

 D

Е

F

Н

J

K

DEF

M

Ν

0

Р

CONTENTS

PRECAUTION3	DTC
PRECAUTIONS	REA De: Coi Dia
SYSTEM DESCRIPTION4	De
COMPONENT PARTS4Component Parts Location4Component Description5	Col Dia Col
SYSTEM 6 System Diagram 6 System Description 6	PLY De:
DIAGNOSIS SYSTEM (BCM)7	Dia Co
COMMON ITEM	DOC ARO
REAR WINDOW DEFOGGER8 REAR WINDOW DEFOGGER : CONSULT Function (BCM - REAR DEFOGGER)8	Col Dia Col
ECU DIAGNOSIS INFORMATION9	DOC
BCM 9 List of ECU Reference	ARC De: Coi
WIRING DIAGRAM10	Dia Co
REAR WINDOW DEFOGGER SYSTEM10 Wiring Diagram10	DOC
BASIC INSPECTION23	De: Co
DIAGNOSIS AND REPAIR WORK FLOW23 Work Flow23	Dia Co

DTC/CIRCUIT DIAGNOSIS	
REAR WINDOW DEFOGGER SWITCH	
Description Component Function Check	26
Diagnosis Procedure	
REAR WINDOW DEFOGGER RELAY	31
Description	31
Component Function Check	31
Diagnosis Procedure	
Component Inspection	
REAR WINDOW DEFOGGER POWER SUP-	
PLY AND GROUND CIRCUIT	
Description Component Function Check	33
Diagnosis Procedure	
Component Inspection	
DOOR MIDDOR DEFOCCED LIL (MITHOUT	
DOOR MIRROR DEFOGGER LA (WITHOUT	
DOOR MIRROR DEFOGGER LH (WITHOUT AROUND VIEW MONITOR)	
AROUND VIEW MONITOR) Description	35 35
AROUND VIEW MONITOR) Description Component Function Check	35 35
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure	35 35 35
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection	35 35 35
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH	35 35 35 35 36
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR)	35 35 35 36
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR) Description	35 35 35 36 36
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure	35 35 35 36 37 37
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR) Description Component Function Check	35 35 35 36 37 37
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection	35 35 35 36 37 37 37
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER RH (WITHOUT AROUND VIEW MONITOR)	35 35 36 37 37 37 37
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER RH (WITHOUT AROUND VIEW MONITOR) Description Description	35 35 35 36 37 37 37 37 37
AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR) Description Component Function Check Diagnosis Procedure Component Inspection DOOR MIRROR DEFOGGER RH (WITHOUT AROUND VIEW MONITOR)	35 35 35 36 37 37 37 37 39 39

DOOR MIRROR DEFOGGER RH (WITH	Diagnosis Procedure	46
AROUND VIEW MONITOR)41	DRIVER SIDE DOOR MIRROR DEFOGGER	
Description41		40
Component Function Check41	DOES NOT OPERATE.	
Diagnosis Procedure41	Diagnosis Procedure	48
Component Inspection 42	PASSENGER SIDE DOOR MIRROR DEFOG	-
SYMPTOM DIAGNOSIS43	GER DOES NOT OPERATE	49
	Diagnosis Procedure	49
DEFOGGER SYSTEM SYMPTOMS43		
Symptom Table43	REAR WINDOW DEFOGGER SWITCH DOES NOT LIGHT, BUT REAR WINDOW DEFOG-	i
REAR WINDOW DEFOGGER AND DOOR	GER OPERATES	50
MIRROR DEFOGGER DO NOT OPERATE 44	Diagnosis Procedure	
Diagnosis Procedure44	REMOVAL AND INSTALLATION	-4
REAR WINDOW DEFOGGER DOES NOT	REMOVAL AND INSTALLATION	51
OPERATE BUT BOTH OF DOOR MIRROR	FILAMENT	51
	Inspection and Repair	
DEFOGGER OPERATE45	mopodion and repair	0 .
Diagnosis Procedure45	CONDENSER	53
BOTH DOORS MIRROR DEFOGGER DON'T	Removal and Installation	53
OPERATE BUT REAR WINDOW DEFOG-		
GER OPERATES46		

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRF-TFNSIONER"

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, 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 Baq Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

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

Handling for Adhesive and Primer

- Do not use an adhesive which is past its usable date. Shelf life of this product is limited to six months after the date of manufacture. Carefully adhere to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Open the seal of the primer and adhesive just before application. Discard the remainder.
- Before application, be sure to shake the primer container to stir the contents. If any floating material is found, do not use it.
- If any primer or adhesive contacts the skin, wipe it off with gasoline or equivalent and wash the skin with
- When using primer and adhesive, always observe the precautions in the instruction manual.

DEF

K

INFOID:0000000011151608

Α

В

D

Е

N

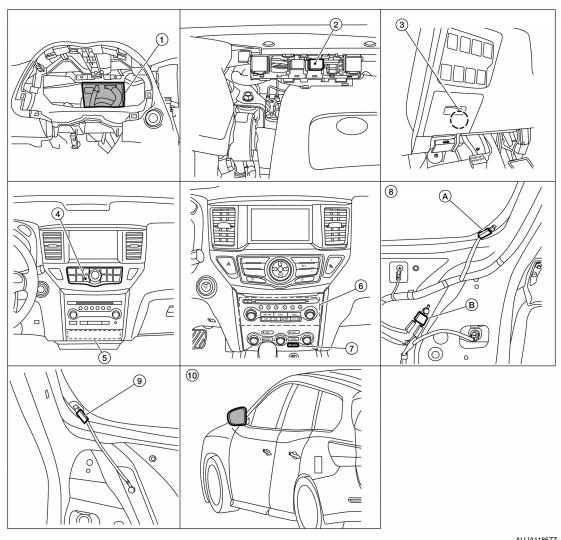
Р

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000011151609



ALLIA1186ZZ

- BCM (view with instrument panel removed)
- A/C switch assembly (rear window de- 5. fogger switch) (with base audio system)
- A/C and AV switch assembly (rear win- 8. dow defogger switch) (except base audio system)
- 10. Door mirror LH (door mirror defogger) (RH similar)

- Accessory relay-2
- A/C auto amp.
- A. Rear window defogger power connector
 - B. Rear window defogger condenser (view with back door lower finisher removed)
- Fuse block (J/B) (Rear window defogger relay)
- AV control unit
- Rear window defogger ground connector (view with back door lower finisher removed)

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Component Description

INFOID:0000000011151610

Component	Description
AV control unit ²	AV control unit transmits A/C switch operation signal to the BCM via CAN communication line.
ВСМ	 Operates the rear window defogger relay with the operation of rear window defogger switch. Performs the timer control of rear window defogger.
A/C auto amp ¹	 Transmits rear window defogger switch ON signal to the BCM. Turns the indicator lamp ON when detecting the operation of rear window defogger.
Rear window defogger relay	Operates the rear window defogger and the door mirror defogger with the control signal from BCM.
A/C switch assembly ¹ (rear window defogger switch)	 Transmits rear window defogger switch ON signal. Turns the indicator lamp ON when detecting the operation of rear window defogger.
A/C and AV switch assembly ² (rear window defogger switch)	 Transmits rear window defogger switch ON signal. Turns the indicator lamp ON when detecting the operation of rear window defogger.
Rear window defogger	Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.
Door mirror defogger ³	Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.

^{1:} With base audio system

В

Α

D

С

Е

F

G

Н

. 1

Κ

DEF

 \mathbb{N}

Ν

0

Р

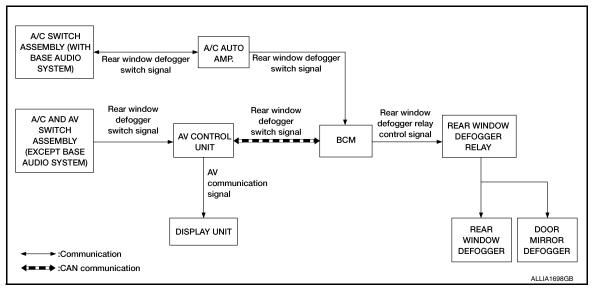
^{2:} Except base audio system

^{3:} With heated mirrors

SYSTEM

System Diagram

INFOID:0000000011151611



System Description

INFOID:0000000011151612

Operation Description

- When rear window defogger switch is turned ON while ignition switch is ON, the rear window defogger switch signal is transmitted to the BCM.
- BCM turns rear window defogger 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 turns ON.
- Rear window defogger ON is displayed when signal is received.
- For vehicles with base audio system, A/C auto amp. transmits rear window defogger control signal to A/C switch assembly when rear window defogger operates.
- For vehicles without base audio system, BCM transmits rear window defogger control signal to AV control unit and A/C and AV switch assembly via CAN communication when rear window defogger operates.

Timer function

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

INPUT/OUTPUT SIGNAL CHART

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011596545

Α

В

D

Е

F

Н

K

DEF

Ν

0

Р

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

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.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
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.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct D	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	ВСМ	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				

Revision: September 2014 DEF-7 2015 Pathfinder

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

				Direct [Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

REAR WINDOW DEFOGGER

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

INFOID:0000000011596546

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF \rightarrow ON (for at least 5 seconds) \rightarrow OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and no-start condition.

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].

WORK SUPPORT

Support Item	Setting	Description
	MODE3	Rear defogger turns OFF after 1 minute.
SET R-DEF TIMER	MODE2	Rear defogger remains ON until turned OFF.
	MODE1*	Rear defogger turns OFF after 15 minutes.

^{*:} Initial setting

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

ECU	Reference
	BCS-30, "Reference Value"
BCM	BCS-50, "Fail Safe"
BCIVI	BCS-50, "DTC Inspection Priority Chart"
	BCS-52, "DTC Index"

Е

Α

В

С

 D

INFOID:0000000011151615

F

G

Н

J

Κ

DEF

 \mathbb{N}

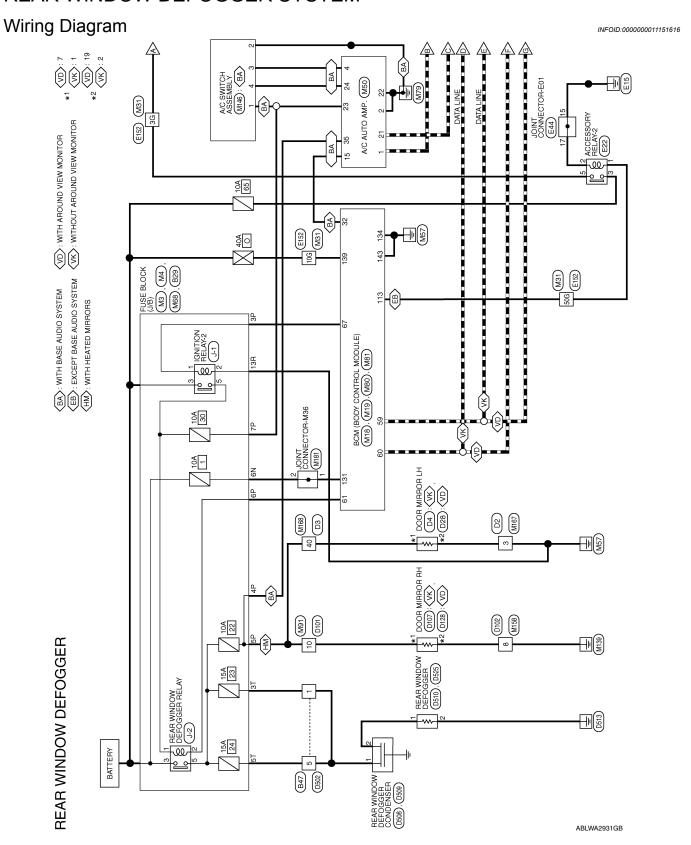
Ν

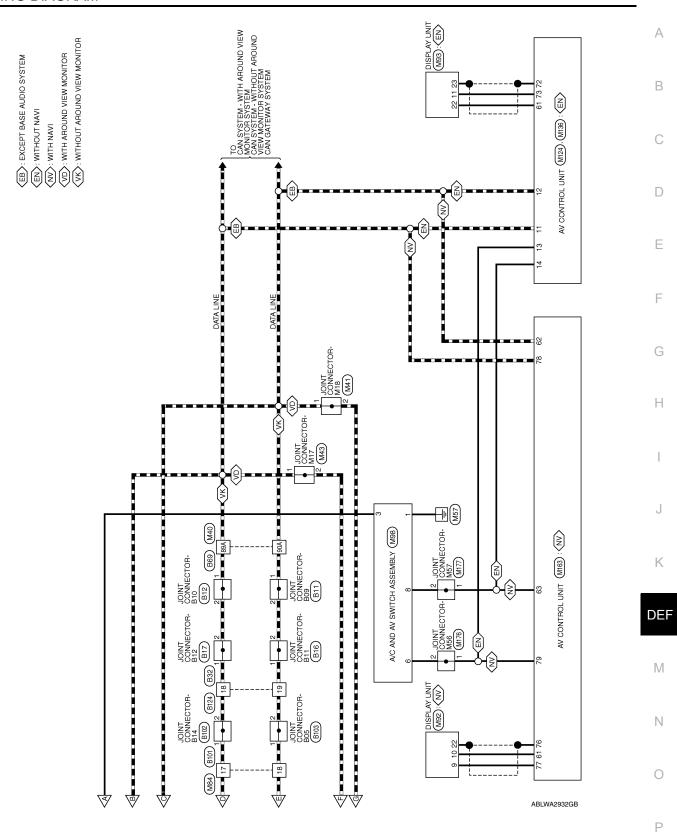
0

Р

WIRING DIAGRAM

REAR WINDOW DEFOGGER SYSTEM



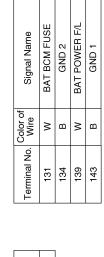


20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 40 39 39 35 36 35 34 33 31 30 29 28 27 26 25 24 23 22 21 BCM (BODY CONTROL MODULE) RR DEF SW Signal Name Signal Name Connector Color | GREEN M18 Color of Wire α ≥ Ф Connector Name Connector No. Terminal No. Terminal No. 10G 39 50G 32 H.S. 6 71G72G73G74G75G77G77G78G79G80G81G 82G83G84G85G86G87G88G89G90G 31G32G33G34G35G38G37G38G39G40G41G 42G43G44G45G48G47G48G49G50G 51952953954955956957958959960919 62963964965966979889699 | 11G | 12G | 13G | 14G | 17G | 18G | 19G | 20G | 21G | 22G | 23G | 24G | 25G 16 26 36 46 56 66 76 86 96 106 91G 92G 93G 94G 95G 96G 97G 98G 99G100G Signal Name Connector Name | FUSE BLOCK (J/B) Connector Name WIRE TO WIRE Connector Color WHITE Connector Color | WHITE Color of Wire Α ГG 띪 BG ŋ Q Connector No. Connector No. Terminal No. 3Р 4**P** 5P 9 7 REAR WINDOW DEFOGGER CONNECTORS H.S. E 僵 52 51 50 49 48 47 46 45 44 43 42 41 72 71 70 69 68 67 66 65 64 63 62 61 IGN ELEC RELAY OUT 2 REAR DEFOGGER RELAY OUT BCM (BODY CONTROL MODULE) Signal Name Signal Name CAN-H CAN-L Connector Name FUSE BLOCK (J/B) Connector Color | WHITE Color of Wire МЗ Color of Wire 60 59 58 57 56 55 54 53 80 79 78 77 76 75 74 73 BG Q ≥ ۵ Connector Name Connector Color Connector No. Connector No. Terminal No. Terminal No. N9 65 59 61 67 E 偃 ABLIA5054GB

STOR-M18				Signal Name	1	ı					Signal Name	CAN-H	GND	FR/TX	RR DEF SW	CAN-L	GND (POWER)	IGN	FR/RX	TH DEF F/B				
JOINT CONNEC	旦		4 3 2 1								Signa	CA	ō	H	RR D	CA	GND (F)		T T				
Jame JOIN	Color WHI		4 3	Color of Wire	۵	۵					Color of	2 _	GR	8	ч	۵	GR	LG	ص <u>:</u>	5				
Connector Name JOINT CONNECTOR-M18	Connector Color WHITE		H.S.	Terminal No.	-	2					Terminal No.	-	2	4	15	21	22	23	24	32				
													_				19 20	2						
olgilai Naille																	12 13 14 15 16 17 18 19 20 32 33 34 35 36 37 38 39 40	20 20 20 20 20 20 20 20 20 20 20 20 20 2						
oigilai	•	'										A/C AUTO AMP.	ш				3 10	3						
. Wire	_	۵											OIOL WHILE			Ц	8 8	2 2 2 2 2						
	89A	90A									Connector No.	Connector Name	Cornector Color		S.		1 2 3 4 5 6 7 21 22 23 24 25 26 27	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
		7																						
O WIRE			1A 2A 3A 4A 5A 6A 70A 70A	114 124 134 144 154 164 174 184 199 204 214	25A 26A 27A 28A 29A 30A	31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A 42A 43A 44A 45A 46A 47A 48A 49A 50A	51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A 62A 63A 64A 65A 66A 67A 68A 69A 70A	71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A 82A 83A 83A 83A 83A 88A 88A 89A 90A	014	96A 97A 98A 99A100A		Connector Name JOINT CONNECTOR-M17			2 1 🔲					Signal Name	I	ı		
me WIRE T	lor GRAY	-	14	11A 12A 13A 14A	22A 23A 24A	31A 32A 33A 34A 42A 43A 44A	51A 52A 53A 54A 62A 63A 64A	71A 72A 73A 74A 82A 83A 84A	46	98	. M43	me JOINT (IOF WHILE		4 3 2				Color of	Wire				
Connector Name WIRE TO WIRE	Connector Color		H.S.								Connector No.	Connector Na	Connector Color		S					Terminal No.	-	2		
		-											_			-				AB	LIA7	115GI	3	

M81	Connector Name BCM (BODY CONTROL MODULE)	WHITE
Connector No.	Connector Name	Connector Color WHITE





ACC RELAY OUT

Signal Name

Color of Wire

Terminal No.

Signal Name

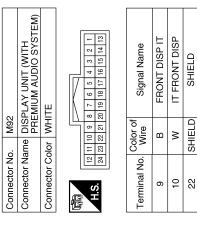
Color of Wire GR

Terminal No.

13R

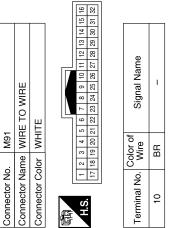
113



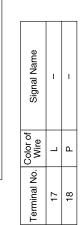


SHIELD

SHIELD



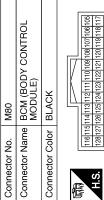
onnector No.	M84
onnector Name	onnector Name WIRE TO WIRE
onnector Color WHITE	WHITE



VOV
Old rotongo

Connector No.	M84
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE

Connector Name WIBE TO WIBE										
1	2	>	Ħ	ш						
Connector Color WHITE	ш									
			- I	IV.	П					
16 15 14 13 12 11 10 9	ΙΞ	10	6	8	7	u,	4	က	2	-
2 31 30 29 28	27	56	52	24	3 2	2	20	19	18	17
5 15 14 13 12 2 31 30 29 28	= 2		29 10	10 9 25 25	10 9 8	10 9 8 7 6 26 25 24 23 23	10 9 8 7 6 5 26 25 24 23 22 21	10 9 8 7 6 5 4 26 25 24 23 22 21 20	10 9 8 7 6 5 4 3 26 25 24 23 22 21 20 19	8 7 6 5 24 23 22 21



)	· BLA(16115114113	28 127 126 125
	Connector Color	11611	H.S.



Connector No.	89W
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color BROWN	BROWN
ū	
	7R 6R 5R 4R (3R 2R 1R
H.S.	I 6R 15R 14R 13R 12R 11R 10R 9R 8R



ABLIA7116GB

REAR WINDOW DEFOGGER SYSTEM

Α

В

С

D

Е

F

G

Н

Κ

DEF

M

Ν

0

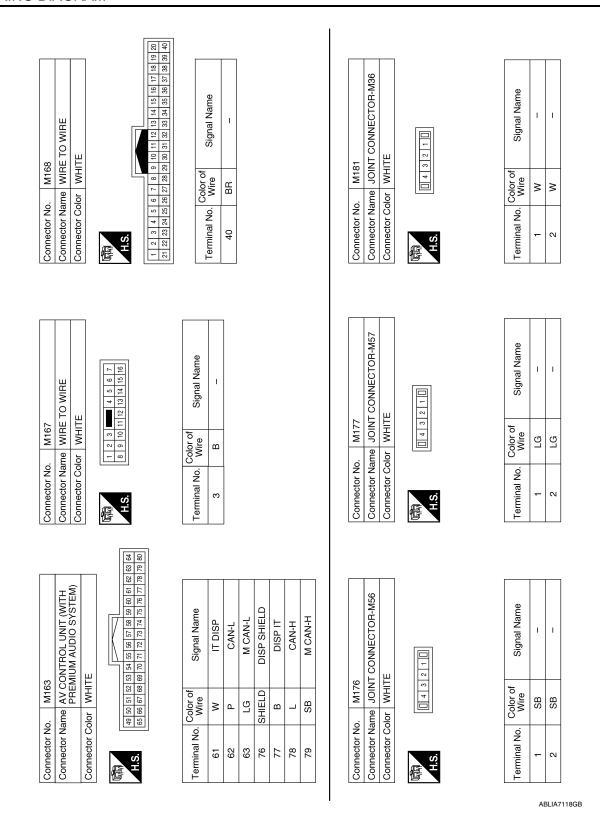
Р

ABLIA7117GB

< WIRING DIAGRAM >

Connector No. M136 Connector No. M146 Connector Name AV CONTROL UNIT (WITH AND CONNECTOR CONNECTOR NAME AV CONTROL UNIT (WITH CONNECTOR COLOR WHITE	
B DISPIT	и Ф
SHIELD DISP SHIELD 2	
W COUNTY	

Revision: September 2014 DEF-15 2015 Pathfinder



Revision: September 2014 DEF-16 2015 Pathfinder

								Connector No. B11	Connector Name JOINT CONNECTOR-B09			H.S. [043210]		Terminal No. Color of Signal Name Wire		- С					
								Cor	<u>S</u>	3	E			Теп							
TOR-E01		3 2 1 14 13 12	25 24 23		Signal Name			Signal Name		1											
Connector No. E44 Connector Name JOINT CONNECTOR-E01	WHITE	9 8 7 6 5 4 3 2 1 20 19 18 17 16 15 14 13 12	33 32 31 30 29 28 27 26 25 24 23																		
or No. E44	_	22 21 20 1	33 32 31 3		No. Color of Wire	GB	В	No. Color of	_	<u>a</u>	g	_									
Connector No.	Connector Color	H.S.			Terminal No.	15	17	Terminal No.	36	10G	50G										
											F										
E22 ACCESSORY RELAY-2		1	Signal Name	ı	I	1	1		TO WIRE			56 46 36 26 16 106 96 86 76 66	21G 20G 19G 17G 16G 15G 14G 13G 12G 11G 30G 29G 28G 27G 26G 25G 24G 23G 22G	416406396386376366356346336326316	50G 49G 48G 47G 46G 45G 44G 43G 42G	61.0 60.0 59.0 58.0 57.0 56.0 55.0 54.0 53.0 52.0 51.0 70.0 69.0 68.0 67.0 66.0 65.0 64.0 63.0 62.0	81 G80 G 79 G 78 G 77 G 78 G 75 G 74 G 73 G 72 G 71 G 90 G 89 G 89 G 87 G 85 G 84 G 83 G 82 G	95G 94G 93G 92G 91G	100G 99G 98G 97G 96G		
	olor BLUE		Color of Wire	g	В	Ж	۵.	o. E152	ame WIRE	OIOI WHILE		98 106	21G20G19G	416406396	50G 49G	61G60G59G	81G80G79G	98(<u></u>		
Connector No.	Connector Color	H.S.	Terminal No.	-	2	ဧ	2	Connector No.	Connector Name WIRE TO WIRE	Collinector CC		H.S.									
											_	_						ABLI	A7119GE	3	

REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >

		1	
	Connector Name JOINT CONNECTOR-B12 Connector Color WHITE	1 Z	Signal Name –
B17	NIOU PI	4 8	Solor of Wire
Connector No.	Connector Name JOINT C	(中) H.S.	Terminal No. Color of Wire 1 L 2 L
		1	
	Connector Name JOINT CONNECTOR-B11 Connector Color WHITE	2 1	Signal Name
B16	r WHIT	4 3	Color of Wire P
Connector No.	Connector Name JOINT (H.S.	Terminal No. C
	CONNECTOR-B10	- Z	Signal Name
B12	or JOINT	4 3 2	Color of Wire L
Connector No.	Connector Name JOINT CONNECTOR Connector Color WHITE	H.S.	Terminal No. C

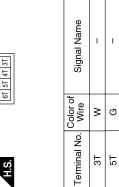
	E TO WIRE	\t	6 2 3 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Signal Name	1
. B47	me WIR	or GR/	<u>-</u> ω	Color of Wire	M
Connector No. B47	Connector Name WIRE TO WIRE	Connector Color GRAY	(H.S.	Terminal No. Wire	1
			2 1 181 17		
	TO WIRE	Ш	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 20 19 18 17 20 13 2 1	Signal Name	I
B32	ne WIRE	or WHIT	22 31 30 29 28 27	Color of Wire	Т
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	(H.S.	Terminal No. Color of Wire	18
			1		

മ

2

℩

19

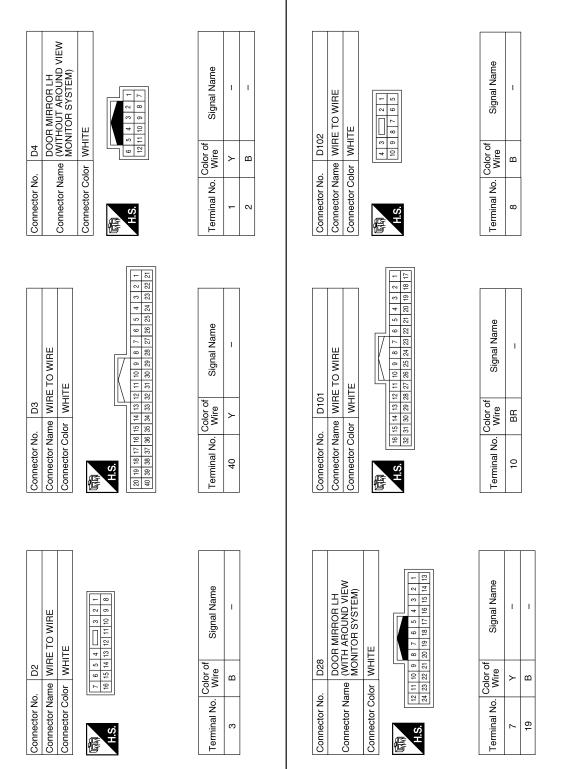


ABLIA7120GB

Connector No. B29
Connector Name FUSE BLOCK (J/B)

Connector Color WHITE

Connector No.	Connector No. B69 Connector Name WIRE TO WIRE			Terminal No.	o. Wire	Signal Name		Connector No.	Connector No. B101 Connector Name WIRE TO WIRE	TO WIRE		
Connector Color	GRAY			89A	_	I		Connector (Connector Color WHITE	 щ		
				90A	<u></u>	I						
E.S.	5A 4A 3A 2A 1A 10A 9A 8A 7A 6A	A A						H.S.	1 2 3 4 5 17 18 19 20 21	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 21 22 23 24 25 25 27 28 29 30 31 32 30 31 32 33 34 34 34 34 34 34	11 12 13 14 15 27 28 29 30 31	32 16
2142	214 204 194 188 174 168 158 144 138 128 118 304 298 298 298 298 298 298 298 298 298 298	14A 13A 12A 11A 24A 23A 22A						E C	Color of	O Constitution of the cons		
4184	41A 40A 39A 38A 37A 36A 35A 34A 33A 32A 31A	34A33A32A31A						17		0.00 kg	0	
	50A 49A 48A 47A 46A 45A	44A 43A 42A						18	ı <u>a</u>			
3848	1704 694 694 674 694 695 694 694 695	64A 63A 62A 74A 73A 72A 71A										
	90A 89A 88A 87A 86A 85A	84A 83A 82A										
	95A 94A 93A 92A 91A 100A 99A 98A 97A 96A	1A 6A										
Connector No.	B102			Connector No.	No. B103			Connector No.	Jo. B124			
Connector Name	Connector Name JOINT CONNECTOR-B14	TOR-B14		Connector Name		JOINT CONNECTOR-B05	5	Connector	<u>e</u>	TO WIRE		
Connector Color	WHITE			Connector Color	Color WHITE	TE		Connector Color	Solor WHITE	ш		
是 S.H				是 H.S.	4	[4 3 2 1 [明.S.H.S.				
								4	6 8 9	10 11 12 13 14 15 16	15 16	
								07.	21 22 23 24 25	20 27 28 29 30	31 32	
Terminal No. W	Color of Signa Wire	Signal Name		Terminal No.	o. Wire	Signal Name		Terminal No.	Color of Wire	Signal Name	Name	
-	7			-	۵	ı		18	_			
Οl A7111				2	۵	ı		19	۵	I		
DGB												
	ı									(
N O	M)EF	K	J		G H	F	Е	D	С	В	



ABLIA7111GB

REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >

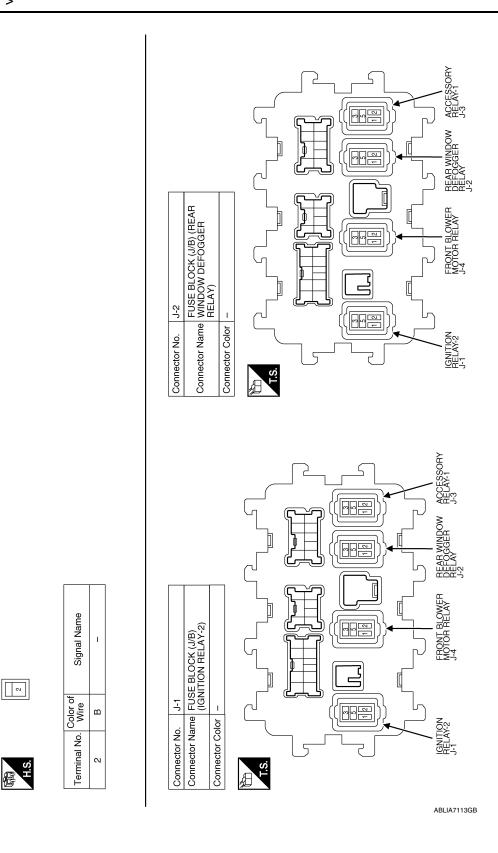
3E	Signal Name	MO	Signal Name	
Connector Name WIRE TO WIRE Connector Color GRAY H.S. # 3 2 1 # 3 2 1 # 3 2 1	Color of Wire Sic	Connector No. D510 Connector Name REAR WINDOW DEFOGGER Connector Color BLACK	Color of Wire Sig	
or Color	OS OS	Connector No. Connector Color Connector Color	<u>0</u>	
Connector Name Connector Color	Terminal No.	Connector No. Connector Cold	Terminal No.	
DOOR MIRROR RH (WITH AROUND VIEW MONITOR SYSTEM) WHITE 8 7 6 5 4 3 2 1 9 8 7 6 5 4 1 9 9 9 9 9 9 1 16 15 14 13	Signal Name	D509 REAR WINDOW BLACK	Signal Name	
 	Color of Wire BR		Color of Wire G	
Connector Name Connector Color II		Connector No. Connector Name Connector Color		
Connec	Terminal No.	Connec Connec H.S.	Terminal No.	
DOOR MIRROR RH (WITHOUT AROUND VIEW MONITOR SYSTEM) WHITE	Signal Name	D508 REAR WINDOW BEFOGGER CONDENSER BLACK	Signal Name	
MONITC WHITE WHITE	Color of Wire BR BR	I — — — — — — — — — — — — — — — — — — —	Color of Wire R	
Connector Name Connector Color	O N	Connector No. Connector Name Connector Color		
Connect Connect	Terminal No.	Connector No. Connector Col	Terminal No.	
			ABLIA7112GB	

Connector Name REAR WINDOW DEFOGGER BLACK

Connector Color

D525

Connector No.



< BASIC INSPECTION > **BASIC INSPECTION** Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:0000000011151617 В **OVERALL SEQUENCE** Inspection start D 1. Get information for symptom Get the detailed information about symptom from the customer. Е 2. Check DTC Symptom is described. Symptom is not described. Symptom is described. DTC is detected. DTC is detected. DTC is not detected. 3. Confirm the symptom 4. Confirm the symptom Н Confirm the symptom described by the Confirm the symptom described by the customer. customer. 5. Perform DTC Confirmation Procedure 6. Detect malfunctioning system by **SYMPTOM DIAGNOSIS** K 7. Detect malfunctioning part by Diagnostic **Procedure** DEF 8. Repair or replace the malfunctioning part Ν NG 9. Final check NG (DTC is detected.) (Symptom remains.) Check that the symptom is not detected. Perform DTC Confirmation Procedure again, and then check that the malfunction can be repaired securely.

JMKIA2270GB

Р

OK

INSPECTION END

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2. CHECK DTC

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

Is any symptom described and any DTC detected?

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

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

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

$oldsymbol{3}.$ CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

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

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

>> GO TO 6.

PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.

At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time.

If two or more DTCs are detected, refer to <u>BCS-50, "DTC Inspection Priority Chart"</u> and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.

NO >> Refer to GI-47, "Intermittent Incident".

$oldsymbol{6}$. 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 7.

7. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

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

Is malfunctioning part detected?

YES >> GO TO 8.

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

f 8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

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

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

Does the symptom reappear?

YES (DTC is detected)>>GO TO 7.

YES (Symptom remains)>>GO TO 6.

NO >> Inspection End.

DEF

K

Α

В

D

Е

Н

IVI

Ν

0

Р

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Description INFOID:000000011151618

- 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:0000000011151619

1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

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

YES >> Rear window defogger switch function is OK.

NO >> Refer to <u>DEF-26</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000011151620

Regarding Wiring Diagram information, refer to <u>DEF-10, "Wiring Diagram"</u>.

BASE AUDIO SYSTEM

1. CHECK REAR WINDOW DEFOGGER RELAY OPERATION

- 1. Push the ignition switch to ON.
- 2. Check that an operation noise of rear window defogger relay [located in fuse block (J/B)] can be heard when pressing the rear window defogger switch ON and OFF.

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 5.

2.CHECK FUSE

Check if Fuse 22 from the rear window defogger relay output is blown.

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 3.

${f 3}.$ CHECK FOR VOLTAGE FROM THE REAR WINDOW DEFOGGER RELAY

- Press rear window defogger switch.
- 2. Check for voltage between fuse block (J/B) connector and ground.

(+) Fuse block	(J/B)	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(44.0)
M4	4P	Ground	Rear window de-	ON	Battery voltage
1014	417	Ground	fogger switch	OFF	0

Is the inspection result normal?

YES >> GO TO 4.

NO >> Perform rear window defogger relay diagnosis. Refer to <u>DEF-31</u>, "<u>Diagnosis Procedure</u>".

4. CHECK REAR WINDOW DEFOGGER SWITCH INDICATOR CIRCUIT

- 1. Press rear window defogger switch.
- Check for voltage between A/C auto amp. connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

(+) A/C auto a	amp.	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				, , ,
M50	35	Ground	Rear window de-	ON	Battery voltage
	33	Ground	fogger switch	OFF	0

Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to HAC-156, "Removal and Installation".

NO >> Repair or replace harness.

${f 5.}$ CHECK A/C AUTO AMP. (REAR WINDOW DEFOGGER SWITCH) FUNCTION

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

Monitor Item	Con	dition	status
REAR DEF SW	Rear window defogger	Pressed	On
INLAIN DEI 3W	switch	Released	Off

Is the inspection result normal?

>> GO TO 8. YES

NO >> GO TO 6.

$oldsymbol{6}$. CHECK REAR WINDOW DEFOGGER ON SIGNAL CIRCUIT

Check voltage between BCM connector and ground.

(+) BCM		(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				,
M18	32	Ground	Rear window de-	ON	0
WITO	32	Oround	fogger switch	OFF	5

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> GO TO 7.

7. CHECK HARNESS CONTINUITY

- 1. Push ignition switch to OFF.
- 2. Disconnect BCM and A/C auto amp.
- Check continuity between BCM connector and A/C auto amp.

BCM	1	A/C auto a	amp.	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M18	32	M50	15	Yes

Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M18	32		No

Is the inspection result normal?

YES >> Replace A/C auto amp. Refer to <u>HAC-156</u>, "Removal and Installation".

NO >> Repair or replace harness.

8. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

DEF-27 Revision: September 2014 2015 Pathfinder DEF

K

Α

В

D

Е

Ν

Р

< DTC/CIRCUIT DIAGNOSIS >

CONSULT

- Select BCM (REAR DEFOGGER) ACTIVE TEST.
- Turn REAR DEFOGGER active test ON and OFF.
- Check voltage between fuse block (J/B) connector and ground.

(+) Fuse block	(J/B)	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				(444)
M4	6P	Ground	Rear window de-	ON	0
IVI 4	OF-	Ground	fogger active test	OFF	Battery voltage

Is the inspection result normal?

YES >> GO TO 11.

NO >> GO TO 9.

9. CHECK REAR WINDOW DEFOGGER RELAY CIRCUIT

Check voltage between fuse block (J/B) connector and ground.

(+)) / H
Fuse block	(J/B)	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				, , ,
M4	6P	Ground	Rear window de-	ON	0
1017	OI .	Oround	fogger switch	OFF	Battery voltage

Is the inspection result normal?

YES >> Replace rear window defogger relay.

NO >> GO TO 10.

10. CHECK HARNESS CONTINUITY

- 1. Push ignition switch to OFF.
- 2. Disconnect BCM and fuse block (J/B).
- 3. Check continuity between BCM connector and fuse block (J/B) connector.

BCM		Fuse block	(J/B)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	61	M4	6P	Yes

4. Check continuity between fuse block (J/B) connector M4 terminal 6P and ground.

Fuse block	(J/B)		Continuity
Connector	Terminal	Ground	Continuity
M4	6P		No

Is the inspection result normal?

YES >> Perform rear window defogger relay component inspection. Refer to <u>DEF-32</u>, "Component <u>Inspection"</u>. If OK, replace BCM. Refer to <u>BCS-80</u>, "Removal and Installation".

NO >> Repair or replace harness.

11. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-32, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 12.

NO >> Replace rear window defogger relay.

12. CHECK INTERMITTENT INCIDENT

< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident.

Refer to GI-47, "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.

EXCEPT BASE AUDIO SYSTEM

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

Operate the rear window defogger switch.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 2.

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

- Turn ignition switch ACC.
- 2. Check voltage between A/C and AV switch assembly harness connector M98 terminal 3 and ground.

(+) A/C and AV switch	ch assembly	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(
M98	3	Ground	Ignition switch		Battery voltage
WISO	3	Ground	ignition switch	OFF	0

Is the inspection result normal?

YES >> Replace A/C and AV switch assembly. Refer to HAC-154, "Removal and Installation - With Navigation".

NO >> GO TO 3.

3. CHECK A/C AND AV SWITCH ASSEMBLY (REAR WINDOW DEFOGGER SWITCH) CIRCUIT FOR OPEN

- Turn ignition switch OFF.
- Disconnect accessory relay-2 connector E22.
- Disconnect A/C and AV switch assembly connector M98. 3.
- 4. Check continuity between A/C and AV switch assembly connector M98 terminal 3 and accessory relay-2 connector E22 terminal 5.

A/C and AV swit	A/C and AV switch assembly		Accessory relay-2	
Connector	Terminal	Connector	Terminal	Continuity
M98	3	E22	5	Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair and replace harness.

 $4.\;$ check a/c and av switch assembly (rear window defogger switch) circuit for SHORT

Turn ignition switch OFF.

Revision: September 2014

- Disconnect accessory relay-2 connector E22. 2.
- 3. Disconnect A/C and AV switch assembly connector M98.
- 4. Check continuity between A/C and AV switch assembly connector M98 terminal 3 and ground.

A/C and AV switc	h assembly		Continuity	
Connector	Connector Terminal		Continuity	
M98	3		No	

Α

В

D

Е

Н

K

DEF

Ν 0 Р

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Check the following:

- Accessory relay-2.
 Battery power supply circuit.
 Repair or replace harness. NO

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description INFOID:0000000011151627

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

Component Function Check

1. CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

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

Is the inspection result normal?

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

NO >> Refer to <u>DEF-31, "Diagnosis Procedure"</u>.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

- 1. Turn ignition switch ON.
- Check voltage between BCM connector and ground.

(+) BCM	1	(–)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(* .pp. 6/4)
M19	61	Ground	Rear window defogger ON		0
IVITS	01	Ground	switch	OFF	Battery voltage

Is the inspection result normal?

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

NO >> GO TO 2.

2. CHECK HARNESS CONTINUITY

- Turn ignition switch OFF.
- Disconnect BCM and fuse block (J/B).
- 3. Check continuity between BCM connector and fuse block (J/B) connector.

BCM		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	61	M4	6P	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3.\,$ CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to DEF-32, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-47, "Intermittent Incident"

NO >> Replace rear window defogger relay.

DEF

K

Α

В

D

Е

Н

INFOID:0000000011151622

INFOID:0000000011151623

IVI

N

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

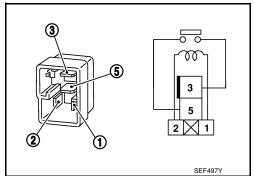
Component Inspection

INFOID:0000000011151624

1. CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

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



Is the inspection result normal?

YES >> Inspection End.

NO >> Replace rear window defogger relay.

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Description INFOID:0000000011151625

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:0000000011151626

Α

D

Е

1. CHECK REAR WINDOW DEFOGGER

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

Is the inspection result normal?

YES >> Rear window defogger is OK.

NO >> Refer to <u>DEF-33, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000011151627

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK FUSES

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

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (I/R)	15A	23
Fuse block (J/B)	15A	24

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 POWER SUPPLY CIRCUIT

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

(+) Rear window	defogger	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
D510	1	Ground	Rear window defogger	ON	Battery voltage
	I	Giodila	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3. CHECK GROUND CIRCUIT

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

Rear window defogge		Continuity	
Connector	Connector Terminal		Continuity
D525	2		Yes

Revision: September 2014 DEF-33 2015 Pathfinder

DEF

K

M

Ν

F

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

4. CHECK HARNESS CONTINUITY 1

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

Rear window defogger con- denser		Rear window defogger		Continuity
Connector	Terminal	Connector	Terminal	
D509	2	D510	1	Yes

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace or repair harness.

5. CHECK HARNESS CONTINUITY 2

- Disconnect fuse block (J/B).
- 2. Check continuity between fuse block (J/B) connector and rear window defogger condenser connector.

Fuse block (J/B)		Rear window defogger con- denser		Continuity
Connector	Terminal	Connector	Terminal	
B29	3T	D508	1	Yes
529	5T	D300	'	163

Is the inspection result normal?

YES >> Replace rear window defogger condenser.

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-47, "Intermittent Incident".

NO >> Repair filament. Refer to <u>DEF-51</u>, "Inspection and Repair".

Component Inspection

INFOID:0000000011151628

1. CHECK FILAMENT

Check the filament for damage or open circuits.

Refer to DEF-51, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair filament. Refer to DEF-51, "Inspection and Repair".

DOOR MIRROR DEFOGGER LH (WITHOUT AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER LH (WITHOUT AROUND VIEW MONITOR)

Description INFOID:0000000011151629

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

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?

>> Door mirror defogger is OK.

>> Refer to DEF-35, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

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.

${f 2}.$ CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

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

(+	-)				
Door mirror LH		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(* 155.0711)
D4 1 Ground	Rear window defogger	ON	Battery voltage		
	Giodila	switch	OFF	0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3.\,$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror LH connector and ground.

Door mirror LH		Continuity	
Connector	Terminal	Ground	Continuity
D4	2		Yes

Is the inspection result normal?

DEF-35 Revision: September 2014 2015 Pathfinder DEF

K

Α

D

Е

Н

INFOID:0000000011151630

INFOID:0000000011151631

N

Р

DOOR MIRROR DEFOGGER LH (WITHOUT AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-36, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-17, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-47, "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:0000000011151632

1. CHECK DOOR MIRROR DEFOGGER

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

Terminal		Continuity	
1	2	Yes	

Is the inspection result normal?

YES >> Check the condition of the harness and the connector.

NO >> Replace malfunctioning door mirror LH. Refer to MIR-17, "Removal and Installation".

DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR)

Description INFOID:0000000011151633

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

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?

>> Door mirror defogger is OK.

>> Refer to DEF-37, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

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.

${f 2}.$ CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect door mirror LH. 2.
- Turn ignition switch ON.
- Check voltage between door mirror LH connector D28 terminal 7 and ground.

(+ Door mi	,	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(, , , , , , , , , , , , , , , , , , ,
D28	7	Ground	Rear window defogger	ON	Battery voltage
D20	,	Giodila	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3.\,$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror LH connector and ground.

Door mirror LH		Continuity	
Connector	Terminal	Ground	Continuity
D28	19		Yes
	10	•	•

Is the inspection result normal?

DEF-37 Revision: September 2014 2015 Pathfinder DEF

K

Α

D

Е

Н

INFOID:0000000011151634

INFOID:0000000011151635

N

DOOR MIRROR DEFOGGER LH (WITH AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-38, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-17, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-47, "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:0000000011151636

1. CHECK DOOR MIRROR DEFOGGER

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

Terr	minal	Continuity
7	19	Yes

Is the inspection result normal?

YES >> Check the condition of the harness and the connector.

NO >> Replace malfunctioning door mirror LH. Refer to MIR-17, "Removal and Installation".

Revision: September 2014 DEF-38 2015 Pathfinder

DOOR MIRROR DEFOGGER RH (WITHOUT AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER RH (WITHOUT AROUND VIEW MONITOR)

Description INFOID:0000000011151637

Α

D

Е

Н

K

DEF

N

Р

INFOID:0000000011151638

INFOID:0000000011151639

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

1. CHECK DOOR MIRROR DEFOGGER RH

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

Is the inspection result normal?

YES >> Door mirror defogger RH is OK.

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

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

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

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

(+	+)				
Door mi	irror RH	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(44
D107	1	Ground	Rear window defogger	ON	Battery voltage
D101	'	Ground	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${f 3}.$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Check continuity between door mirror RH connector and ground.

Door mirror RH		Continuity	
Connector Terminal		Ground	Continuity
D107	2		Yes

Is the inspection result normal?

DOOR MIRROR DEFOGGER RH (WITHOUT AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH.

Refer to DEF-40, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-17, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-47, "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:0000000011151640

1. CHECK DOOR MIRROR DEFOGGER

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

Terr	ninal	Continuity
1	2	Yes

Is the inspection result normal?

YES >> Check the condition of the harness and the connector.

NO >> Replace malfunctioning door mirror RH. Refer to MIR-17, "Removal and Installation".

Revision: September 2014 DEF-40 2015 Pathfinder

DOOR MIRROR DEFOGGER RH (WITH AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER RH (WITH AROUND VIEW MONITOR)

Description INFOID:0000000011151641

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

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?

>> Door mirror defogger RH is OK.

>> Refer to DEF-41, "Diagnosis Procedure". NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK POWER SUPPLY

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

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

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.

${f 2}.$ CHECK DOOR MIRROR DEFOGGER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect door mirror RH. 2.
- Turn ignition switch ON.
- Check voltage between door mirror RH connector D128 terminal 7 and ground.

(-	+)					
Door m	irror RH	(-)	Condition		Voltage (V) (Approx.)	
Connector	Terminal				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
D128	7	Ground	Rear window defogger	ON	Battery voltage	
D120	,	Ground	switch	switch	OFF	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

$3.\,$ CHECK DOOR MIRROR DEFOGGER GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror RH connector and ground.

Door mirror RH		Continuity	
Connector	Terminal	Ground	Continuity
D128	19		Yes
	10		

Is the inspection result normal?

DEF-41 Revision: September 2014 2015 Pathfinder DEF

K

Α

D

Е

Н

INFOID:0000000011151642

INFOID:0000000011151643

N

DOOR MIRROR DEFOGGER RH (WITH AROUND VIEW MONITOR)

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR MIRROR DEFOGGER RH

Check door mirror defogger RH. Refer to DEF-42, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror. Refer to MIR-17, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-47, "Intermittent Incident".

Is the inspection result normal?

YES

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

>> Repair or replace the malfunctioning parts. NO

Component Inspection

INFOID:0000000011151644

1. CHECK DOOR MIRROR DEFOGGER

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

Terr	ninal	Continuity
7	19	Yes

Is the inspection result normal?

>> Check the condition of the harness and the connector. YES

>> Replace malfunctioning door mirror RH. Refer to MIR-17, "Removal and Installation". NO

DEF-42 Revision: September 2014 2015 Pathfinder

DEFOGGER SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DEFOGGER SYSTEM SYMPTOMS

Symptom Table

Symptom	Reference page
Rear window defoggers and door mirror defoggers do not operate.	Refer to DEF-44, "Diagnosis Procedure".
Rear window defoggers do not operate but both of the door mirror defoggers operate.	Refer to DEF-45, "Diagnosis Procedure".
Both door mirror defoggers don't operate but rear window defoggers operate.	Refer to DEF-46, "Diagnosis Procedure".
Driver side door mirror defogger does not operate.	Refer to DEF-48, "Diagnosis Procedure".
Passenger side door mirror defogger does not operate.	Refer to DEF-49, "Diagnosis Procedure".
Rear window defogger switch does not light, but rear window defogger operates.	Refer to DEF-50, "Diagnosis Procedure".

F

Α

В

С

 D

Е

G

Н

J

K

DEF

M

Ν

0

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.

Diagnosis Procedure

INFOID:0000000011151646

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to DEF-26, "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-31, "Component Function Check".

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 DEF-33, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR MIRROR DEFOGGER

Check door mirror defogger.

Refer to <u>DEF-35</u>, "<u>Diagnosis Procedure</u>" (LH without around view monitor), <u>DEF-37</u>, "<u>Diagnosis Procedure</u>" (LH with around view monitor), <u>DEF-39</u>, "<u>Diagnosis Procedure</u>" (RH without around view monitor), <u>DEF-41</u>, "<u>Diagnosis Procedure</u>" (RH with around view monitor).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-47, "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

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

< SYMPTOM DIAGNOSIS >

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

INFOID:0000000011151647

Diagnosis Procedure

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to GI-47, "Intermittent Incident".
- NO >> Repair or replace the malfunctioning parts.

Ε

D

Α

В

C

F

G

Н

J

K

DEF

M

Ν

0

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:0000000011151648

Regarding Wiring Diagram information, refer to DEF-10, "Wiring Diagram".

1. CHECK DOOR MIRROR DEFOGGER FUSE

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

COMPONENT PARTS	AMPERE	FUSE NO.
Fuse block (J/B)	10A	22

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK DOOR MIRROR DEFOGGER CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect the following harness connectors.
- Fuse block (J/B) connector M4
- Door mirror LH D4 (without around view monitor), D28 (with around view monitor)
- Door mirror RH D107 (without around view monitor), D128 (with around view monitor)
- Check continuity between fuse block (J/B) harness connector and door mirror defogger harness connectors.

Fuse block (J/B) Connector	Terminal	Door mirror Connectors	Terminal	Continuity
M4 5P	5D	D4 (LH without around view monitor)	1	- Yes
		D107 (RH without around view monitor)	'	
	JF JF	D28 (LH with around view monitor)	7	
		D128 (RH with around view monitor)	,	

4. Check continuity between fuse block (J/B) harness connector M4 terminal 5P and ground.

Fuse block (J/B) connector	Terminal	Ground	Continuity
M4	5P		No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR DEFOGGER

Check door mirror LH.

Refer to <u>DEF-35</u>, "Component Function Check" (without around view monitor) or <u>DEF-37</u>, "Component Function Check" (with around view monitor).

Check door mirror RH.

Refer to <u>DEF-39</u>, "Component Function Check" (without around view monitor) or <u>DEF-41</u>, "Component Function Check" (with around view monitor).

Is the inspection result normal?

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

< SYMPTOM DIAGNOSIS >

YES	>> Check intermittent incident. Refer to GI-47, "Intermittent Incident".
NO	>> Repair or replace the malfunctioning parts.

Α

В

С

D

Е

F

G

Н

J

Κ

DEF

IVI

Ν

0

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:0000000011151649

1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to <u>DEF-35</u>, "Component Function Check" (without around view monitor) or <u>DEF-37</u>, "Component Function Check" (with around view monitor).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-47, "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:0000000011151650

1. CHECK DOOR MIRROR DEFOGGER RH

Α

В

C

D

Check door mirror defogger RH.

Refer to <u>DEF-39</u>, "Component Function Check" (without around view monitor) or <u>DEF-41</u>, "Component Function Check" (with around view monitor).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-47. "Intermittent Incident".

NO >> Repair or replace the malfunctioning parts.

Ε

F

G

Н

J

K

DEF

M

Ν

0

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:0000000011151651

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

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

YES >> Check intermittent incident. Refer to GI-47, "Intermittent Incident".

NO >> Check rear window defogger switch. Refer to <u>DEF-26</u>, "<u>Diagnosis Procedure</u>".

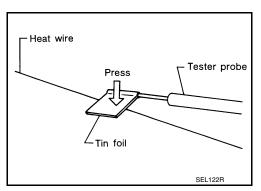
REMOVAL AND INSTALLATION

FILAMENT

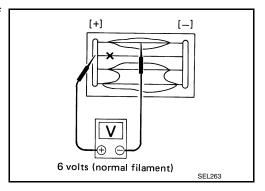
Inspection and Repair

INSPECTION

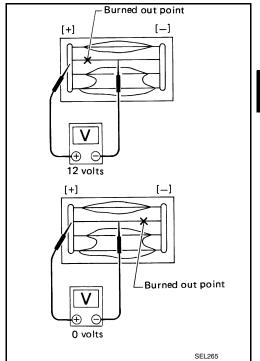
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



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



REPAIR

REPAIR EQUIPMENT

Conductive silver composition (Dupont No. 4817 or equivalent)

Revision: September 2014 DEF-51 2015 Pathfinder

DEF

K

Α

В

C

D

Е

F

Н

INFOID:0000000011151652

M

Ν

0

< REMOVAL AND INSTALLATION >

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

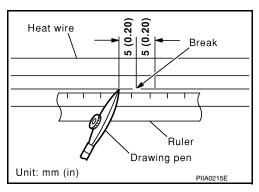
REPAIRING PROCEDURE

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

NOTE:

Shake silver composition container before use.

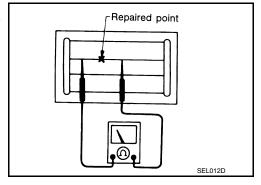
 Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.20 in)] of the break.



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

CAUTION:

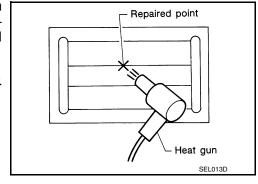
Do not touch repaired area while test is being conducted.



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

NOTE:

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



CONDENSER

< REMOVAL AND INSTALLATION >

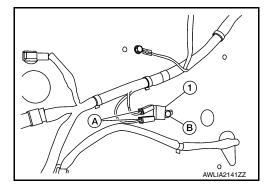
CONDENSER

Removal and Installation

INFOID:0000000011151653

REMOVAL

- Remove the back door lower finisher. Refer to <u>INT-35</u>, "BACK DOOR LOWER FINISHER: Removal and <u>Installation"</u>.
- 2. Disconnect the harness connectors (A) from the condenser (1).
- 3. Remove the bolt (B) and the condenser (1).



INSTALLATION

Installation is in the reverse order of removal.

G

Α

В

С

 D

Е

F

Н

Κ

DEF

M

N

0