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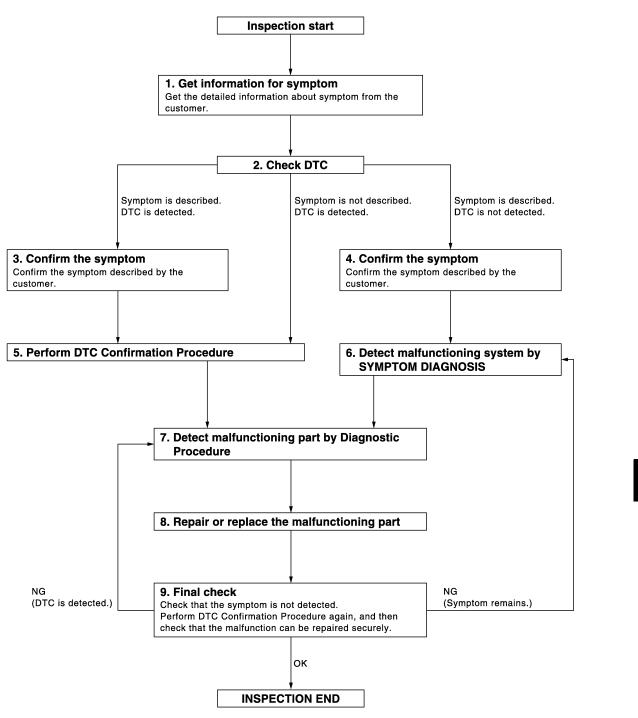
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BASIC INSPECTION

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.)
- 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 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 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 to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-63, "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-41, "Intermittent Incident".

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.

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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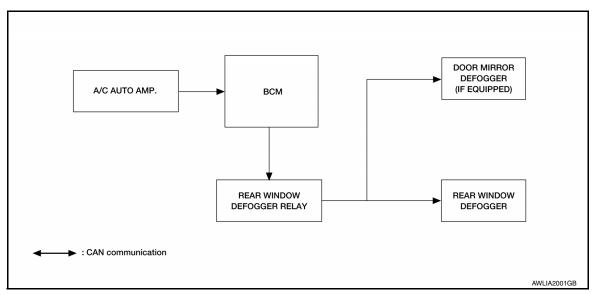
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SYSTEM DESCRIPTION

REAR WINDOW DEFOGGER SYSTEM

System Diagram

INFOID:0000000010045573



System Description

INFOID:0000000010045574

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.
- Rear window defogger ON is displayed when controller (A/C 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

REAR WINDOW DEFOGGER SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:0000000010045575

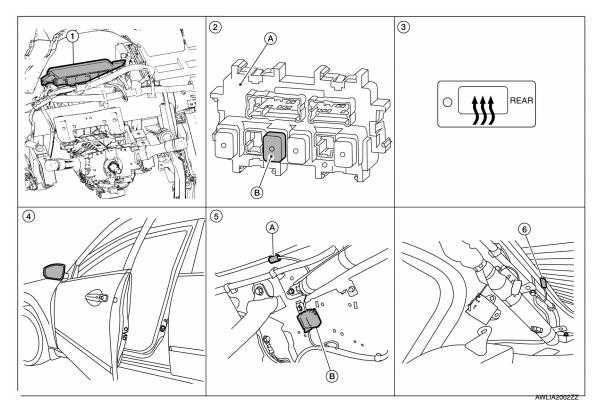
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- BCM M16, M17, M18, M19 (view with 2. instrument panel removed)
- Door mirror (door mirror defogger) LH 5.
 D4, RH D107 (if equipped)
- 2. A. Fuse block (J/B)
 - B. Rear window defogger relay J-2
 - A. Rear window defogger B53
 - B. Condenser B52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

Component Description

INFOID:0000000010045576

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 sign 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. 	
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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010065030

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work support	Changes the setting for each system function.
Configuration	 Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing BCM.
CAN Diag Support Mntr	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
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		×	×	×	×		

REAR WINDOW DEFOGGER

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

NFOID:0000000010065032

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push button ignition switch
REAR DEF SW [On/Off]	Indicates condition of rear window defogger switch

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	This test is able to check rear window defogger operation [Off/On].

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REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Description INFOID:0000000010045579

- 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

INFOID:0000000010045580

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.

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

Diagnosis Procedure

INFOID:0000000010045581

Regarding Wiring Diagram information, refer to <u>DEF-46</u>, "Wiring Diagram".

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

Check A/C auto amp. operation.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2

2.check rear window defogger switch require signal

- Turn ignition switch ON.
- Check voltage between A/C auto amp. harness connector M37 terminal 27 and ground.

	Terminals		0 1111 1	V II
(+)		()	Condition of rear window de- fogger switch	Voltage (V) (Approx.)
A/C auto amp. connector	Terminal	(-)	330	(1-1 /
M37	27	Ground	ON	0
IVIO I	21	Ground	OFF	5

Is the inspection result normal?

YES >> GO TO 3

NO >> GO TO 4

${f 3}.$ CHECK REAR WINDOW DEFOGGER SWITCH REQUIRE SIGNAL CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect A/C auto amp harness connector M37.
- Disconnect BCM harness connector M18.
- Check continuity between A/C auto amp harness connector M37 terminal 27 and BCM harness connector M18 terminal 38.

BCM connector	Terminal	A/C auto amp. connector	Terminal	Continuity
M18	38	M37	27	Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Repair and replace harness.

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK REAR WINDOW DEFOGGER SWITCH REQUIRE SIGNAL CIRCUIT FOR SHORT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M18.
- 3. Disconnect A/C auto amp harness connector M37.
- 4. Check continuity between BCM harness connector M18 terminal 38 and ground.

BCM connector	Terminal	Ground	Continuity
M18	38	Ground	No

Is the inspection result normal?

YES >> Replace A/C auto amp.

- With color display, refer to HAC-100, "Removal and Installation".
- With monochrome display, refer to HAC-203, "Removal and Installation".
- NO >> Repair or replace harness.

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REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description INFOID:000000010045582

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

Component Function Check

INFOID:0000000010045583

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

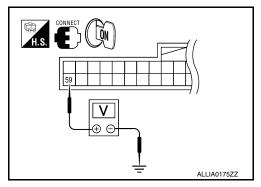
INFOID:0000000010045584

Regarding Wiring Diagram information, refer to DEF-46, "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 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

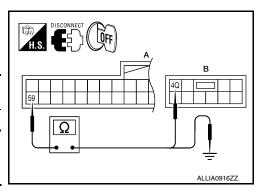
2. CHECK HARNESS CONTINUITY

- 1. 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

< DTC/CIRCUIT 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-41, "Intermittent Incident".

Is the inspection result normal?

YES

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

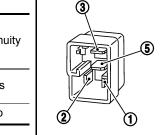
NO >> Repair or replace the malfunctioning parts.

Component Inspection

1. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

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



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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

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Description INFOID:000000010045586

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:0000000010045587

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

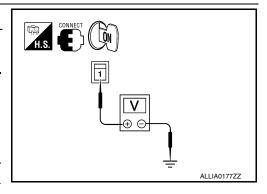
INFOID:0000000010045588

Regarding Wiring Diagram information, refer to DEF-46, "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.

Т	erminals			
(+)			Condition of rear	Voltage (V)
Rear window de- fogger connector	Terminal	(-)	window defogger switch	(Approx.)
B53	1	Ground	ON	Battery voltage
	1	Giodila	OFF	0



Is the inspection result normal?

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

2. CHECK GROUND CIRCUIT

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

Rear window defogger connector	Terminal	Ground	Continuity
B54	2	Ground	Yes

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Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

 $oldsymbol{3}$. CHECK HARNESS CONTINUITY 1

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

1

Yes

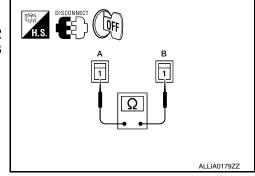
< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 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	Terminal	Rear window defogger	Terminal	Continuity
connector	Terriniai	connector	Terriniai	Continuity

B53 (B)



Is the inspection result normal?

YES >> GO TO 4

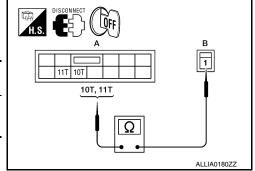
B52 (A)

NO >> Replace condenser. Refer to <u>DEF-66</u>, "Removal and Installation".

4. CHECK HARNESS CONTINUITY 2

- 1. Disconnect fuse block (J/B).
- 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)	10T	B52 (B)	1	Yes
D+ (A)	11T	D32 (B)	'	103



Is the inspection result normal?

YES >> GO TO 6

NO >> Replace or repair harness.

5. CHECK FILAMENT

Check filament.

Refer to DEF-15, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".

NO >> Repair filament. Refer to <u>DEF-64</u>, "Inspection and Repair".

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "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-64, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair filament. Refer to DEF-64, "Inspection and Repair".

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Revision: August 2013 DEF-15 2014 Maxima NAM

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Description INFOID:000000010045590

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:0000000010045591

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

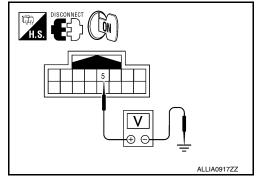
INFOID:0000000010045592

Regarding Wiring Diagram information, refer to DEF-46, "Wiring Diagram".

1. CHECK POWER SUPPLY CIRCUIT

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

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



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK GROUND CIRCUIT

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

Door mirror LH connector	Terminal	Ground	Continuity
D4	13	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

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3. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-17, "Component Inspection".

Is the inspection result normal?

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4

NO >> Replace door mirror LH. Refer to MIR-19, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "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

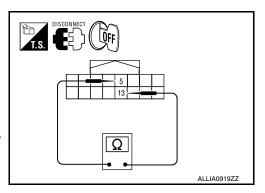
- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror LH.
- 3. Check continuity between door mirror terminals 5 and 13.

Terr	minal	Continuity
5	13	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror LH. Refer to MIR-19, "Removal and Installation".



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PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Description INFOID:000000010045594

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:0000000010045595

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

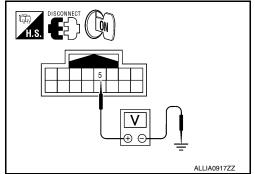
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Regarding Wiring Diagram information, refer to DEF-46, "Wiring Diagram".

1. CHECK POWER SUPPLY CIRCUIT

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

	Terminals	0 1111 6		
(+)			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

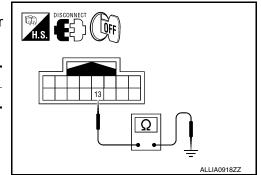
- 1. Turn ignition switch OFF.
- 2. Check continuity between door mirror RH harness connector D107 terminal 13 and ground.

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".

Is the inspection result normal?

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4

NO >> Replace door mirror RH. Refer to MIR-19, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "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

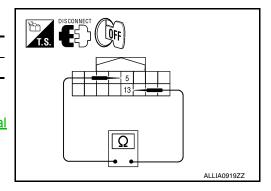
- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror RH.
- 3. Check continuity between door mirror terminals 5 and 13.

Terr	minal	Continuity
5	13	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror RH. Refer to MIR-19, "Removal and Installation".



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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- · Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	OFF
TIX WIF LIXTII	Front wiper switch HI	ON
FR WIPER LOW	Other than front wiper switch LO	OFF
	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
FR WIPER STOP	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
TURN SIGNAL R	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI GIONALI	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
LILDEAM CW	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
HEAD LAIVIP SVV I	Lighting switch 2ND	ON
LIEAD LAMB CW/ 2	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LICLIT CW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC SW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD SW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON

Monitor Item	Condition	Value/Status
DOOR SW-AS	Passenger door closed	OFF
DOOK SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
DOOK SW-KK	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON
DOOD CW DK	Trunk door closed	OFF
DOOR SW-BK	Trunk door opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
	Other than power door lock switch UNLOCK	OFF
CDL UNLOCK SW	Power door lock switch UNLOCK	ON
VEV 0V/L LIK 0V/L	Other than driver door key cylinder LOCK position	OFF
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON
ZEV OVI LINI OVA	Other than driver door key cylinder UNLOCK position	OFF
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON
1474BB 0144	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
	Trunk lid opener cancel switch OFF	OFF
TR CANCEL SW	Trunk lid opener cancel switch ON	ON
TD/DD ODEN OW	Trunk lid opener switch OFF	OFF
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON
	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
	When UNLOCK button of Intelligent Key is not pressed	OFF
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
OVE TO/PD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
DIVE DANUG	When PANIC button of Intelligent Key is not pressed	OFF
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON
DIVE DAM COST.	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
	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
ODTICAL OFNICOD	When outside of the vehicle is bright	Close to 5 V
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V
250 014 55	When front door request switch is not pressed (driver side)	OFF
REQ SW -DR	When front door request switch is pressed (driver side)	ON
	When front door request switch is not pressed (passenger side)	OFF
REQ SW -AS	When front door request switch is pressed (passenger side)	ON

Monitor Item	Condition	Value/Status
REQ SW -RL	When rear door request switch is not pressed (driver side)	OFF
REQ SW -RL	When rear door request switch is pressed (driver side)	ON
REQ SW -RR	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 CW. DD/TD	When trunk opener request switch is not pressed	OFF
REQ SW -BD/TR	When trunk opener request switch is pressed	ON
DUCU OW	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON
ION DIVO E/D	Ignition switch OFF or ACC	OFF
IGN RLY2 -F/B	Ignition switch ON	ON
400 DIV 5/D	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON
	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
	When selector lever is in P position	OFF
DETE/CANCL SW	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/N SW	When selector lever is in P or N position	ON
UNLK SEN -DR	Driver door UNLOCK status	OFF
	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
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	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

Monitor Item	Condition	Value/Status
D OK FLAG	Ignition switch ACC or ON	RESET
D ON I LAG	Ignition switch OFF	SET
PRMT ENG STRT	When the engine start is prohibited	RESET
TIWIT LING STICE	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KLT 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
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
OOM RIVITID 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
JOIN IKWID4	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
	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
SOM INWINE	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
CONFIRMIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
ΓP 4	The ID of fourth key is not registered to BCM	YET
r 4	The ID of fourth key is registered to BCM	DONE
-D 2	The ID of third key is not registered to BCM	YET
⁻ P 3	The ID of third key is registered to BCM	DONE
-D 0	The ID of second key is not registered to BCM	YET
⁻ P 2	The ID of second key is registered to BCM	DONE
-	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
D DECCT EL 4	When ID of front LH tire transmitter is registered	DONE
D REGST FL1	When ID of front LH tire transmitter is not registered	YET
D DECOT 52.	When ID of front RH tire transmitter is registered	DONE
D REGST FR1	When ID of front RH tire transmitter is not registered	YET
D DECOT 554	When ID of rear RH tire transmitter is registered	DONE
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET

Monitor Item	Condition	Value/Status
ID REGST RL1	When ID of rear LH tire transmitter is registered	DONE
ID REGGI RET	When ID of rear LH tire transmitter is not registered	YET
WARNING LAMP	Tire pressure indicator OFF	OFF
WARRING LAW	Tire pressure indicator ON	ON
BU77FR	Tire pressure warning alarm is not sounding	OFF
DOZZEN	Tire pressure warning alarm is sounding	ON

Terminal Layout

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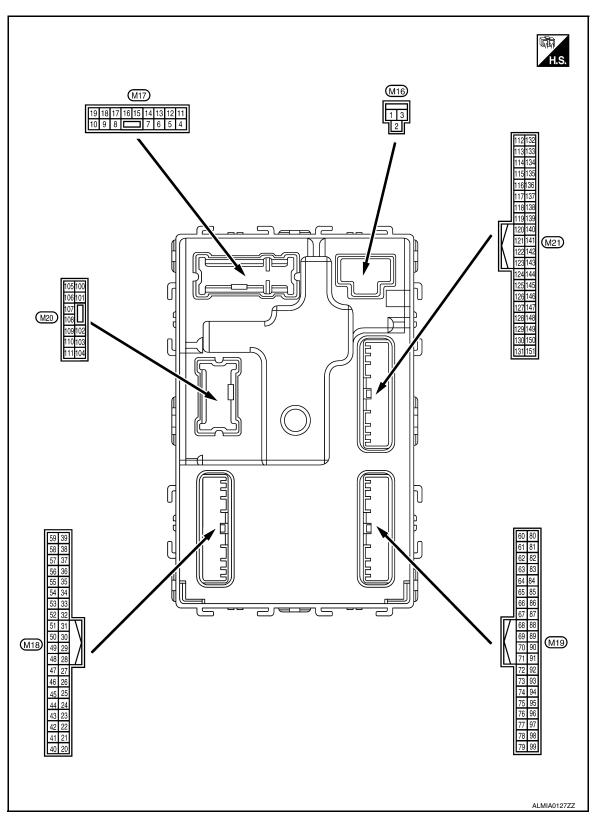
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Physical Values

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	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Ground	power supply	Output	Any other time after lamp battery save	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	FIOR GOOFKI	Other than UNLOCK (actuator is not activated)	0V
7	Ground	Step lamp	Output	Step lamp	ON	0V
(R/W)	Orouna	Otop lamp	Output	Otop lamp	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	0.000	, doo.o 2001	Carpar	7 000.0	Other than LOCK (actuator is not activated)	ov
9	Ground	Front door LH UN-	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(L)	Ordana	LOCK	Catput	Tront door Err	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)	Ordana	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 JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Cround		Carput	.g.m.on ownon	ACC or ON	0V

Terminal No. (Wire color)		Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
17	Ground	Turn signal (RH)	Output	Ignition switch	Turn signal switch OFF	(V) 15 10	
(G/B)	Glound	rum signal (KIT)	Output	ON	Turn signal switch RH	0 PKID0926E 6.5 V	
					Turn signal switch OFF	0V	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage	
(Y)		control		lamp	ON	0V	
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(P/B)		, , , , , , , , , , , , , , , , , , , ,	,	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	Input	Stop lamp switch	OFF (brake pedal is released)	OV	
(O/L)		· 		-	ON (brake pedal is depressed)	Battery voltage	
27 (O)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0	
						ЈРМIA0011GB 11.8V	
					UNLOCK status	0V	
29 (X)	Ground	Key slot switch	Input	_	Key is inserted into key slot	Battery voltage	
(Y)				_	ey is not inserted into key slot	0V	
31		Rear window defog-	I	Rear window de-	OFF	0V	

	inal No. e color)	Description				Value	
(+)	(-)	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)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB	
					ON (when front door RH opens)	0V	
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB	
-					ON	0V	
38 (GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	OFF	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	1	0V	
41	_	Engine switch (push		Engine switch	ON	5.5V	
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	OV	
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V	
(R)	Ciouna	-	Output	lamp	OFF	Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V	
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	
(V/W)		power supply output	•	<u> </u>	ACC or ON	5.0V	

	inal No.	Description				Value	٨
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
47		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 **+ 0.2s	B C
(G/O)	Ground	er signal	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 • 0.2s OCC3880D	E F
48	Ground	Selector lever trans- mission range switch	lant	Selector lever	P or N position	12.0V	G
(R/G)	Giouna	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	Input	switch	Lighting switch 2ND	10	
B)	Glound	OUTPUT 5	mput	(Wiper intermit- tent dial 4)	Turn signal switch RH	0 2 ms	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	Input	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.	Description				Value
(+)	e color) (-)	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	Input	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB
					All switch OFF	0V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V)
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Input	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB
					All switch OFF	0V
					Front fog lamp switch ON	
					Lighting switch 2ND	(V)
54 (G/Y)	Ground	Combination switch OUTPUT 4	Input	Combination switch (Wiper intermit-	Lighting switch flash-to- pass	15 10 5 0
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB
57 (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
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)	Cround	ger relay	Calput	fogger	Not activated	OV

	inal No. e color)	Description		Condition		Value	А
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	/ \
60	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(B/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	E F G
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S JMKIA0062GB	Н
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	J K
62		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
(V)	Ground	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	O

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

Terminal No. (Wire color)		Description	-		0	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	1
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.	6
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 con- trol	Output	Ignition switch	OFF or ACC	0V Battery voltage	[
(33)				During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	[
71 (L/O)	Ground	Remote keyless entry receiver signal	Input/ Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	(
75 (R/Y)	Ground	Combination switch INPUT 5	ion switch Output	tput Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	D
					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	N
					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 1.3V	(

	inal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch INPUT 3	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
76	Ground				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 0 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 1.3V
78 (P)	Ground	CAN-L	Input/ Output		_	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Blinking ON	Battery voltage (V) 15 10 5 0 JPMIA0015GB 6.5V
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V Battery voltage

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output	Condition		(Approx.)	
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V	В
(L)	Ordana	7.00 Toldy control	Оифи	ignition owner	ACC or ON	Battery voltage	
84 (Y/R)	Ground	CVT shift selector	Output	_		Battery voltage	С
87	Ground	Selector lever P posi-	Input	Selector lever	P position	0V	
(G/B)	Ordana	tion switch	mpat	20.00.01	Any position other than P	Battery voltage	
					ON (pressed)	0V	D
88 (R)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	E
					ON (pressed)	0V	G
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	Н
90		Blower fan motor re-			OFF or ACC	0V	J
(Y)	Ground	lay control	Output	Ignition switch	ON	Battery voltage	
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage	K

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Terminal No. (Wire color)		Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V
95 (R/W)	Ground	Combination switch INPUT 1	Output	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					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 INFORMATION >

	nal No. color)	Description				Value																
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)																
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB																
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms																
96 (P/B)	Ground	Combination switch INPUT 4	Output	Output	Output	Output			Output	Combination switch Lighting switch 1ST (Wiper intermittent dial 4)			1.3V JPMIA0038GB									
																			Lighting switch 1ST (Wiper intermittent dial 4)	15 10 5 0 2 ms		
						JPMIA0036GB 1.3V																
					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																
						JРМIA0039GB 1.3V																

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	
	()				All switch OFF	(V) 15 10 2 ms JPMIA0041GB	
		Ground Combination switch INPUT 2 Output Combination switch (Wiper intermittent dial 4) Front wiper	Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V			
97 (R/B)	Ground		Output	switch (Wiper intermit-	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V	
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	
					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 JPMIA0012GB 1.1V	

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value	А
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
103	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated) Battery voltage		В
(V)	Ground	Trunk nd opening.	Output	Trunk na	Close (trunk lid opener actuator is not activated)	0V	
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	С
(V/VV)					OFF	Battery voltage	
114	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 1	D E
(B)	Clound	1 (-)	Сири	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	G
115	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	J
(W)	3.34.14	1 (+)	Suput	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	M N

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire (+)	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
118		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(L/O)	Ground	na (-)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
119 (BR/	Ground	Rear bumper antenna (+)	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 JMKIA0062GB
W)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
127 (BR/	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 10 ms 11.8V
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON	ON (trunk is open) When selector lever is in P or N position and the brake is depressed When selector lever is in P or N position and the brake is not depressed	OV Battery voltage OV

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< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
140	Ground	Engine switch (push	Input	Engine switch	Pressed	0V
(BR)	Ground	switch)	iliput	(push switch)	Not pressed	Battery voltage
					ON (pressed)	0V
141 (BR)	Ground	Trunk opener request switch	Input	Trunk opener request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
144		Poguost switch buzz		Request switch	Sounding	0V
(GR)	Ground	Request switch buzz- 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 opens)	0V
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 JPMIA0011GB
					ON (when rear door LH opens)	0V

Fail Safe INFOID:0000000010065036

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
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

< ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2562: LO VOLTAGE	Inhibit engine cranking	100 ms after the power supply voltage increases to more than 8.8 V
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
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)

DTC Inspection Priority Chart

INFOID:000000001006503

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
4	 B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2557: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SWITCH B2605: PNP SWITCH B2606: STARTER RELAY B2607: ENG STATE SIG LOST B2607: ENG STATE SIG LOST B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2611: ENG STATE NO RECIV C1729: VHCL SPEED SIG ERR U0415: VEHICLE SPEED SIG

< ECU DIAGNOSIS INFORMATION >

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

DTC Index

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 → ON again.

1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases 1 → 2
 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → 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 → 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-32
U1010: CONTROL UNIT (CAN)	_	_	_	BCS-33
U0415: VEHICLE SPEED SIG	_	_	_	BCS-34
B2190: NATS ANTENNA AMP	×	_	_	SEC-37
B2191: DIFFERENCE OF KEY	×	_	_	SEC-40
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-41
B2193: CHAIN OF BCM-ECM	×	_	_	SEC-42
B2553: IGNITION RELAY	_	_	_	PCS-46
B2555: STOP LAMP	_	_	_	SEC-43
B2556: PUSH-BTN IGN SW	_	×	_	<u>SEC-46</u>
B2557: VEHICLE SPEED	×	×	_	<u>SEC-48</u>
B2560: STARTER CONT RELAY	×	×	_	<u>SEC-49</u>

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< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2562: LOW VOLTAGE	_	_	_	BCS-35
B2601: SHIFT POSITION	×	×	_	<u>SEC-50</u>
B2602: SHIFT POSITION	×	×	_	<u>SEC-53</u>
B2603: SHIFT POSI STATUS	×	×	_	<u>SEC-56</u>
B2604: PNP SWITCH	×	×	_	<u>SEC-59</u>
B2605: PNP SWITCH	×	×	_	<u>SEC-61</u>
B2608: STARTER RELAY	×	×	_	<u>SEC-63</u>
B260A: IGNITION RELAY	×	×	_	PCS-48
B260F: ENG STATE SIG LOST	×	×	_	<u>SEC-65</u>
B2614: ACC RELAY CIRC	_	×	_	PCS-50
B2615: BLOWER RELAY CIRC	_	×	_	PCS-53
B2616: IGN RELAY CIRC	_	×	_	PCS-56
B2617: STARTER RELAY CIRC	×	×	_	<u>SEC-67</u>
B2618: BCM	×	×	_	PCS-59
B261A: PUSH-BTN IGN SW	_	×	_	PCS-60
B2622: INSIDE ANTENNA	_	_	_	<u>DLK-60</u>
B2623: INSIDE ANTENNA	_	_	_	DLK-63
B26E1: ENG STATE NO RES	×	×	_	<u>SEC-66</u>
C1704: LOW PRESSURE FL	_	_	×	<u>WT-43</u>
C1705: LOW PRESSURE FR	_	_	×	<u>WT-43</u>
C1706: LOW PRESSURE RR	_	_	×	<u>WT-43</u>
C1707: LOW PRESSURE RL	_	_	×	<u>WT-43</u>
C1708: [NO DATA] FL	_	_	×	<u>WT-13</u>
C1709: [NO DATA] FR	_	_	×	<u>WT-13</u>
C1710: [NO DATA] RR	_	_	×	<u>WT-13</u>
C1711: [NO DATA] RL	_	_	×	<u>WT-13</u>
C1712: [CHECKSUM ERR] FL	_	_	×	<u>WT-15</u>
C1713: [CHECKSUM ERR] FR	_	_	×	<u>WT-15</u>
C1714: [CHECKSUM ERR] RR	_	_	×	<u>WT-15</u>
C1715: [CHECKSUM ERR] RL	_	_	×	<u>WT-15</u>
C1716: [PRESSDATA ERR] FL	_	_	×	<u>WT-17</u>
C1717: [PRESSDATA ERR] FR	_	_	×	<u>WT-17</u>
C1718: [PRESSDATA ERR] RR	_	_	×	<u>WT-17</u>
C1719: [PRESSDATA ERR] RL	_	_	×	<u>WT-17</u>
C1720: [CODE ERR] FL	_	_	×	<u>WT-15</u>
C1721: [CODE ERR] FR	_	_	×	<u>WT-15</u>
C1722: [CODE ERR] RR	_	_	×	<u>WT-15</u>
C1723: [CODE ERR] RL	_	_	×	<u>WT-15</u>
C1724: [BATT VOLT LOW] FL	_	_	×	<u>WT-15</u>
C1725: [BATT VOLT LOW] FR	_	_	×	<u>WT-15</u>
C1726: [BATT VOLT LOW] RR	_	_	×	<u>WT-15</u>
C1727: [BATT VOLT LOW] RL	_	_	×	<u>WT-15</u>

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
C1729: VHCL SPEED SIG ERR	_	_	×	<u>WT-19</u>
C1734: CONTROL UNIT	_		×	<u>WT-20</u>

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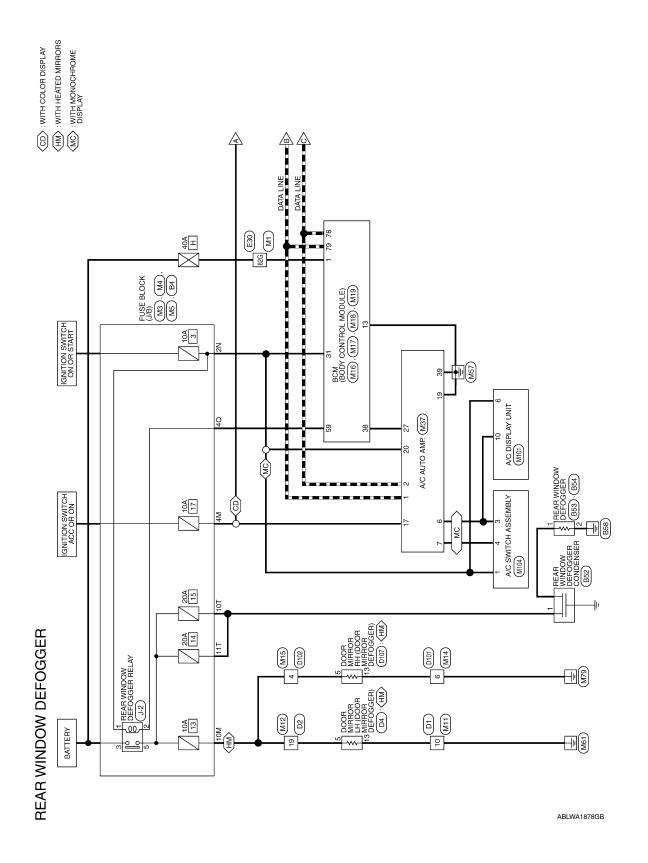
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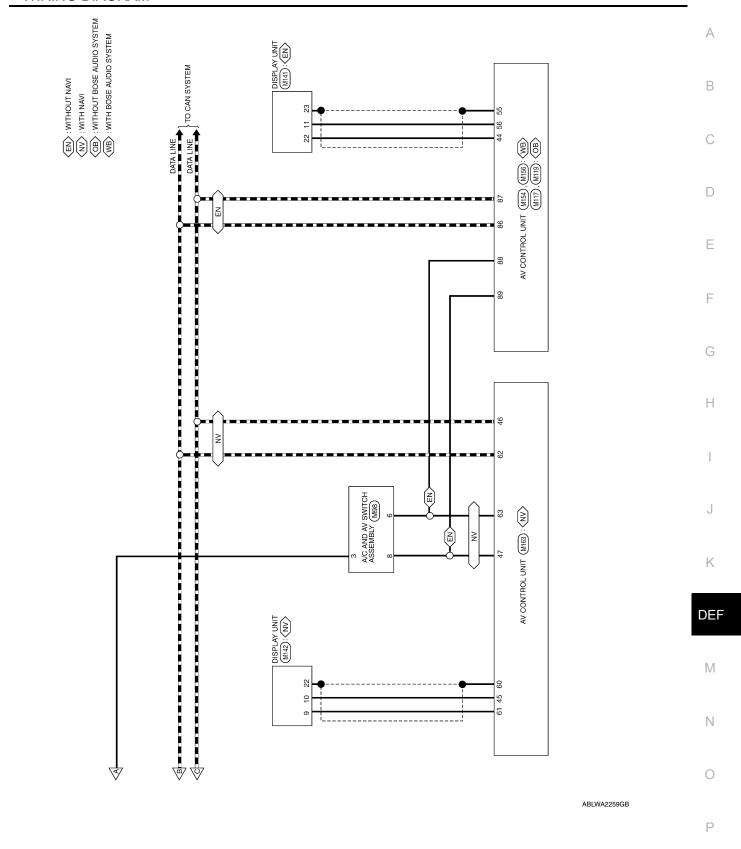
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WIRING DIAGRAM

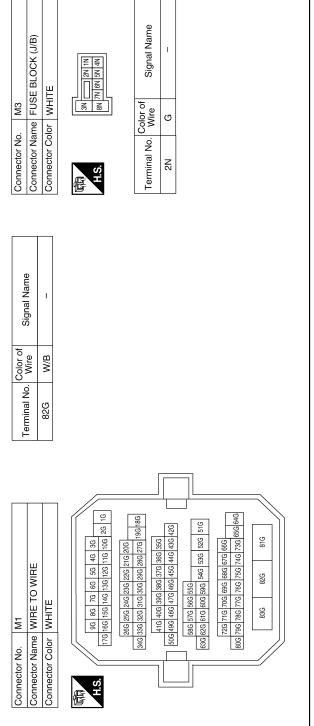
REAR WINDOW DEFOGGER

Wiring Diagram

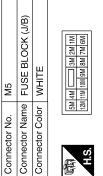




REAR WINDOW DEFOGGER CONNECTORS



Connector No.	. M11	
Connector Name WIRE TO WIRE	me WIF	RE TO WIRE
Connector Color WHITE	lor WH	ITE
所 H.S.	8 10 10 10 10 10 10 10 10 10 10 10 10 10	4 5 6 7 11 12 13 14 15 16
Terminal No. Wire	Color of Wire	Signal Name
10	В	I





Signal Na	
Color of Wire	0
Terminal No. Wire 4M V/Y	10M

	[ق]ق
	20 10
WHITE	30 7 20 10 90 80 70 60 50
¥	06 09 09 09
	\$ 8
Connector Color	原 H.S.

Connector Name FUSE BLOCK (J/B)

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Connector No.

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П	õ		
Ш	g		
g	g		
40 30	ĝ		
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Signal Name	ı	
Color of Wire	G/R	
Terminal No.	40	

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REAR WINDOW DEFOGGER

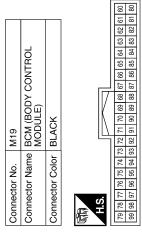
< WIRING DIAGRAM >

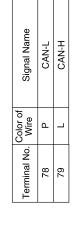
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	F
Signal Name Signal Name Signal Name GND1 GND1	G
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	_	_	_	_	_			_	
Signal Name	CAN-H	CAN-L	TX (AMP>SW&DISP)	RX (SW>AMP)	ACC	GND	IGN	RR DEF ON	GND (POWER)
Color of Wire	_	۵	Г	Д	V/Y	В	g	GR/W	В
Terminal No.	-	2	9	7	17	19	20	27	39

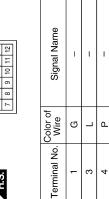


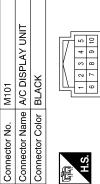




M104	A/C SWITCH ASSEMBLY	WHITE		1 2 3 4 5 6	7 8 9 10 11 12	
	SEMBLY		Γ	- -	2	1

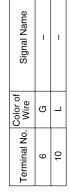






Connector Color



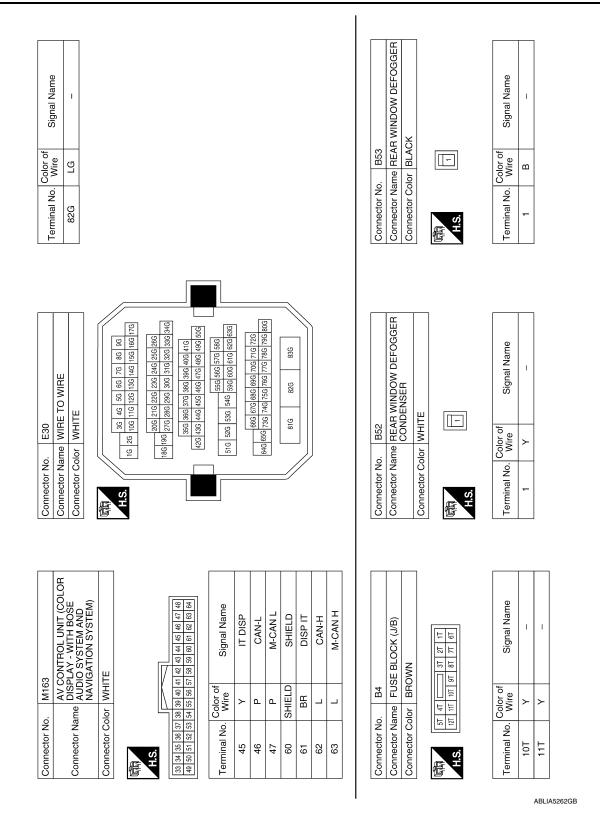


	A/C AND AV SWITCH ASSEMBLY	ш	8 10 12 14 16 7 9 11 13 15 15 15 15 15 15 15 15 15 15 15 15 15
M98	A/C A ASSE	MHI	4 6
Connector No.	Connector Name A/C AND AV SWITCH ASSEMBLY	Connector Color WHITE	南 H.S.

	8 10 12 14 16	7 9 11 13 15	Signal Name	ı	-	
	2 4 6	1 3	Color of Wire	V/Y	Γ	(
唇	H.S.	ı	Terminal No.	က	9	,

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MITH COLOR UT NAVI) 3 2 1 1 1 1 1 1 1 1 1	Signal Name IT DISP DISP ITM BUS GND	NIT KY-WITH SATION B 77 76 M 99 92	Name 4-H N H NN L
DISPLAY UNIT (WITH COLOR DISPLAY WITHOUT NAVI) WHITE 10 9 8 7 6 5 4 3 2 1 22 21 20 19 18 17 16 15 14 13		DNTROL U ONTROL U SAUDIO SY OUT NAVIII E E E E E E E E E E E E E E E E E E	Signal Name CAN-H CAN-L M-CAN H M-CAN L
Connector Name DI Connector Name DI Connector Color W W Last 23 22 24 23 24 24 24 24 24 24 24 24 24 24 24 24 24	inal No. Color of Wire 11 Y 22 BR 23 SHIELD	ctor Name	Color of Wire Wire R6
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(COLOR F BOSE EM)			
NTROL UNIT NY - WITHOU SYSTEM OR SYSTEM OR ATION SYSTE ATION SYSTE SE ES E	Signal Name CAN-H CAN-L M-CAN H N-CAN L	M154 AV CONTROL UNIT (COLOR DISPLAY - WITH WITHOUT NAVIGATION SYSTEM) WHITE WHITE 66 66 44 48 42 42 41 40 38 37 38 65 65 65 65 65 65 65 65 65 65 65 65 65	Signal Name DISP IT SHIELD IT DISP
	Color of Wire P	No. M154 AV COI (COLO) (COLO) SYSTE Solor WHITE (59 58 57 56 58 57 56 58 57 56 58 57 56 58 57 56 58 57 56 58 57 56 57 5	Color of Wire BR BR SHELD
Connector Name Connector Color H.S.	Terminal No. 86 87 88 89	Connector No. Connector Color Connector Color H.S.	Terminal No. 44 55 56
WITHOUT BOSE AUDIO SYSTEM) WHITE WHITE ST SE	Signal Name DISP IT SHIELD IT DISP	M142 DISPLAY UNIT (WITH COLOR DISPLAY AND NAVI) WHITE 10 9 8 7 6 5 4 3 2 1 1 22 21 20 13 18 17 16 15 14 13	Signal Name DISP IT IT DISP SHIELD
	Color of Wire BR SHIELD		Odlor of Wire BR BR Y Y
Connector Name Connector Color The second s	Terminal No. 44 55 56	Connector No. Connector Name Connector Color Right H.S.	9 9 10 22
			ABLIA5259GB

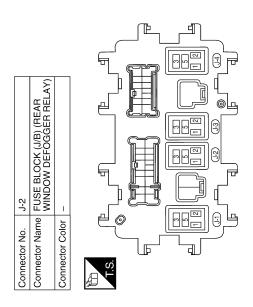


REAR WINDOW DEFOGGER

< WIRING DIAGRAM >

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alw Ci	1	7 6 5 4 3 2 1	Signal Name		TO WIRE	1 2 1 1 1 1 1 1 1 1			В
Connector No. D2	Connector Color WHITE	H.S. [12 11 10 9 8 7 6 5 5 2 2 2 2 12 10 19 18 17	Terminal No. Wire		ctor No. D102 ctor Name WIRI ctor Color WHI	H.S. 16 15 14 13 12 14 13 14 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14	4 O		D
									F
I MIRE	WHITE	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8	Signal Name		D101 WIRE TO WIRE WHITE				G H
Connector No. D1	Connector Color W	7 6 16 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Terminal No. Color of 10 B		ctor No.	H.S. Color of Terminal No. With	Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ		J
a									K
Connector No. B54	BLACK	2	of Signal Name			11 12 13 14 15 16 7 8 11 12 13 14 15 16 Signal Name			M M
Connector No.	Connector Color E	H.S.	Terminal No. Wire 2 B		Connector No. D4 Connector Name DOOR Connector Color WHITE	H.S. 9 10 11 2 3 Terminal No. Without Minds	5 0 NIII		N O
				I				ABLIA5263GB	
									D

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or No. D107	Connector Name DOOR MIRROR RH	Connector Color WHITE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	No. Wire Signal Name	0	- В
Connector No.	Connector Na	Connector Col	原动 H.S.	Terminal No.	2	13

ABLIA5260GB

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

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

Diagnosis Procedure

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Regarding Wiring Diagram information, refer to DEF-46, "Wiring Diagram".

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

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

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace the malfunctioning parts.

3. CHECK FUSES

Check if any of the following fuses in fuse block (J/B) are blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	20A	14
r use block (orb)	20A	15

Is the inspection result normal?

YES >> GO TO 4

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

$oldsymbol{4}$. CHECK REAR WINDOW DEFOGGER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect fuse block (J/B). 2.
- Turn ignition switch ON.
- Check voltage between fuse block (J/B) connector and ground.

	Terminals	0 1111 1	V 14 0.0	
(+)		()	Condition of rear window de- fogger switch	Voltage (V) (Approx.)
Fuse block (J/B) connector	Terminal	(-)	1300	V 11 - 7
B4 10T, 11T Groun		Ground	ON	Battery voltage
D 1	ioi, iii Giou	Glound	OFF	0

Is the inspection result normal?

YES >> GO TO 5

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

${f 5}.$ CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit.

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

Is the inspection result normal?

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REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

< SYMPTOM DIAGNOSIS >

YES >> GO TO 6

NO >> Repair or replace the malfunctioning parts.

6. CHECK DOOR MIRROR DEFOGGER

Check door mirror defogger.

Refer to DEF-58, "Diagnosis Procedure".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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

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-41, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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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

INFOID:0000000010045607

Regarding Wiring Diagram information, refer to DEF-46, "Wiring Diagram".

1. CHECK DOOR MIRROR DEFORGGER FUSE

Check if the following fuse in fuse block (J/B) is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	13

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace the blown fuse after repairing the affected circuit.

2. CHECK DOOR MIRROR DEFORGGER CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect the following harness connectors.
- Fuse block (J/B) connector M5
- Door mirror LH D4
- Door mirror RH D107
- Check continuity between fuse block (J/B) harness connector M5 and door mirror defogger harness connectors D4,D107.

Fuse block (J/B) Connector	Terminal	Door mirror Connectors	Terminal	Continuity
M5	10M	D4(LH)	- 5	YES
		D107(RH)		

4. Check continuity between fuse block (J/B) harness connector M5 terminal 10M and ground.

Fuse block (J/B) connector	Terminal	Ground	Continuity
M5	10M		No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR DEFOGGER

Check door mirror LH.

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

Check door mirror RH.

Refer to DEF-18, "Component Function Check".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS > DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE. Α Diagnosis Procedure INFOID:0000000010045608 1. CHECK DOOR MIRROR DEFOGGER LH В Check door mirror defogger LH. Refer to DEF-16, "Component Function Check". C Is the inspection result normal? YES >> Refer to GI-41, "Intermittent Incident". NO >> Repair or replace the malfunctioning parts. D Е F Н J K DEF M Ν 0

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PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:0000000010045609

1. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.

Refer to DEF-18, "Component Function Check".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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

INFOID:0000000010045610

Diagnosis Procedure

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-41, "Intermittent Incident".

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

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PRECAUTIONS

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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 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.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components.
- Water soluble dirt: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the dirty area.
 - Then rub with a soft and dry cloth.
- Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the dirty area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

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PREPARATION

PREPARATION

Special Service Tool

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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name		Description
(J-46534) Trim Tool Set		Removing trim components
	AWJIA0483ZZ	

Commercial Service Tool

INFOID:0000000010045614

Power tool Loosening nuts, screws and bolts H	Tool name		Description	0
	Power tool		Loosening nuts, screws and bolts	
				Н
PIIR1407F				I
		PIIB1407E		_

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REMOVAL AND INSTALLATION

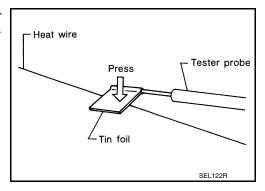
FILAMENT

Inspection and Repair

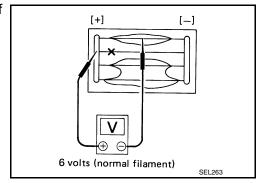
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INSPECTION

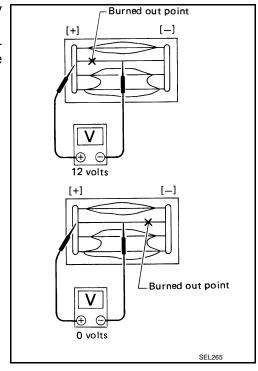
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



- 3. If a filament is burned out, circuit tester registers zero 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)

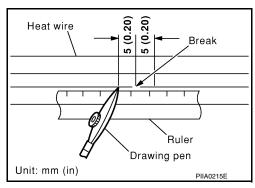
FILAMENT

< REMOVAL AND INSTALLATION >

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

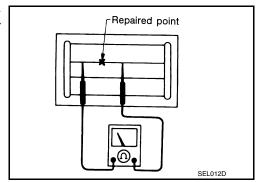
REPAIRING PROCEDURE

- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 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.



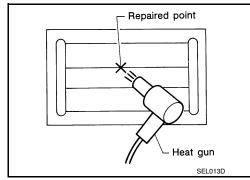
After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

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.



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CONDENSER

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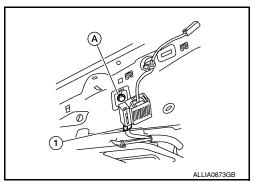
CONDENSER

Removal and Installation

INFOID:0000000010045616

REMOVAL

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



INSTALLATION

Installation is in the reverse order of removal.