CONTENTS

PRECAUTION3
PRECAUTIONS
SYSTEM DESCRIPTION4
COMPONENT PARTS 4 Component Parts Location 4 Component Description 5
SYSTEM
DIAGNOSIS SYSTEM (BCM) (WITH INTELLI- GENT KEY SYSTEM)7
COMMON ITEM
REAR DEFOGGER
DIAGNOSIS SYSTEM (BCM) (WITHOUT IN- TELLIGENT KEY SYSTEM)9
COMMON ITEM
REAR DEFOGGER10REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)10
DIAGNOSIS SYSTEM (IPDM E/R) (WITH IN- TELLIGENT KEY SYSTEM)11 Diagnosis Description11 CONSULT Function (IPDM E/R)12

DIAGNOSIS SYSTEM (IPDM E/R) (WITHOUT INTELLIGENT KEY SYSTEM)15 Diagnosis Description	F
ECU DIAGNOSIS INFORMATION19	
BCM, IPDM E/R19 List of ECU Reference	Η
WIRING DIAGRAM20	
REAR WINDOW DEFOGGER SYSTEM	J
BASIC INSPECTION27	0
DIAGNOSIS AND REPAIR WORK FLOW27 Work Flow	Κ
DTC/CIRCUIT DIAGNOSIS	
REAR WINDOW DEFOGGER SWITCH	DE
REAR WINDOW DEFOGGER RELAY32Description	Ν
REAR WINDOW DEFOGGER POWER SUP- PLY AND GROUND CIRCUIT933Description33Component Function Check33Diagnosis Procedure33Component Inspection34	O
DRIVER SIDE DOOR MIRROR DEFOGGER35 Description	

SECTION DEF

DEFOGGER



А

В

С

D

Е

PASSENGER SIDE DOOR MIRROR DEFOG-

GER	
Description	37
Component Function Check	
Diagnosis Procedure	
Component Inspection	38

REAR WINDOW DEFOGGER FEEDBACK

SIGNAL	39
Description	39
Component Function Check	39
Diagnosis Procedure	39
SYMPTOM DIAGNOSIS	40

DEFOGGER SY	STEM SYMPTOMS	40
Symptom Table		40

BOTH DOORS MIRROR DEFOGGER DON'T OPERATE BUT REAR WINDOW DEFOG- GER OPERATES Diagnosis Procedure	
DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE. Diagnosis Procedure	
PASSENGER SIDE DOOR MIRROR DEFOG- GER DOES NOT OPERATE Diagnosis Procedure	
REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WINDOW DEFOG- GER OPERATES Diagnosis Procedure	
REMOVAL AND INSTALLATION	47
FILAMENT	47

 49
 49

Inspection and Repair47

PRECAUTIONS

< PRECAUTION >

PRECAUTION PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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.

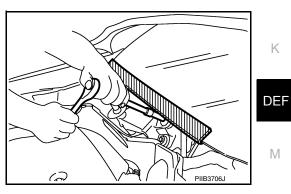
PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries, and wait at least three minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



INFOID-000000012782989

Ν

Ρ

А

В

Ε

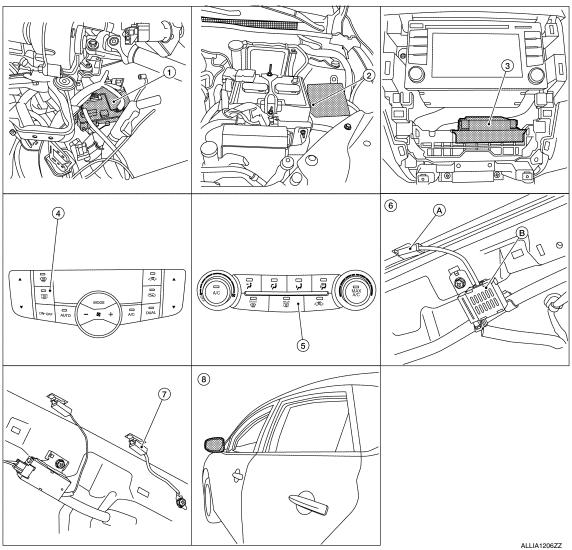
Revision: December 2015

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION **COMPONENT PARTS**

Component Parts Location

INFOID:000000012782990



- BCM (view with instrument panel re-1. moved)
- 4. A/C switch assembly (rear window de- 5. fogger switch) (with auto A/C)
- 7. Rear window defogger ground connec- 8. tor (view with rear pillar finisher RH removed)
- IPDM E/R (rear window defogger re- 3. lay)

2.

- A/C switch assembly (rear window defogger switch) (without auto A/C)
- Door mirror LH (door mirror defogger) (if equipped) (RH similar)

- A/C auto amp. (view with A/C switch assembly removed)
- A. Rear window defogger power connector B. Condenser (view with rear pillar finisher LH removed)

6.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Component Description

INFOID:000000012782991

А

Component	Description
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 defogger¹ with the control signal from BCM.
A/C auto amp.	 Displays the rear window defogger ON to the display when detecting the operation of the rear window defogger.
A/C switch assembly (rear window defogger switch)	The rear window defogger switch is turned ON.
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 ¹	 Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

^{1:} With heated mirrors

J

G

DEF

Μ

Ν

Ο

Ρ

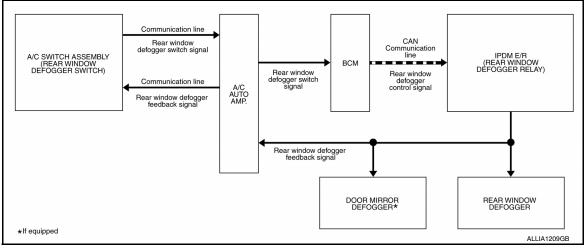
< SYSTEM DESCRIPTION >

SYSTEM

System Description

INFOID:000000012782992

SYSTEM DIAGRAM



OPERATION DESCRIPTION

- A/C control transmits rear window defogger switch signal to A/C auto amp. when rear window defogger switch turns ON while ignition switch is ON.
- A/C auto amp. transmits rear window defogger switch signal to BCM
- BCM transmits rear window defogger control signal to IPDM E/R via CAN communication.
- IPDM E/R turns rear window defogger relay ON when rear window defogger control signal is received.
- The power is supplied to rear window defogger and door mirror defogger* when rear window defogger relay is ON.
- When rear window defogger is activated, rear window defogger feedback signal is transmitted to A/C control via A/C auto amp. and the indicator lamp on rear window defogger switch turns on.
- *: With door mirror defogger.

TIMER FUNCTION

- BCM transmits rear window defogger control signal to IPDM E/R for approximately 15 minutes when the rear window defogger switch turns ON while ignition switch is ON. Then, IPDM E/R activates rear window defogger and door mirror defogger*.
- The timer is cancelled if rear window defogger switch is pressed again during timer operation, and BCM stops the output of rear window defogger control signal. The same action occurs during timer operation if ignition switch is OFF.
- *: With door mirror defogger.

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000013389861

А

В

С

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	The BCM self diagnostic results are displayed.	L
Data Monitor	The BCM input/output data is displayed in real time.	
Active Test	The BCM activates outputs to test components.	E
Work support	The settings for BCM functions can be changed.	
Configuration	The vehicle specification can be read and saved.The vehicle specification can be written when replacing BCM.	F
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.	

SYSTEM APPLICATION

BCM can perform the following functions.

		Direct Diagnostic Mode					- Н		
System	Sub System	ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR	J J
Door lock	DOOR LOCK			×	×	×			
Rear window defogger	REAR DEFOGGER			×	×				
Warning chime	BUZZER			×	×				DEF
Interior room lamp timer	INT LAMP			×	×	×			_
Exterior lamp	HEAD LAMP			×	×	×			ь.л.
Wiper and washer	WIPER			×	×	×			M
Turn signal and hazard warning lamps	FLASHER			×	×	×			-
Air conditioner	AIR CONDITIONER			×					Ν
Intelligent Key system	INTELLIGENT KEY		×	×	×	×			=
Combination switch	COMB SW			×					_
BCM	BCM	×	×			×	×	×	0
Immobilizer	IMMU		×	×		×			-
Interior room lamp battery saver	BATTERY SAVER			×	×	×			P
Trunk open	TRUNK			×					_
Vehicle security system	THEFT ALM			×	×	×			-
RAP system	RETAINED PWR			×					-
Signal buffer system	SIGNAL BUFFER				×				-
TPMS	AIR PRESSURE MONITOR		×	×	×	×			-

Revision: December 2015

< SYSTEM DESCRIPTION >

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:000000013389863

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].

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000013389869

А

В

С

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	The BCM self diagnostic results are displayed.	L
Data Monitor	The BCM input/output data is displayed in real time.	
Active Test	The BCM activates outputs to test components.	E
Work support	The settings for BCM functions can be changed.	
Configuration	The vehicle specification can be read and saved.The vehicle specification can be written when replacing BCM.	F
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.	

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [Diagnosti	c Mode			- H
System	Sub System	ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR	J
Door lock	DOOR LOCK			×	×	×			
Rear window defogger	REAR DEFOGGER			×	×				
Warning chime	BUZZER			×	×				DEF
Interior room lamp timer	INT LAMP			×	×	×			-
Remote keyless entry system	MULTI REMOTE ENT			×	×	×			5.4
Exterior lamp	HEAD LAMP			×	×	×			M
Wiper and washer	WIPER			×	×	×			-
Turn signal and hazard warning lamps	FLASHER			×	×				N
Air conditioner	AIR CONDITIONER			×					-
Combination switch	COMB SW			×					-
BCM	BCM	×	×			×	×	×	0
Immobilizer	IMMU		×		×	×			-
Interior room lamp battery saver	BATTERY SAVER			×	×	×			P
Trunk open	TRUNK			×					
RAP system	RETAINED PWR			×		×			-
Signal buffer system	SIGNAL BUFFER			×					-
TPMS	AIR PRESSURE MONITOR		×	×	×	×			_
Panic alarm system	PANIC ALARM				×				-

< SYSTEM DESCRIPTION >

REAR DEFOGGER

REAR DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)

INFOID:000000013389873

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
REAR DEF SW [On/Off]	Indicates condition of rear window defogger switch.
RR DEF TIME [On/Off]	Indicates condition of rear window defogger switch timer.

ACTIVE TEST

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

< SYSTEM DESCRIPTION > DIAGNOSIS SYSTEM (IPDM E/R) (WITH INTELLIGENT KEY SYSTEM) **Diagnosis Description**

AUTO ACTIVE TEST	В
Description In auto active test, the IPDM E/R sends a drive signal to the following systems to check their operation. • Front wiper (LO, HI) • Parking lamp • License plate lamp	С
 Tail lamp Front fog lamp (if equipped) Headlamp (LO, HI) 	D
A/C compressor (magnet clutch)Cooling fan	E
Operation Procedure NOTE: Never perform auto active test in the following conditions. • Passenger door is open • CONSULT is connected	F
 Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation) NOTE: 	G
When auto active test is performed with hood opened, sprinkle water on windshield beforehand. 2. Turn the ignition switch OFF.	Н
3. Turn the ignition switch ON, and within 20 seconds, press the driver door switch 10 times. Then turn the ignition switch OFF.	I
4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.	
5. After a series of the following operations is repeated 3 times, auto active test is completed.	J
 NOTE: When auto active test has to be cancelled halfway through test, turn the ignition switch OFF. When auto active test is not activated, door switch may be the cause. Check door switch. Refer to <u>DLK-109</u>, <u>"Component Inspection"</u>. 	K
Inspection in Auto Active Test	

When auto active test is actuated, the following operation sequence is repeated 3 times.

Operation se- quence	Inspection location	Operation	М
1	Front wiper	LO for 5 seconds \rightarrow HI for 5 seconds	IVI
2	 Parking lamp License plate lamp Tail lamp Front fog lamp (if equipped) 	10 seconds	Ν
3	Headlamp	LO for 10 seconds \rightarrow HI ON \Leftrightarrow OFF 5 times	0
4	A/C compressor (magnet clutch)	$ON \Leftrightarrow OFF 5 times$	0
5	Cooling fan	LO for 5 seconds \rightarrow MID for 3 seconds \rightarrow HI for 2 seconds	
			Р

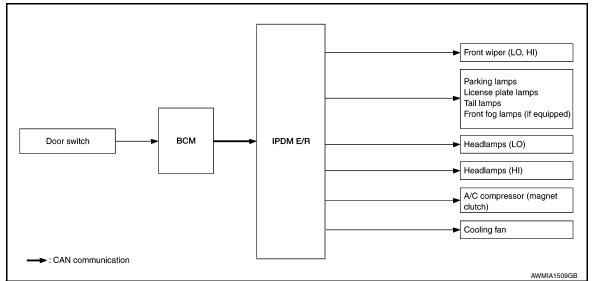
А

DEF

INFOID:000000013389874

< SYSTEM DESCRIPTION >

Concept of Auto Active Test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis Chart in Auto Active Test

Symptom	Inspection contents		Possible cause	
Any of the following components do not operate		YES	BCM signal input circuit	
 Parking lamp License plate lamp Tail lamp Front fog lamp (if equipped) Headlamp (HI, LO) Front wiper (HI, LO) 	Perform auto active test. Does the applicable system op- erate?	NO	 Lamp or motor Lamp or motor ground circuit Harness or connector between IPDM E/R and applicable system IPDM E/R 	
A/C compressor does not operate	Perform auto active test. Does the magnet clutch oper-	YES	 BCM signal input circuit CAN communication signal be- tween BCM and ECM CAN communication signal be- tween ECM and IPDM E/R 	
	ate?	NO	 Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R 	
	Perform auto active test.	YES	 ECM signal input circuit CAN communication signal be- tween ECM and IPDM E/R 	
Cooling fan does not operate	Does the cooling fan operate?	NO	 Cooling fan motor Harness or connector between IPDM E/R and cooling fan motor IPDM E/R 	

CONSULT Function (IPDM E/R)

INFOID:000000013389875

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

Direct Diagnostic Mode	Description
ECU Identification	The IPDM E/R part number is displayed.
Self Diagnostic Result	The IPDM E/R self diagnostic results are displayed.
Data Monitor	The IPDM E/R input/output data is displayed in real time.

Revision: December 2015

< SYSTEM DESCRIPTION >

Direct Diagnostic Mode	Description	_
Active Test	The IPDM E/R activates outputs to test components.	A
CAN Diag Support Mntr The result of transmit/receive diagnosis of CAN communication is displayed.		-

ECU IDENTIFICATION

The IPDM E/R part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to PCS-20, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Main Signals	Description
MOTOR FAN REQ [%]	×	Indicates cooling fan speed signal received from ECM on CAN communication line
AC COMP REQ [On/Off]	×	Indicates A/C compressor request signal received from ECM on CAN commu- nication line
TAIL&CLR REQ [On/Off]	×	Indicates position light request signal received from BCM on CAN communica- tion line
HL LO REQ [On/Off]	×	Indicates low beam request signal received from BCM on CAN communication line
HL HI REQ [On/Off]	×	Indicates high beam request signal received from BCM on CAN communication line
FR FOG REQ [On/Off]	×	Indicates front fog light request signal received from BCM on CAN communica- tion line
FR WIP REQ [Stop/1LOW/Low/Hi]	×	Indicates front wiper request signal received from BCM on CAN communication line
WIP AUTO STOP [STOP P/ACT P]	×	Indicates condition of front wiper auto stop signal
WIP PROT [Off/BLOCK]	×	Indicates condition of front wiper fail-safe operation
IGN RLY1 -REQ [On/Off]		Indicates ignition switch ON signal received from BCM on CAN communication line
IGN RLY [On/Off]	×	Indicates condition of ignition relay
PUSH SW [On/Off]		Indicates condition of push-button ignition switch
INTER/NP SW [On/Off]		Indicates condition of CVT shift position
ST RLY CONT [On/Off]		Indicates starter relay status signal received from BCM on CAN communication line
IHBT RLY -REQ [On/Off]		Indicates starter control relay signal received from BCM on CAN communication line
ST/INHI RLY [Off/ ST /INHI]		Indicates condition of starter relay and starter control relay
DETENT SW [On/Off]		Indicates condition of CVT shift selector (park position switch)
DTRL REQ [Off]		Indicates daytime running light request signal received from BCM on CAN com- munication line
THFT HRN REQ [On/Off]		Indicates theft warning horn request signal received from BCM on CAN commu- nication line
HORN CHIRP [On/Off]		Indicates horn reminder signal received from BCM on CAN communication line

ACTIVE TEST

Test item	Description
HORN This test is able to check horn operation [On].	
REAR DEFOGGER This test is able to check rear window defogger operation [On/Off].	
FRONT WIPER	This test is able to check wiper motor operation [Hi/Lo/Off].

Ρ

В

С

< SYSTEM DESCRIPTION >

Test item Description	
MOTOR FAN This test is able to check cooling fan operation [4/3/2/1].	
EXTERNAL LAMPS	This test is able to check external lamp operation [Fog/Hi/Lo/TAIL/Off].

CAN DIAG SUPPORT MNTR

Refer to LAN-14, "CAN Diagnostic Support Monitor".

< SYSTEM DESCRIPTION >

< SYSTEM DESCRIPTION >	
DIAGNOSIS SYSTEM (IPDM E/R) (WITHOUT INTELLIGENT KEY SYS- TEM)	А
Diagnosis Description	В
AUTO ACTIVE TEST	
Description In auto active test, the IPDM E/R sends a drive signal to the following systems to check their operation. • Front wiper (LO, HI)	С
 Parking lamp License plate lamp Tail lamp Front fog lamp (if equipped) 	D
 Headlamp (LO, HI) A/C compressor (magnet clutch) (if equipped) Cooling fan 	Е
Operation Procedure NOTE: Never perform auto active test in the following conditions.	F
 Passenger door is open CONSULT is connected 	G
 Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation) NOTE: 	Н
When auto active test is performed with hood opened, sprinkle water on windshield beforehand. 2. Turn the ignition switch OFF.	
 Turn the ignition switch ON, and within 20 seconds, press the driver door switch 10 times. Then turn the ignition switch OFF. 	
4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.	J
5. After a series of the following operations is repeated 3 times, auto active test is completed.	
 NOTE: When auto active test has to be cancelled halfway through test, turn the ignition switch OFF. When auto active test is not activated, door switch may be the cause. Check door switch. Refer to <u>DLK-248</u>, <u>"Component Inspection"</u>. 	К

Inspection in Auto Active Test

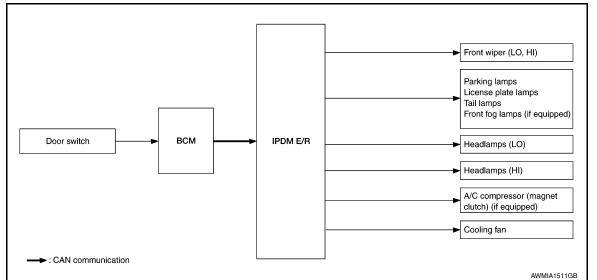
When auto active test is actuated, the following operation sequence is repeated 3 times.

Operation se- quence	Inspection location	Operation	Μ
1	Front wiper	LO for 5 seconds \rightarrow HI for 5 seconds	
2	 Parking lamp License plate lamp Tail lamp Front fog lamp (if equipped) 	10 seconds	N
3	Headlamp	LO for 10 seconds \rightarrow HI ON \Leftrightarrow OFF 5 times	0
4	A/C compressor (magnet clutch) (if equipped)	$ON \Leftrightarrow OFF 5 times$	
5	Cooling fan	LO for 5 seconds \rightarrow MID for 3 seconds \rightarrow HI for 2 seconds	Ρ

DEF

< SYSTEM DESCRIPTION >

Concept of Auto Active Test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis Chart in Auto Active Test

Symptom	Inspection contents	Possible cause	
 Any of the following components do not operate Parking lamp License plate lamp Tail lamp Front fog lamp (if equipped) 	Perform auto active test. Does the applicable system op- erate?	YES	 BCM signal input circuit Lamp or motor Lamp or motor ground circuit Harness or connector between
Headlamp (HI, LO)Front wiper (HI, LO)			IPDM E/R and applicable systemIPDM E/R
A/C compressor does not operate	Perform auto active test. Does the magnet clutch oper-	YES	 BCM signal input circuit CAN communication signal be- tween BCM and ECM CAN communication signal be- tween ECM and IPDM E/R
	ate?	NO	 Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R
	Perform auto active test	YES	 ECM signal input circuit CAN communication signal be- tween ECM and IPDM E/R
Cooling fan does not operate	Does the cooling fan operate?	NO	 Cooling fan motor Harness or connector between IPDM E/R and cooling fan motor IPDM E/R

CONSULT Function (IPDM E/R)

INFOID:000000013389881

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

Direct Diagnostic Mode	Description
ECU Identification	The IPDM E/R part number is displayed.
Self Diagnostic Result	The IPDM E/R self diagnostic results are displayed.
Data Monitor	The IPDM E/R input/output data is displayed in real time.

Revision: December 2015

< SYSTEM DESCRIPTION >

Direct Diagnostic Mode	Description	
Active Test	The IPDM E/R activates outputs to test components.	A
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.	

ECU IDENTIFICATION

The IPDM E/R part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to PCS-48, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Main Signals	Description	
MOTOR FAN REQ [%] ×		Indicates cooling fan speed signal received from ECM on CAN communication	
AC COMP REQ [On/Off]	×	Indicates A/C compressor request signal received from ECM on CAN commu- nication line	
TAIL&CLR REQ [On/Off]	×	Indicates position light request signal received from BCM on CAN communica- tion line	
HL LO REQ [On/Off]	×	Indicates low beam request signal received from BCM on CAN communication line	
HL HI REQ [On/Off]	×	Indicates high beam request signal received from BCM on CAN communication line	
FR FOG REQ [On/Off]	×	Indicates front fog light request signal received from BCM on CAN communica- tion line	
FR WIP REQ [Stop/1LOW/Low/Hi] × line WIP AUTO STOP [STOP P/ACT P] × Indicates condition o		Indicates front wiper request signal received from BCM on CAN communication line	
		Indicates condition of front wiper auto stop signal	
		Indicates condition of front wiper fail-safe operation	
IGN RLY1 -REQ [On/Off]		Indicates ignition switch ON signal received from BCM on CAN communication	
IGN RLY [On/Off]	×	Indicates condition of ignition relay	
INTER/NP SW [On/Off]		Indicates condition of CVT shift position	
ST RLY CONT [On/Off]		Indicates starter relay status signal received from BCM on CAN communication line	
IHBT RLY -REQ [On/Off]		Indicates starter control relay signal received from BCM on CAN communication line	
ST/INHI RLY [Off/ ST /INHI]		Indicates condition of starter relay and starter control relay	
DETENT SW [On/Off]		Indicates condition of CVT shift selector (park position switch)	
DTRL REQ [Off]		Indicates daytime running light request signal received from BCM on CAN com- munication line	
		Indicates theft warning horn request signal received from BCM on CAN commu- nication line	
HORN CHIRP [On/Off]		Indicates horn reminder signal received from BCM on CAN communication line	

ACTIVE TEST

Test item	Description	
HORN	This test is able to check horn operation [On].	
REAR DEFOGGER	This test is able to check rear window defogger operation [On/Off].	
FRONT WIPER	This test is able to check wiper motor operation [Hi/Lo/Off].	
MOTOR FAN	This test is able to check cooling fan operation [4/3/2/1].	
EXTERNAL LAMPS	This test is able to check external lamp operation [Fog/Hi/Lo/TAIL/Off].	

Revision: December 2015

2016 Sentra NAM

В

С

< SYSTEM DESCRIPTION >

CAN DIAG SUPPORT MNTR Refer to LAN-14, "CAN Diagnostic Support Monitor".

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION BCM, IPDM E/R

List of ECU Reference

INFOID:000000012783001

А

ECU	Reference		
	BCS-30, "Reference Value"		
всм	BCS-48. "Fail-safe"		
	BCS-49, "DTC Inspection Priority Chart"		
	BCS-50, "DTC Index"		
	PCS-13. "Reference Value"		
IPDM E/R	PCS-19. "Fail-safe"		
	PCS-20, "DTC Index"		
out Intelligent Key			
ECU	Reference		
	BCS-103, "Reference Value"		
	BCS-114, "Fail-safe"		
3CM			
BCM	BCS-115, "DTC Inspection Priority Chart"		
BCM			
BCM	BCS-115, "DTC Inspection Priority Chart"		
BCM IPDM E/R	BCS-115. "DTC Inspection Priority Chart" BCS-115. "DTC Index"		

Κ

DEF

Ν

0

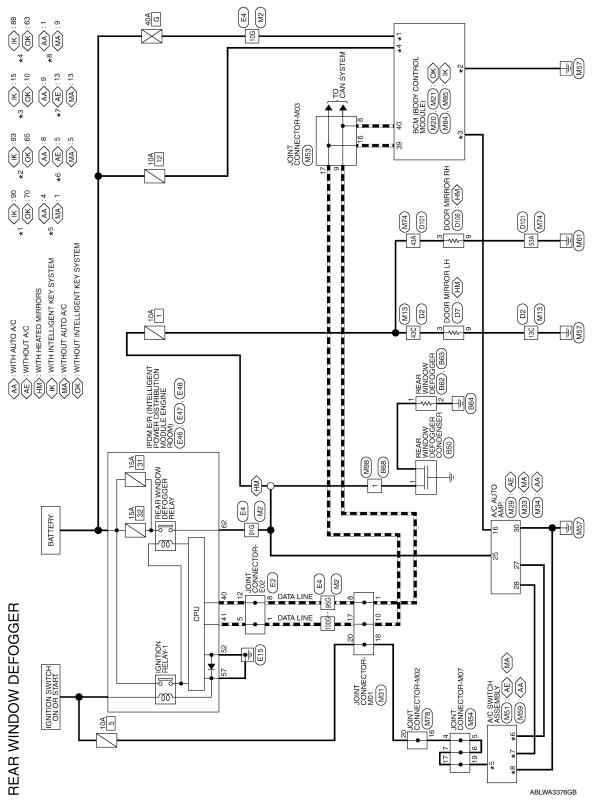
Р

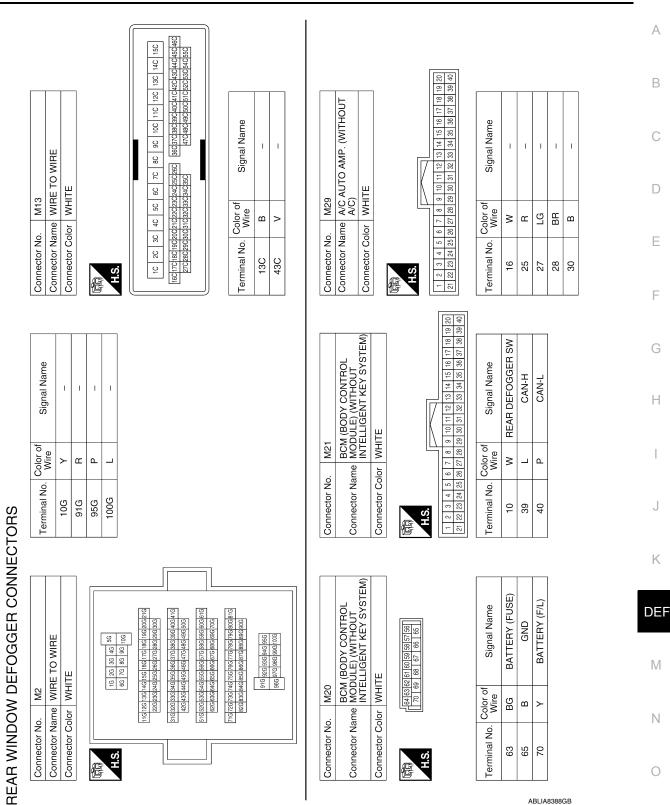
< WIRING DIAGRAM >

WIRING DIAGRAM REAR WINDOW DEFOGGER SYSTEM

Wiring Diagram







ABLIA8388GB

Ρ

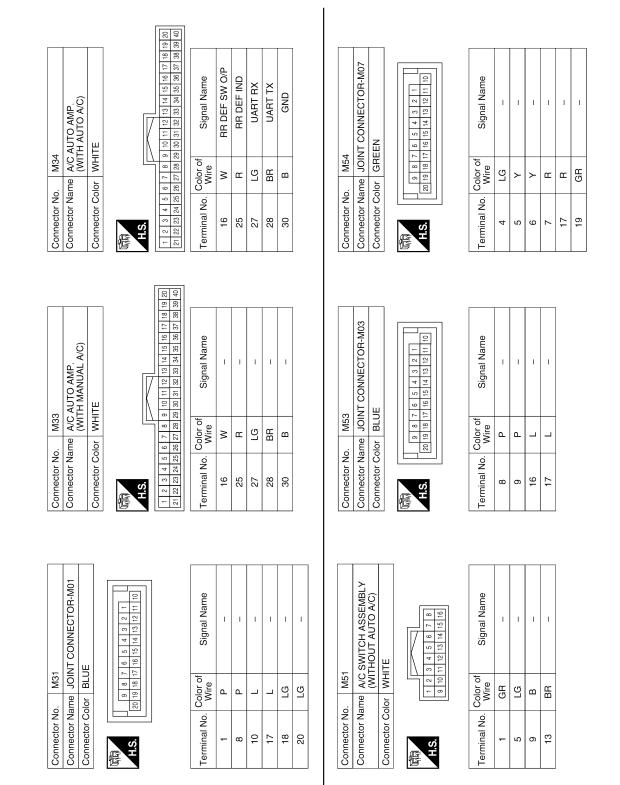
REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >

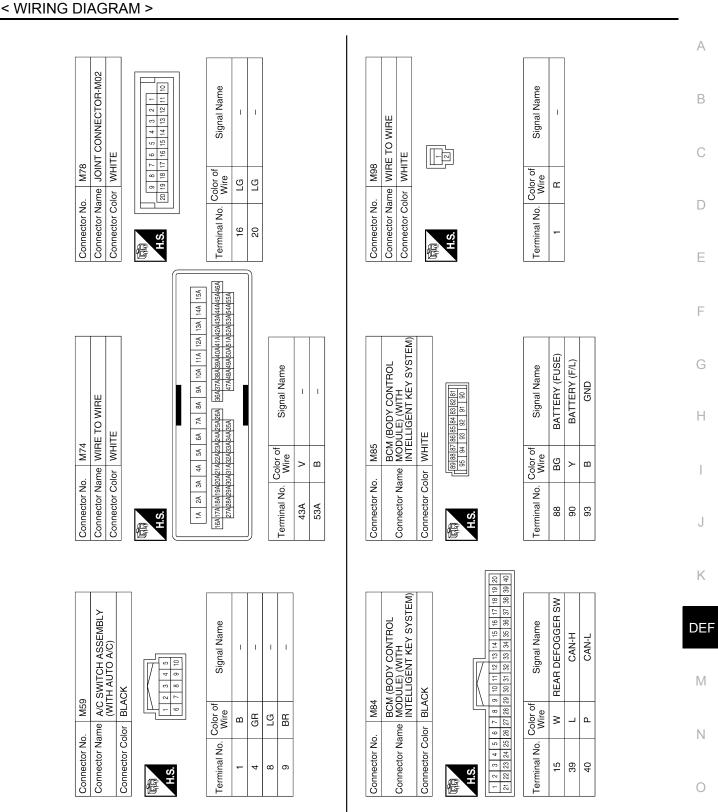
Revision: December 2015

REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >



ABLIA8389GB



ABLIA8390GB

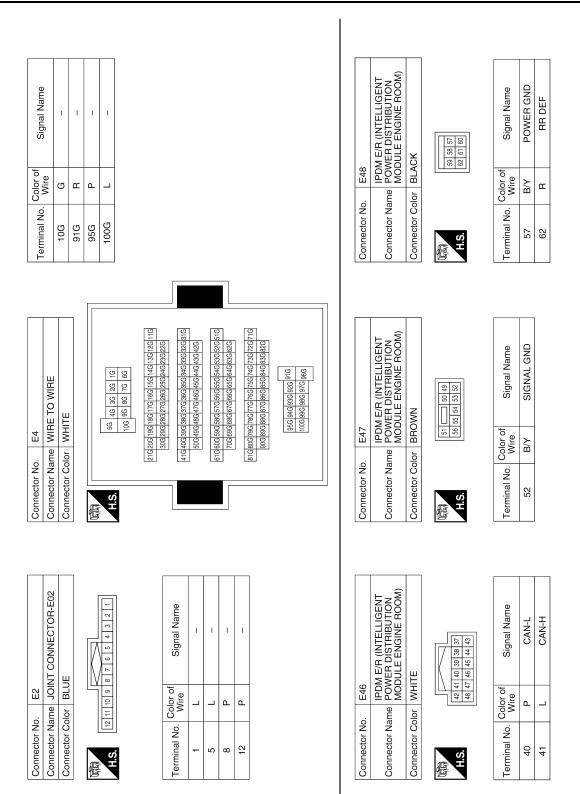
Ρ

REAR WINDOW DEFOGGER SYSTEM

Revision: December 2015

REAR WINDOW DEFOGGER SYSTEM

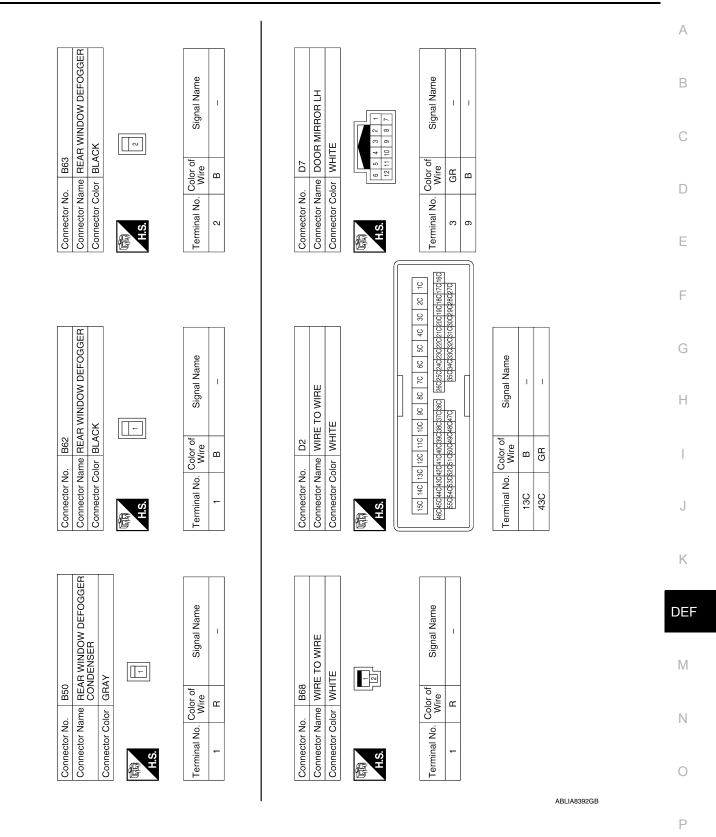
< WIRING DIAGRAM >



ABLIA8391GB

REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >



5 4 3 2 1 11 10 9 8 7 1	of Signal Name	I	I			
12	Color o Wire	GR	ш			
同 H.S.	Terminal No. Color of Wire	ę	6			
	4 10A 94 8A 7A 6A 5A 4A 3A 2A 1A 19A38A37A38A 26A25A2A27A27A20A19A18A17A16A	9A48A47A 35A34A33A52A31A30A28A27A		f Signal Name	1	1
	15A 14A 13A 12A 11A 10A 45A44443A42A41A440A39A38A	55A54A53A52A51A50A49A48A47A		Color of Wire	GВ	m
。 S.H	15A 13A 12A 11A 10A 9A 46A45A44A43A42A41A40A59A38A37A36A 46A443A42A41A40A59A38A37A36A 46A443A43A443A443A443A443A443A443A443A44	55A54A53A		Terminal No. Color of Wire	43A	53A

ABLIA8399GB

Connector Name DOOR MIRROR RH Connector Color WHITE

D106

Connector No.

Connector Name WIRE TO WIRE Connector Color WHITE

D101

Connector No.

< BASIC INSPECTION >

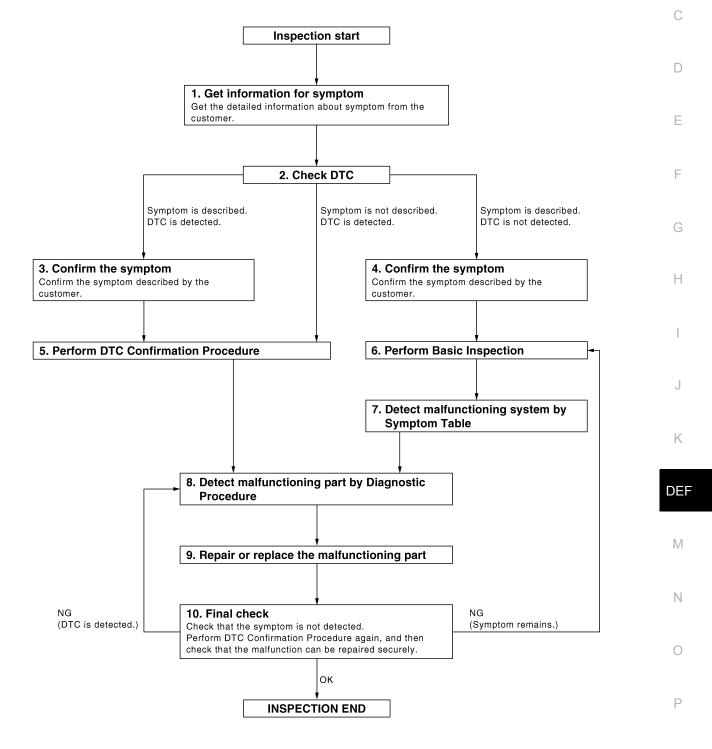
BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012783003

А

OVERALL SEQUENCE



< 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.

 $\mathbf{3.}$ 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.

5. 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-49</u>, "<u>DTC Inspection Priority Chart</u>" or <u>BCS-115</u>, "<u>DTC Inspection Priority Chart</u>" and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 8.

NO >> Refer to <u>GI-41, "Intermittent Incident"</u>.

6. PERFORM BASIC INSPECTION

Perform <u>DEF-27, "Work Flow"</u>.

>> GO TO 7

7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

>> GO TO 8.

Revision: December 2015

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE	•
nspect according to Diagnostic Procedure of the system.	-
OTE: he Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also equired for the circuit check in the Diagnostic Procedure. malfunctioning part detected?)
YES >> GO TO 9.	
NO >> Check voltage of related BCM terminals using CONSULT.	
. REPAIR OR REPLACE THE MALFUNCTIONING PART	
 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 10.	
0. FINAL CHECK	-
Vhen DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check gain, and then check that the malfunction have been repaired securely.	
Then symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that	i
ne symptom is not detected.	
<u>oes the symptom reappear?</u> YES (DTC is detected)>>GO TO 8.	
YES (Symptom remains)>>GO TO 6.	
NO >> Inspection End.	
	-

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS REAR WINDOW DEFOGGER SWITCH

Description

• The rear window defogger is operated by pressing the rear window defogger switch ON.

• The indicator lamp in the rear window defogger switch illuminates while the rear window defogger is ON.

Component Function Check

INFOID:000000012783005

INFOID:000000012783004

1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

- 1. Check ("REAR DEF SW") in BCM REAR DEFOGGER "DATA MONITOR" mode by using CONSULT.
- 2. Operate rear window defogger switch and check the status on CONSULT screen.

Monitor Item	Condition		status
REAR DEF SW	Rear window defogger	Pressed	On
NEAR DEI 5W	switch	Released	Off

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.

NO >> Refer to <u>DEF-30, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000012783006

Regarding Wiring Diagram information, refer to <u>DEF-20, "Wiring Diagram"</u>.

1. CHECK REAR WINDOW DEFOGGER ON SIGNAL CIRCUIT

1. Turn ignition switch to ON.

- 2. Turn rear window defogger switch ON.
- 3. Check voltage between BCM connector and ground.

With Intelligent Key

(+) BCM		(-)	Condit	ion	Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
M84	15	Ground	Rear window defogger switch	Released	(V) 10 50 10 ms JPMIA0012GB 1.0 - 1.5 V	
				Depressed	0 V	

Without Intelligent Key

(+	-)					
BC	M	(–)	Condition			Voltage (V) (Approx.)
Connector	Terminal					
M21	10	Ground	Rear window defogger	ON	0	
1012 1	10	Cround	switch	OFF	Battery voltage	

Is the inspection result normal?

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to <u>BCS-78</u>, "<u>Removal and Installation</u>" (with Intelligent Key system) or <u>BCS-135</u>, "<u>Removal and Installation</u>" (without Intelligent Key system).

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

- 1. Turn ignition switch to OFF.
- 2. Disconnect BCM and A/C auto amp.

3. Check continuity between BCM connector and A/C auto amp.

Operationsity	ıp.	A/C auto am		BCM	
Continuity	Terminal	Connector	Terminal	Connector	
		M29 (without A/C)	10	MO4 (without Intelligent Key)	
N/s s	40	M33 (with manual A/C)	10	M21 (without Intelligent Key)	
Yes	16	M33 (with manual A/C)	45	MOA (with latelline at Key)	
		M34 (with auto A/C)	15	M84 (with Intelligent Key)	

4. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Connector Terminal		Continuity
M21 (without Intelligent Key)	10	Ground	No
M84 (with Intelligent Key)	15	1	INO
the inspection result po	mal2		

Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to <u>HAC-105</u>, "Removal and Installation" (with auto A/C) or <u>HAC-190</u>, "Removal and Installation" (without auto A/C).

NO >> Repair or replace harness.

Κ

DEF

Μ

Ν

Ο

Ρ

J

А

В

F

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description

Power is supplied to the rear window defogger with IPDM E/R control.

Component Function Check

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.

2. 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 <u>DEF-32</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000012783009

Regarding Wiring Diagram information, refer to DEF-20, "Wiring Diagram".

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	31
	15A	32

Is the inspection result normal?

YES >> GO TO 2

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

 $\mathbf{2}$. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.

2. Check voltage between IPDM E/R connector E48 terminal 62 and ground.

	Terminals			
(+)			Condition of rear window defogger	Voltage (V)
IPDM E/R con- nector	Terminal	(-)	switch	(Approx.)
E48	62	Ground	ON	Battery voltage
L-+0	02	Orbund	OFF	0V

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation"</u> (with Intelligent Key system) or <u>PCS-60, "Removal and Installation"</u> (without Intelligent Key system).

$\mathbf{3}.$ 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.
 - IPDM E/R.
- NO >> Repair or replace the malfunctioning parts.

INFOID:000000012783007

INFOID:000000012783008

< DTC/CIRCUIT DIAGNO	SIS >					
REAR WINDOW D	EFOG	GER POW	/ER SUPF	PLY ANI	D GROUI	ND CIRCUIT
Description						INFOID:000000012783010
Heats the heating wire with from fogging up.	the pow	er supply from t	the rear windo	w defoggei	r relay to prev	vent the rear window
Component Function	Check					INFOID:000000012783011
1. CHECK REAR WINDO	W DEFO	GGER				
Check that the heating wire ON.	e of rear v	vindow defogge	er is heated w	hen turning	the rear win	dow defogger switch
Is the inspection result norr YES >> Rear window d NO >> Refer to DEF-3	efogger i		<u>9"</u> .			
Diagnosis Procedure						INFOID:000000012783012
Regarding Wiring Diagram 1. CHECK FUSES Check if any of the followin				<u>Diagram"</u> .		
COMPONENT P	-		AMPERE			FUSE NO.
	AKI S					31
IPDM E/R			15A			32
Is the inspection result norm YES >> GO TO 2. NO >> Replace the block 2. CHECK REAR WINDO 1. Turn ignition switch ON 2. Check voltage between	own fuse W DEFO I.	GGER POWER	R SUPPLY CIF			
(+) IPDM E/R	()	Cor	ndition	Voltag	ge (V)	
Connector Terminal	(-)	0		(Арр	rox.)	
E48 62	Ground	Rear window de- fogger switch	ON OFF	Battery		
Is the inspection result norr YES >> GO TO 3. NO >> Perform rear w						Procedure".

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

(+) Rear window defogger		(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(
B62	1	Ground	Rear window de-	ON	Battery voltage
002	I	Ground	fogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. 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 of	lefogger		Continuity
Connector	Terminal	Ground	Continuity
B63	2		Yes

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

5. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.

2. Disconnect IPDM E/R connector and condenser connector.

3. Check continuity between IPDM E/R connector and condenser connector.

IPDM E	Z/R	Condens	ser	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E48	62	B50	1	Yes

Is the inspection result normal?

YES >> Replace condenser. Refer to <u>DEF-49</u>, "Removal and Installation".

NO >> Replace or repair harness.

6. CHECK FILAMENT

Check filament.

Refer to DEF-34, "Component Inspection".

Is the inspection result normal?

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

NO >> Repair filament. Refer to <u>DEF-47, "Inspection and Repair"</u>.

Component Inspection

1. CHECK FILAMENT

Check the filament for damage or open circuits. Refer to <u>DEF-47</u>, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair filament. Refer to <u>DEF-47, "Inspection and Repair"</u>.

INFOID:000000012783013

DRIVER SIDE DOOR MIRROR DEFOGGER

Component Function Check Merce accessed of the second	-			OGGER		
from fogging up. Component Function Check Component Function Check I. CHECK DOOR MIRROR DEFOGGER LH Check that heating wire of door mirror defogger LH is heated when turning the rear window defogger switch N. Is the inspection result normal? YES → Door mirror defogger is OK. NO → Refer to DEF-30. "Wiring Diagram". Concertor Terminal (*) Connector Terminal (*	Description					INFOID:000000012783014
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-35. "Diagnosis Procedure". Diagnosis Procedure	Heats the heating wir from fogging up.	e with the pov	ver supply from the	e rear windov	w defogger relay to	prevent the door mirror
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-35, "Diagnosis Procedure". Diagnosis Procedure #************************************	Component Fund	ction Check				INFOID:000000012783015
ON. Terminal Is the inspection result normal? YES >> Door mirror defogger is OK. NO >> Refer to DEF-35. "Diagnosis Procedure". Diagnosis Procedure wron accessent result normal? Regarding Wiring Diagram information, refer to DEF-20. "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 connector and ground. (*) Condition Voltage (V) (Approx.) 00 or mirror LH (-) 07 3 3 Ground (*) Condition Voltage (V) (Approx.) 07 3 15 the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. Check continuity between door mirror LH connector and ground. 1 Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground. 1 Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground	1. CHECK DOOR M	IRROR DEFO	GGER LH			
Is the inspection result normal? YES >> Door mirror defogger is OK. NO >> Refer to DEF-35. "Diagnosis Procedure". Diagnosis Procedure >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		ire of door mir	ror defogger LH is	s heated whe	en turning the rear v	vindow defogger switch
NO >> Refer to DEF-35. "Diagnosis Procedure". Diagnosis Procedure		It normal?				
Diagnosis Procedure Processessessessessessessessessessessessess						
A Regarding Wiring Diagram information, refer to DEF-20, "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 connector and ground. (+) Condition Voltage (V) (Approx.) (approx.) (box mirror LH) (c) Condition (c) Condition (c) (c) Condition (c) (c)		-	nosis Procedure.			
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 connector and ground. (+) (-) Connector Terminal D7 3 Ground Rear window de- fogger switch ON Battery voltage 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 LH connector and ground. Door mirror LH Continuity Connector Terminal D7 9 Is the inspection result normal? YES > GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGER LH Check door mirror LH. Continuity Edge to DEF-36, "Component Inspection". Is the inspection result normal? YES > GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGER LH.	Jiagnosis Proces	Jule				INFOID:000000012783016
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 connector and ground. (+) (-) Connector Terminal D7 3 Ground Rear window de- fogger switch ON Battery voltage 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 LH connector and ground. Door mirror LH Continuity Connector Terminal D7 9 Is the inspection result normal? YES > GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGER LH Check door mirror LH. Continuity Edge to DEF-36, "Component Inspection". Is the inspection result normal? YES > GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGER LH.						
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.	Regarding Wiring Dia	gram informat	ion, refer to <u>DEF-2</u>	0, "Wiring Di	lagram".	
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.			тит			
2. Disconnect door mirror LH. 3. Turn ignition switch ON. 4. Check voltage between door mirror LH connector and ground. (+) Condition Voltage (V) (Approx.) Connector Terminal (-) Condition Voltage (V) (Approx.) Connector Terminal (-) Condition ON Battery voltage OFF 0 107 3 Ground Rear window de- fogger switch ON Battery voltage D7 3 Ground Rear window de- fogger switch OFF 0 Is the inspection result normal? YES >S GO TO 2. NO >> Repair or replace harness. 2. CHECK GROUND CIRCUIT 1 Turn ignition switch OFF. . . 1. Turn ignition switch OFF. . . Continuity between door mirror LH connector and ground. Door mirror LH Continuity Continuity Yes Is the inspection result normal? Yes >> GO TO 3. NO >> Repair or replace harness. . 3. CHECK DOOR MIRROR DEFOGGER LH . <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
4. Check voltage between door mirror LH connector and ground. (+) Condition Voltage (V) (Approx.) Dor mirror LH (-) Condition Voltage (V) (Approx.) D7 3 Ground Rear window de- fogger switch ON Battery voltage D7 3 Ground Rear window de- fogger switch OFF 0 Is the inspection result normal? YES > SGO TO 2. NO >> Repair or replace harness. 2. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF. 2. Continuity between door mirror LH connector and ground. 1. Door mirror LH Ground Continuity 07 9 Yes 2. Check continuity between door mirror LH connector and ground. 1. Terminal Ground Continuity 07 9 Yes Yes 2. S of O TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Yes 2. Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". 1. Is the inspection result normal? Yes	2. Disconnect door	mirror LH.				
(+) Condition Voltage (V) (Approx.) Connector Terminal (-) Condition Voltage (V) (Approx.) D7 3 Ground Rear window de- fogger switch ON Battery voltage D7 3 Ground Rear window de- fogger switch ON Battery voltage D7 3 Ground Rear window de- fogger switch 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 LH connector and ground. 1 Door mirror LH Ground Continuity 07 9 Yes Is the inspection result normal? Yes YES > GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	0		irror I H connector	and ground		
Door mirror LH (-) Condition Voltage (V) (Approx.) D7 3 Ground Rear window de- fogger switch ON Battery voltage D7 3 Ground Rear window de- fogger switch ON Battery voltage VES >> GO TO 2. OFF 0 NO >> Repair or replace harness. 2. 2. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground. Door mirror LH Continuity Connector Terminal Ground Continuity YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?				oa g. c aa		
Dominion LH (-) Condution (Approx.) Connector Terminal (Approx.) D7 3 Ground Rear window de- fogger switch ON Battery voltage D7 3 Ground Rear window de- fogger switch ON Battery voltage Is the inspection result normal? YES >> GO TO 2. OFF 0 NO >> Repair or replace harness. 2 CHECK GROUND CIRCUIT 1. 1. Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground. Door mirror LH Ground Continuity Connector Terminal Ground Yes Is the inspection result normal? Yes >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Check door mirror defogger LH. Refer to DEF-36. "Component Inspection". Is the inspection result normal? S					Voltage (V)	
D7 3 Ground forger switch forger switch ON Battery voltage of Contract of Fermion Contract of C			Conditi	on		
D7 3 Ground fogger switch OFF 0 Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace harness. 2. C. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF. 2. 2. Check continuity between door mirror LH connector and ground. Continuity Door mirror LH Continuity Door mirror LH Ground Yes Is the inspection result normal? Yes YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal? Section result normal? Section result normal?			Rear window de-	ON	Battery voltage	
YES >> GO TO 2. NO >> Repair or replace harness. 2. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground. Door mirror LH Connector Terminal Ground Continuity Ves Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	_	Ground		OFF	0	
NO >> Repair or replace harness. 2. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground. Door mirror LH Connector Terminal 07 9 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	D7 3		logger ernteri	011	0	
2. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground. Door mirror LH Connector Terminal 07 9 St the inspection result normal? YES YES 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	Is the inspection resu			011	0	
1. Turn ignition switch OFF. 2. Check continuity between door mirror LH connector and ground. Door mirror LH Connector Terminal Ground Continuity D7 9 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	Is the inspection resu YES >> GO TO 2				0	
Door mirror LH Continuity D7 9 D7 9 Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	Is the inspection resu YES >> GO TO 2 NO >> Repair or	replace harne			0	
Connector Terminal Ground Continuity D7 9 Yes Is the inspection result normal? Yes YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	Is the inspection resu YES >> GO TO 2 NO >> Repair or 2. CHECK GROUNE 1. Turn ignition swit	replace harne CIRCUIT ch OFF.	ess.			
Connector Terminal Ground Continuity D7 9 Yes Is the inspection result normal? Yes YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	Is the inspection resu YES >> GO TO 2 NO >> Repair or 2. CHECK GROUNE 1. Turn ignition swit	replace harne CIRCUIT ch OFF.	ess.			
Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	Is the inspection result YES >> GO TO 2 NO >> Repair or 2. CHECK GROUNE 1. Turn ignition swit 2. Check continuity	replace harne CIRCUIT ch OFF. between door	ess.	or and groun	nd.	
YES >> GO TO 3. NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to <u>DEF-36, "Component Inspection"</u> . Is the inspection result normal?	Is the inspection resu YES >> GO TO 2 NO >> Repair or 2. CHECK GROUNE 1. Turn ignition swit 2. Check continuity	replace harne O CIRCUIT ch OFF. between door	ess.	or and groun	nd.	
NO >> Repair or replace harness. 3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to DEF-36, "Component Inspection". Is the inspection result normal?	Is the inspection result YES >> GO TO 2 NO >> Repair or 2. CHECK GROUND 1. Turn ignition swit 2. Check continuity Door mirror Connector	oreplace harne O CIRCUIT ch OFF. between door or LH	ess.	or and groun	nd. uity	
3. CHECK DOOR MIRROR DEFOGGER LH Check door mirror defogger LH. Refer to <u>DEF-36, "Component Inspection"</u> . Is the inspection result normal?	Is the inspection result YES >> GO TO 2 NO >> Repair or 2. CHECK GROUND 1. Turn ignition swit 2. Check continuity Door mirror Connector D7 Is the inspection result	replace harne O CIRCUIT ch OFF. between door or LH Terminal 9 It normal?	ess.	or and groun	nd. uity	
Check door mirror defogger LH. Refer to <u>DEF-36, "Component Inspection"</u> . Is the inspection result normal?	Is the inspection result YES >> GO TO 2 NO >> Repair or 2. CHECK GROUNE 1. Turn ignition switt 2. Check continuity Door mirror Connector D7 Is the inspection result YES >> GO TO 3	or circle constraints of the second s	ess. mirror LH connect Ground	or and groun	nd. uity	
Refer to <u>DEF-36, "Component Inspection"</u> . Is the inspection result normal?	Is the inspection result YES >> GO TO 2 NO >> Repair or 2. CHECK GROUNE 1. Turn ignition swit 2. Check continuity Door mirror Connector D7 Is the inspection result YES >> GO TO 3 NO >> Repair or	or replace harned CIRCUIT ch OFF. between door or LH Terminal 9 It normal?	ess.	or and groun	nd. uity	
	Is the inspection resurves and the second se	replace harne O CIRCUIT ch OFF. between door or LH Terminal 9 It normal? replace harne IRROR DEFO	ess.	or and groun	nd. uity	
	Is the inspection result YES $>>$ GO TO 2 NO $>>$ Repair or 2. CHECK GROUND 1. Turn ignition switt 2. Check continuity Door mirror Connector D7 Is the inspection result YES $>>$ GO TO 3 NO $>>$ Repair or 3. CHECK DOOR M Check door mirror de Refer to DEF-36, "Co	replace harne O CIRCUIT ch OFF. between door or LH Terminal 9 It normal? replace harne IRROR DEFO fogger LH. mponent Inspe	ess. GGER LH	or and groun	nd. uity	

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident. Refer to <u>GI-41</u>, "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

INFOID:000000012783017

1. CHECK DOOR MIRROR DEFOGGER LH

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

Terr	ninal	Continuity	
3	9	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror LH. Refer to <u>MIR-19, "DOOR MIRROR ASSEMBLY : Removal and Installa-</u> tion".

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS > PASSENGER SIDE DOOR MIRROR DEFOGGER А Description INFOID:000000012783018 Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror В from fogging up. Component Function Check INFOID:000000012783019 1. CHECK DOOR MIRROR DEFOGGER RH Check that the heating wire of door mirror defogger RH is heated when turning the rear window defogger D switch ON. Is the inspection result normal? YES >> Door mirror defogger RH is OK. Е >> Refer to DEF-37, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:000000012783020 Regarding Wiring Diagram information, refer to DEF-20, "Wiring Diagram". 1. CHECK POWER SUPPLY CIRCUIT 1. Turn ignition switch OFF. Н Disconnect door mirror RH. 2. 3. Turn ignition switch ON. 4. Check voltage between door mirror RH connector and ground. (+) Voltage (V) Door mirror RH Condition (-) (Approx.) Connector Terminal ON Battery voltage Rear window de-D106 3 Ground fogger switch Κ OFF 0 Is the inspection result normal? YES >> GO TO 2. DEF NO >> Repair or replace harness. 2. CHECK GROUND CIRCUIT 1. Turn ignition switch OFF. Μ 2. Check continuity between door mirror RH connector and ground. Door mirror RH Ν Continuity Connector Terminal Ground D106 9 Yes Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace harness. Ρ $\mathbf{3}$. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

Check door mirror defogger RH.

Refer to DEF-38, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace door mirror RH. Refer to <u>MIR-19, "DOOR MIRROR ASSEMBLY : Removal and Installa-</u> <u>tion"</u>.

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

INFOID:000000012783021

1. CHECK DOOR MIRROR DEFOGGER RH

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

Terminal		Continuity	
3	9	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace door mirror RH. Refer to <u>MIR-19, "DOOR MIRROR ASSEMBLY : Removal and Installa-</u> tion".

REAR WINDOW DEFOGGER FEEDBACK SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

 REAR WINDOW DEFOGGER FEEDBACK SIGNAL

 Description

 Turns the indicator lamp in the rear window defogger switch ON when operating the rear window defogger.

 Component Function Check

 I.CHECK REAR WINDOW DEFOGGER FEEDBACK SIGNAL

 Check that the indicator lamp of rear window defogger switch is illuminated when turning the rear window defogger switch ON.

 Is the inspection result normal?

 OK >> Rear window defogger feedback signal is OK.

 NG

 > Refer to DEF-39. "Diagnosis Procedure".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-20, "Wiring Diagram".

1.CHECK REAR WINDOW DEFOGGER FEEDBACK SIGNAL

- 1. Turn ignition switch ON.
- 2. Turn rear window defogger switch ON.

3. Check voltage between A/C auto amp. harness connector and ground.

A/C auto amp.			Condition		Voltage (V)	
Connector	Terminal		Condition		(Approx.)	
M29 (without A/C)		Ground		ON	Battery voltage	-
M33 (with manual A/C)	25		Rear window defogger switch	OFF	0	-
M34 (with auto A/C)				UFF	0	_

Is the inspection result normal?

- YES >> Replace A/C auto amp. Refer to <u>HAC-105, "Removal and Installation"</u> (with auto A/C) or <u>HAC-</u> <u>190, "Removal and Installation"</u> (without auto A/C).
- NO >> Repair or replace harness.

DEF

Μ

Ν

Ο

Ρ

А

В

D

Ε

Н

INFOID:000000012783024

SYMPTOM DIAGNOSIS DEFOGGER SYSTEM SYMPTOMS

Symptom Table

INFOID:000000012783025

Symptom	Reference page
Rear window defogger and door mirror defoggers* do not operate.	Refer to <u>DEF-41</u> , "Diagnosis Procedure".
Rear window defogger does not operate but both door mirror defoggers* operate.	Refer to DEF-42, "Diagnosis Procedure".
Both door mirror defoggers* don't operate but rear window defogger operates.	Refer to DEF-43, "Diagnosis Procedure".
Driver side door mirror defogger* does not operate.	Refer to DEF-44, "Diagnosis Procedure".
Passenger side door mirror defogger* does not operate.	Refer to DEF-45, "Diagnosis Procedure".
Rear window defogger switch does not light, but rear window defogger operates.	Refer to DEF-46, "Diagnosis Procedure".

*: if equipped

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OP-ERATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGERS DO NOT OPERATE

Diagnosis Procedure	INFOID:000000012783026	В
1. CHECK REAR WINDOW DEFOGGER SWITCH		D
Check rear window defogger switch. Refer to <u>DEF-30, "Component Function Check"</u> .		С
Is the inspection result normal?		
YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.		D
2. CHECK REAR WINDOW DEFOGGER RELAY		
Check rear window defogger relay. Refer to <u>DEF-32, "Component Function Check"</u> .		Ε
Is the inspection result normal?		
YES >> GO TO 3 . NO >> Repair or replace the malfunctioning parts.		F
3. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT		
Check rear window defogger power supply and ground circuit. Refer to <u>DEF-33, "Component Function Check"</u> .		G
Is the inspection result normal?		Н
 YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>. NO >> Repair or replace the malfunctioning parts. 		

J

Κ

А

Ν

0

Р

REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR MIRROR DEFOGGERS OPERATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER DOES NOT OPERATE BUT BOTH DOOR MIRROR DEFOGGERS OPERATE

Diagnosis Procedure

INFOID:000000012783027

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit. Refer to <u>DEF-33</u>, "Component Function Check".

Is the inspection result normal?

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

NO >> Repair or replace the malfunctioning parts.

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure		INFOID:000000012783028	В
1. CHECK DOOR MIRROR DEFOGGER FU	SE		D
Check if the following fuse in fuse block (J/B)	is blown.		С
COMPONENT PARTS	AMPERE	FUSE NO.	
Fuse block (J/B)	10A	1	D
Is the inspection result normal? YES >> GO TO 2. NO >> Replace the blown fuse after reparation 2. CHECK DOOR MIRROR DEFOGGER PC	•		E
Check door mirror defogger power supply and ground circuit. Refer to <u>DEF-35</u> , "Component Function Check" (driver side) or <u>DEF-37</u> , "Component Function Check" (passenger side). Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.			
 3. CHECK BOTH DOOR MIRROR DEFOGO 1. Check door mirror LH. Refer to <u>DEF-36.</u> 2. Check door mirror RH. Refer to <u>DEF-38.</u> <u>Is the inspection result normal?</u> 	Component Inspection". 'Component Inspection".		H
YES >> Check intermittent incident. Refer NO >> Repair or replace the malfunction		<u>nt"</u> .	J

Κ

DEF

Μ

Ν

Ο

Ρ

А

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:000000012783029

1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-35, "Component Function Check".

Is the inspection result normal?

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

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:000000012783030	
1. CHECK DOOR MIRROR DEFOGGER RH		В
Check door mirror defogger RH. Refer to <u>DEF-37, "Component Function Check"</u> .		
Is the inspection result normal?		С
YES >> Refer to <u>GI-41, "Intermittent Incident"</u> . NO >> Repair or replace the malfunctioning parts.		D
		E

DEF

А

F

G

Н

J

Κ

Μ

Ν

0

Ρ

Revision: December 2015

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

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WIN-DOW DEFOGGER OPERATES

Diagnosis Procedure

INFOID:000000012783031

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check that the rear window defogger switch is operating normally. Is the inspection result normal?

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

NO >> Refer to DEF-39, "Diagnosis Procedure".

< REMOVAL AND INSTALLATION > **REMOVAL AND INSTALLATION** FILAMENT

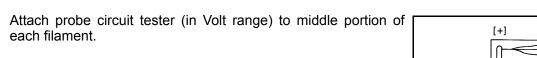
Inspection and Repair

INSPECTION

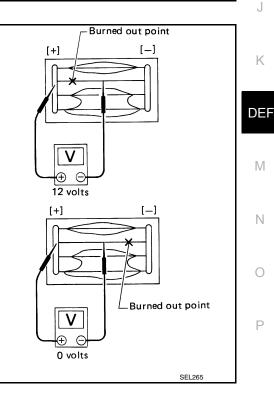
2.

each filament.

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



- 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.

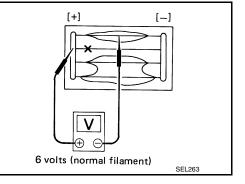


REPAIR

REPAIR EQUIPMENT

Conductive silver composition (Dupont No. 4817 or equivalent)

С - Heat wire Tester probe D Press Ε ∠ Tin foil



А

В

F

Н

INFOID:000000012783032

SEL 122B

FILAMENT

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

REPAIRING PROCEDURE

composition is deposited.

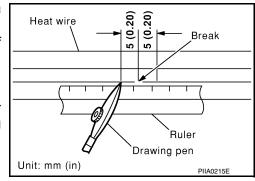
CAUTION:

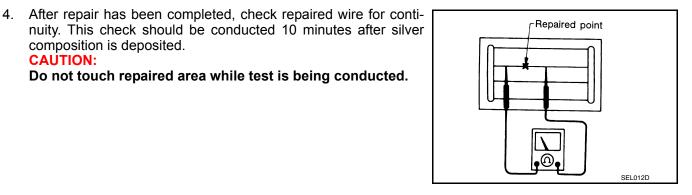
- Wipe broken heat wire and its surrounding area clean with a 1 cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen. NOTE:

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.

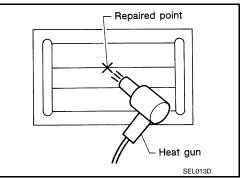
Do not touch repaired area while test is being conducted.





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. NOTE:

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



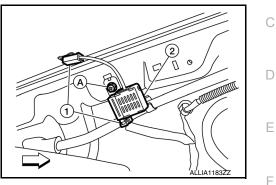
< REMOVAL AND INSTALLATION >

CONDENSER

Removal and Installation

REMOVAL

- 1. Remove the rear pillar finisher. Refer to INT-29, "REAR PILLAR FINISHER : Removal and Installation".
- Disconnect the harness connectors (1), remove the condenser bolt (A) and the condenser (2).
 <⊐: Front



INSTALLATION Installation is in the reverse order of removal.

Μ

Ν

Ο

Ρ

Н

J

Κ

А

В

INFOID:000000012783033