

SECTION **DEF**
DEFOGGER

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

CONTENTS

BASIC INSPECTION	3	Component Inspection	12
DIAGNOSIS AND REPAIR WORKFLOW	3	DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)	13
Repair Work Flow	3	Description	13
FUNCTION DIAGNOSIS	5	Component Function Check	13
REAR WINDOW DEFOGGER SYSTEM	5	Diagnosis Procedure	13
System Diagram	5	Component Inspection	14
System Description	5	DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)	15
Component Parts Location	6	Description	15
Component Description	6	Component Function Check	15
DIAGNOSIS SYSTEM (BCM)	7	Diagnosis Procedure	15
COMMON ITEM	7	Component Inspection	16
COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)	7	DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSITIONER)	17
REAR WINDOW DEFOGGER	7	Description	17
REAR WINDOW DEFOGGER : CONSULT-III Function (BCM - REAR DEFOGGER)	7	Component Function Check	17
CAN COMMUNICATION	8	Diagnosis Procedure	17
System Description	8	Component Inspection	18
COMPONENT DIAGNOSIS	9	DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITIONER)	19
REAR WINDOW DEFOGGER SWITCH	9	Description	19
Description	9	Component Function Check	19
Component Function Check	9	Diagnosis Procedure	19
Diagnosis Procedure	9	Component Inspection	20
REAR WINDOW DEFOGGER RELAY	10	ECU DIAGNOSIS	21
Description	10	BCM (BODY CONTROL MODULE)	21
Component Function Check	10	Reference Value	21
Diagnosis Procedure	10	Wiring Diagram	22
REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT	11	SYMPTOM DIAGNOSIS	31
Description	11	REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.	31
Component Function Check	11	Diagnosis Procedure	31
Diagnosis Procedure	11		

REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH OF DOOR MIRROR DEFOGGER OPERATE.	32
Diagnosis Procedure	32
BOTH DOORS MIRROR DEFOGGER DON'T OPERATE BUT REAR WINDOW DEFOGGER OPERATES	33
Diagnosis Procedure	33
DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.	34
Diagnosis Procedure	34
PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.	35
Diagnosis Procedure	35

REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WINDOW DEFOGGER OPERATES	36
Diagnosis Procedure	36
PRECAUTION	37
PRECAUTIONS	37
Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	37
ON-VEHICLE REPAIR	38
FILAMENT	38
Inspection and Repair	38

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

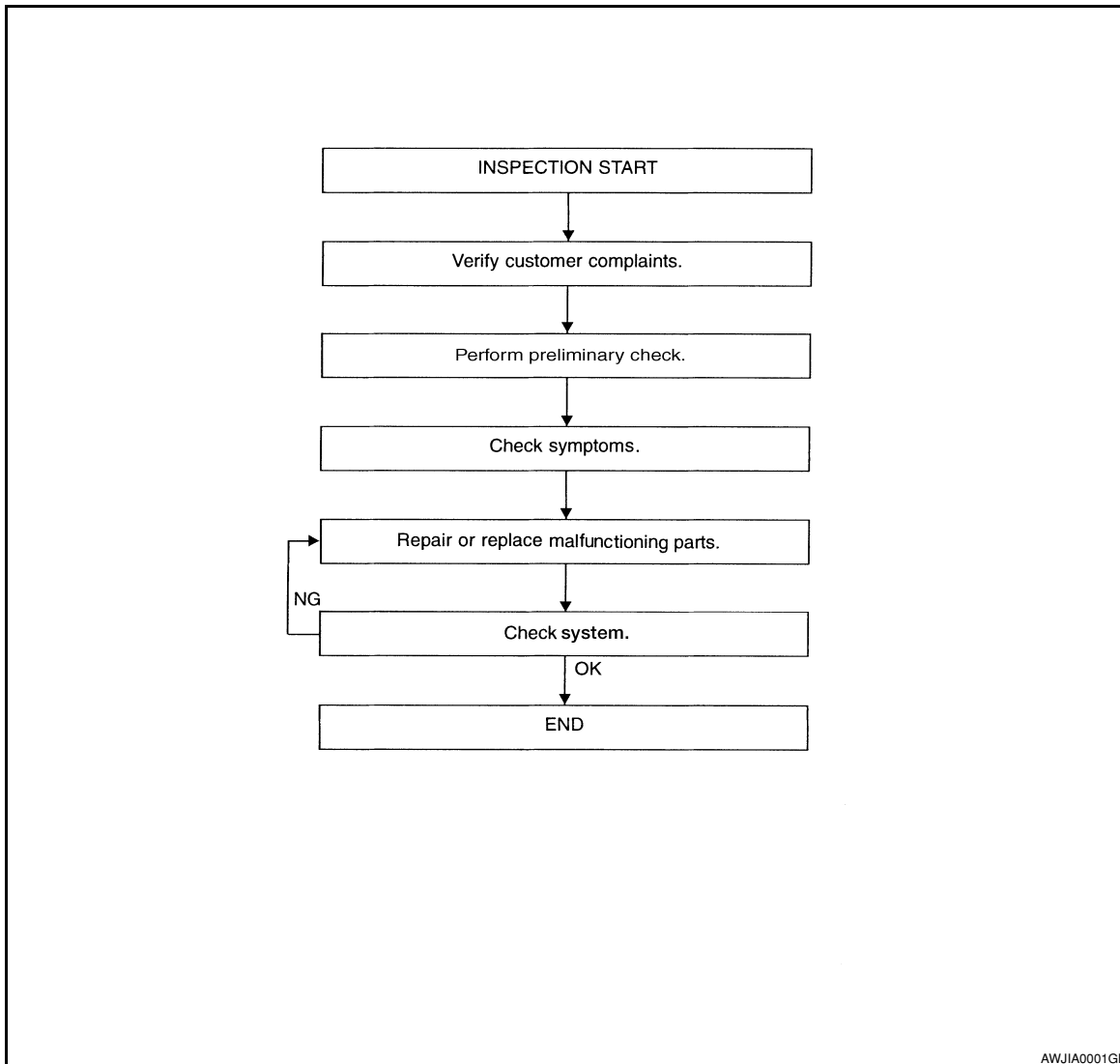
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Repair Work Flow

INFOID:000000001528962

WORK FLOW



DETAILED FLOW

1. CUSTOMER INFORMATION

Talk to the customer to obtain detailed information about the symptom.

>> GO TO 2

2. PRELIMINARY CHECK

Perform preliminary check. Refer to XXX.

>> GO TO 3

3. SYMPTOM

Check for symptoms. Refer to XXX.

A
B
C
D
E
F
G
H
I
J
K

DEF

M
N
O
P

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 4

4. MALFUNCTIONING PARTS

Repair or replace the applicable parts.

>> GO TO 5

5. SYSTEM CHECK

Operate rear window defogger switch to ensure that rear window defogger and heated mirrors operate.

Does the system operate normally?

YES >> INSPECTION END

NO >> Refer to GI Intermittent Incident.

REAR WINDOW DEFOGGER SYSTEM

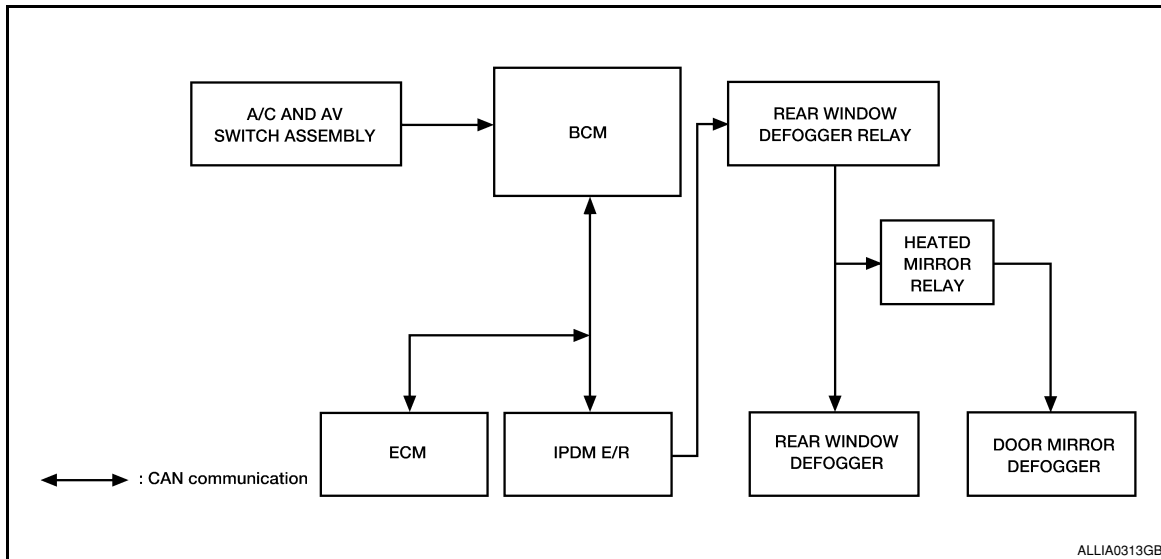
< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

REAR WINDOW DEFOGGER SYSTEM

System Diagram

INFOID:000000001527584



System Description

INFOID:000000001527585

Operation Description

- Turn rear window defogger switch ON when the ignition switch is turned ON. Then A/C and AV switch assembly (rear window defogger switch) transmits rear window defogger switch signal to BCM.
- BCM transmits rear window defogger control signal to IPDM E/R and display unit via CAN communication when rear window defogger operates.
- IPDM E/R turns rear window defogger relay and heated mirror relay ON when rear window defogger switch signal is received.
- Rear window defogger and door mirror defogger are supplied with power and operate when rear window defogger relay and heated mirror relay turn ON.
- Rear window defogger ON is displayed when signal is received.

Timer function

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

INPUT/OUTPUT SIGNAL CHART

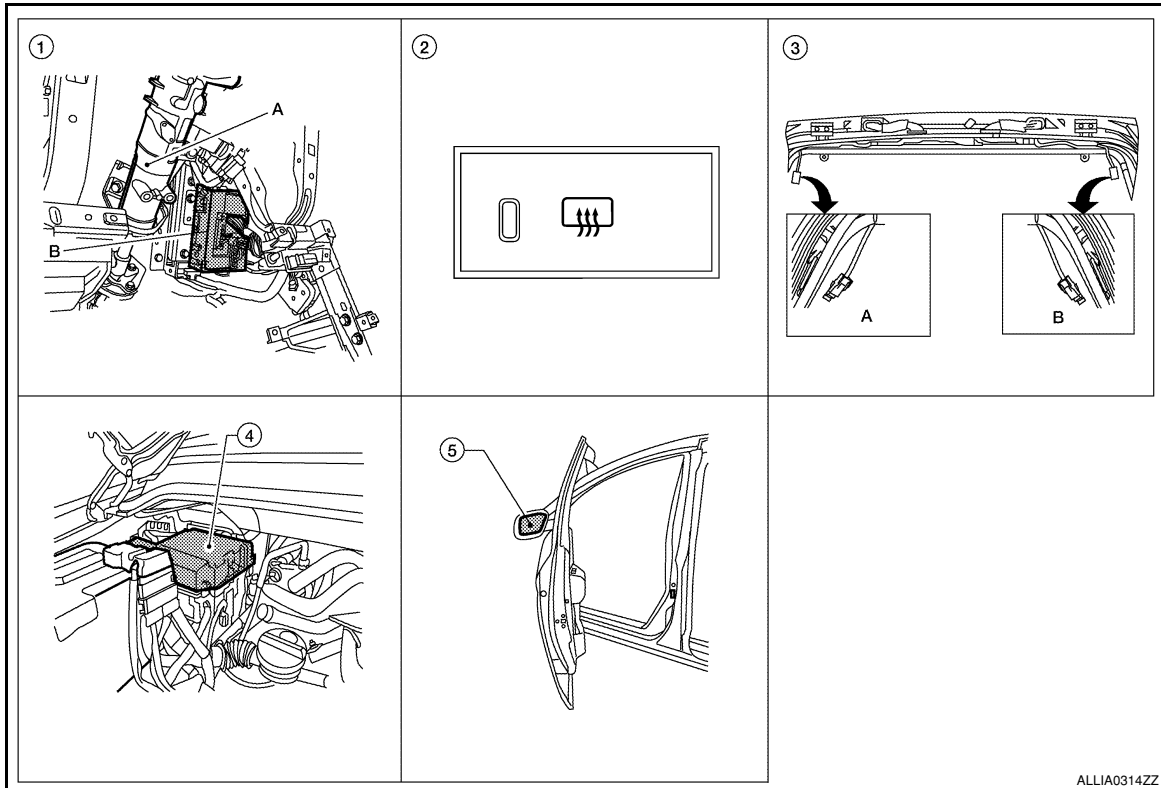
Switch	Input signal to BCM	BCM function	Actuator
Rear window defogger switch	Defogger switch signal	Rear window defogger & door mirror defogger control	Rear window defogger
Ignition switch	Ignition signal		Door mirror defogger

REAR WINDOW DEFOGGER SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000001527586



ALLIA0314ZZ

1. A. Steering column assembly
B. BCM M18, M20 (view with instrument panel removed)
2. A/C and AV switch assembly (rear window defogger switch) M98
3. A. Rear window defogger ground connector D604
B. Rear window defogger connector D406
4. IPDM E/R E120, E122, E124
5. Door mirror (door mirror defogger)
LH D4, RH D107

Component Description

INFOID:000000001527587

BCM	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Operates the rear window defogger and the door mirror defogger with the control signal from BCM.
A/C and AV switch assembly (rear window defogger switch)	<ul style="list-style-type: none"> The rear window defogger switch is turned ON. Turns the indicator lamp ON when detecting the operation of rear window defogger.
Rear window defogger	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Heats the heating wire with the power supply from the heated mirror relay to prevent the door mirror from fogging up.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000001527588

APPLICATION ITEM

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

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM. Refer to BCS-51, "DTC Index" .
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	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

System	Sub system selection item	Diagnosis mode		
		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
Rear window defogger	REAR DEFOGGER		×	×
BCM	BCM	×		

REAR WINDOW DEFOGGER

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

INFOID:000000001527589

Data monitor

Monitor Item	Description
REAR DEF SW	Indicates [ON/OFF] condition of rear defogger switch.
IGN SW	Indicates [ON/OFF] condition of ignition 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.

CAN COMMUNICATION

< FUNCTION DIAGNOSIS >

CAN COMMUNICATION

System Description

INFOID:000000001527590

Refer to [LAN-4. "System Description"](#).

REAR WINDOW DEFOGGER SWITCH

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Description

INFOID:000000001527591

- 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:000000001527592

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 [DEF-9, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001527593

1. CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH) CIRCUIT

Does rear window defogger switch operate normally?

Is the inspection result normal?

- YES >> Inspection End.
 NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect BCM and A/C and AV switch assembly.
3. Check continuity between BCM connector (A) and A/C and AV switch assembly connector (B).

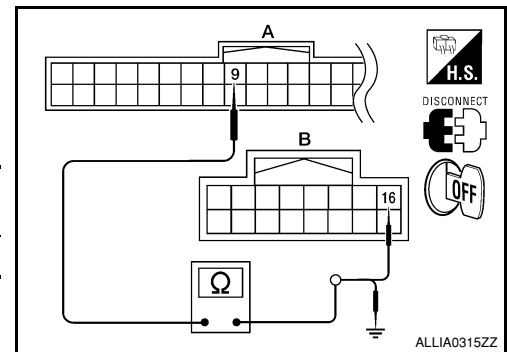
BCM connector	Terminal	A/C and AV switch assembly connector	Terminal	Continuity
M18 (A)	9	M98 (B)	16	Yes

4. Check continuity between BCM connector (A) and ground.

BCM connector	Terminal	Ground	Continuity
M18 (A)	9		No

Is the inspection result normal?

- YES >> Replace A/V and AC switch assembly. Refer to xxx.
 NO >> Repair or replace harness.



A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

REAR WINDOW DEFOGGER RELAY

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description

INFOID:000000001527594

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

Component Function Check

INFOID:000000001527595

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

Check that an operation noise of rear window defogger relay (located in IPDM E/R) 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 [DEF-10, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001527596

1. CHECK FUSES

Check if any of the following fuses in the IPDM E/R are blown.

COMPONENT PARTS	AMPERE	FUSE NO.
IPDM E/R	15A	46
IPDM E/R	15A	47

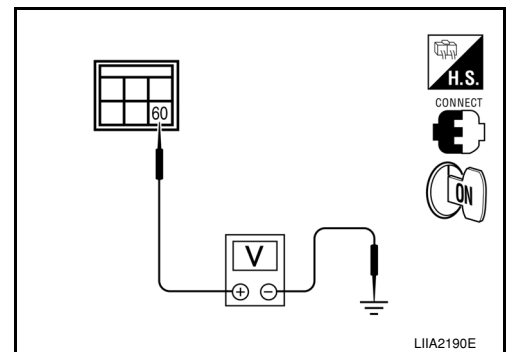
Is the inspection result normal?

- YES >> GO TO 2
 NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

- Turn ignition switch ON.
- Check voltage between IPDM E/R connector and ground.

Terminals		(-)	Condition of rear window defogger switch	Voltage (V) (Approx.)
(+) IPDM E/R connector				
	Terminal			
E124	60	Ground	ON	Battery voltage
			OFF	0



Is the inspection result normal?

- YES >> Replace IPDM E/R. Refer to [PCS-30, "Removal and Installation of IPDM E/R"](#).
 NO >> GO TO 3

3. 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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Description

INFOID:000000001527598

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:000000001527599

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 [DEF-11. "Diagnosis Procedure"](#).

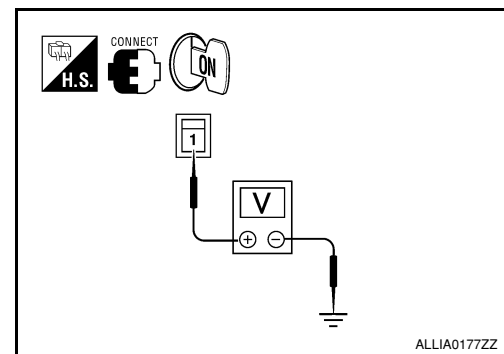
Diagnosis Procedure

INFOID:000000001527600

1. CHECK POWER SUPPLY CIRCUIT

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

Terminals		(-)	Condition of rear window defogger switch	Voltage (V) (Approx.)
(+)				
Rear window defogger connector	Terminal			
D406	1	Ground	ON	Battery voltage
			OFF	0



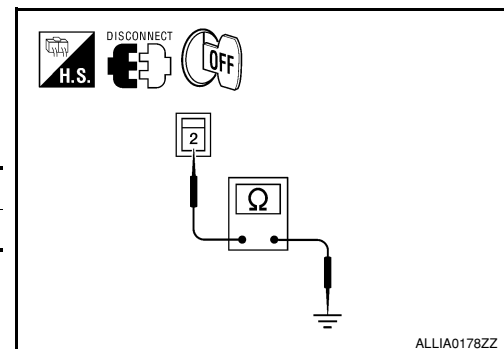
Is the inspection result normal?

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

2. CHECK GROUND CIRCUIT

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

Rear window defogger connector	Terminal	Ground	Continuity
D604	2		Yes



Is the inspection result normal?

- YES >> GO TO 4
- NO >> Repair or replace harness.

3. CHECK HARNESS CONTINUITY

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

1. Disconnect IPDM E/R.
2. Check continuity between rear window defogger connector (A) and IPDM E/R connector (B).

Rear window defogger connector	Terminal	IPDM E/R connector	Terminal	Continuity
D406 (A)	1	E124 (B)	60	Yes

3. Check continuity between rear window defogger connector (A) and ground.

Rear window defogger connector	Terminal	Ground	Continuity
D406 (A)	1		No

Is the inspection result normal?

- YES >> GO TO 5
 NO >> Replace or repair harness.

4. CHECK FILAMENT

Check filament.

Refer to [DEF-12, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Repair filament. Refer to [DEF-38, "Inspection and Repair"](#).

5. 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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:000000001527601

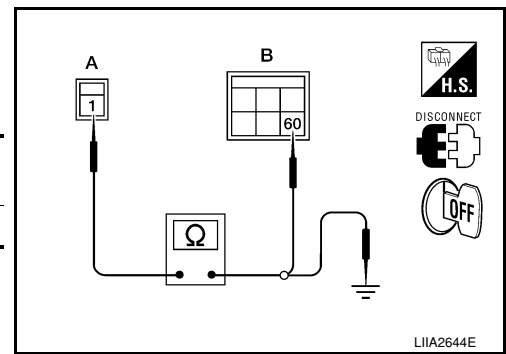
1. CHECK FILAMENT

Check the filament for damage or open circuits.

Refer to [DEF-38, "Inspection and Repair"](#).

Is the inspection result normal?

- YES >> Inspection End.
 NO >> Repair filament. Refer to [DEF-38, "Inspection and Repair"](#).



DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

Description

INFOID:000000001546699

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:000000001546700

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 [DEF-15. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001546701

1. CHECK POWER SUPPLY

Check if the following fuse in the IPDM E/R is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
IPDM E/R	15A	43

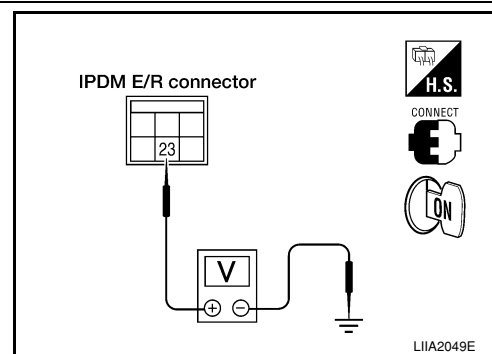
Is the inspection result normal?

- YES >> GO TO 2
- NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

Check voltage between IPDM E/R connector and ground.

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
E120	23	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



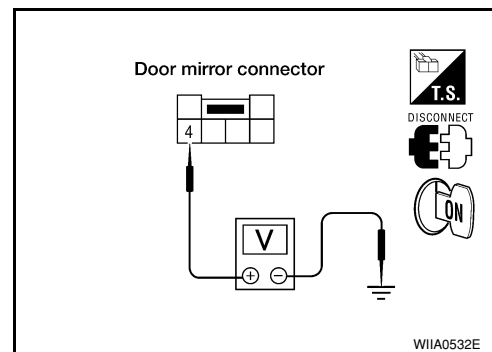
Is the inspection result normal?

- YES >> GO TO 3
- NO >> Replace IPDM E/R. Refer to [PCS-30. "Removal and Installation of IPDM E/R"](#).

3. CHECK DOOR MIRROR DEFOGGER 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 connector and ground.

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D4	4	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



Is the inspection result normal?

DOOR MIRROR DEFOGGER LH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4
NO >> Repair or replace harness.

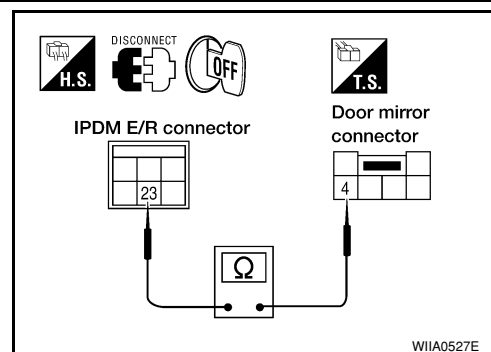
4. CHECK DOOR MIRROR DEFOGGER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and door mirror LH.
3. Check continuity between IPDM E/R connector E120 terminal 23 and door mirror LH connector D4 terminal 4.

23 - 4 : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 5
NO >> Repair or replace harness.



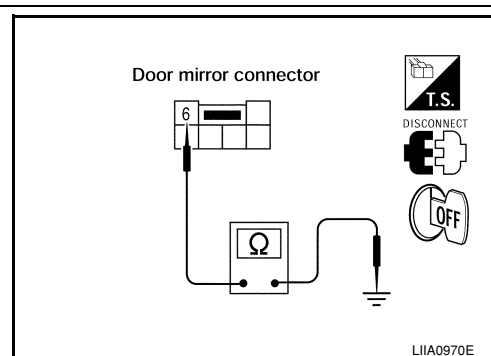
5. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

Check continuity between door mirror LH connector D4 terminal 6 and ground.

6 - Ground : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 6
NO >> Repair or replace harness.



6. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.
Refer to [DEF-14, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 7
NO >> Replace door mirror. Refer to [MIR-20, "Door Mirror Assembly"](#).

7. 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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:000000001546702

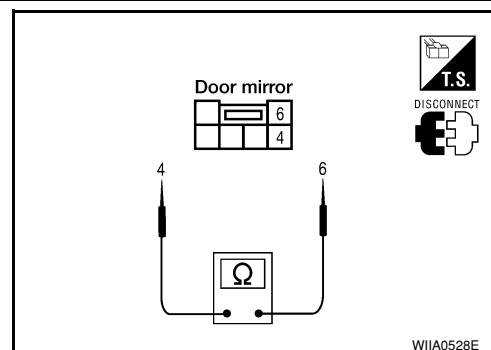
1. CHECK DOOR MIRROR DEFOGGER

Check continuity between door mirror LH terminals 4 and 6.

4 - 6 : Continuity should exist.

Is the inspection result normal?

- YES >> Check the condition of the harness and the connector.
NO >> Replace malfunctioning door mirror LH. Refer to [MIR-20, "Door Mirror Assembly"](#).



DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)

Description

INFOID:000000001546703

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:000000001546704

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 [DEF-15. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001546705

1. CHECK POWER SUPPLY

Check if the following fuse in the IPDM E/R is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
IPDM E/R	15A	43

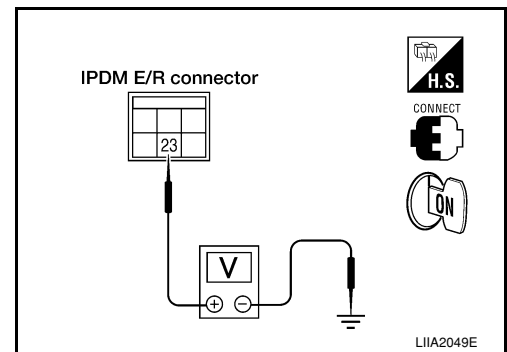
Is the inspection result normal?

- YES >> GO TO 2
- NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

Check voltage between IPDM E/R connector and ground.

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
E120	23	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



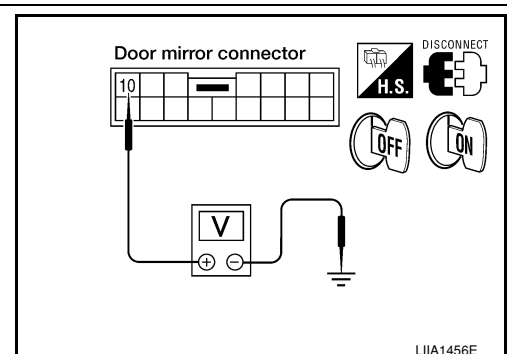
Is the inspection result normal?

- YES >> GO TO 3
- NO >> Replace IPDM E/R. Refer to [PCS-30. "Removal and Installation of IPDM E/R"](#).

3. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT 2

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

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D4	10	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



Is the inspection result normal?

- YES >> GO TO 4

DOOR MIRROR DEFOGGER LH (WITH AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

NO >> Repair or replace harness.

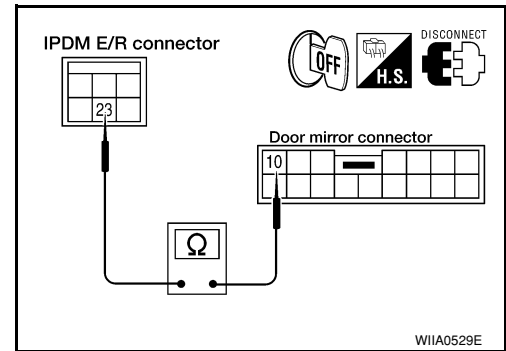
4. CHECK DOOR MIRROR DEFOGGER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and door mirror LH.
3. Check continuity between IPDM E/R connector E120 terminal 23 and door mirror LH connector D4 terminal 10.

23 - 10 : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 5
NO >> Repair or replace harness.



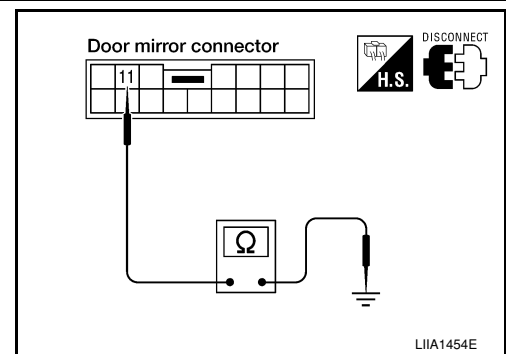
5. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

Check continuity between door mirror LH connector D4 terminal 11 and ground.

11 - Ground : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 6
NO >> Repair or replace harness.



6. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.
Refer to [DEF-16. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 7
NO >> Replace door mirror. Refer to [MIR-20. "Door Mirror Assembly"](#).

7. 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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:000000001546706

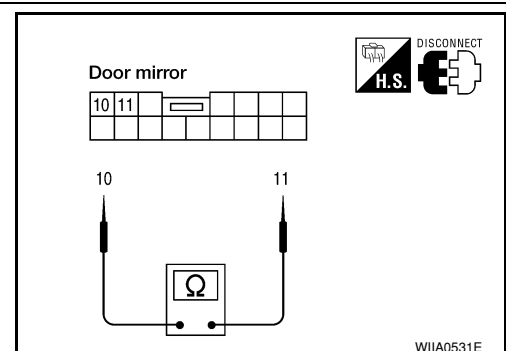
1. CHECK DOOR MIRROR DEFOGGER

Check continuity between door mirror LH terminals 10 and 11.

10 - 11 : Continuity should exist.

Is the inspection result normal?

- YES >> Check the condition of the harness and the connector.
NO >> Replace malfunctioning door mirror LH. Refer to [MIR-20. "Door Mirror Assembly"](#).



DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSITIONER)

Description

INFOID:000000001546707

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:000000001546708

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 [DEF-17. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001546709

1. CHECK POWER SUPPLY

Check if the following fuse in the IPDM E/R is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
IPDM E/R	15A	43

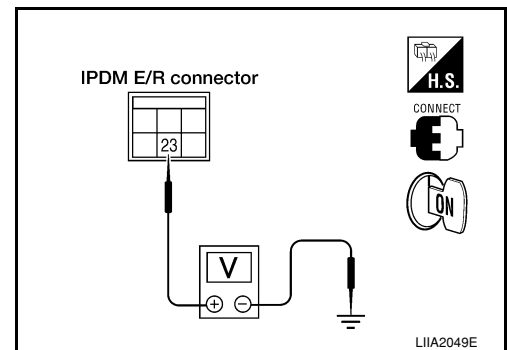
Is the inspection result normal?

- YES >> GO TO 2
- NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

Check voltage between IPDM E/R connector and ground.

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
E120	23	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



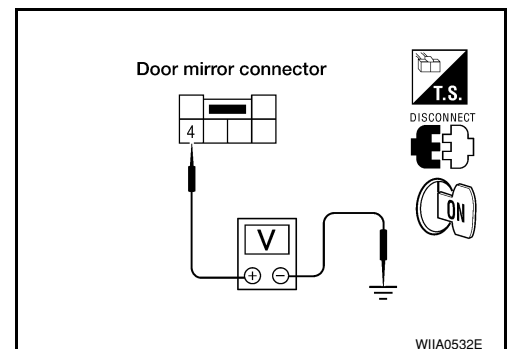
Is the inspection result normal?

- YES >> GO TO 3
- NO >> Replace IPDM E/R. Refer to [PCS-30. "Removal and Installation of IPDM E/R"](#).

3. CHECK DOOR MIRROR DEFOGGER 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 connector and ground.

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D107	4	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



Is the inspection result normal?

DOOR MIRROR DEFOGGER RH (WITHOUT AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4
NO >> Repair or replace harness.

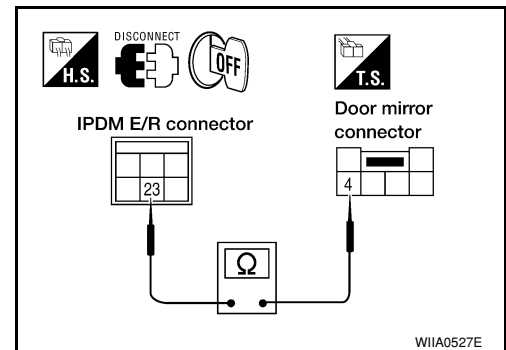
4. CHECK DOOR MIRROR DEFOGGER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and door mirror RH.
3. Check continuity between IPDM E/R connector E120 terminal 23 and door mirror RH connector D107 terminal 4.

23 - 4 : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 5
NO >> Repair or replace harness.



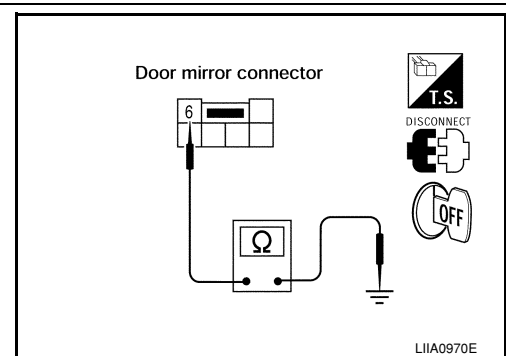
5. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

Check continuity between door mirror RH connector D107 terminal 6 and ground.

6 - Ground : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 6
NO >> Repair or replace harness.



6. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.

Refer to [DEF-18, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 7
NO >> Replace door mirror. Refer to [MIR-20, "Door Mirror Assembly"](#).

7. 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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:000000001546710

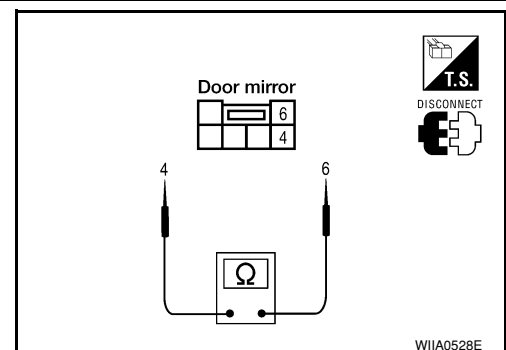
1. CHECK DOOR MIRROR DEFOGGER

Check continuity between door mirror RH terminals 4 and 6.

4 - 6 : Continuity should exist.

Is the inspection result normal?

- YES >> Check the condition of the harness and the connector.
NO >> Replace malfunctioning door mirror RH. Refer to [MIR-20, "Door Mirror Assembly"](#).



DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITIONER)

Description

INFOID:000000001546711

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:000000001546712

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 [DEF-19. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001546713

1. CHECK POWER SUPPLY

Check if the following fuse in the IPDM E/R is blown.

COMPONENT PARTS	AMPERE	FUSE NO.
IPDM E/R	15A	43

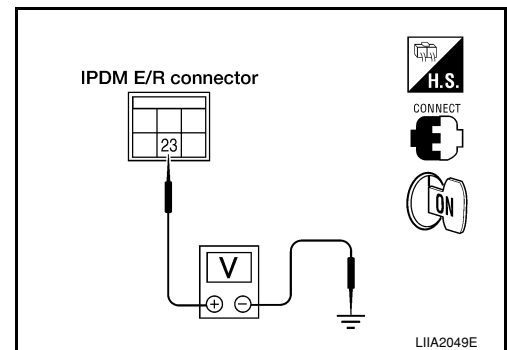
Is the inspection result normal?

- YES >> GO TO 2
- NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

2. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

Check voltage between IPDM E/R connector and ground.

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
E120	23	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



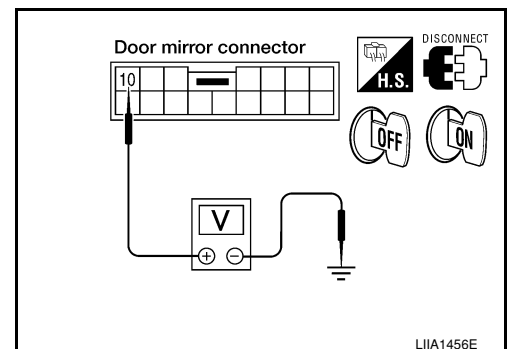
Is the inspection result normal?

- YES >> GO TO 3
- NO >> Replace IPDM E/R. Refer to [PCS-30. "Removal and Installation of IPDM E/R"](#).

3. CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT 2

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

Connector	Terminal		Condition	Voltage (V) (Approx.)
	(+)	(-)		
D107	10	Ground	Rear window defogger switch ON	Battery voltage
			Rear window defogger switch OFF	0



Is the inspection result normal?

DOOR MIRROR DEFOGGER RH (WITH AUTOMATIC DRIVE POSITIONER)

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4
NO >> Repair or replace harness.

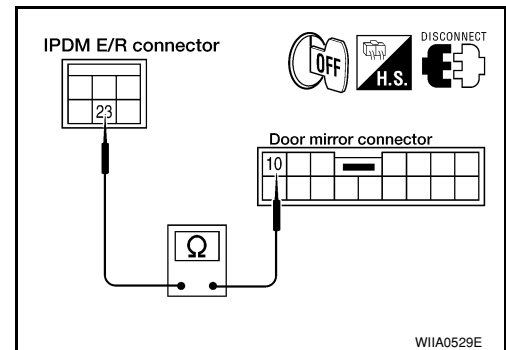
4. CHECK DOOR MIRROR DEFOGGER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and door mirror RH.
3. Check continuity between IPDM E/R connector E120 terminal 23 and door mirror RH connector D107 terminal 10.

23 - 10 : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 5
NO >> Repair or replace harness.



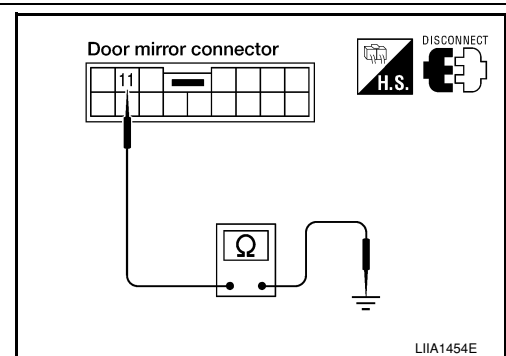
5. CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

Check continuity between door mirror RH connector D107 terminal 11 and ground.

11 - Ground : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 6
NO >> Repair or replace harness.



6. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.
Refer to [DEF-20, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 7
NO >> Replace door mirror. Refer to [MIR-20, "Door Mirror Assembly"](#).

7. 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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:000000001546714

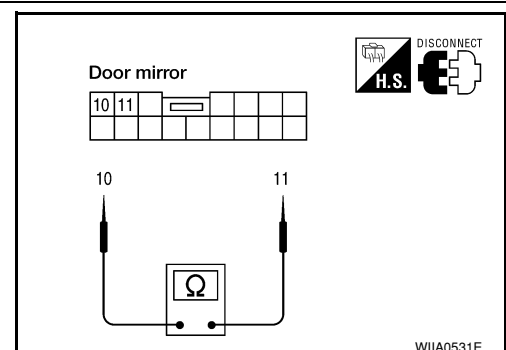
1. CHECK DOOR MIRROR DEFOGGER

Check continuity between door mirror RH terminals 10 and 11.

10 - 11 : Continuity should exist.

Is the inspection result normal?

- YES >> Check the condition of the harness and the connector.
NO >> Replace malfunctioning door mirror RH. Refer to [MIR-20, "Door Mirror Assembly"](#).



BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001527610

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
REAR DEF SW	NOTE: The item is indicated, but not monitored.	OFF

TERMINAL LAYOUT

Refer to [BCS-41, "Terminal Layout"](#).

PHYSICAL VALUES

Refer to [BCS-41, "Physical Values"](#).

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

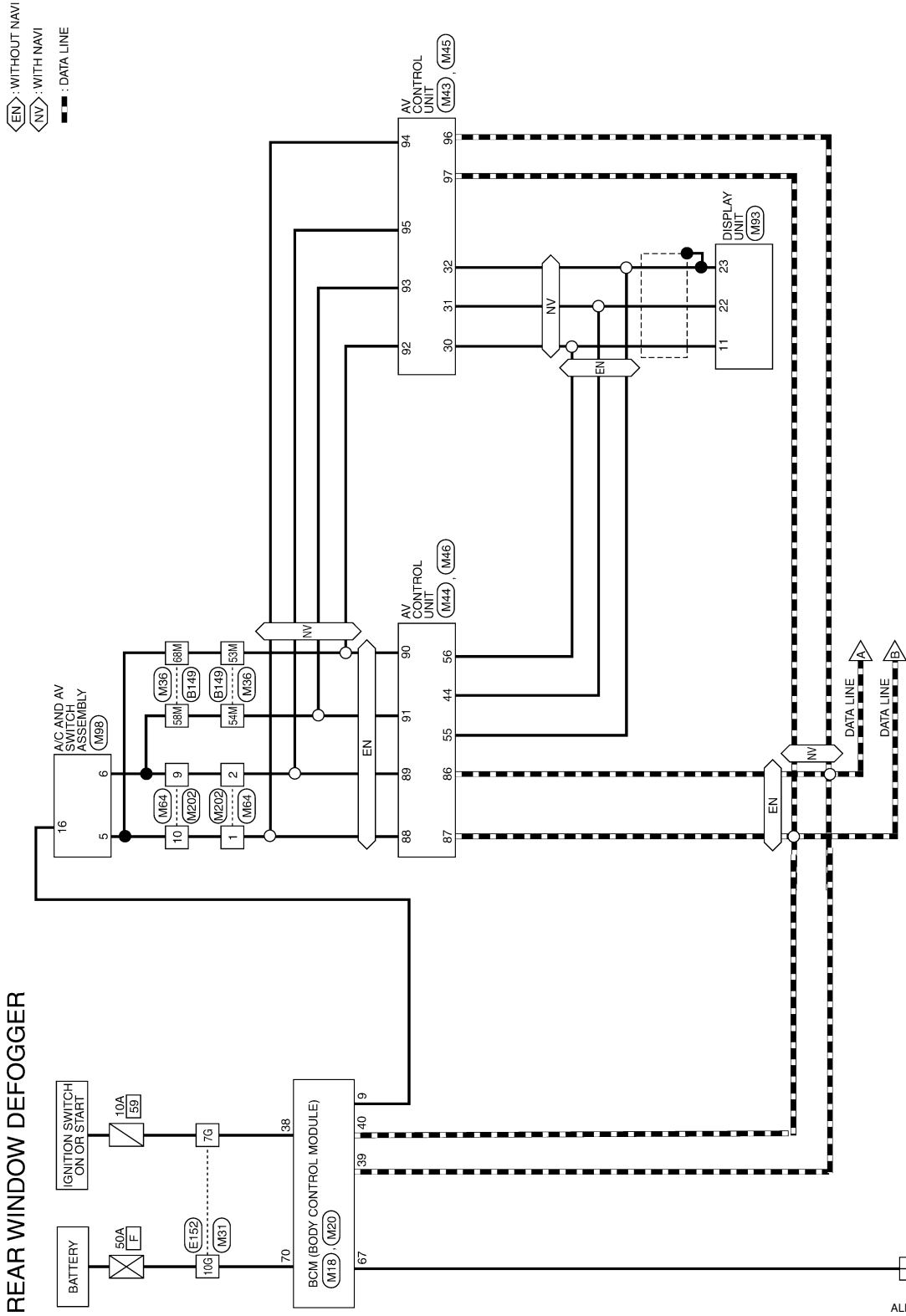
DEF

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Wiring Diagram

INFOID:000000001527611



ALLWA0056GB

BCM (BODY CONTROL MODULE)

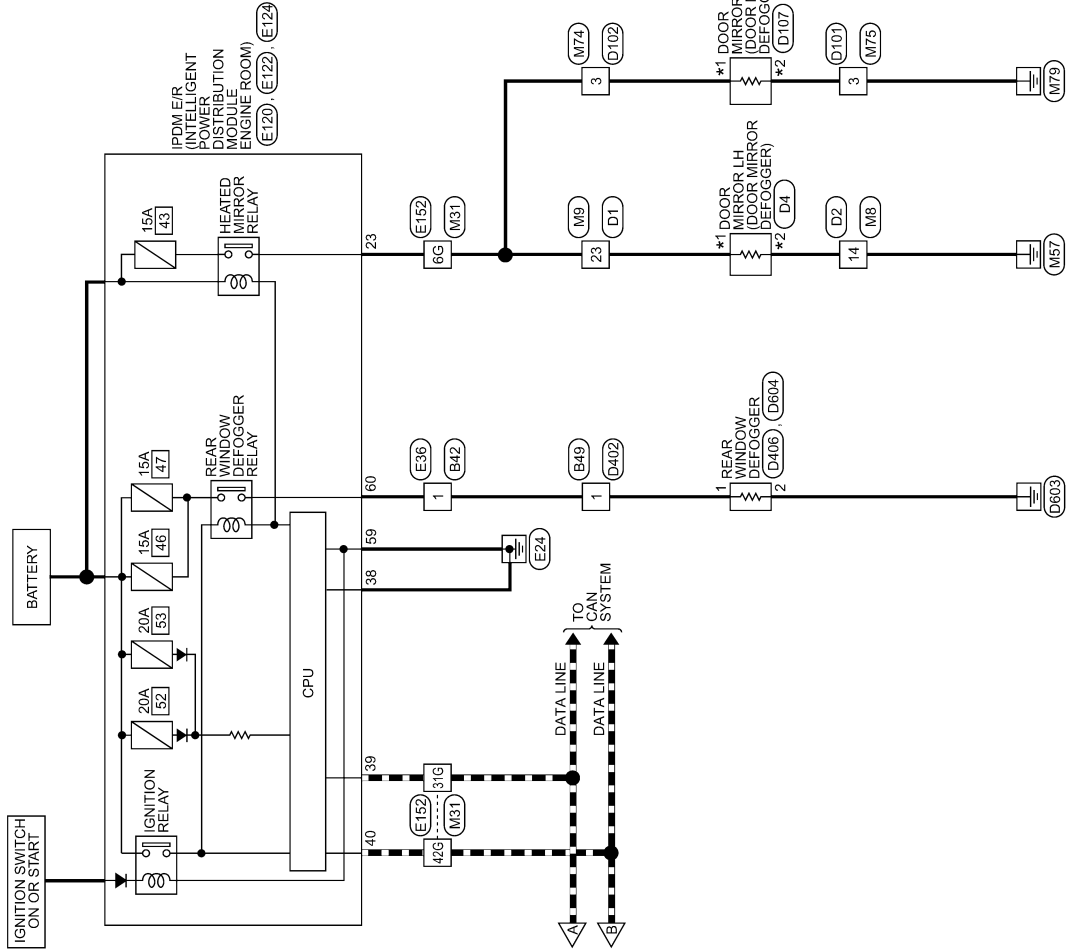
< ECU DIAGNOSIS >

◊ : WITH AUTOMATIC DRIVE POSITIONER
 ◊ : WITHOUT AUTOMATIC DRIVE POSITIONER

*1 : 10
 *2 : 4

*1 : 11
 *2 : 6

■ : DATA LINE



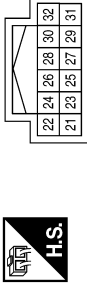
A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

ALLWA0057GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

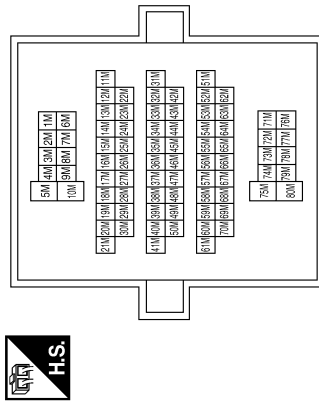
Connector No.	M43
Connector Name	AV CONTROL UNIT
Connector Color	WHITE



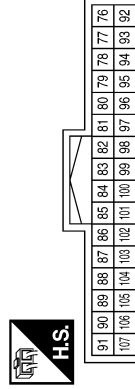
Terminal No.	Color of Wire	Signal Name
30	V	IT_DISP
31	LG	DISP_IT
32	SHIELD	-

Terminal No.	Color of Wire	Signal Name
53M	W/L	-
54M	P/B	-
58M	P/B	-
68M	W/L	-

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Color	WHITE

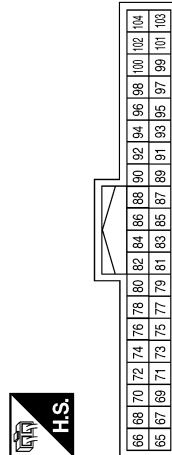


Connector No.	M46
Connector Name	AV CONTROL UNIT
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
86	L	CAN-H
87	P	CAN-L
88	P/B	M-CAN1-H
89	W/L	M-CAN1-L
90	W/L	M-CAN2-H
91	P/B	M-CAN2-L

Connector No.	M45
Connector Name	AV CONTROL UNIT
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
92	W/L	M-CAN2-H
93	P/B	M-CAN2-L
94	W/L	M-CAN1-H
95	P/B	M-CAN1-L
96	L	CAN-H
97	P	CAN-L

Connector No.	M44
Connector Name	AV CONTROL UNIT
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
44	LG	DISP IT
55	SHIELD	-
56	V	IT DISP

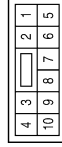
ALLIA0289GB

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

BCM (BODY CONTROL MODULE)

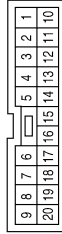
< ECU DIAGNOSIS >

Connector No.	M75
Connector Name	WIRE TO WIRE
Connector Color	WHITE



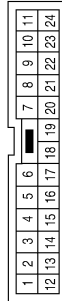
Terminal No.	Color of Wire	Signal Name
3	B	-

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	BROWN



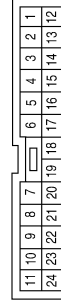
Terminal No.	Color of Wire	Signal Name
3	GR/W	-

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Color	BROWN



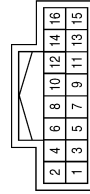
Terminal No.	Color of Wire	Signal Name
1	W/L	-
2	P/B	-
9	P/B	-
10	W/L	-

Connector No.	M202
Connector Name	WIRE TO WIRE
Connector Color	BROWN



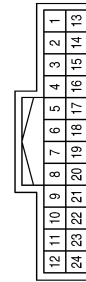
Terminal No.	Color of Wire	Signal Name
1	W/L	-
2	P/B	-
9	P/B	-
10	W/L	-

Connector No.	M98
Connector Name	A/C AND AV SWITCH ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	P/B	M-CAN1-H
6	W/L	M-CAN1-L
16	GR/R	RR DEFOG

Connector No.	M93
Connector Name	DISPLAY UNIT
Connector Color	WHITE



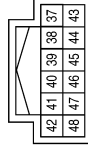
Terminal No.	Color of Wire	Signal Name
11	V	IT-DISP
22	LG	DISP-IT
23	SHIELD	-

ALLIA0290GB

BCM (BODY CONTROL MODULE)

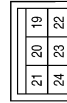
< ECU DIAGNOSIS >

Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
38	B	GND(SIG)
39	L	CAN-H
40	P	CAN-L

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
23	GR/W	HEAT_MIRROR

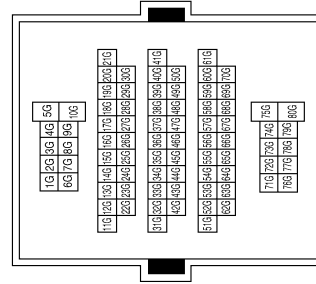
Connector No.	E36
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B/W	-

Terminal No.	Color of Wire	Signal Name
6G	GR/W	-
7G	L/W	-
10G	W/B	-
31G	L	-
42G	P	-

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
59	B	GND(PWR)
60	B/W	RR_DEF

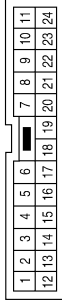
ALLIA0291GB

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	23	Color of Wire	GRW	Signal Name	-
--------------	----	---------------	-----	-------------	---

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	1	Color of Wire	B	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	B42
Connector Name	WIRE TO WIRE
Connector Color	WHITE



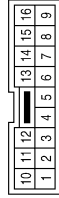
Terminal No.	1	Color of Wire	B	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	D4
Connector Name	DOOR MIRROR LH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE



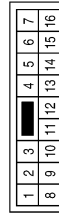
Terminal No.	4	Color of Wire	GRW	Signal Name	-
	6		B		-

Connector No.	D4
Connector Name	DOOR MIRROR LH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE



Terminal No.	10	Color of Wire	GRW	Signal Name	-
	11		B		-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE





Terminal No.	14	Color of Wire	B	Signal Name	-
--------------	----	---------------	---	-------------	---

ALLIA0292GB

BCM (BODY CONTROL MODULE)


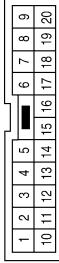
< ECU DIAGNOSIS >

Connector No.	D107
Connector Name	DOOR MIRROR RH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE


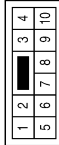
Terminal No.	Color of Wire	Signal Name
4	GR/W	-
6	B	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
3	GR/W	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	B	-

Connector No.	D406
Connector Name	WIRE TO WIRE
Connector Color	WHITE


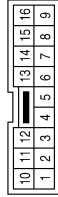
Terminal No.	Color of Wire	Signal Name
1	B	-

Connector No.	D402
Connector Name	WIRE TO WIRE
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	B	-

Connector No.	D107
Connector Name	DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
10	GR/W	-
11	B	-

ALLIA0293GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Connector No.	D604
Connector Name	REAR WINDOW DEFOGGER
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B	-

ALLIA0294GB

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

INFOID:000000001527612

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to [DEF-11. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace the malfunctioning parts.

2. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to [DEF-10. "Component Function Check"](#).

Is the inspection result normal?

YES >> Refer to [GI-39. "Intermittent Incident"](#).

NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

DEF

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:000000001527613

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit.

Refer to [DEF-11, "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 WINDOW DEFOGGER OPERATES

Diagnosis Procedure

INFOID:000000001527614

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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:000000001527615

1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to [DEF-13, "Component Function Check"](#) (without automatic drive positioner) or [DEF-15, "Component Function Check"](#) (with automatic drive positioner).

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.

Diagnosis Procedure

INFOID:000000001527616

1. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.

Refer to [DEF-17, "Component Function Check"](#) (without automatic drive positioner) or [DEF-19, "Component Function Check"](#) (with automatic drive positioner).

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace the malfunctioning parts.

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

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

INFOID:000000001527617

1. CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH)

Check that the A/C and AV switch assembly (rear window defogger switch) is operating normally.

Is the inspection result normal?

- YES >> Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Refer to [DEF-9, "Diagnosis Procedure"](#).

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000001527618

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 SR 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.

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P

DEF

FILAMENT

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

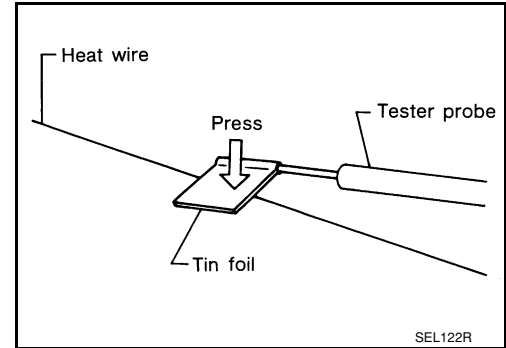
FILAMENT

Inspection and Repair

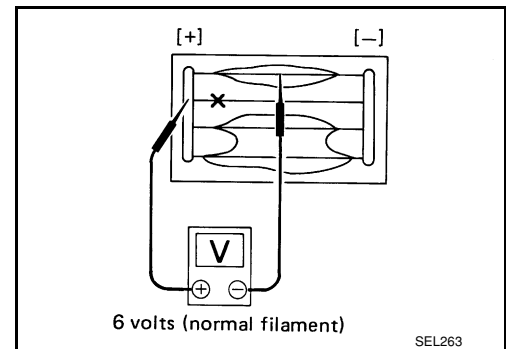
INFOID:000000001527619

INSPECTION

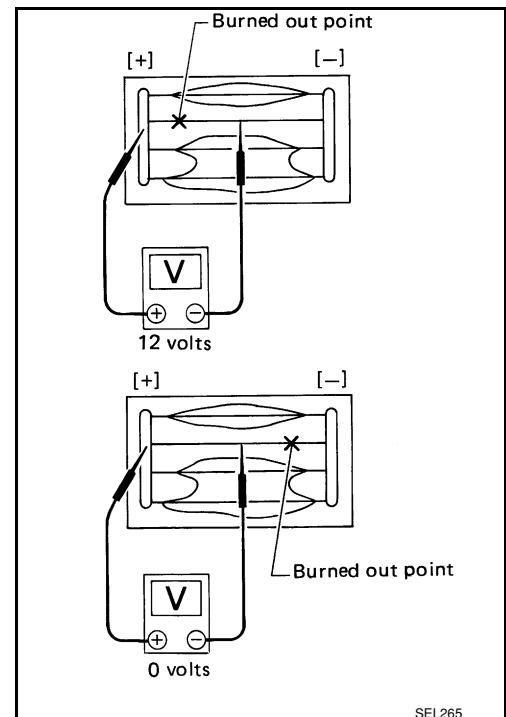
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



2. 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.
4. To locate burned out point, move probe to left and right along filament. Test needle will swing abruptly when probe passes the point.



REPAIR

REPAIR EQUIPMENT

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

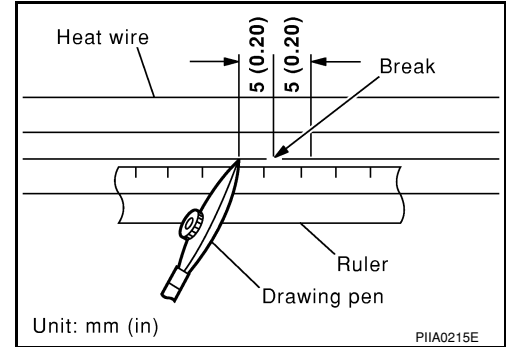
FILAMENT

< ON-VEHICLE REPAIR >

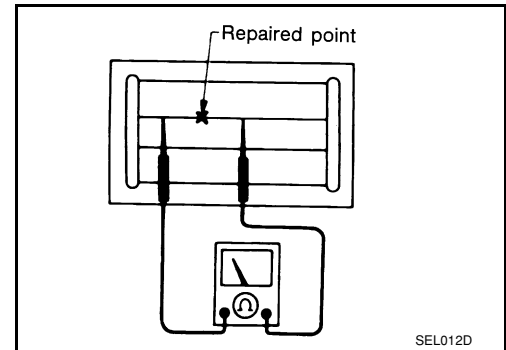
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

REPAIRING PROCEDURE

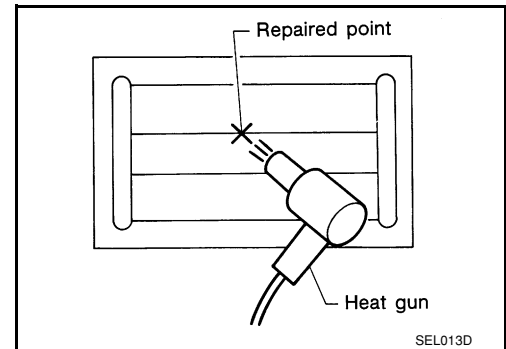
1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
2. Apply a small amount of conductive silver composition to tip of drawing pen. Shake silver composition container before use.
3. Place ruler on glass along broken line. Deposit conductive silver composition on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



4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited. Do not touch repaired area while test is being conducted.



5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet. If a heat gun is not available, let the repaired area dry for 24 hours.



SPECIAL REPAIR REQUIREMENT

A
B
C
D
E
F
G
H
I
J
K
DEF
M
N
O
P