (fuse bloc (–)	ck side) and gro	ound. Conditio	ON	Not existed Voltage (V) (Approx.) Battery voltage

Check filament. Refer to DEF-14, "Component Inspection" А

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair filament.

 $8. {\sf CHECK} {\sf INTERMITTENT} {\sf INCIDENT}$

Check intermittent incident. Refer to <u>GI-38, "Intermittent Incident"</u>

>> INSPECTION END

Component Inspection

INFOID:000000005658166

1.CHECK FILAMENT

Check the filament for damage or blown. Refer to <u>DEF-69</u>, "Inspection and Repair"

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair filament.

DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIA	AGNOSIS >		R DEFO	GGER		
DOOR MIRRO	R DEFOGGER					
Description						INFOID:000000005658167
Power is supplied to	the door mirror defogg	er with BCI	M control.			
Component Fun	ction Check					INFOID:000000005658168
1.CHECK DOOR M	IRROR DEFOGGER					
 Touch "ON". Check that both Is the inspection result YES >> Door minimal provided to the second second	ror defogger is OK.	is getting w		Ι.		
	DEF-15, "Diagnosis Pi	rocedure"				
Diagnosis Proce	uure					INFOID:000000005658169
1. CHECK FUSE						
2.CHECK POWER 1. Disconnect door 2. Turn ignition swit	2. the blown fuse after re SUPPLY CIRCUIT mirror (driver side) cor	nnector.				
(+)					
Door mirror ((—)		Condition	ı	Voltage (V) (Approx.)
Connector	Terminal					
D3	4	Ground	Rear windo switch	ow defogger	ON OFF	Battery voltage
1. Turn ignition swit	5. 3. SIDE DOOR MIRROR	DEFOGGI		T		
		J/B) harnes	s connecto	or and door	r mirror (dr	iver side) harness con-
Fuse	block (J/B)		Door mirror nector	(driver side)	ninal	Continuity
M3	10C		D3		ninai 4	Existed

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

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

Is the inspection result normal?

Ρ

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	Ground	Rear window defogger	ON	Battery voltage
IVIS	100	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 <u>GI-38. "Intermittent Incident"</u>.

>> INSPECTION END

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIA		SIDE DOOR	MIRROR DE	EFOG	GER	
DRIVER SIDE	DOOR MIR	ROR DEFC	OGGER			
Description						INFOID:000000005658170
Heats the heating win	e with the power	supply from the	e rear window de	efogge	er relay to pro	event the door mirror
Component Fund	tion Check					INFOID:000000005658171
1.CHECK DRIVER S	SIDE DOOR MIR	ROR DEFOGGI	ER			
I. Perform Active Te	est ("REAR DEFC	DGGER") with C	ONSULT-III.			
 Touch "ON". Check that the dr 	iver side door mi	rror glass is gett	ing warmer.			
s the inspection resul						
YES >> Driver sid NO >> Refer to [e door mirror def	ogger is OK. sis Procedure"				
- Diagnosis Proced	_					INFOID:000000005658172
.CHECK POWER S		г				
 Turn ignition swite Check voltage be (+) 	tween door mirro	or (driver side) ha	arness connecto	or and	ground.	
Door mirror (driver side)	(—)	1	(–) Condition	Voltage (V) (Approx.)	
Connector	Terminal					
D3	4	Ground	Rear window det switch	fogger	ON OFF	Battery voltage
s the inspection resul	t normal?					, , , , , , , , , , , , , , , , , , ,
YES >> GO TO 3 NO >> GO TO 2						
CHECK DRIVER S	Side door mir	ROR DEFOGGI	ER CIRCUIT			
I. Turn ignition swite	ch OFF.			d door	mirror (drive	er side) harness con-
Fuse	block (J/B)		Door mirror (drive	er side)		Continuity
Connector	Terminal		nector	Term		·
M3 . Check continuity	10C between fuse blo		D3 s connector and	4 groun		Existed
,		. ,		5		
Connector	Fuse block (J/B)	Terminal	Groun	nd		Continuity
M3		10C				Not existed
s the inspection resul	It normal?		1			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between door mirror (driver side) harness connector and ground.

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

	Door mirror	(driver side)		Continuity	
	Connector	Terminal	Ground	Continuity	
	D3	8	-	Existed	
Is the	e inspection result norma	al?			

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

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to GI-38, "Intermittent Incident"

Is the inspection result normal?

>> INSPECTION END

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >		
PASSENGER SIDE DOOR	MIRROR	DEEOGGER

Description

Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror $_{\rm B}$ from fogging up.

Component Function Check

1.CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

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

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>, "Diagnosis Procedure"

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.

_		+) bassenger side)	()	Condition		Voltage (V) (Approx.)	
	Connector	Terminal				(I
	D33	Δ	Ground	Rear window defogger	ON	Battery voltage	
	033	4	Ground	switch	OFF	0	J

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.

Check continuity between fuse block (J/B) harness connector and door mirror (passenger side) harness connector.

IVI	Continuity	Door mirror (passenger side)		Fuse block (J/B)	
	Continuity	Terminal	Connector	Terminal	Connector
N	Existed	4	D33	9C	M3

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

Fuse blo	Fuse block (J/B) Connector Terminal M3 9C		Continuity	0
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

1. Turn ignition switch OFF.

2. Check continuity between door mirror (passenger side) harness connector and ground.

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INFOID:000000005658173

INFOID:000000005658174

INFOID:000000005658175

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Door mirror (p	assenger side)		Continuity	
Connector	Terminal	Ground	Continuity	
D33	8		Existed	
	10			

Is the inspection result normal?

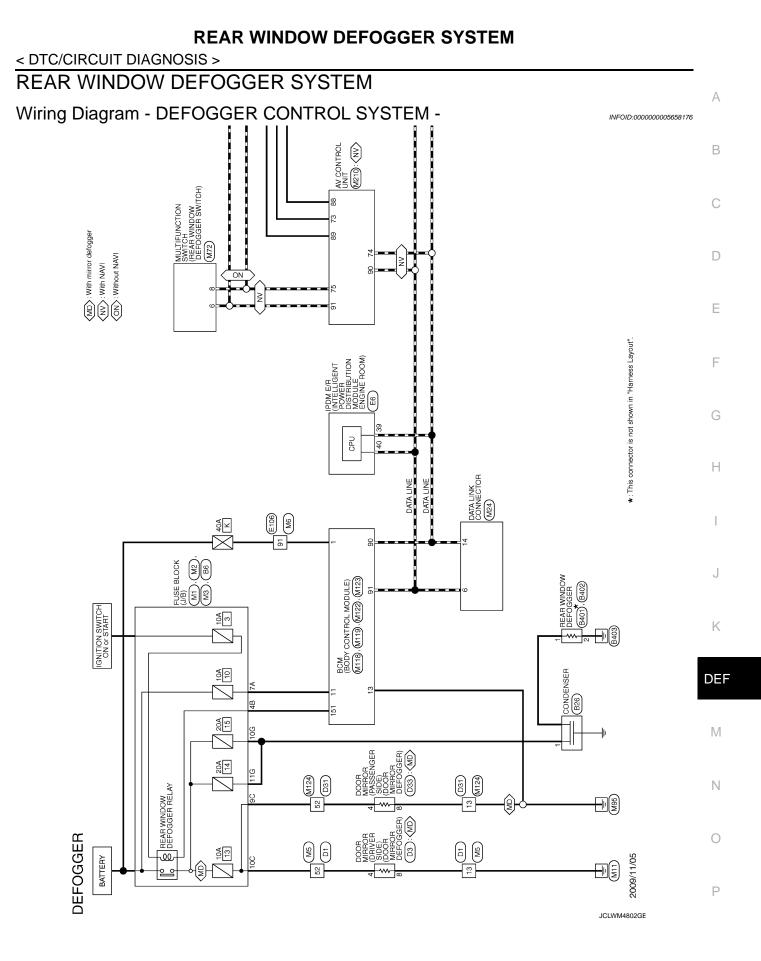
YES >> Replace door mirror glass (passenger side). Refer to <u>MIR-20, "GLASS MIRROR : Disassembly</u> and <u>Assembly"</u>

NO >> Repair or replace harness.

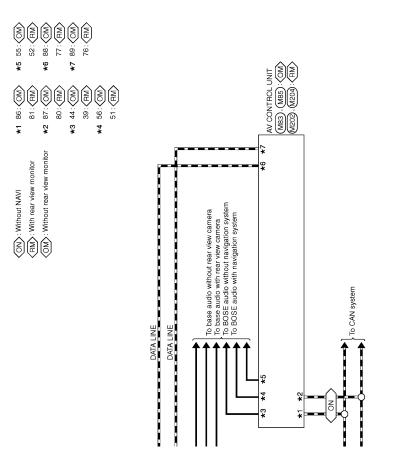
4.CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-38, "Intermittent Incident"</u>

>> INSPECTION END

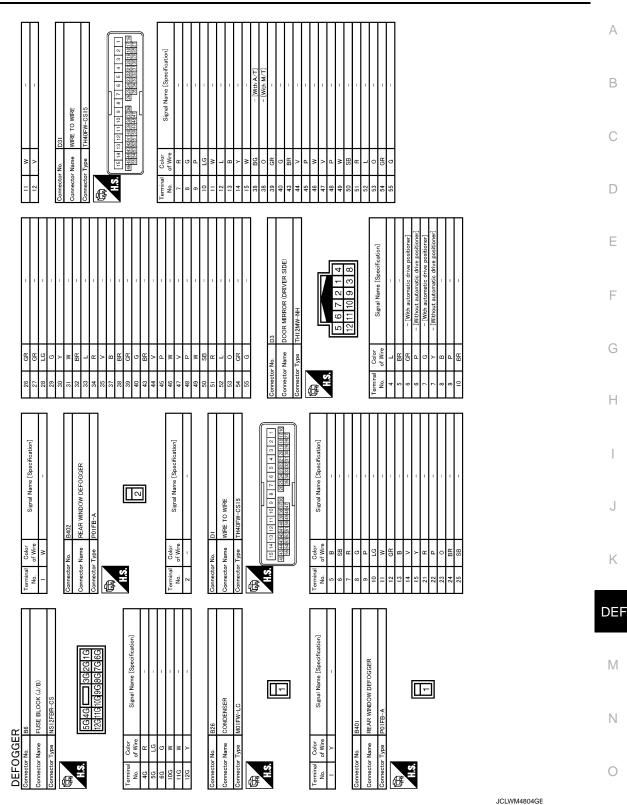


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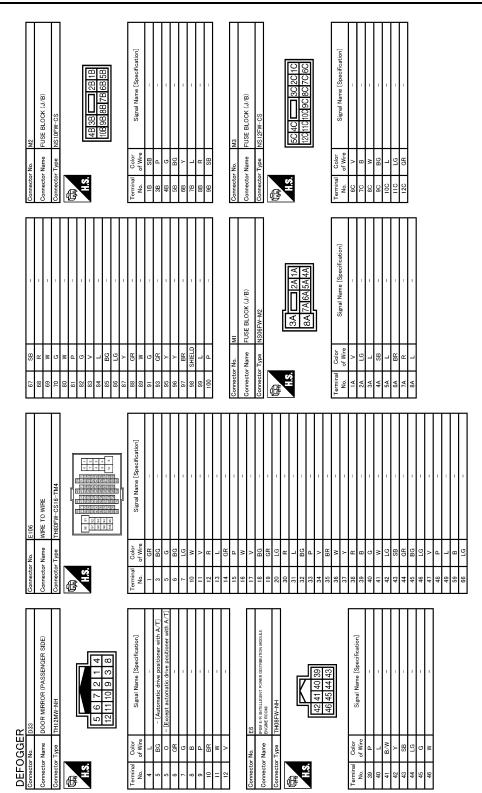
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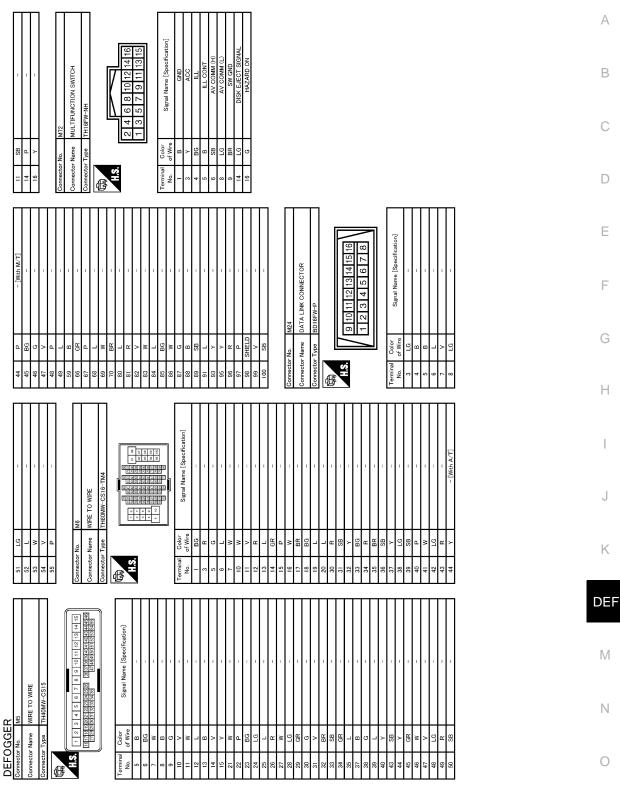
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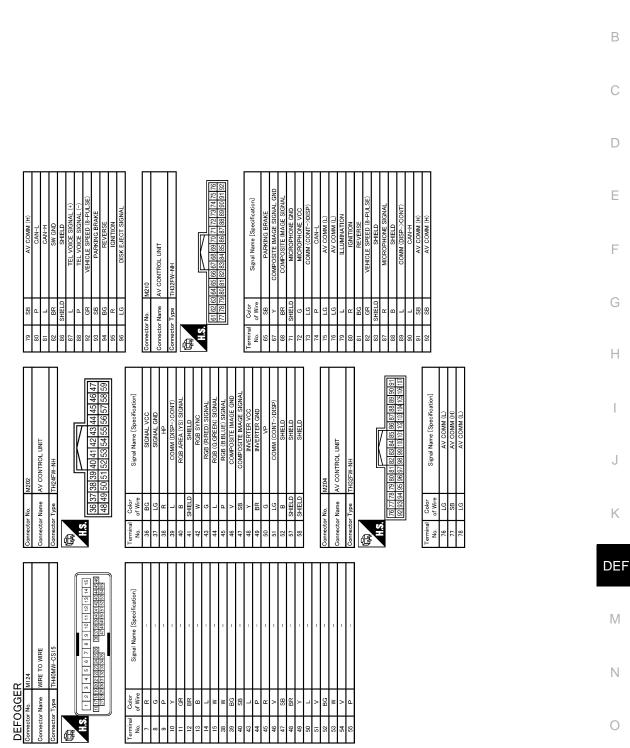
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< DTC/CIRCUIT DIAGNOSIS >

DRIVER DOOR REQUEST SW BLOWRE FAN MOTOR REQUEST SW KEVLESS BHITR RECENCER POWER SUPPLY S'L UNIT POWER SUPPLY S'L UNIT POWER SUPPLY S'L UNIT POWER SUPPLY COMEI SW INPUT 7 COMEI SW INPUT 7	NI23 S/L UNIT COMM BEG (BODY CONTROL MODULE) TH40FG-NH TH40FG-NH	Signal Name [Specification] RAINI SENSOR REPIAL LIJIK OPTICAL SENSOR OPTICAL SENSOR CICTICA INTERPOOK SW STOPL LAMP SW 1 STOPL LAMP SW 2 DR DOOR JULICOX SMOOR NEY SLOT SW FAXSENGER POR SW	TRUKLID OPPLIER CAACEL SW POWER WINDOW SY COMM PUSH-BUTTON IGATITON SW 1LL POWER LOCK IND LL POWER RECEIVER / SENSOR GAID RECEIVER / SENSOR PADD RECEIVER / SENSOR PADD RECEIVER / SENSOR RECEIVER COMM SHET N/P SHET N/P SCOMEI SW OUTPUT 1 COMBI SW OUTPUT 1 COMBI SW OUTPUT 1 COMBI SW OUTPUT 1	COMBLSWOTTPT 3 COMBLSWOTTPT 3 TIRE PRESSURE WARN CHECK SW DRIVER DOOR SW REAR WINDOW DEFOGGER RELAY CONT
	111 4 111 7 Connector Name Connector Type LS	LG Color	┟┽┼┼┼┼┼┼┼┼┼	u a a a a a
101 103 106 107 108 109		Terminal No. 112 114 118 118 118 119 121 121 121	129 133 134 139 134 130 134 140 141 141	140 146 150 151
ALL DOOR FUEL LID LOCK OUTPUT DRIVER DOOR FUEL LID UNLOCK OUTPUT BAT (FUBE) I AT (FUBE) PUSH-BUTTON I GATTON SM LL GAD PUSH-BUTTON AGT ND TUBA SIGNAL 1 JE (FEONT) TUBA SIGNAL 1 JE (FEONT)	MI22 ROM LAMP TIMER CONTROL BCM (BODY CONTROL MODULE) THHOFB-NH THHOFB-NH THHOFB-NH THHOFB-NH	Signal Name [Specification] POOMAAT 2- ROOMAAT 2- ROOMAAT 2- ROOMAAT 2- PASSENGER DOORAAT- PASSENGER DOORAAT- DRIVER DOORAAT- ROOMAAT 1- ROOMAAT 2- ROOMAAT 1- ROOMAAT 1- ROOM	MATS SAITT ANP MATS SAITT ANP GIA RELAY (F-B) CONT KEVLESS ENTRY RECEIVER COMM COMELSW INPLT 3 COMELSW INPLT 3	S.L. CUMUTION 1 S.L. CUMUTION 1 S.L. CONDITION 2 HET P [Wrh A.T] ICC CLUTCH SW [M.T models without [CC] ASCD CLUTCH SW [M.T models without [CC] PASSENGER DOOR RECULEST SW
	BG er Name 17pe	al Color of Wire BR SSB G R BR Color BR Color BR Color BR Color BR Color Color BR Color Co	- GR GR C - P R GR ≺ ≺ < ×	ר א א די 8 <u>8</u> ר א איז איז איז איז איז איז איז איז איז א
8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 Connectt Connectt	Terminal No. 72 75 75 76 77 77 77 78 78 78 80	82 83 82 82 82 82 82 82 82 82 82 82 82 82 82	99 99 99 99
α 88 12 88 12 α ≥ α	ID End AUX SOUND SIGNAL AND 101 ER FUS SURAL SIGNAL 103 LG ELECT SIGNAL IGNITION 104 BG FLET SIGNAL IGNITION 105 BG FLET SIGNAL IGNITION 106 SB FLET SIGNAL IGNITION 107 GR FREREIG FLET SIGNAL 109 GR FRENEIG FLET SIGNAL 100 GR VEHICLE SPEED FLET SIGNAL Connector Name BCM (BODY CONTROL MODULE) Connector Type M03FB-LC	Terminal of Wise Control 1 L 2 V 2 POWER WINDOW POWER SUPPLY (BAT) 3 BG	Connector No. M119 Connector Name BCM (BDDY CONTROL MODULE) Connector Type NS16FW-CS Connector Type NS16FW-CS Liss 4 5 6 7 7 9 9 10 11 12 13 14 15 16 17 18 19	Terminal Color Signal Name Specification] No. of Wire Signal Name Specification] 4 LG INTERIOR NOM LAMP POWER SUPPLY 5 P PASSENGER DOOR UNLOCK OUTPUT 7 SB STEP LAMP OUTPUT
DEFOGGER Connector No. M83 connector Name AV CONTROL UNIT Connector Type TH24FW-NH	[47] 46[45] 44] 42] 41] 40] 39] 38] 37 38 Terminal Color 55 54 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 55 54 53 53 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 54 56 <td< td=""><td>44 L COMM (DISP-VOUN) 46 LG SIGNAL QND 47 LG SIGNAL UCC 48 EG SIGNAL UCC 49 EG SIGNAL UCC 40 EG SIGNAL UCC 41 EG SIGNAL UCC 42 EG SIGNAL UCC 43 EG SIGNAL UCC 44 EG SIGNAL UCC 55 E SIGNAL UCC 56 E COMM (CUCT->DISP) 57 LG COMM (CUCT->DISP) 58 ER MATERTE WO 59 LG COMM (CUCT->DISP) 59 LG MATERTER WO 59 Y INVERTER VCC</td><td>Connector No. M85 Connector Name AV CONTROL UNIT Connector Type TH32FW-NH Connector Type TH32FW-NH Connector Type BS 686 684 68 68 180 73 78 77 76 UPT066 061001 030 688 683 88 180 73 78 77 76</td><td>Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 85 B GND 86 L GAN-H</td></td<>	44 L COMM (DISP-VOUN) 46 LG SIGNAL QND 47 LG SIGNAL UCC 48 EG SIGNAL UCC 49 EG SIGNAL UCC 40 EG SIGNAL UCC 41 EG SIGNAL UCC 42 EG SIGNAL UCC 43 EG SIGNAL UCC 44 EG SIGNAL UCC 55 E SIGNAL UCC 56 E COMM (CUCT->DISP) 57 LG COMM (CUCT->DISP) 58 ER MATERTE WO 59 LG COMM (CUCT->DISP) 59 LG MATERTER WO 59 Y INVERTER VCC	Connector No. M85 Connector Name AV CONTROL UNIT Connector Type TH32FW-NH Connector Type TH32FW-NH Connector Type BS 686 684 68 68 180 73 78 77 76 UPT066 061001 030 688 683 88 180 73 78 77 76	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 85 B GND 86 L GAN-H

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REAR WINDOW DEFOGGER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

ECU DIAGNOSIS INFORMATION BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005887719

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
	Other than front wiper switch HI	Off
FR WIPER HI FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP NT VOLUME TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW	Front wiper switch HI	On
	Other than front wiper switch LO	Off
FR WIPER HI FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP NT VOLUME TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW FR FOG SW COOR SW-DR	Front wiper switch LO	On
	Front washer switch OFF	Off
TR WASHER SW	Front washer switch ON	On
	Other than front wiper switch INT/AUTO	Off
	Front wiper switch INT/AUTO	On
	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial posi tion
	Other than turn signal switch RH	Off
TURIN SIGINAL R	Turn signal switch RH	On
	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
TAIL LAWIF SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEANI SW	Lighting switch HI	On
	Other than lighting switch 2ND	Off
TIEAD EAWIF SW T	Lighting switch 2ND	On
HEAD LAMP SW/ 2	Other than lighting switch 2ND	Off
TIEAD LAWI OW 2	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
FASSING SW	Lighting switch PASS	On
	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
11(100.50)	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Driver door closed	Off
	Driver door opened	On
	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	Off Off Off On On On On Off On Off On On On On Off On Off On Off On Off On Of
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
	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
EAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
	Trunk lid opener cancel switch OFF	Off
R CANCEL SW	NOTE: The item is indicated, but not monitored. Hazard switch is OFF Hazard switch is ON NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. V Trunk lid opener cancel switch OFF Trunk lid opener cancel switch ON W Trunk lid opener switch OFF	On
	Other than power door lock switch LOCK Power door lock switch UNLOCK Other than power door lock switch UNLOCK Power door lock switch UNLOCK Other than driver door key cylinder LOCK position Driver door key cylinder LOCK position Other than driver door key cylinder UNLOCK position Driver door key cylinder UNLOCK position NOTE: The item is indicated, but not monitored. Hazard switch is OFF Hazard switch is ON NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. NOTE: The item is indicated, but not monitored. Trunk lid opener cancel switch OFF Trunk lid opener switch OFF While the trunk lid opener switch is turned ON Trunk lid opened LOCK button of the Intelligent Key is not pressed LOCK button of the Intelligent Key is not pressed UNLOCK button of the Intelligent Key is not pressed PANIC button of the Intelligent Key is not pressed PANIC button of the Intelligent Key is not pressed	Off
I/L WASH SW The item is i TR CANCEL SW Trunk lid ope Trunk lid ope Trunk lid ope TR/BD OPEN SW Trunk lid ope TRNK/HAT MNTR Trunk lid ope Trunk lid ope Trunk lid ope TRNK/HAT MNTR Trunk lid ope RKE-LOCK LOCK buttor	While the trunk lid opener switch is turned ON	On
	Trunk lid closed	Off
RNK/HAI MNIR	Trunk lid opened	On
	LOCK button of the Intelligent Key is not pressed	Off
RKE-LOCK	LOCK button of the Intelligent Key is pressed	On
	UNLOCK button of the Intelligent Key is not pressed	Off
RKE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
	TRUNK OPEN button of the Intelligent Key is not pressed	Off
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is pressed	On
KE-PANIC	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
RKE-MODE CHG		Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
	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
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off

Revision: 2009 November

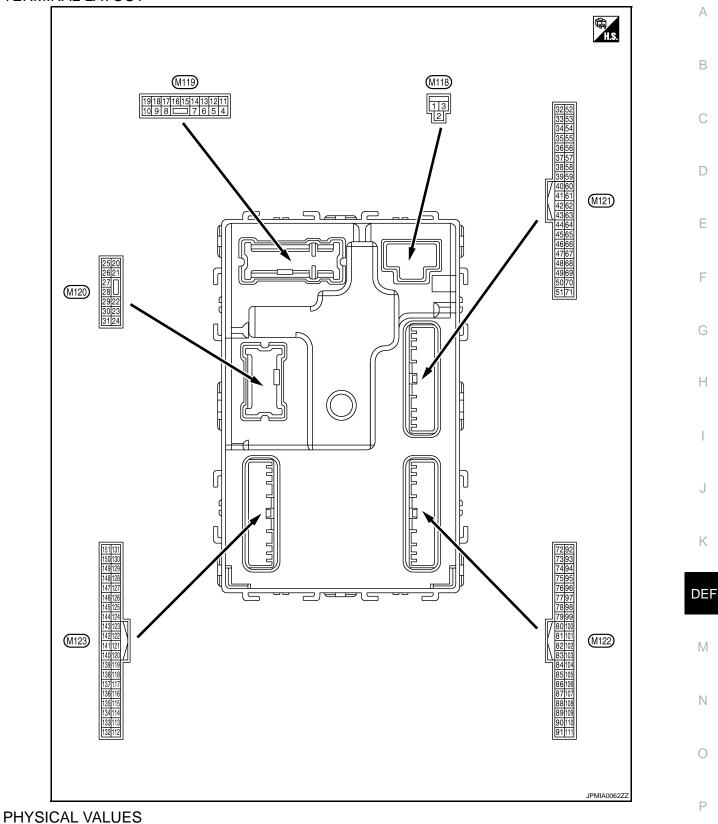
Monitor Item	Condition	Value/Status
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
	Trunk lid opener request switch is not pressed	Off
REQ SW -BD/TR	RL NOTE: The item is indicated, but not monitored. BD/TR Trunk lid opener request switch is not pressed Push-button ignition switch (push switch) is not pressed Push-button ignition switch (push switch) is pressed F/B Ignition switch in OFF or ACC position Ignition switch in ON position F/B Ignition switch in ON position NOTE: The item is indicated, but not monitored. N/ The clutch pedal is not depressed NOTE: The item is indicated, but not monitored. N The clutch pedal is depressed Not the prake pedal is not depressed V1 The brake pedal is not depressed when No. 7 fuse is blown Thus is normal V2 The brake pedal is not depressed (M/T models) Suppose the pedal is depressed (M/T models) VL Selector lever in P position (Except M/T models) Suppose the pedal is not depressed (M/T models) SW Selector lever in any position other than P (Except M/T models) Suppose the pedal is not depressed (M/T models) SW Selector lever in any position other than P and N Selector lever in P or N position SW Selector lever in P or N position Suppose the pedal is not depressed (M/T models) Steering is unlocked Steering is unlocked Suppose	On
	The item is indicated, but not monitored. Trunk lid opener request switch is not pressed Trunk lid opener request switch is pressed Push-button ignition switch (push switch) is not pressed Push-button ignition switch (push switch) is pressed Ignition switch in OFF or ACC position Ignition switch in ON position NOTE: The item is indicated, but not monitored. The clutch pedal is not depressed The clutch pedal is depressed The trake pedal is depressed when No. 7 fuse is blown The brake pedal is not depressed The brake pedal is not depressed The brake pedal is not depressed (M/T models) • The clutch pedal is depressed (M/T models) • The clutch pedal is depressed (M/T models) • The clutch pedal is not depressed (M/T models) • The clutch pedal is not depressed (M/T models) • Selector lever in any position other than P (Except M/T models) • The clutch pedal is not depressed (M/T models) • Selector lever in any position other than P and N Selector lever in P or N position Steering is locked Steering is locked Steering is locked Ignition switch in OFF or ACC position Ignition switch in OFF	Off
205H SW	Push-button ignition switch (push switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
GN RLY2 -F/B	Ignition switch in ON position	On
ACC RLY -F/B		Off
Q SW-RL The item is indicated, but not monitored. Q SW -BD/TR Trunk lid opener request switch is not pressed Yama Rid opener request switch is not pressed Push-button ignition switch (push switch) is not pressed SH SW Push-button ignition switch (push switch) is not pressed V RLY2 -F/B Ignition switch in OFF or ACC position Ignition switch in OFF or ACC position Ignition switch in ON position CC RLY -F/B NOTE: The item is indicated, but not monitored. UCH SW The clutch pedal is not depressed The clutch pedal is depressed The brake pedal is depressed AKE SW 1 The brake pedal is not depressed when No. 7 fuse is blown The brake pedal is not depressed (M/T models) The brake pedal is depressed TE/CANCL SW Selector lever in P position (Except M/T models) • The clutch pedal is not depressed (M/T models) • The clutch pedal is not depressed (M/T models) • The clutch pedal is not depressed (M/T models) • The clutch pedal is depressed TLP/N SW Selector lever in P or N position • Selector lever in P or N position Selector lever in Su position other than P and N • Selector lever in N position Selector lever in P or N position	Off	
LUCH SW	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1		On
EQ SW -BD/TR USH SW GN RLY2 -F/B CC RLY -F/B LUCH SW	The brake pedal is not depressed	Off
DRAKE OVV Z	The brake pedal is depressed	On
		Off
JETE/CANCE SW		On
	Selector lever in any position other than P and N	Off
SET PIN/IN SVV	Selector lever in P or N position	On
	Steering is unlocked	Off
S/L-LUCK	Steering is locked	On
	CANCL SW• The clutch pedal is depressed (M/T models) • Selector lever in any position other than P (Except M/T models) • The clutch pedal is not depressed (M/T models) • The clutch pedal is not depressed (M/T models)V/N SWSelector lever in any position other than P and N Selector lever in P or N positionOCKSteering is unlocked Steering is lockedNLOCKSteering is locked Steering is unlockedELAY-F/BIgnition switch in OFF or ACC position Ignition switch in ON position	Off
S/L-UNLOCK		On
	Ignition switch in OFF or ACC position	Off
D/L RELAY-F/B	SW -BD/TR Trunk lid opener request switch is pressed 1 SW Push-button ignition switch (push switch) is not pressed 1 SW Push-button ignition switch (push switch) is pressed 1 suph-button ignition switch in OFF or ACC position Ignition switch in ON position RLY2 -F/B Ignition switch in ON position Ignition switch in ON position RLY -F/B NOTE: The item is indicated, but not monitored. The dutch pedal is not depressed 2H SW The dutch pedal is depressed when No. 7 fuse is blown The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal KE SW 1 The brake pedal is not depressed (MT models) The brake pedal is not depressed (MT models) The brake pedal is depressed (MT models) E/CANCL SW Selector lever in any position other than P (Except MT models) * The clutch pedal is not depressed (MT models) * Selector lever in any position other than P and N Selector lever in any position other than P and N Selector lever in any position Selector lever in any position Selector lever in any position INLOCK Steering is unlocked Steering is unlocked Steering is unlocked INLOCK Steering is unlocked	On
	Driver door is unlocked	Off
JNLK SEN-DR	Driver door is locked	On
	Push-button ignition switch (push-switch) is not pressed	Off
	NOTE: The item is indicated, but not monitored. Trunk lid opener request switch is not pressed Trunk lid opener request switch is pressed Push-button ignition switch (push switch) is not pressed Ignition switch in OFF or ACC position Ignition switch in ON position MOTE: The turn is indicated, but not monitored. The clutch pedal is not depressed The clutch pedal is depressed The brake pedal is depressed when No. 7 fuse is blown The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal The brake pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models) • The clutch pedal is not depressed (MT models)	On
	Ignition switch in OFF or ACC position	Off
GN KLTT-F/D	Ignition switch in ON position	On
	Selector lever in any position other than P	Off
	Selector lever in P position	On
		Off
		On
SET D MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
	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
ENGINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
3/L LOCK-IF DIVI	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
3/L UNLK-IPDIVI	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
S/L RELAT-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 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
DOOR STAT-AS D OK FLAG	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
	Steering is locked	Reset
	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	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
	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
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	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
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done

Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID reg- istered to BCM.	Yet
CONFIRMIDZ	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
CONFIRMIDI	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
1P 4	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
IFJ	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
1 1 2	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
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 REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
ID REGST I RT	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

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TERMINAL LAYOUT



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	nal No.	Description			-	Value
(vvire +	color)	Signal name	Input/ Output		Condition	(Approx.)
1 (L)	Ground	Battery power supply	Input	Ignition switch (DFF	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 (N	12 V
					np 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-	Outrout	Passenger	UNLOCK (Actuator is activated)	12 V
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Ac- tuator is not activated)	0 V
7	Ground	Stan Jamp	Output	Stop Jamp	ON	0 V
(SB)	Ground	Step lamp	Output	Step lamp OFF		12 V
8	Ground	All doors, fuel lid LOCK	Output	All doors, fuel	LOCK (Actuator is activated)	12 V
(V)	Ground		Juiput	lid	Other than LOCK (Actuator is not activated)	0 V
9	Ground	Driver door, fuel lid	Output	Driver door,	UNLOCK (Actuator is activated)	12 V
(G)	Ground	UNLOCK	Output	fuel lid	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch (DFF	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch (N	0 V
					OFF	0 V
14	Ground	Push-button ignition switch illumination	Output	Tail lamp		NOTE: When the illumination brighten- ing/dimming level is in the neutral position.
(W)	Ground	ground switch illumination C	Output	i an ianip	ON	10 0 2 ms JSNIA0010GB
15 (BC)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(BG)	Cround		Suipul	-	ACC	0 V

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	nal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
					Turn signal switch OFF	0 V	В
17 (W)	Ground	Turn signal RH (Front)	Output	lgnition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s 10 1 s PKID0926E 6.5 V	C
					Turn signal switch OFF	0 V	Е
18 (BG)	Ground	Turn signal LH (Front)	Output	lgnition switch ON	Turn signal switch LH	(V) 15 0 5 0 1 s PKID0926E	F
						6.5 V	
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V	Н
(•)					ON Turn signal switch OFF	0 V 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	I J K
23	Ground	Trunk lid open	Output	Trunk lid	OPEN (Trunk lid opener actuator is activated)	12 V	DEF
(L)			Carpar		Other than OPEN (Trunk lid opener actuator is not activated)	0 V	Μ
					Turn signal switch OFF	0 V	
25 (Y)	Ground	Turn signal LH (Rear)	Output	lgnition switch ON	Turn signal switch LH	(V) 15 0 10 10 10 10 10 10 10 10 10	N O P
30		-	0.1	Trunk room	ON	0 V	
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V	

Terminal No. (Wire color)		Description				Value
(Wire +	color)	Signal name	Input/ Output	Condition		(Approx.)
34 (SB)	Ground	Trunk room antenna (-)	Output	lgnition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1
					When Intelligent Key is not in the passenger compart- ment	(V) 15 0 0 1 s JMKIA0063GB
35 (V)	Ground	Trunk room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 0 0 1 s JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	(V) 15 0 0 1 s JMKIA0063GB
38 (B)	Ground	Rear bumper anten- na (–)	Output	When the trunk lid opener re- quest switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 0 1 s JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	(V) 15 0 5 0 1 s JMKIA0063GB

Terminal No. (Wire color)		Description				Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
39	Casuad	Rear bumper anten-	O. to the	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) 10 50 1 s JMKIA0063GB	
47		Ignition relay (IPDM	0.1.1	ut Ignition switch	OFF or ACC	12 V	
(Y)	Ground	E/R) control	Output	ignition switch	ON	0 V	
50 (G)	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 mod-	When selector lever is in P or N position	12 V	
52				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 (SB)	Ground	Trunk lid opener re- quest switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 10 10 ms JPMIA0016GB 1.0 V	
			I		Counding	0.1/	
64	Ground	Intelligent Key warn- ing buzzer (Engine	Output	Intelligent Key warning buzzer	Sounding	0 V	

Terminal No. Description Value (Wire color) Condition Input/ (Approx.) Signal name + _ Output 0 V Pressed 15 10 67 Trunk lid opener Trunk lid open-Ground Input (GR) switch er switch Ō Not pressed 10 ms JPMIA0011GB 11.8 V (V 15 10 When Intelligent Key is in 50 the passenger compartment 1 s JMKIA0062GB 72 Room antenna 2 (-) Ignition switch Ground Output (R) (Center console) OFF 15 10 When Intelligent Key is not in the passenger compartn ment 1 s JMKIA0063GB 15 10 When Intelligent Key is in ŏ the passenger compartment 1 s JMKIA0062GB 73 Room antenna 2 (+) Ignition switch Ground Output (G) (Center console) OFF 15

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JMKIA0063GB

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When Intelligent Key is not

in the passenger compart-

ment

	nal No.	Description				Value	А
(vvire +	color)	Signal name	Input/ Output		Condition	(Approx.)	A
74		Passenger door an-		When the pas- senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(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 5 0 1 s JMKIA0063GB	E
75	Ground	Passenger door an-	Output	When the pas- senger door re- quest switch is	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(BR)		tenna (+)	Cutput	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 DEF
76	Ground	Driver door antenna	Output	When the driv- er door request switch is oper-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(V)	Ground	()	Output	ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	P

	nal No.	Description				Value
(vvire +	color)	Signal name	Input/ Output		Condition	(Approx.)
77	Ground	Driver door antenna	Output	When the driv- er door request switch is oper-	When Intelligent Key is in the antenna detection area	(V) 15 10 0 1 s JMKIA0062GB
(LG)		(+)		ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 0 1 s 0 JMKIA0063GB
78	Ground	Room antenna 1 (-)	ntenna 1 (-) Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)		(Instrument panel)			When Intelligent Key is not in the passenger compart- ment	(V) 15 0 0 1 s JMKIA0063GB
79	79 Ground Room antenna 1 (+) Output Ignition s	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB		
(BR)	Sidurid	(Instrument panel)	Output	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 s 1 JMKIA0063GB

Terminal No. (Wire 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 Intelli- gent 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 Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (V)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC ON	0 V 12 V
83		Remote keyless entry	Input/	During waiting		(V) 15 10 50 1 ms JMKIA0064GB
(Y)	Ground	receiver communica- tion	Output	When operating either button on the Intelli- gent Key		(V) 15 10 50 1 ms JMKIA0065GB
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
87 (Y)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 2 ms 10 2 ms 1.3 V
					Any of the conditions be- low with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 6 • Wiper volume dial 7	(V) 15 0 2 ms JPMIA0040GB 1.3 V

Terminal No. Description Value (Wire color) Condition Input/ (Approx.) Signal name + _ Output (V 15 10 5 All switches OFF Õ (Wiper volume dial 4) 2 ms JPMIA0041GB 1.4 V (V 15 10 Lighting switch HI 0 (Wiper volume dial 4) 2 ms JPMIA0036GB 1.3 V 88 Combination switch Combination Ground Input (GR) **INPUT 3** switch 15 10 Lighting switch 2ND n (Wiper volume dial 4) 2 ms JPMIA0037GB 1.3 V 15 Any of the conditions be-10 low with all switches OFF n • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3 2 ms JPMIA0040GB 1.3 V Push-button ig-0 V Pressed 89 Push-button ignition Ground Input nition switch (BR) switch (Push switch) Not pressed Battery voltage (push switch) 90 Input/ Ground CAN-L ____ (P) Output 91 Input/ CAN-H Ground (L) Output OFF 0 V (V 15 10 92 Key slot illumin Ground Key slot illumination Output Blinking nation (LG) 1 s JPMIA0015GB 6.5 V ON 12 V

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Terminal No. (Wire color)		Description		Condition		Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(GIV)					ON	0 V	
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V	
(BG)	Croana		Output	ignition switch	ACC or ON	12 V	
96 (GR)	Ground	A/T shift selector (De- tention switch) power supply	Output		_	12 V	
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V	
(L)	Croana	tion No. 1	mput	Cleening look	UNLOCK status	12 V	
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V	
(BG)	Croana	tion No. 2	mput	Steering lock	UNLOCK status	0 V	
		Selector lever P posi-		Selector lever	P position	0 V	
		tion switch		Selector level	Any position other than P	12 V	
99	ASCD clutch switch (M/T models without	l	ASCD clutch	OFF (Clutch pedal is de- pressed)	0 V		
(P)* ¹ Ground (R)* ²	Ground	ICC)	Input	switch	ON (Clutch pedal is not depressed)	12 V	
	ICC clutch switch (M/		ICC clutch	OFF (Clutch pedal is de- pressed)	0 V		
		T models with ICC)		switch	ON (Clutch pedal is not depressed)	12 V	
					ON (Pressed)	0 V	
100 (Y)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 0 10 10 ms JPMIA0016GB 1.0 V	
					ON (Pressed)	0 V	
101 (R)	Ground	Driver door request switch	Input	Driver door re- quest switch	OFF (Not pressed)	(V) 15 10 50 10 ms JPMIA0016GB 1.0 V	
102 (BG)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC ON	0 V 12 V	
103 (LG)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch (DFF	12 V	
106	Orector	Steering lock unit	Outrast	Invitionit-1	OFF or ACC	12 V	
(W)	Ground	power supply	Output	Ignition switch	ON	0 V	

	nal No. color)	Description		Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 0 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 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 0 5 0 2 ms JPMIA0039GB 1.3 V

	nal No.	Description				Value	Λ
(Wire +	color)	Signal name	Input/ Output		Condition	(Approx.)	A
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C D
					Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	E
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper volume dial 4)	1.3 V	G H I
					Any of the conditions be- low with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	(V) 15 10 5 0 	J K
						JPMIA0039GB 1.3 V	DE

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Terminal No. Description Value (Wire color) Condition Input/ (Approx.) Signal name + _ Output (V) 15 10 5 Õ All switches OFF 2 ms JPMIA0041GB 1.4 V (V 15 10 5 õ Lighting switch PASS 2 ms JPMIA0037GB 1.3 V (V 15 10 Combination 109 Combination switch switch Ō Lighting switch 2ND Ground Input INPUT 2 (W) (Wiper volume dial 4) 2 ms JPMIA0036GB 1.3 V (V 15 10 Front wiper switch INT/ 0 AUTO 2 ms JPMIA0038GB 1.3 V (V 15 10 ŏ Front wiper switch HI 2 ms JPMIA0040GB 1.3 V ON 0 V 110 Ground Hazard switch Input Hazard switch (G) õ OFF 10 ms JPMIA0012GB 1.1 V

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	nal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	A
					LOCK status	12 V	Е
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB	C
					For 15 seconds after UN- LOCK	12 V	E
					15 seconds or later after UNLOCK	0 V	F
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 10 10 10 10 10 10 10 10	G
113 (BG)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle When dark outside of the	Close to 5 V	I
114	Ground	Clutch interlock	Input	Clutch interlock	vehicle OFF (Clutch pedal is not depressed)	Close to 0 V	J
(P)	Ground	switch	mput	switch	ON (Clutch pedal is de- pressed)	Battery voltage	k
116 (SB)	Ground	Stop lamp switch 1	Input		—	Battery voltage	
		Stop lamp switch 2 (Without ICC)		Stop lamp switch	OFF (Brake pedal is not depressed) ON (Brake pedal is de-	0 V	D
118 (BR)	Ground	Stan Jamp quitch 2	Input		h OFF (Brake pedal is not ICC brake hold relay OFF	0 V	N
		Stop lamp switch 2 (With ICC)		Stop lamp switc	h ON (Brake pedal is de- brake hold relay ON	Battery voltage	Ν
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 10 10 ms JPMIA0012GB 1.1 V	C F
					UNLOCK status (Unlock switch sensor ON)	0 V	

	nal No.	Description				Value
(Wire +	color) –	Signal name	Input/ Output		Condition	(Approx.)
121	Ground	Key slot switch	Input	slot	gent Key is inserted into key	12 V
(G)		·		When the Intellig	gent Key is not inserted into	0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC ON	0 V Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close) ON (Door open)	(V) 15 10 10 10 ms JPMIA0011GB 11.8 V 0 V
129 (Y)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid open- er cancel switch	CANCEL	(V) 15 10 50 10 ms 10 ms JPMIA0012GB 1.1 V 0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch C		(V) 15 10 10 10 10 10 10 10 10 10 10
					ON (Tail lamps OFF)	9.5 V
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.
134				LOCK indicator	OFF OFF	0 V Battery voltage
(R)	Ground	LOCK indicator lamp	Output	lamp	ON	0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V

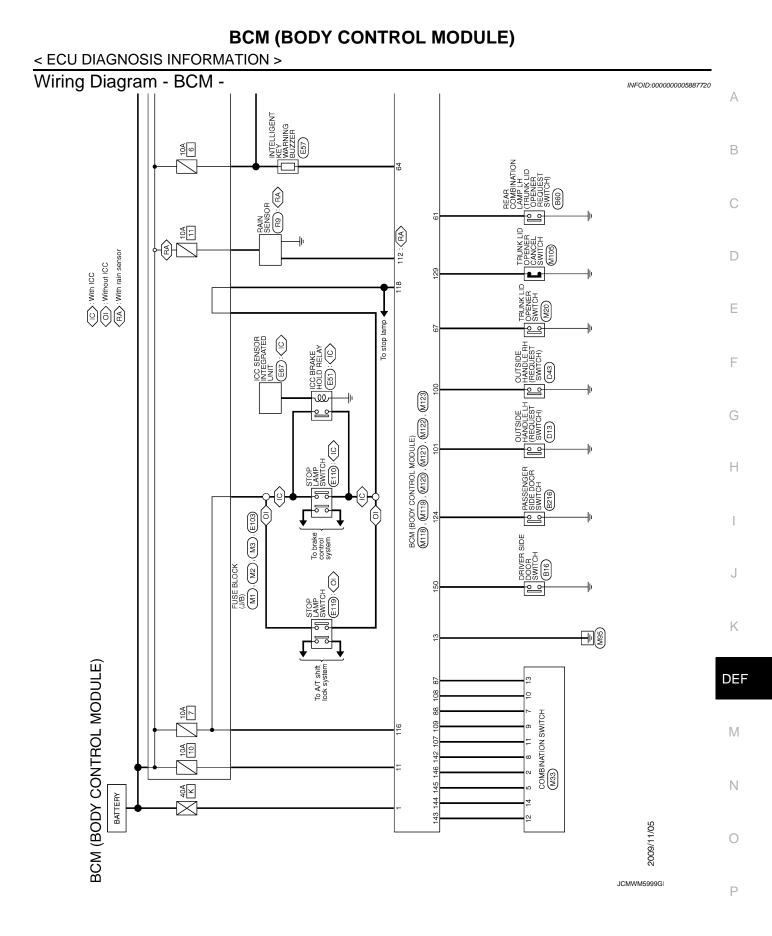
	nal No. color)	Description		Condition		Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
138		Receiver and sensor			OFF	0 V
(V)	Ground	power supply	Output	Ignition switch	ACC or ON	5.0 V
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 4 2 0 • • 0.2s DCC3881D
(L)	Glound	er communication	Output		When receiving the signal from the transmitter	(V) 6 2 0 • • 0.2s OCC3860D
140	Ground	Selector lever P/N	Innut	Selector lover	P or N position	12 V
(Y)	Ground	position (A/T models)	Input	Selector lever	Except P and N positions	0 V
				ON	0 V	
141 (P)	Ground	Security indicator	Output	Security indica- tor	Blinking	(V) 15 0 5 0 1 s JPMIA0014GB
				ļ		11.3 V
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	(V)
				Combination	Lighting switch HI	15
142 (LG)	Ground	Combination switch OUTPUT 5	Output	switch (Wiper volume dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms
						JPMIA0031GB 10.7 V
					All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	(V)
143 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions be- low with all switches OFF • Wiper volume dial 1 • Wiper volume dial 2 • Wiper volume dial 3 • Wiper volume dial 6 • Wiper volume dial 7	2 ms JPMIA0032GB

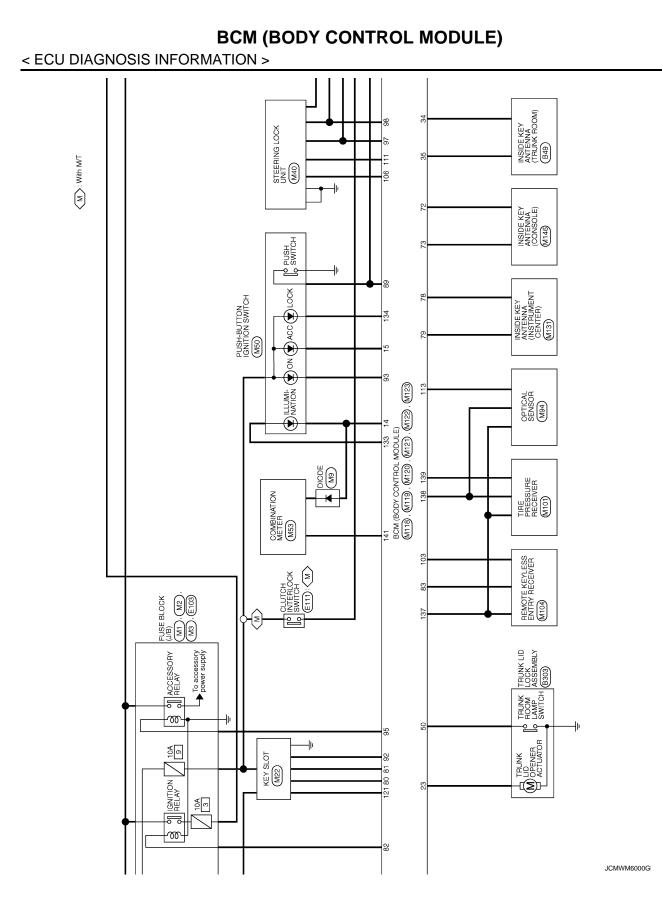
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	nal No.	Description				Value (Approx.)	
(vvire +	color)	Signal name	Input/ Output		Condition		
					All switches OFF (Wiper volume dial 4)	0 V	
					Front washer switch ON (Wiper volume dial 4)	(V) 15	
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions be- low with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6	10 5 0 2 ms 10.7 V	
					All switches OFF	0 V	
					Front wiper switch INT/ AUTO	(V)	
145		Combination switch		Combination switch	Front wiper switch LO		
(L)	Ground	OUTPUT 3	(Wiper volume dial 4)	Lighting switch AUTO	5 0 2.ms 10.7 V		
				Combination switch	All switches OFF	0 V	
		Combination switch			Front fog lamp switch ON		
					Lighting switch 2ND	(V) 15	
146	Ground		Output		Lighting switch PASS		
(SB)	Clouid	OUTPUT 4	Cupu	(Wiper volume dial 4)	Turn signal switch LH	0 2 ms 10.7 V	
149 (W)	Ground	Tire pressure warning check switch	Input		_	12 V	
150 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
			10	ON (Door open)	0 V		
151	Ground	Rear window defog-	Output	Rear window	Active	0 V	
(G)	modele	ger relay control		defogger	Not activated	Battery voltage	

• *1: A/T models

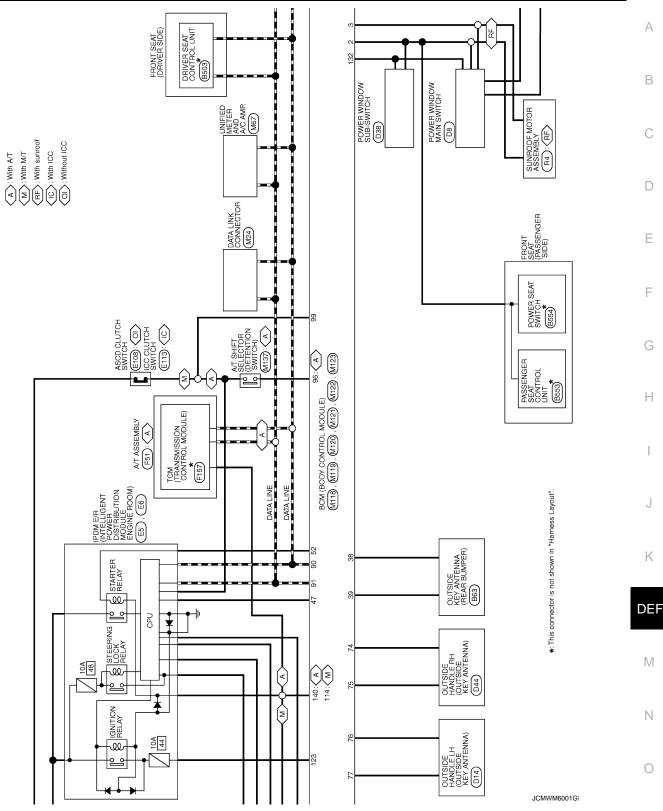
• *2: M/T models



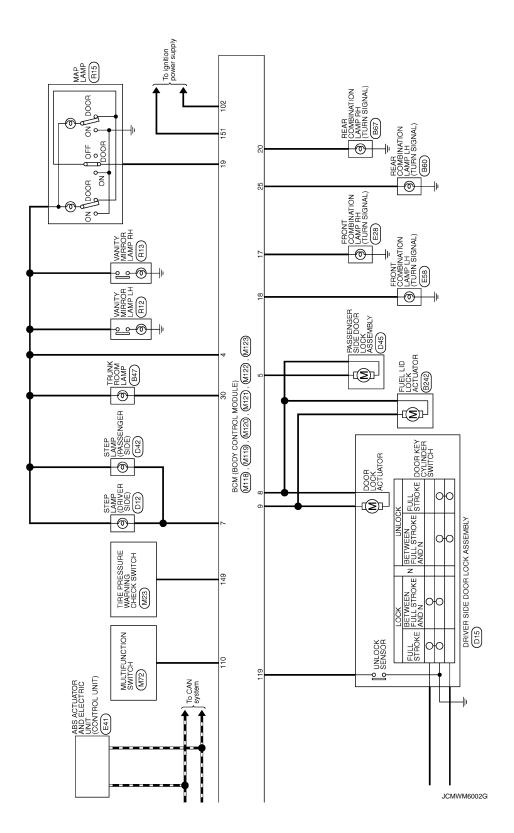


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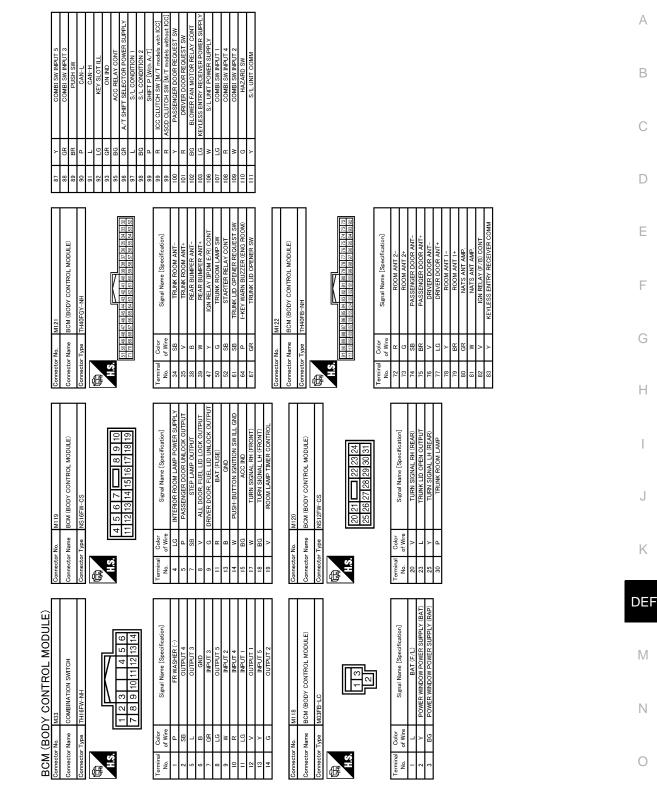
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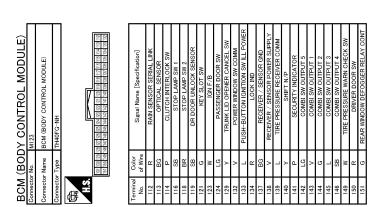
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JCMWM6004G

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

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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 $ON \rightarrow OFF$
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actua- tor and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	 500 ms after the following CAN signal communication status be- comes 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 fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (12 V) 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 (12 V) Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP/CLUTCH SW	Inhibit steering lock	 500 ms after any of the following BCM recognition conditions are fulfilled Status 1 Ignition switch is in the ON position Selector lever P/N position signal: P and N position (12 V) 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/CLUTCH 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 (12 V) 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)
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)

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	 500 ms after the following signal communication status becomes consistent Starter motor relay control signal Starter relay status signal (CAN)
B2609: S/L STATUS	Inhibit engine crankingInhibit 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 (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 fulfilledPower position changes to ACCReceives 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: 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 be- comes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control in- side 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 crankingInhibit 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 (12 V)

DTC Inspection Priority Chart

INFOID:000000005887722

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	
	 B2013: ID DISCORD BCM-S/L B2014: CHAIN OF S/L-BCM B2553: IGNITION RELAY 	
	B2555: STOP LAMPB2556: PUSH-BTN IGN SW	
	 B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS 	
	 B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2606: S/L RELAY B2607: S/L RELAY 	
	 B2608: STARTER RELAY B2609: S/L STATUS B260A: IGNITION RELAY 	
4	 B260B: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT B260F: ENG STATE SIG LOST B2612: S/L STATUS 	
	 B2612: 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2	
	 B2618: BCM B2619: BCM B261A: PUSH-BTN IGN SW B261E: VEHICLE TYPE B26E8: CLUTCH SW 	
 B26EA: KEY REG C1729: VHCL SP 	 B26E9: S/L STATUS B26EA: KEY REGISTRATION C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED 	
	C1704: LOW PRESSURE FL C1705: LOW PRESSURE FR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1707: LOW DATALEL	
5	 C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1716: [PRESSDATA ERR] FL 	
	 C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1734: CONTROL UNIT 	
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-14, "COM-MON ITEM : CONSULT-III Function (BCM - COMMON ITEM)"</u>.

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< 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
No DTC is detected. further testing may be required.	_	_	_		_
U1000: CAN COMM		_	—	_	BCS-33
U1010: CONTROL UNIT(CAN)		_		_	BCS-34
U0415: VEHICLE SPEED	_	_		_	BCS-35
B2013: ID DISCORD BCM-S/L	×	×		_	SEC-55
B2014: CHAIN OF S/L-BCM	×	×	_		SEC-56
B2190: NATS ANTENNA AMP	×		_		<u>SEC-47</u>
B2191: DIFFERENCE OF KEY	×		_		<u>SEC-50</u>
B2192: ID DISCORD BCM-ECM	×		_		<u>SEC-51</u>
B2193: CHAIN OF BCM-ECM	×		_		<u>SEC-53</u>
B2195: ANTI-SCANNING	×				<u>SEC-54</u>
B2553: IGNITION RELAY		×		_	PCS-48
B2555: STOP LAMP		×			<u>SEC-59</u>
B2556: PUSH-BTN IGN SW		×	×		SEC-61
B2557: VEHICLE SPEED	×	×	×		SEC-63
B2560: STARTER CONT RELAY	×	×	×		SEC-64
B2562: LOW VOLTAGE		×			BCS-36
B2601: SHIFT POSITION	×	×	×		<u>SEC-65</u>
B2602: SHIFT POSITION	×	×	×		SEC-68
B2603: SHIFT POSI STATUS	×	×	×		<u>SEC-70</u>
B2604: PNP/CLUTCH SW	×	×	×		<u>SEC-73</u>
B2605: PNP/CLUTCH SW	×	×	×		<u>SEC-75</u>
B2606: S/L RELAY	×	×	×		<u>SEC-77</u>
B2607: S/L RELAY	×	×	×		<u>SEC-78</u>
B2608: STARTER RELAY	×	×	×		<u>SEC-80</u>
B2609: S/L STATUS	×	×	×		<u>SEC-82</u>
B260A: IGNITION RELAY	×	×	×		PCS-50
B260B: STEERING LOCK UNIT		×	×		<u>SEC-86</u>
B260C: STEERING LOCK UNIT		×	×		<u>SEC-87</u>
B260D: STEERING LOCK UNIT		×	~ ×		<u>SEC-88</u>
B260F: ENG STATE SIG LOST	×	×	×		<u>SEC-89</u>
B2612: S/L STATUS		× ×	×		<u>SEC-03</u> SEC-94
B2614: BCM	×				<u>PCS-52</u>
		×	×		
B2615: BCM B2616: BCM		×	×		PCS-54
B2617: BCM		×	×		PCS-56
	×	×	×		<u>SEC-98</u>
B2618: BCM	×	×	×		PCS-58
B2619: BCM	×	×	×		<u>SEC-100</u>
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-59
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	<u>SEC-101</u>

Revision: 2009 November

< 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	А
B2621: INSIDE ANTENNA	—	×	—	—	DLK-55	В
B2622: INSIDE ANTENNA	_	×	—	_	DLK-57	
B2623: INSIDE ANTENNA	—	×	—	—	DLK-59	
B26E8: CLUTCH SW	×	×	×		<u>SEC-90</u>	С
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-92</u>	
B26EA: KEY REGISTRATION		×	imes (Turn ON for 15 seconds)	—	<u>SEC-93</u>	D
C1704: LOW PRESSURE FL		_	—	×		Е
C1705: LOW PRESSURE FR		_	—	×		
C1706: LOW PRESSURE RR	_	_	—	×	<u>WT-26</u>	
C1707: LOW PRESSURE RL		_	—	×		F
C1708: [NO DATA] FL	—	_	—	×		
C1709: [NO DATA] FR		—	—	×		
C1710: [NO DATA] RR	—	—	—	×	<u>WT-28</u>	G
C1711: [NO DATA] RL	_	—	—	×		
C1716: [PRESSDATA ERR] FL	—	—	—	×		Н
C1717: [PRESSDATA ERR] FR	—	—	—	×	W/T 21	
C1718: [PRESSDATA ERR] RR	—	—	—	×	- <u>WT-31</u>	
C1719: [PRESSDATA ERR] RL	—	—	—	×		
C1729: VHCL SPEED SIG ERR	—	—	—	×	<u>WT-33</u>	
C1734: CONTROL UNIT	—	_	—	×	<u>WT-35</u>	J

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REAR WINDOW DEFOGGER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS REAR WINDOW DEFOGGER DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000005658182

1.CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch. Refer to <u>DEF-9</u>, "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 <u>DEF-10, "Component Function Check"</u>.

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 <u>DEF-12, "Component Function Check"</u>.

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-38. "Intermittent Incident".

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPER-ATE.

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT

OPERATE.		А
Diagnosis Procedure	D:000000005658183	В
1.CHECK REAR WINDOW DEFOGGER SWITCH		D
Check rear window defogger switch. Refer to <u>DEF-9, "Component Function Check"</u> .		С
Is the inspection result normal?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 <u>DEF-10, "Component Function Check"</u> .		E
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CONFIRM THE OPERATION		F
Confirm the operation again.		G
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident". NO >> GO TO 1.		Н

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< SYMPTOM DIAGNOSIS >

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:000000005658184

1.CHECK REAR WINDOW DEFOGGER

Check rear window defogger. Refer to <u>DEF-12, "Component Function Check"</u>.

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-38. "Intermittent Incident".

DOOR MIRROR DEFOGGER DOES NOT OPERATE	
< SYMPTOM DIAGNOSIS > DOOR MIRROR DEFOGGER DOES NOT OPERATE BOTH SIDES	A
BOTH SIDES : Diagnosis Procedure	
1.CHECK DOOR MIRROR DEFOGGER	В
$\begin{array}{llllllllllllllllllllllllllllllllllll$	C D
Confirm the operation again. <u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-38, "Intermittent Incident"</u> . NO >> GO TO 1. DRIVER SIDE	F
DRIVER SIDE : Diagnosis Procedure	186 G
1. CHECK DRIVER SIDE DOOR MIRROR DEFOGGER	
Check driver side door mirror defogger. Refer to <u>DEF-17</u> , "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2. CONFIRM THE OPERATION	— H
Confirm the operation again. Is the inspection result normal? YES >> Check intermittent incident. Refer to <u>GI-38, "Intermittent Incident"</u> . NO >> GO TO 1. PASSENGER SIDE	K
PASSENGER SIDE : Diagnosis Procedure	DEF
1. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER.	
Check passenger side door mirror defogger. Refer to <u>DEF-19, "Component Function Check"</u> .	— M
Is the inspection result normal?YES>> GO TO 2.NO>> Repair or replace the malfunctioning parts.	Ν
2.CONFIRM THE OPERATION	0
Confirm the operation again. <u>Is the inspection result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-38, "Intermittent Incident"</u> . NO >> GO TO 1.	Ρ

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:000000005887725

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</u>, "<u>Work Flow</u>". Base audio with rear view camera refer to <u>AV-156</u>, "<u>Work Flow</u>". BOSE audio without navigation refer to <u>AV-281</u>, "<u>Work Flow</u>". BOSE audio with navigation refer to <u>AV-412</u>, "<u>Work Flow</u>".

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-38. "Intermittent Incident".

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

		Δ
Diagnosis Procedure		8189
1. CHE	ECK MULTIFUNCTION SWITCH (REAR WINDOW DEFOGGER SWITCH)	В
Check I	rear window defogger operate.	_
YES	>> Replace multifunction switch (rear window defogger switch). Refer to <u>AV-97. "Removal and Insta</u> lation"	al- ^C
NO	>> Check rear window defogger system. Refer to <u>DEF-3, "Work Flow"</u>	D

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< 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:

- 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.

Precaution for Battery Service

INFOID:000000005658191

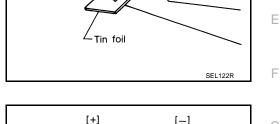
Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference.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

< REMOVAL AND INSTALLATION > **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.



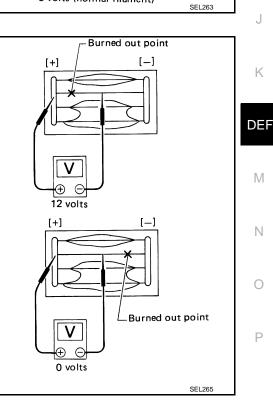
Press

Æ e 6 volts (normal filament)

- Heat wire

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

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



REPAIR

REPAIR EQUIPMENT

Conductive silver composition (Dupont No. 4817 or equivalent)

DEF-69

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INFOID:000000005658192

Tester probe

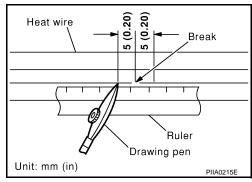
- < REMOVAL AND INSTALLATION >
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

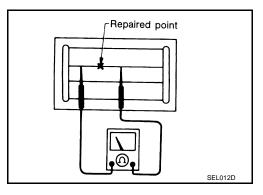
REPAIRING PROCEDURE

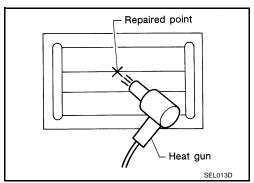
- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen.

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.

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

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

CONDENSER

< REMOVAL AND INSTALLATION >

CONDENSER

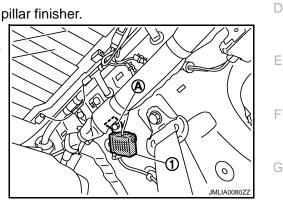
Exploded View

Refer to INT-15, "Exploded View"

Removal and Installation

REMOVAL

- 1. Remove the rear seat cushion and the rear seatback. Refer to <u>SE-201, "Removal and Installation"</u>
- 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.

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