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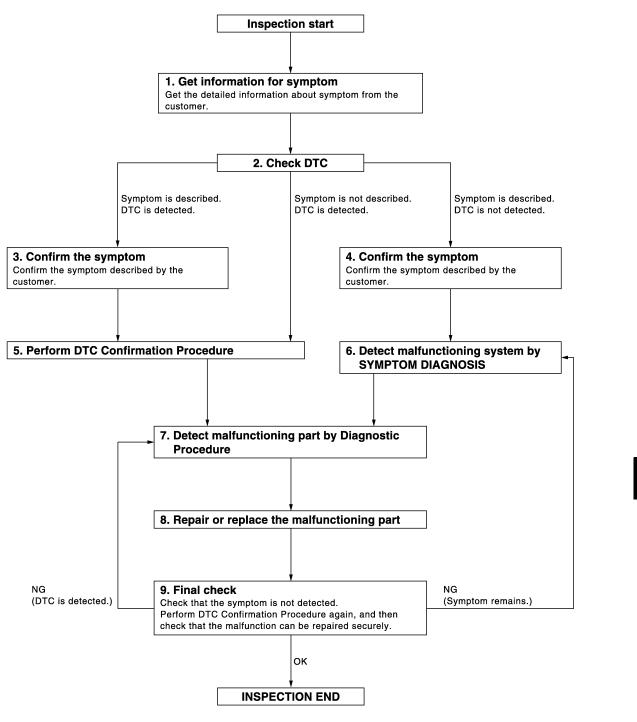
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2. CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3

Symptom is described, DTC is not displayed>>GO TO 4

Symptom is not described, DTC is displayed>>GO TO 5

$oldsymbol{3}.$ CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-79</u>, "<u>DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This
 simplified check procedure is an effective alternative though DTC cannot be detected during this check.
 If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 7

NO >> Refer to GI-39, "Intermittent Incident".

$oldsymbol{6}$. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to <u>DEF-6</u>. "System <u>Description"</u> based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

The Diagnostic Procedure described is based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 8

NO >> Check voltage of related BCM terminals using CONSULT-III.

f 8. REPAIR OR REPLACE THE MALFUNCTIONING PART

- 1. Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
- 3. Check DTC. If DTC is displayed, erase it.

>> GO TO 9

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction has been repaired securely.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 7

YES (Symptom remains)>>GO TO 6

NO >> Inspection End.

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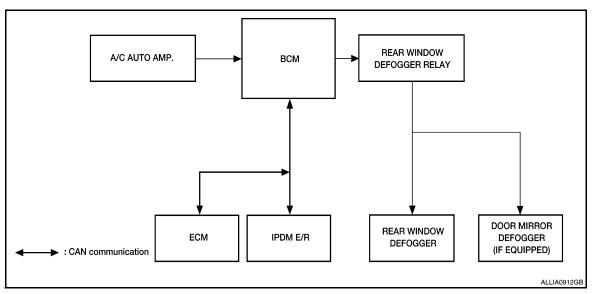
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FUNCTION DIAGNOSIS

REAR WINDOW DEFOGGER SYSTEM

System Diagram



System Description

INFOID:0000000005460775

Operation Description

- When rear window defogger switch is turned ON while ignition switch is ON, the A/C auto amp. (rear window defogger switch) transmits rear window defogger switch signal to BCM.
- BCM turns rear window defogger relay ON when rear window defogger switch signal is received.
- Rear window defogger and door mirror defogger (with door mirror defogger) are supplied with power and operate when rear window defogger relay turns ON.
- BCM transmits rear window defogger control signal to IPDM E/R via CAN communication when rear window defogger operates.
- Rear window defogger ON is displayed when controller (auto amp.) receives signals.

Timer function

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

INPUT/OUTPUT SIGNAL CHART

Switch	Input signal to BCM	BCM function	Actuator	
Rear window defogger switch	Defogger switch signal	Rear window defogger and door	Rear window defogger	
Push button ignition switch	Ignition signal	mirror defogger* control	Door mirror defogger *	

^{*:} With door mirror defogger

Component Parts Location

INFOID:0000000005460776

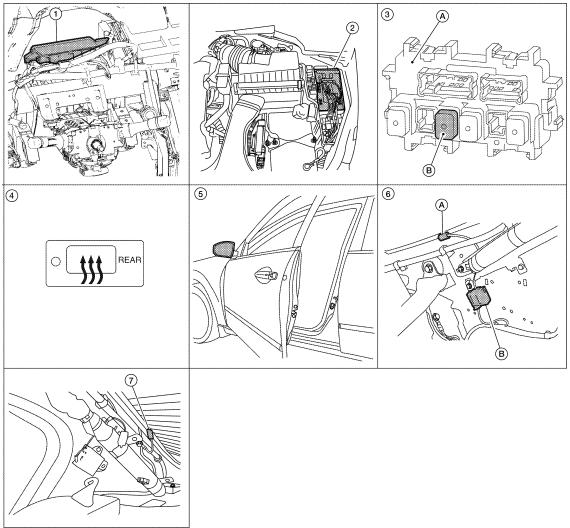
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- BCM M16, M17, M18, M19 (view with 2. instrument panel removed)
- A/C auto amp. (rear window defogger 5. switch) M37
- Rear window defogger (-) B54 (view with rear pillar finisher RH removed)
- IPDM E/R E17
- Door mirror (door mirror defogger) LH D4, RH D107 (if equipped)
- A. Fuse block (J/B)
 - B. Rear window defogger relay J-2
- A. Rear window defogger (+) B53 B. Condenser B52 (view with rear pillar finisher LH removed)

Component Description

INFOID:000000005460777

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.
A/C auto amp. (rear window defogger switch)	 The rear window defogger switch is turned ON. Turns the indicator lamp ON when detecting the operation of rear window defogger.

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REAR WINDOW DEFOGGER SYSTEM

< FUNCTION DIAGNOSIS >

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 heated mirrors

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: Diagnosis Description

INFOID:0000000005524453

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BCM CONSULT-III FUNCTION

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 MNTR	Monitors the reception status of CAN communication viewed from BCM.		
DATA MONITOR	The BCM input/output signals are displayed.		
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.		
ECU IDENTIFICATION	The BCM part number is displayed.		
CONFIGURATION	 Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing BCM. 		

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

System	Cub avotom coloction item	Diagnosis mode		
System	Sub system selection item	WORK SUPPORT	DATA MONITOR	ACTIVE TEST
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEADLAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

COMMON ITEM: CONSULT-III Function

INFOID:0000000005524454

ECU IDENTIFICATION

Displays the BCM part No.

SELF-DIAG RESULT

Refer to DEF-53, "DTC Index".

REAR WINDOW DEFOGGER

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

IFOID:0000000005524455

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [ON/OFF]	Indicates condition of push switch
REAR DEF SW [ON/OFF]	Displays "Press (ON)/other (OFF)" status determined with the rear window defogger switch

ACTIVE TEST

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

REAR WINDOW DEFOGGER SWITCH

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Description INFOID:000000005460782

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

Component Function Check

1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

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

YES >> Rear window defogger switch function is OK.

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-43, "Wiring Diagram".

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

Does A/C auto amp. operate normally?

Is the inspection result normal?

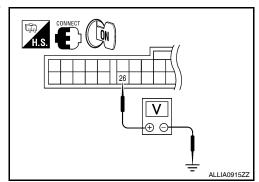
YES >> Inspection End.

NO >> GO TO 2

2. CHECK REAR WINDOW DEFOGGER SWITCH INDICATOR CIRCUIT

- Turn ignition switch ON.
- Check voltage between A/C auto amp. harness connector M37 terminal 26 and ground.

1	Terminals		0 1111 6		
(+)			Condition of rear window defogger	Voltage (V)	
A/C auto amp. connector	Terminal	(–)	switch	(Approx.)	
M37	26	Ground	ON	Battery voltage	
WI37	20	Giodila	OFF	0	



Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to <u>VTL-18, "FAN CONTROL AMP. : Removal and Installation"</u>.

NO >> Repair or replace harness.

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Revision: November 2009 DEF-11 2010 Maxima

REAR WINDOW DEFOGGER RELAY

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description INFOID:000000005460785

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

Component Function Check

INFOID:0000000005460786

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

Check that an operation noise of rear window defogger relay [located in fuse block (J/B)] can be heard when turning the rear window defogger switch ON.

Is the inspection result normal?

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

NO >> Refer to <u>DEF-12</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

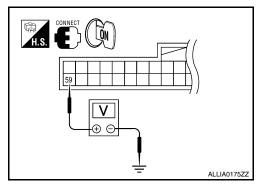
INFOID:000000005460787

Regarding Wiring Diagram information, refer to DEF-43, "Wiring Diagram".

1. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between BCM harness connector M18 terminal 59 and ground.

Terminals			Condition of rear	V 11 0.0
(+)		(-)	window defogger	Voltage (V) (Approx.)
BCM connector	Terminal	(-)	switch	· · · · · · · · · · · · · · · · · · ·
M18	59	Ground	ON	0
WITO	39	Giodila	OFF	Battery voltage



Is the inspection result normal?

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

NO >> GO TO 2

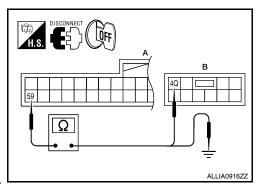
2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- 2. Disconnect BCM and fuse block (J/B).
- Check continuity between BCM harness connector M18 (A) terminal 59 and fuse block (J/B) harness connector M4 (B) terminal 4Q.

BCM connector	Terminal	Fuse block (J/B) connector	Terminal	Continuity
M18 (A)	59	M4 (B)	4Q	Yes

Check continuity between BCM harness connector M18 (A) terminal 59 and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	59	Ground	No



Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

REAR WINDOW DEFOGGER RELAY

< COMPONENT DIAGNOSIS >

3. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-13, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace rear window defogger relay.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES

- >> Check the following.
 - · Battery power supply circuit.
 - Fuse block (J/B).

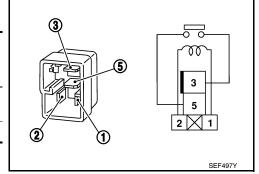
NO >> Repair or replace the malfunctioning parts.

Component Inspection

1. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Terr	minal		
	window ger relay	Condition	Continuity
3	5	12V direct current supply between terminals 1 and 2.	Yes
		No current supply	No



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear window defogger relay.

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REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Description INFOID:000000005460789

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

Component Function Check

INFOID:0000000005460790

1. CHECK REAR WINDOW DEFOGGER

Check that the heating wire of rear window defogger is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

YES >> Rear window defogger is OK.

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

Diagnosis Procedure

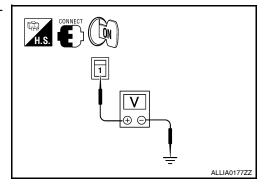
INFOID:0000000005460791

Regarding Wiring Diagram information, refer to DEF-43, "Wiring Diagram".

1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch ON.
- 2. Check voltage between rear window defogger harness connector B53 terminal 1 and ground.

T	Terminals			
(+)	(+)		Condition of rear	Voltage (V)
Rear window defogger connector	Terminal	(-)	window defogger switch	(Approx.)
B53	1	Ground	ON	Battery voltage
	•	Cround	OFF	0



Is the inspection result normal?

YES >> GO TO 2 NO >> GO TO 3

2. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear window defogger.
- Check continuity between rear window defogger harness connector B54 terminal 2 and ground.

Rear window defogger connector	Terminal	Ground	Continuity
B54	2	Oround	Yes

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

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3. CHECK HARNESS CONTINUITY 1

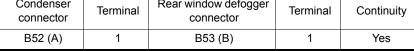
1. Turn ignition switch OFF.

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

- Disconnect condenser and rear window defogger.
- Check continuity between condenser harness connector B52 (A) terminal 1 and rear window defogger harness connector B53
 - (B) terminal 1.

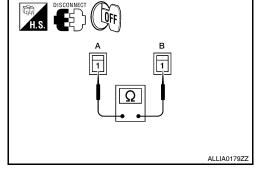
Condenser connector	Terminal	Rear window defogger connector	Terminal	Continuity
B52 (A)	1	B53 (B)	1	Yes



Is the inspection result normal?

YES >> GO TO 4

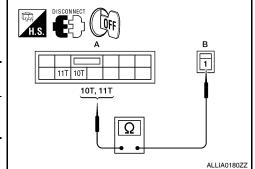
NO >> Replace condenser. Refer to DEF-65, "Removal and Installation".



4. CHECK HARNESS CONTINUITY 2

- Disconnect fuse block (J/B).
- 2. Check continuity between fuse block (J/B) harness connector B4 (A) terminal 10T, 11T and condenser harness connector B52 (B) terminal 1.

Fuse block (J/B) connector	Terminal	Condenser connector	Terminal	Continuity
B4 (A)		B52 (B)	1	Yes
D4 (A)	11T	B32 (B)	'	103



Is the inspection result normal?

YES >> GO TO 6

NO >> Replace or repair harness.

CHECK FILAMENT

Check filament.

Refer to DEF-15, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-39, "Intermittent Incident".

NO >> Repair filament. Refer to DEF-63, "Inspection and Repair".

$oldsymbol{6}$. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >> Check the following.

- Battery power supply circuit.
- Fuse block (J/B).

NO >> Repair or replace the malfunctioning parts.

Component Inspection

1. CHECK FILAMENT

Check the filament for damage or open circuits.

Refer to DEF-63, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair filament. Refer to DEF-63, "Inspection and Repair".

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INFOID:0000000005460792

DRIVER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Description INFOID:000000005460793

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

Component Function Check

INFOID:0000000005460794

1. CHECK DOOR MIRROR DEFOGGER LH

Check that heating wire of door mirror defogger LH is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

YES >> Door mirror defogger is OK.

NO >> Refer to <u>DEF-16</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

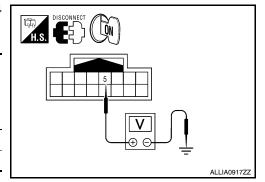
INFOID:0000000005460795

Regarding Wiring Diagram information, refer to DEF-43, "Wiring Diagram".

1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- Turn ignition switch ON.
- Check voltage between door mirror LH harness connector D4 terminal 5 and ground.

Terminals			Condition of	
(+)			rear window	Voltage (V)
Door mirror LH connector	Terminal	(-)	defogger switch	(Approx.)
D4	5	Ground	ON	Battery voltage
	3	Orodila	OFF	0



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

$2.\,$ CHECK GROUND CIRCUIT

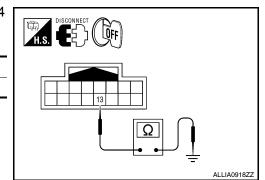
- Turn ignition switch OFF.
- Check continuity between door mirror LH harness connector D4 terminal 13 and ground.

Door mirror LH connector	Terminal	Ground	Continuity
D4	13	Oround	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.



3. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-17, "Component Inspection".

DRIVER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace door mirror. Refer to MIR-20, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >

- >> Check the following.
 - · Battery power supply circuit.
 - · Fuse block (J/B).

NO >> Repair or replace the malfunctioning parts.

Component Inspection

1. CHECK DOOR MIRROR DEFOGGER LH

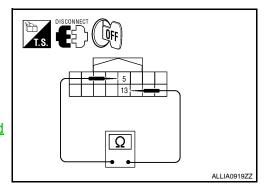
- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- 3. Check continuity between door mirror terminals 5 and 13.

Terminal		Continuity	
5	13	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror LH. Refer to MIR-20, "Removal and Installation".



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PASSENGER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Description INFOID:0000000005460797

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

Component Function Check

INFOID:0000000005460798

1. CHECK DOOR MIRROR DEFOGGER RH

Check that the heating wire of door mirror defogger RH is heated when turning the rear window defogger switch ON.

Is the inspection result normal?

YES >> Door mirror defogger RH is OK.

NO >> Refer to <u>DEF-18</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

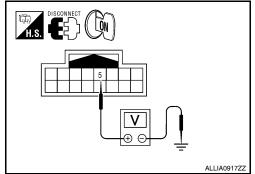
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Regarding Wiring Diagram information, refer to DEF-43, "Wiring Diagram".

1. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- Turn ignition switch ON.
- 4. Check voltage between door mirror RH harness connector D107 terminal 5 and ground.

Terminals			On a different forms	
(+)			Condition of rear window defogger	Voltage (V)
Door mirror RH connector	Terminal	(–)	switch	(Approx.)
D107	5	Ground	ON	Battery voltage
D107	3	Ground	OFF	0



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK GROUND CIRCUIT

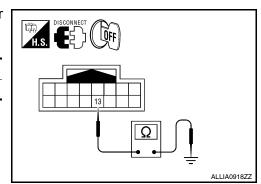
- 1. Turn ignition switch OFF.
- 2. Check continuity between door mirror RH harness connector D107 terminal 13 and ground.

Door mirror RH connector	Terminal	Ground	Continuity
D107	13	Oround	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.



3. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

Check door mirror defogger RH.

Refer to DEF-19, "Component Inspection".

PASSENGER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace door mirror RH. Refer to MIR-20, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >>

- >> Check the following.
 - Battery power supply circuit.
 - · Fuse block (J/B).

NO >> Repair or replace the malfunctioning parts.

Component Inspection

1. CHECK DOOR MIRROR DEFOGGER RH

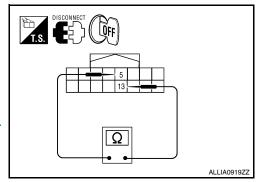
- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- 3. Check continuity between door mirror terminals 5 and 13.

Terminal		Continuity	
5	13	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror RH. Refer to MIR-20, "Removal and Installation".



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< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
FR WIPER III	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
ED WA OUED OW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDN CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CIONALI	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAND OW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LUDEAMOW	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CW/4	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
HEAD LAIVIP SVV Z	Lighting switch 2ND	ON
DA COINIC CIAI	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LIGHT OW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED FOC CW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD OW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
DOOD SW AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOD CW DD	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
DOOD SW DI	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON

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Monitor Item	Condition	Value/Status
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
CDL LINI OCK SW	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
ZEV CVI LIZ CIM	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
ZEV CVI LINI CVI	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
IAZADD CW	When hazard switch is not pressed	OFF
HAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
ED CANCEL OW	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
	Trunk lid closed	OFF
TRNK/HAT MNTR	Trunk lid opened	ON
	When LOCK button of Intelligent Key is not pressed	OFF
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
DICE LINII OOK	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
OVE TO/DD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DICE DANIC	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
DIVE DAM ODEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
DKE MODE CHO	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
DE HOAL SENSOR	When outside of the vehicle is dark	Close to 0 V
DEO CW DD	When front door request switch is not pressed (driver side)	OFF
REQ SW-DR	When front door request switch is pressed (driver side)	ON
DEO SW AS	When front door request switch is not pressed (passenger side)	OFF
REQ SW-AS	When front door request switch is pressed (passenger side)	ON
DEO CW DI	When rear door request switch is not pressed (driver side)	OFF
REQ SW-RL	When rear door request switch is pressed (driver side)	ON
DEO SW/ DD	When rear door request switch is not pressed (passenger side)	OFF
REQ SW-RR	When rear door request switch is pressed (passenger side)	ON
DEO OM DO TO	When trunk request switch is not pressed	OFF
REQ SW-BD/TR	When trunk request switch is pressed	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON

Monitor Item	Condition	Value/Status
IGN RLY 2-F/B	Ignition switch OFF or ACC	OFF
IGN IXET 2-17B	Ignition switch ON	ON
ACC RLY-F/B	Ignition switch OFF	OFF
ACC ILLI-17B	Ignition switch ACC or ON	ON
DDAKE SW 1	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCE SW	When selector lever is in any position other than P	ON
CET DNINI CW	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
0.11.1.0.01.4*	Electronic steering column lock LOCK status	OFF
S/L-LOCK [*]	Electronic steering column lock UNLOCK status	ON
0.11.11.11.001.4*	Electronic steering column lock UNLOCK status	OFF
S/L-UNLOCK*	Electronic steering column lock LOCK status	ON
· · · · · · · · · · · · · · · · · · ·	Ignition switch OFF or ACC	OFF
S/L RELAY-F/B*	Ignition switch ON	ON
LINUX OFN DD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW-IPDM	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SFT P-MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N-MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
	Electronic steering column lock LOCK status	OFF
S/L LOCK-IPDM [*]	Electronic steering column lock UNLOCK status	ON
	Electronic steering column lock UNLOCK status	OFF
S/L UNLK-IPDM [*]	Electronic steering column lock LOCK status	ON
	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ [*]	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
ID OK ELAC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DDMT ENO CEDE	When the engine start is prohibited	RESET
PRMT ENG STRT	When the engine start is permitted	SET
14E) 4 O) 14 O O O T	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFIDATE	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONTINUID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CON INWIDS	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
OOM INWIBE	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
IF J	The ID of third key is registered to BCM	DONE
TD 2	The ID of second key is not registered to BCM	YET
TP 2	The ID of second key is registered to BCM	DONE
TD 4	The ID of first key is not registered to BCM	YET
TP 1	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire

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Monitor Item	Condition	Value/Status
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
ID REGOT FLT	When ID of front LH tire transmitter is not registered	YET
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE
ID REGOT FRI	When ID of front RH tire transmitter is not registered	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered	DONE
ID REGOT KRT	When ID of rear RH tire transmitter is not registered	YET
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGOT RET	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAWF	Tire pressure indicator ON	ON
DI 177ED	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

^{*:} With electronic steering column lock

Terminal Layout

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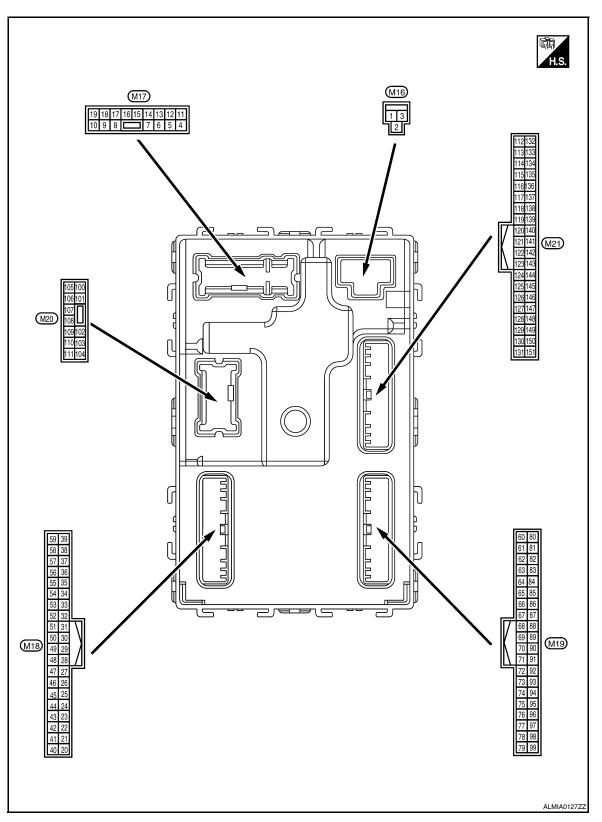
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Physical Values

Term	inal No.	Description				
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+) 1	(-)	3	Output			
(W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Ground	Interior room lamp	Output	er operation time	nterior room lamp battery sav-	ov
(P/W)	0.00.10	power supply	Odiput	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage
5	Ground	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Ground	LOCK	Output	T TOTAL GOOT TATE	Other than UNLOCK (actuator is not activated)	0V
7	Ground	Step lamp	Output	Step lamp	ON	0V
(R/W)					OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	0.00.10	7 33313 23 31 3	Output	7 111 00010	Other than LOCK (actuator is not activated)	ov
9	Ground	Front door LH UN-	Output	Output Front door LH	UNLOCK (actuator is activated)	Battery voltage
(L)	Ground	LOCK			Other than UNLOCK (actuator is not activated)	0V
10	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Cround	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0V
					OFF	0V
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Cidana	, too maleator lamp	Carput	-gindon switch	ACC or ON	0V

Terminal No.		Description				Value	
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0V (V) 15 10 1 1 1 1 1 1 1 1 1 1	
					Turn signal switch OFF	0V (V)	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	15 10 5 0 1 s PKID0926E 6.5 V	
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage	
(Y)	2.34.14	control	Carpat	lamp	ON	0V	
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(P/B)	Ciouna	Sprious Serious Signal	Прис	ON	When outside of the vehi- cle is dark	Close to 0V	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
26	Ground	Stop lamp switch 2	Innut	Stop lamp switch	OFF (brake pedal is released)	0V	
(O/L)	Giouria	Stop lamp switch 2	Input	Stop lamp switch	ON (brake pedal is depressed)	Battery voltage	
27 (O)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB	
					UNLOCK status	0V	
29	Ground	Key slot switch	Input		ey is inserted into key slot	Battery voltage	
(Y)	2.300			When Intelligent K	ey is not inserted into key slot	0V	
30	Ground	ACC feedback signal	Input	Ignition switch	OFF	0	
(V/Y)	J. Garia		put	-gsir siritori	ACC or ON	Battery voltage	
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V	
(G)		ger feedback signal	1	fogger switch	ON	Battery voltage	

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes) ON (when front door RH	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V	
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	opens) CANCEL ON	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1V	
38 (GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	OFF ON	5V 0V	
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch OF	F or ACC	0V	
41		Engine switch (push		Engine switch	ON	5.5V	
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V	
42 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON OFF	0V Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	OFF ACC or ON	0V 5.0V	

	inal No.	Description				Value	۸
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
47 ¹		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 + 0.2s OCC3881D	ВС
(G/O)	Ground	er signal	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 + 0.2s OCC3880D	E F
48	Cround	Selector lever trans- mission range switch	Input	Selector lever	P or N position	12.0V	G
(R/G)	Ground	signal	Input	Selector level	Except P and N positions	0V	
					ON	0V	Н
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	J
					OFF	11.3V Battery voltage	K
					All switch OFF	0V	
					Lighting switch 1ST		DEE
				Combination	Lighting switch high-beam	(V) 15	DEF
50 (LG/	Ground	Combination switch	Output	Combination switch	Lighting switch 2ND	10 10 0	
B)	Ground	OUTPUT 5	Output	(Wiper intermit- tent dial 4)	Turn signal switch RH	2 ms JPMIA0031GB	M
-					All switch OFF	0V	
					(Wiper intermittent dial 4)	U V	0
					Front wiper switch HI (Wiper intermittent dial 4)	(V)	
51 (L/W) Ground	Combination switch OUTPUT 1	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0032GB	Р	

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0V
					Front washer switch ON (Wiper intermittent dial 4)	(V)
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	15 10 5 0 2 ms JPMIA0033GB
-					All switch OFF	0V
					Front wiper switch INT	
				O b i t i	Front wiper switch LO	(V)
53 (LG/ R)	Ground Combination switch OUTPUT 3 Output Combination switch (Wiper interm tent dial 4)	switch (Wiper intermit-	Lighting switch AUTO	2 ms JPMIA0034GB		
-					All switch OFF	0V
					Front fog lamp switch ON	
					Lighting switch 2ND	(V)
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit-	Lighting switch flash-to- pass	15 10 5 0
			tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	
57 ¹ (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)	C. Garia	ger relay	Output	fogger	Not activated	0V

Terminal No. (Wire color)		Description				Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
60		Front console anten-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(B/R)	Ground	na 2 (-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
61		Center console an-		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
61 (W/R) Ground	Ground	tenna 2 (+)	Output	ŌFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
62		Front outside bondle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V) Grour	Ground	Front outside handle RH antenna (-)	Output	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	

	ninal No. re color)	Description	lm:::4/	Condition		Value	
(+)	(-)	Signal name	Input/ Output			(Approx.)	
63	Ground	Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(P)	Cround	RH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
64	Ground	Front outside handle	Quitout	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(V)	Glound	LH antenna (-)	Output	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	
65	Crowd	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(P)	Ground	LH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1	

Terminal No. (Wire color)		Description		Condition		Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage	
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		(V) 15 10 5 1 ms 1 ms	
				When operating either button on Intelligent Key		(V) 15 10 5 0 JMKIA0065GB	
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB	

Terminal No. (Wire color)		Description		0 199		Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
76					Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	
(R/G)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0037GB	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	
		Engine switch (push		Engine switch	Pressed	0V	
(BR)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage	
78 (P)	Ground	CAN-L	Input/ Output		_	_	
79 (L)	Ground	CAN-H	Input/ Output		_	_	
	Ground	Key slot illumination C		Key slot illumina- tion	OFF	0V	
80 (R/L)			Output		Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	
					ON	6.5V	
					ON	Battery voltage	

Terminal No. (Wire color)		Description				Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
81 Grou	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V
(LG)	Ground	Ort malcator lamp	Output	ignition switch	ON	Battery voltage
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V
(L)		,			ACC or ON	Battery voltage
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage
85 ³ (L/O) Gr		Electronic steering column lock condition No. 1	Input	Electronic steer- ing column lock	Lock status	0V
	Ground				Unlock status	Battery voltage
86 ³	Crainal	Electronic steering column lock condition No. 2	Input	Electronic steer- ing column lock	Lock status	Battery voltage
(G/R)	Ground				Unlock status	0V
87 (G/B)	Ground	Selector lever P position switch	Input	Selector lever	P position	0V
	Giodila				Any position other than P	Battery voltage
88 (R)					ON (pressed)	0V
	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
		Front door LH request switch	Input	Front door LH request switch	ON (pressed)	0V
89 (R)	Ground				OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0V
(Y)	Ground	lay control	Output	igilition switch	ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
94 ³ (G/Y)	Ground	Steering wheel lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
				ignition switch	ON	0V

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

< ECU DIAGNOSIS >

Signal name Signal name Condition (Approx.) All switch OFF (Wiper intermittent dial 4) Lighting switch AUTO (Wiper intermittent dial 4) Ground (P/B) Ground Combination switch INPUT 4 Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4)	Terminal No. (Wire color)		Description			0 199	Value	
All switch OFF (Wiper intermittent dial 4) Lighting switch AUTO (Wiper intermittent dial 4) Lighting switch AUTO (Wiper intermittent dial 4) Lighting switch AUTO (Wiper intermittent dial 4) Lighting switch 13T (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4) JPMIA0038GB 1.3V		-			Condition			
Ground Combination switch INPUT 4 Combination switch INPUT 4 Lighting switch AUTO (Wiper intermittent dial 4) Lighting switch AUTO (Wiper intermittent dial 4) Lighting switch AUTO (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4) 1.3V							10 5 0 2 ms	
96 (P/B) Ground Combination switch INPUT 4 Input Switch Input Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4)							10 5 0	
Lighting switch 1ST (Wiper intermittent dial 4) Lighting switch 1ST (Wiper intermittent dial 4) 10 5 0		Ground		Input			JPMIA0038GB 1.3V	
1.3V				Lighting switch 1ST (Wiper intermittent dial 4)				10 5 0 2 ms
with all switch OFF						Any of the conditions below		

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Terminal No. (Wire color)		Description				Value		
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)		
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB		
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB		
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 2 ms JPMIA0036GB		
							Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB		
					Pressed	0 V		
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB		

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value								
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)								
					LOCK status	Battery voltage								
99 ³ (L/Y) Ground	Ground	Electronic steering column lock unit communication	Input/ Electronic steer- output ing column lock		LOCK or UNLOCK	(V) 15 10 5 0 50 ms JMKIA0066GB								
					For 15 seconds after UN- LOCK	Battery voltage								
													15 seconds or later after UNLOCK	0V
103	103 (V) Ground Trunk lid opening.	nd Trunk lid opening O	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage								
(V)		Trank ila opening.		Trunk lid	Close (trunk lid opener actuator is not activated)	0V								
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V								
(V/W)	2.34.14		Carpar		OFF	Battery voltage								
				When Intelligent Key is in the passenger compartment	(V) 15 10 5 1 1 s JMKIA0062GB									
114 (B)	Ground	Trunk room antenna 1 (-)	Output	Ignition switch OFF										
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKI/A0063GB								

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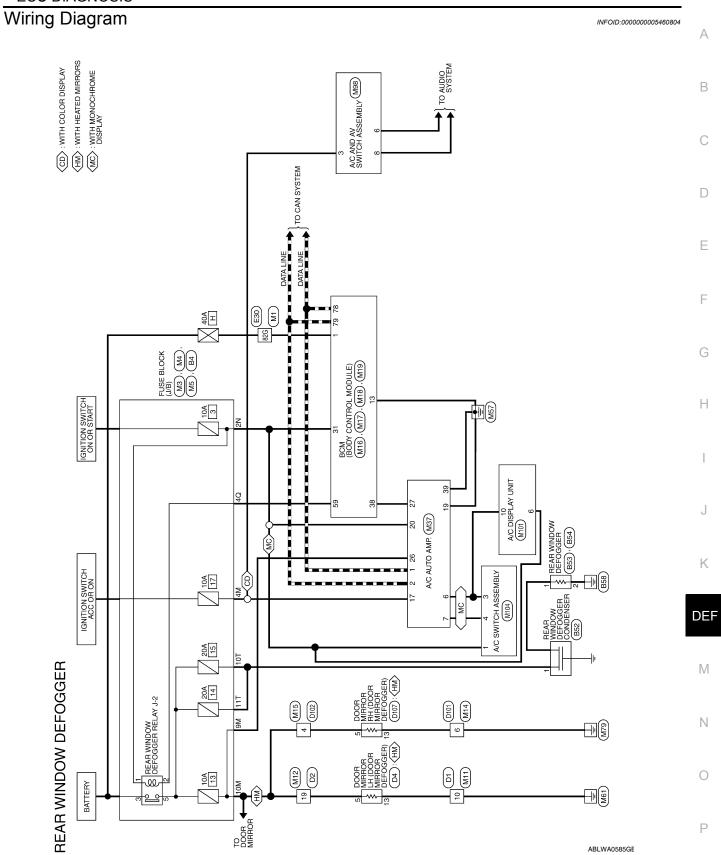
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	ninal No. e color)	Description	lac C		Condition	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
115	Ground	Ground Trunk room antenna 1 (+) Ignition switch OFF	Qutout		When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Sidaha		OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
118	118 Rear bumper anten- Output lid request swit		Rear humner anten-	ignition switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(L/O)		na (-)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
119		and Rear bumper anten- na (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(BR/ W)	Ground		Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

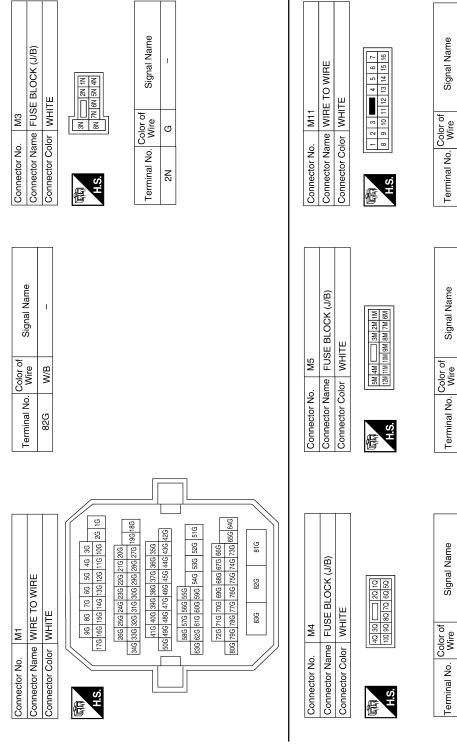
Terminal No. (Wire color)		Description Input/				Value	
(+)	e color)	Signal name		Condition		(Approx.)	
127		Ignition relay (IPDM			OFF or ACC	Battery voltage	
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V	
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (trunk is open)	0V	
132	Cround	Starter motor relay Output		Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage	
(R)			Output	ON	When selector lever is in P or N position and the brake is not depressed	0V	
140 ⁴		Engine switch (push	lant	Engine switch	Pressed	0V	
(L/R)		vitch)	Input (push switch)	Not pressed	Battery voltage		
					ON (pressed)	0V	
141 (BR)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	
144		Request switch buzz-		Request switch	Sounding	0V	
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage	
147		Trunk lid opener		Trunk lid opener	Pressed	0V	
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage	
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when rear door RH		
	1				opens)	0V	

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms 11.8V
					ON (when rear door LH opens)	0V

- 1 : With low tire pressure monitoring system
- 2 : With electronic steering column lock
- 3 : Early production
- 4 : Without electronic steering column lock



REAR WINDOW DEFOGGER CONNECTORS



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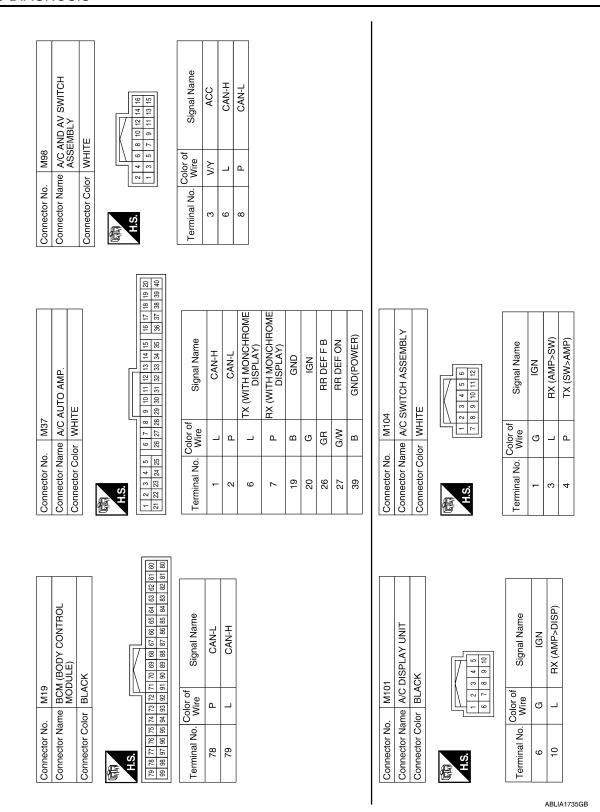
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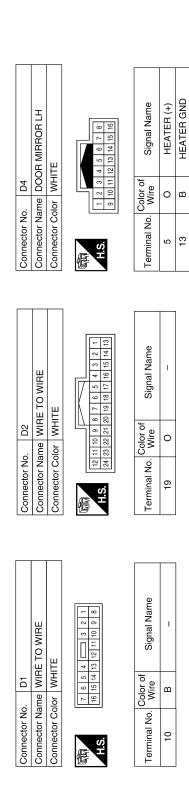
Connector No. M15 Connector Name WIRE TO WIRE	A B C D
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Signal Name	G
tor No. M14 Stor Color of WHITE Stor Color of Wire Stor Name BCM (MODU.) Stor Name BCM (MODU.) Stor Name BCM (MODU.) Stor Name BCM (Modu.) Stor Color of MHITE Stor Color of Modu.) Stor Color of Mire Stor Color of Mire Stor Color of Mire Stor Stor Name BCM (Modu.)	H
Connec Connec Connec Connec Connec	J
	K
No. M12 Name WIRE TO WIRE Color WHITE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 No. Wire Signal Name O No. M16	DEF
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N
Connector Nameror Nameror No. Connector Nameror Connector Nameror Connector Nameror N	0
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BHOWN BROWN IT IT IT IT OF Signal Name	Signal Name	С
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Connector No. Connector Name Connector Color Connector Color Terminal No. W 10T 11T 11T 11T 11T 11T 11T 11T 11T 11T	Connector No. B54 Connector Name REAR WINDOW DEFOGGER Connector Color BLACK LS. E Signal Name 2 B -	Е
		F
lame	DEFOGGER	G
Signal Name	Connector No. B53 Connector Name REAR WINDOW DEFOGGER Connector Color BLACK H.S. Terminal No. Wire Signal Name 1 B -	Н
O. Wire LG	Connector No. B53 Connector Color BLACK Connector Color BLACK H.S. Color of Terminal No. Wire 1 B	I
R2G	Connector No. Connector Colc Connector Colc H.S.	J
		K
E30 WIRE TO WIRE	Connector No. B52 Connector Name REAR WINDOW DEFOGGER Connector Color WHITE Terminal No. Wire Signal Name 1 Y -	DEF
Column C	Signa Signa	M
Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE 16 26 106 116 126 136 14 16 26 106 116 126 136 14 186 196 270 286 286 386 386 36 386 376 386 386 516 526 536 546 586 686 516 526 536 546 586 686 686 1815 815 826	Connector No. B52 Connector Name REAR V CONDE CONDE CONDE Terminal No. Wire 1 Y	N
Connector No. Connector Name Connector Color H.S. 1861	Connector Na. Connector Cold Terminal No.	0
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Connector No. D107 Connector Name DOOR MIRROR RH Connector Color WHITE	1 2 3 4 5 6 7 8 8 14 15 16 8 8 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Signal Name	HEATER (+)	HEATER GND
ne DOO	10 10 11 3	Solor of Wire	0	В
Connector No. D107 Connector Name DOOR I Connector Color WHITE	明.S.	Terminal No. Wire	2	13
2 E TO WIRE TE	13 2 2 10 0 0 1 1 10 0 0 1 1 1 1 1 1 1 1 1	Signal Name	ı	
ne WIR	7 6 5 14 13	Solor of Wire	0	
Connector No. D102 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. Wire	4	
1 IE TO WIRE TE	2 - 1 0 - 1 0 0 0	Signal Name	1	
me WIRI	4 10 8	Color of Wire	В	
Connector No. D101 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. Wire	9	

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		FRONT BLOWER MOTOR PELAY J.4
(REAR SER RELAY)		ACCESSORY J.S. ACCESSORY
J-2 FUSE BLOCK (J/B) (REAR WINDOW DEFOGGER REL	1	
Connector No. Connector Name	Connector Color	GANTTON FELAY-2

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Fail Safe INFOID:0000000005524459

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

Display contents of CONSULT	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Erase DTC
B2557: VEHICLE SPEED*	Inhibit electronic steering column lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2562: LO VOLTAGE	 Inhibit engine cranking Inhibit electronic steering column lock* 	100 ms after the power supply voltage increases to more than 8.8 V
B2601: SHIFT POSITION*	Inhibit electronic steering column 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 electronic steering column 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 (battery voltage) Vehicle speed: 4 km/h or more
B2603: SHIFT POSI STATUS*	Inhibit electronic steering column lock	 500 ms after the following BCM recognition conditions are fulfilled Ignition switch is in the ON position Selector lever P position switch signal: Except P position (battery voltage) Selector lever transmission range switch signal: Except P and N positions (0 V)
B2604: TRANSMISSION RANGE SWITCH [*]	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Status 1 - Ignition switch is in the ON position - Selector lever transmission range switch signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever transmission range switch signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: TRANSMISSION RANGE SWITCH*	Inhibit electronic steering column lock	500 ms after any of the following BCM recognition conditions is ful- filled • Ignition switch is in the ON position - Power position: IGN - Selector lever transmission range switch signal: Except P and N positions (0 V) - Transmission range switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever transmission range switch signal: P or N position (battery voltage) - Transmission range switch signal (CAN): ON
B2606: S/L RELAY*	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)

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Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY*	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Electronic steering column lock relay signal (Request signal) • Electronic steering column lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS*	Inhibit engine cranking Inhibit electronic steering column lock	When the following electronic steering column lock conditions agree BCM electronic steering column lock control status Electronic steering column lock condition No. 1 signal status Electronic steering column lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS*	Inhibit engine cranking Inhibit electronic steering column lock	When any of the following conditions is fulfilled Electronic steering column lock unit status signal (CAN) is received normally The BCM electronic steering column lock control status matches the electronic steering column lock status recognized by the electronic steering column lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM*	Inhibit engine cranking	1 second after the electronic steering column lock unit power sup- ply output control inside BCM becomes normal
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)

^{* :} With electronic steering column lock

DTC Inspection Priority Chart

INFOID:0000000005524460

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

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

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Priority	DTC
4	B2013: ID DISCORD BCM-S/L* B2014: CHAIN OF S/L-BCM* B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: TRANSMISSION RANGE SWITCH B2605: TRANSMISSION RANGE SWITCH B2606: S/L RELAY* B2607: S/L RELAY* B2608: STARTER RELAY B2609: S/L STATUS* B2609: S/L STATUS* B2609: S/L STATUS* B2600: STEERING LOCK UNIT* B2600: STEERING LOCK UNIT* B2600: STEERING LOCK UNIT* B2601: SNI STATUS* B2601: SNI STATUS* B2602: SNI STATUS* B2603: STEERING LOCK UNIT* B2606: SNI STEERING LOCK UNIT* B2607: SNI STATUS* B2608: STEERING LOCK UNIT* B2609: SNI STATUS* B2609: STEERING LOCK UNIT* B2609: STEERING LOCK UNIT* B2601: SNI STATUS* B2610: SNI STATUS* B2611: SNI STATUS* B2612: SNI STATUS* B2613: BLOWER RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM* B2611: PUSH-BTN IGN SW B26E1: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG
5	C1704: LOW PRESSURE FL C1705: LOW PRESSURE RR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FL C1710: [NO DATA] FR C1711: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] RR C1717: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] FR C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL
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^{*:} With electronic steering column lock

< ECU DIAGNOSIS >

DTC Index INFOID:0000000005524461

NOTE:

Details of time display

- · CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF \rightarrow ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases $1 \rightarrow 2$ \rightarrow 3...38 \rightarrow 39 after returning to the normal condition whenever ignition switch OFF \rightarrow ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch $OFF \rightarrow ON$ after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	_	_	_	BCS-36
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-37
U0415: VEHICLE SPEED SIG	_	_	_	BCS-38
B2013: ID DISCORD BCM-S/L*	×	_	_	SEC-39
B2014: CHAIN OF S/L-BCM*	×	_	_	<u>SEC-40</u>
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-43</u>
B2191: DIFFERENCE OF KEY	×	_	_	SEC-46
B2192: ID DISCORD BCM-ECM	×	_	_	<u>SEC-47</u>
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-48</u>
B2553: IGNITION RELAY	_	_	_	PCS-55
B2555: STOP LAMP	_	_	_	SEC-49
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-52</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-54</u>
B2560: STARTER CONT RELAY	×	×	_	<u>SEC-55</u>
B2562: LOW VOLTAGE	_	_	_	BCS-39
B2601: SHIFT POSITION	×	×	_	<u>SEC-56</u>
B2602: SHIFT POSITION	×	×	_	SEC-59
B2603: SHIFT POSI STATUS	×	×	_	SEC-62
B2604: TRANSMISSION RANGE SWITCH	×	×	_	<u>SEC-65</u>
B2605: TRANSMISSION RANGE SWITCH	×	×	_	SEC-67
B2606: S/L RELAY*	×	×	_	SEC-69
B2607: S/L RELAY*	×	×	_	SEC-70
B2608: STARTER RELAY	×	×	_	SEC-72
B2609: S/L STATUS [*]	×	×	_	<u>SEC-74</u>
B260A: IGNITION RELAY	×	×	_	PCS-57
B260B: STEERING LOCK UNIT*	_	×	_	SEC-78
B260C: STEERING LOCK UNIT*	_	×	_	SEC-79
B260D: STEERING LOCK UNIT*	_	×	_	SEC-80
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-81</u>
B2612: S/L STATUS*	×	×	_	SEC-83
B2614: ACC RELAY CIRC	_	×	_	PCS-59

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CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2615: BLOWER RELAY CIRC	_	×	_	PCS-62
B2616: IGN RELAY CIRC	_	×	_	PCS-65
B2617: STARTER RELAY CIRC	×	×	_	PCS-65
B2618: BCM	×	×	_	PCS-68
B2619: BCM*	×	×	_	SEC-89
B261A: PUSH-BTN IGN SW	_	×	_	<u>SEC-90</u>
B2622: INSIDE ANTENNA	_	_	_	DLK-60
B2623: INSIDE ANTENNA	_	_	_	<u>DLK-63</u>
B26E1: ENG STATE NO RES	×	×	_	<u>SEC-82</u>
C1704: LOW PRESSURE FL	_	_	×	<u>WT-48</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-48</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-48</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-48</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-14</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-14</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-14</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-14</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-16</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-16</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-16</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-16</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-18</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-18</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-18</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-18</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-16</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-16</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-16</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-16</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-16</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-16</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-16</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-16</u>
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-20</u>
C1734: CONTROL UNIT	_	_	×	<u>WT-21</u>

^{*:} With electronic steering column lock

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

Diagnosis Procedure

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1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to DEF-14, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

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

Is the inspection result normal?

YES >> Refer to GI-39, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH OF DOOR MIR-ROR DEFOGGER OPERATE.

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH OF DOOR MIRROR DEFOGGER OPERATE.

Diagnosis Procedure

INFOID:0000000005460809

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit. Refer to <u>DEF-14</u>, "Component Function Check".

Is the inspection result normal?

YES >> Refer to GI-39, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

BOTH DOORS MIRROR DEFOGGER DON'T OPERATE BUT REAR WINDOW DEFOGGER OPERATES

< SYMPTOM DIAGNOSIS >

BOTH DOORS MIRROR DEFOGGER DON'T OPERATE BUT REAR WIN-DOW DEFOGGER OPERATES

Diagnosis Procedure

1. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

YES >> Check the following.

- Battery power supply circuit.
- Fuse block (J/B).

NO >> Repair or replace the malfunctioning parts.

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DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:0000000005460811

1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

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

Is the inspection result normal?

YES >> Refer to GI-39, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS > PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE. Α Diagnosis Procedure INFOID:0000000005460812 1. CHECK DOOR MIRROR DEFOGGER RH В Check door mirror defogger RH. Refer to DEF-18, "Component Function Check". C Is the inspection result normal? YES >> Refer to GI-39, "Intermittent Incident". NO >> Repair or replace the malfunctioning parts. D Е F Н J K DEF M Ν 0 Р

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REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WINDOW DEFOGGER OPERATES

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WINDOW DEFOGGER OPERATES

Diagnosis Procedure

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

Check that A/C auto amp. (rear window defogger switch) is operating normally. Is the inspection result normal?

YES >> Refer to GI-39, "Intermittent Incident".

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

PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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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 SR and SB section 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 SR section.
- 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 Airbag Diagnosis Sensor Unit or other Airbag 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.

Precautions Necessary for Steering Wheel Rotation after Battery Disconnect (Early Production, With Electronic Steering Column Lock)

NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

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

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

- Supply power using jumper cables if battery is discharged.
- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.

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PRECAUTIONS

< PRECAUTION >

- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

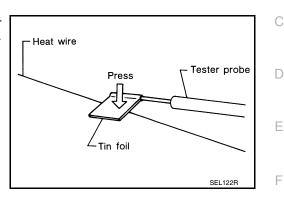
ON-VEHICLE REPAIR

FILAMENT

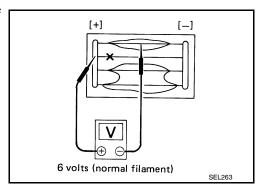
Inspection and Repair

INSPECTION

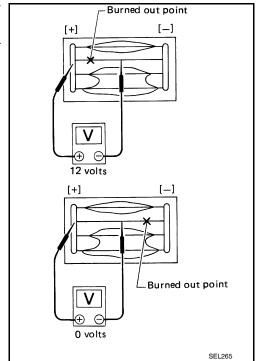
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



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



REPAIR

REPAIR EQUIPMENT

Conductive silver composition (Dupont No. 4817 or equivalent)

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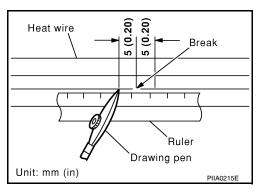
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< ON-VEHICLE REPAIR >

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

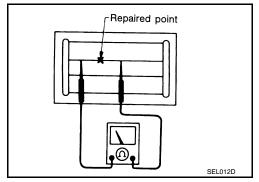
REPAIRING PROCEDURE

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



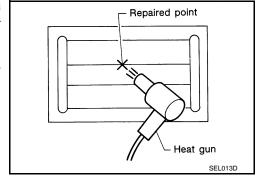
4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

Do not touch repaired area while test is being conducted.



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

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



CONDENSER

< ON-VEHICLE REPAIR >

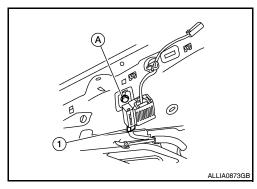
CONDENSER

Removal and Installation

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REMOVAL

- 1. Partially remove the rear pillar finisher. Refer to INT-24, "Removal and Installation".
- 2. Disconnect the electrical connector, remove bolt (A), and then remove condenser (1) from the vehicle body.



INSTALLATION

Installation is in the reverse order of removal.

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