SECTION DEFOGGER

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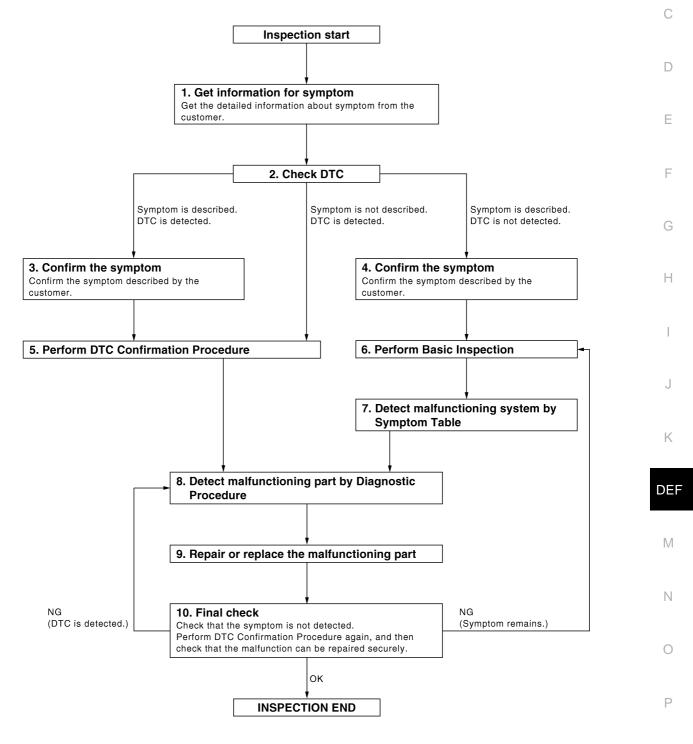
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< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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INFOID:000000005434660

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

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

>> GO TO 2

2. CHECK DTC

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

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3 Symptom is described, DTC is not displayed>>GO TO 4 Symptom is not described, DTC is displayed>>GO TO 5

3. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5

4. CONFIRM THE SYMPTOM

Confirm the symptom described by the customer. Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real time diagnosis results. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6

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-III to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to <u>BCS-69</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-3, "Work Flow"</u>.

>> GO TO 7

7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to <u>DEF-6. "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

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

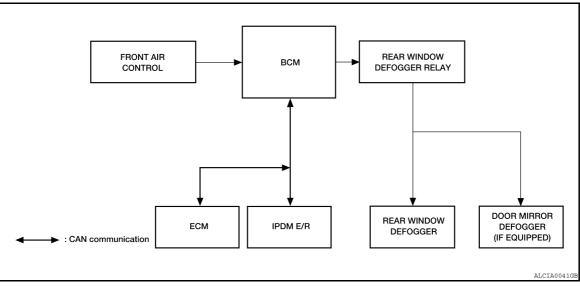
3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE	
perpect according to Diagnostic Procedure of the system	
nspect according to Diagnostic Procedure of the system.	
NOTE: The Diagnostic Precedure described based on open circuit inspection. A short circuit inspection is al	~~
The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is all equired for the circuit check in the Diagnostic Procedure.	50
s malfunctioning part detected?	
YES >> GO TO 9	
NO >> Check voltage of related BCM terminals using CONSULT-III.	
. REPAIR OR REPLACE THE MALFUNCTIONING PART	
I. Repair or replace the malfunctioning part.	—
 Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replac 	e-
ment.	
Check DTC. If DTC is displayed, erase it.	
>> GO TO 10	
10. FINAL CHECK	
When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Che	ck
again, and then check that the malfunction have been repaired securely.	
When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check th	nat
he symptom is not detected.	
Does the symptom reappear?	
YES (DTC is detected)>>GO TO 8	
YES (Symptom remains)>>GO TO 6 NO >> Inspection End.	
NO >> Inspection End.	

< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS REAR WINDOW DEFOGGER SYSTEM

System Diagram

INFOID:000000005434661



System Description

INFOID:000000005434662

Operation Description

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

Timer function

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

INPUT/OUTPUT SIGNAL CHART

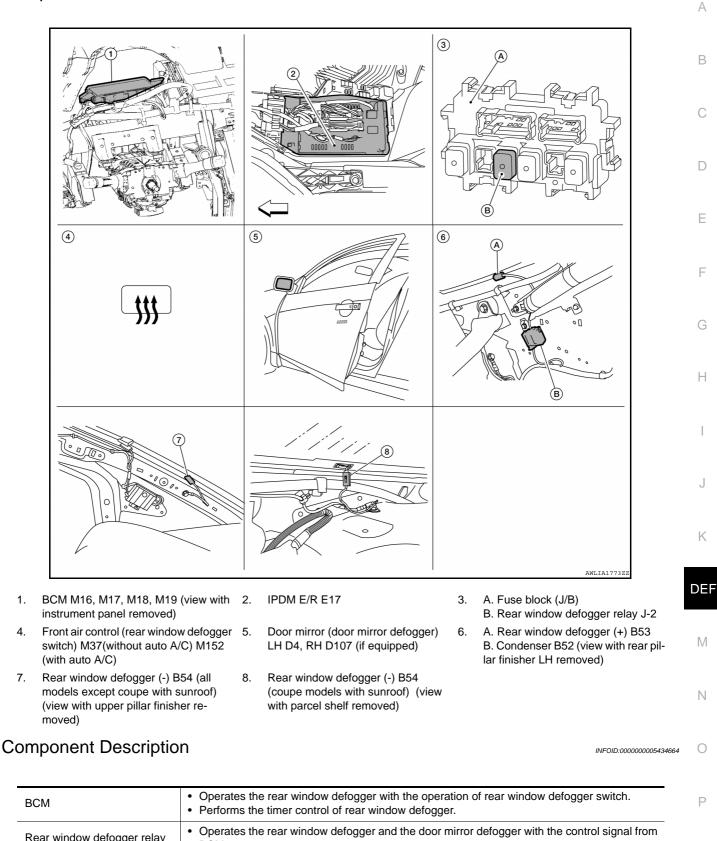
Switch	Input signal to BCM	BCM function	Actuator
Rear window defogger switch	Defogger switch signal	Rear window defogger and door	Rear window defogger
Push button ignition switch	Ignition signal	mirror defogger [*] control	Door mirror defogger *

*: With door mirror defogger

REAR WINDOW DEFOGGER SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location



Real window delogger relay	BCM.
Front air control (rear window	The rear window defogger switch is turned ON.
defogger switch)	 Turns the indicator lamp ON when detecting the operation of rear window defogger.

DEF-7

REAR WINDOW DEFOGGER SYSTEM

< FUNCTION DIAGNOSIS >

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

*: With heated mirrors

< FUNCTION DIAGNOSIS >		
DIAGNOSIS SYSTEM (BCM) COMMON ITEM		А
COMMON ITEM : CONSULT-III Function	INFOID:000000005778777	В
ECU IDENTIFICATION Displays the BCM part No. SELF-DIAG RESULT		С
Refer to <u>BCS-70, "DTC_Index"</u> . REAR WINDOW DEFOGGER		D
REAR WINDOW DEFOGGER : CONSULT-III Function (BCM - REAR DEI	FOGGER)	Е
DATA MONITOR		-

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

ACTIVE TEST

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

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< COMPONENT DIAGNOSIS >

COMPONENT 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

1. CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

- 1. Push ignition switch to ON.
- 2. Press rear window defogger switch.
- 3. Check that the indicator lamp of the rear window defogger switch illuminates.
- 4. Press rear window defogger switch.
- 5. Check that the indicator lamp of the rear window defogger switch extinguishes.

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.

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

Diagnosis Procedure

INFOID:000000005434669

INFOID:000000005434667

INFOID:000000005434668

Regarding Wiring Diagram information, refer to <u>DEF-45, "COUPE : Wiring Diagram"</u> (Coupe) or <u>DEF-51,</u> <u>"SEDAN : Wiring Diagram"</u> (Sedan).

1.CHECK REAR WINDOW DEFOGGER RELAY OPERATION

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 13 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

3. CHECK FOR VOLTAGE FROM THE REAR WINDOW DEFOGGER RELAY

1. Connect a voltmeter between Fuse 13 and ground.

2. While pressing the rear window defogger switch ON and OFF, check for voltage between Fuse 13 and ground.

	Terminals		Condition of rear		
(+)		(-)	window defogger	Voltage (V) (Approx.)	
Fuse	Terminal	(-)	switch	())	
13		Ground	ON	Battery voltage	
15	_	Oround	OFF	0	

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 11

4.CHECK REAR WINDOW DEFOGGER SWITCH INDICATOR CIRCUIT

REAR WINDOW DEFOGGER SWITCH

< COMPONENT DIAGNOSIS >

- 1. Press rear window defogger switch
- 2. Check for voltage between front air control connector and ground.

	0			0			
	Termi	nals		Condition of roor			
	(+)		()	Condition of rear window defogger	Voltage (V))	В
Front air cont	rol connector	Terminal	()	switch	(Approx.)		
M37 (withou	ut auto A/C)	4	Cround	ON	Battery volta	ge	С
M152 (with	auto A/C)	22	Ground	OFF	0		0
Is the inspectio	n result no	rmal?					
				<u>8, "Removal a</u>	nd Installatio	<u>n"</u> .	D
_		ace harness.					
5.CHECK FR		UNTROL FU	INCTION				— Е
CONSULT-II 1. Select BC		EFOGGER)					
2. While pres between O	ssing and i	releasing the	rear wind	low defogger sv	witch, check	that the switch state ch	anges F
	DEF SW		ON				G
	DEF SW		OFF				0
NO >> GO	0 TO 8 0 TO 6						Н
			SER ON SI	GNAL CIRCUIT			
 Push ignitie Check volt 			ector M18	terminal 38 and	around		I
2. Oneck volt	age betwee				ground.		
1	erminals	C	ondition of rea	r			J
(+)		wi	ndowdefogge				
BCM connector	Terminal	()	switch	(/ (pp/0x.)			K
M18	38	Ground	ON	0			
WIG	30	Giouna	OFF	Battery voltage	9		
Is the inspectio	n result no	rmal?					DE
		I. Refer to <u>BC</u>	<u>S-96, "Rer</u>	moval and Instal	lation".		
_	DITO 7						M
7. CHECK HA							
 Push ignitie Disconnection 		Front Air Co	ntrol.				
				d front air contro	ol connector.		Ν
BCM co		Terminal		control connector	Terminal	Continuity	0
M18 (withou		38		vithout auto A/C)	12	Yes	
M18 (with 4. Check con	,	³⁸ /een BCM ha	,	with auto A/C)	²³ inal 38 and g	Yes round.	Р
-		-			5		
BCM connector	Terminal	Ground	Term	ninal Continuity	у		
M18	38	-	-	Yes			

Is the inspection result normal?

YES >> Replace front air control. Refer to VTL-8, "Removal and Installation".

NO >> Repair or replace harness.

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REAR WINDOW DEFOGGER SWITCH

< COMPONENT DIAGNOSIS >

$\mathbf{8}$.CHECK BCM REAR WINDOW DEFOGGER RELAY CONTROL FUNCTION

CONSULT-III

- 1. Select BCM (REAR DEFOGGER) ACTIVE TEST.
- 2. Turn REAR DEFOGGER active test ON.
- Check that an operation noise of rear window defogger relay [located in fuse block (J/B)] can be heard when REAR DEFOGGER active test is turned ON.

REAR DEFOGGER	: ON
REAR DEFOGGER	: OFF

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> GO TO 9

9. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

CONSULT-III

- 1. Push the ignition switch to ON.
- 2. Select BCM (REAR DEFOGGER) ACTIVE TEST.
- 3. Turn REAR DEFOGGER active test ON.
- 4. Check voltage between fuse block (J/B) connector M4 terminal 4Q and ground.

REAR DEFOGGER: ONREAR DEFOGGER: OFF

Terminals			Condition of rear		
(+)		()	window defogger	Voltage (V) (Approx.)	
Fuse Block	Terminal	(-)	Active Test	, , ,	
M4	4Q	Ground	ON	0	
	79	Oround	OFF	Battery voltage	

Is the inspection result normal?

YES >> GO TO 12

NO >> GO TO 10

10. CHECK REAR WINDOW DEFOGGER RELAY CIRCUIT

1. Push ignition switch to ON.

2. Check voltage between fuse block (J/B) connector M4 terminal 4Q and ground.

Terminals					
(+)		()	Condition of Push switch	Voltage (V) (Approx.)	
Fuse block (J/B)	Terminal				
M4	4Q	Ground	ON	Battery Voltage	
IVI -	40	Orodila	OFF	0	

Is the inspection result normal?

YES >> GO TO 11

NO >> Replace rear window defogger relay.

11. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.

- 2. Disconnect BCM and fuse block (J/B).
- 3. Check continuity between BCM connector M18 terminal 59 and fuse block (J/B) connector M4 terminal 4Q.

REAR WINDOW DEFOGGER SWITCH

< COMPONENT DIAGNOSIS >

BCM connector	Terminal	Fuse block (J/B) connector	Terminal	Continuity		А
M18	59	M4	4Q	Yes		
4. Check con	tinuity betw	een fuse block (J	/B) connect	or M4 termina	I 4Q and ground.	В
Fuse block (J/B) connector	Terminal	Ground	Terminal	Continuity		С
M4	4Q	-	-	Yes		
Is the inspectio	n result nor	mal?				D
		. Refer to <u>BCS-90</u>	<u>6, "Removal</u>	and Installati	<u>on"</u> .	
		ace harness.				
		DOW DEFOGGE	R RELAY			E
Check rear win						
		nent Inspection".				F
Is the inspectio YES >> GO) TO 12	<u>Indi (</u>				
	-	window defogger	relav.			
		ENT INCIDENT	J			G
Check intermitt						
Refer to <u>GI-41.</u>						Н
Is the inspectio						
YES >> C	heck the fo	ollowing.				
		er supply circuit.				
	use block (J/B). ace the malfuncti	oning narts			
			oning purio.			
						J

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REAR WINDOW DEFOGGER RELAY

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Description

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-14</u>, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:000000005434672

Regarding Wiring Diagram information, refer to <u>DEF-45, "COUPE : Wiring Diagram"</u> or <u>DEF-51, "SEDAN :</u> <u>Wiring Diagram"</u>.

1. CHECK REAR WINDOW DEFOGGER RELAY GROUND CIRCUIT

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

	Terminals		Condition of rear	
(+)		()	window defogger	Voltage (V) (Approx.)
BCM connector	Terminal	()	switch	
M18	59	Ground	ON	0
WITO	55	Ground	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
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM and fuse block (J/B).
- Check continuity between BCM connector (A) and fuse block (J/ B) connector (B).

BCM connector	Terminal	Fuse block (J/B) connector	Terminal	Continuity		
M18 (A)	59	M4 (B)	4Q	Yes		
Is the inspection result normal?						

YES >> GO TO 3

NO >> Repair or replace harness.

 $\mathbf{3.}$ CHECK REAR WINDOW DEFOGGER RELAY

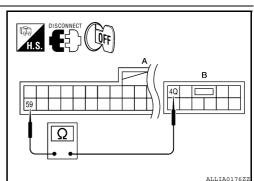
Check rear window defogger relay.

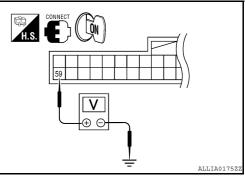
Refer to <u>DEF-15</u>, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace rear window defogger relay.





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INFOID:000000005434671

< COMPONENT DIAGNOSIS >

4. CHECK INTERMITTENT INCIDENT А Check intermittent incident. Refer to GI-41, "Intermittent Incident" Is the inspection result normal? В YES >> Check the following. • Battery power supply circuit. • Fuse block (J/B). С NO >> Repair or replace the malfunctioning parts. **Component Inspection** INFOID:000000005434673 D 1. CHECK REAR WINDOW DEFOGGER RELAY Check rear window defogger relay. Е 3 0 n Terminal 00 Condition Continuity Rear window (5) F defogger relay 3 12V direct current supply between termi-Yes 5 nals 1 and 2. 3 5 2 1 G No current supply No 2 $^{(1)}$ Is the inspection result normal? SEF497Y YES >> Inspection End. Н >> Replace rear window defogger relay. NO

Revision: September 2009

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REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Description

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:000000005434675

INFOID:000000005434674

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-16</u>, "Diagnosis Procedure".

Diagnosis Procedure

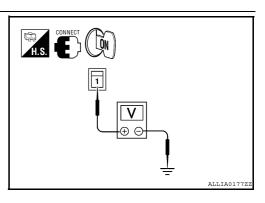
INFOID:000000005434676

Regarding Wiring Diagram information, refer to <u>DEF-45, "COUPE : Wiring Diagram"</u> or <u>DEF-51, "SEDAN :</u> <u>Wiring Diagram"</u>.

1. CHECK POWER SUPPLY CIRCUIT

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

т	erminals			
(+)	(+)		Condition of rear	Voltage (V)
Rear window defogger connector	Terminal	()	window defogger switch	(Approx.)
B53	1	Ground	ON	Battery voltage
555	I	Ground	OFF	0



Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

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

d	H.S. DISCONNECT
_	
_	
	ALLIA0178ZZ

Rear window defogger connectorTerminalGroundContinuityB542Yes

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

 $\mathbf{3.}$ CHECK HARNESS CONTINUITY 1

REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect condenser and rear window defogger.
- 3. Check continuity between condenser connector (A) and rear window defogger connector (B).

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

Is the inspection result normal?

YES >> GO TO 4

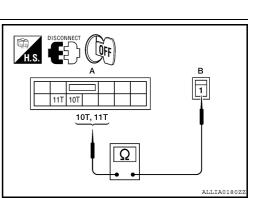
NO

>> Replace condenser. Refer to <u>DEF-66</u>, "Removal and Installation - Coupe" or <u>DEF-66</u>, "Removal and Installation - Sedan".

4. CHECK HARNESS CONTINUITY 2

- 1. Disconnect fuse block (J/B).
- 2. Check continuity between fuse block (J/B) connector (A) and condenser connector (B).

Fuse block (J/B) connector	Terminal	Condenser connector	Terminal	Continuity
B4 (A)	10T	B52 (B)	1	Yes
64 (A)	11T	Б32 (В)	Ι	165



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Is the inspection result normal?

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	GO	GO TO

NO >> Replace or repair harness.

5.	CHECK FILAMENT	

Check filament.

Refer to DEF-17, "Component Inspection".

Is the inspection result normal?

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

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

CHECK INTERMITTENT INCIDENT

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

Is the inspection result normal?

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

NO >> Repair or replace the malfunctioning parts.

Component Inspection

1. CHECK FILAMENT

Check the filament for damage or open circuits. Refer to <u>DEF-64</u>, "Inspection and Repair".

Is the inspection result normal?

YES >> Inspection End.

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

INFOID:000000005434677

DRIVER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Description

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 LH

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

Is the inspection result normal?

- YES >> Door mirror defogger is OK.
- NO >> Refer to <u>DEF-18, "Diagnosis Procedure"</u>.

Diagnosis Procedure

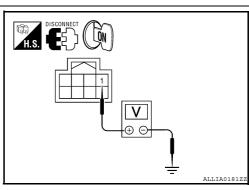
INFOID:000000005434680

Regarding Wiring Diagram information, refer to <u>DEF-45, "COUPE : Wiring Diagram"</u> or <u>DEF-51, "SEDAN :</u> <u>Wiring Diagram"</u>.

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.

T	Terminals		Condition of	
(+)	(+)		rear window	Voltage (V)
Door mirror LH connector	Terminal	()	defogger switch	(Approx.)
D4	1	Ground	ON	Battery voltage
D4	I	Gibuna	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.

Door mirror LH connector	Terminal	Ground	Continuity
D4	2	Cround	Yes

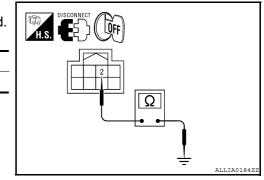
Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH. Refer to <u>DEF-19, "Component Inspection"</u>. Is the inspection result normal?



INFOID:000000005434678

INFOID:000000005434679

DRIVER SIDE DOOR MIRROR DEFOGGER

< COMPC	NENT DIAGNOSIS >			
	> GO TO 4 > Replace door mirror. Re	efer to MIR-19, "Removal and Ins	tallation".	А
4	K INTERMITTENT INCID			
	ermittent incident. II-41, "Intermittent Inciden	+ "		В
	ection result normal?	<u> </u>		
YES >	 Check the following. Battery power supply Fuse block (J/B). Repair or replace the m 			С
		and following parts.		D
Compor	ent Inspection		INFOID:00000005434681	
1. CHEC	K DOOR MIRROR DEFO	GGER LH		Е
	gnition switch OFF. nnect door mirror LH.			
	continuity between door	mirror terminals.		F
	Terminal	Continuity		
1	2	Yes		G
Is the insp	ection result normal?			
	 Inspection End. Replace door mirror LH Installation". 	. Refer to MIR-19, "Removal and	ALLIA0185ZZ	Н

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PASSENGER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Description

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-20</u>, "Diagnosis Procedure".

Diagnosis Procedure

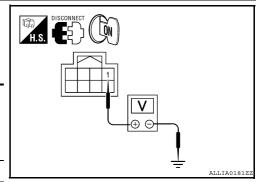
INFOID:000000005434684

Regarding Wiring Diagram information, refer to <u>DEF-45, "COUPE : Wiring Diagram"</u> or <u>DEF-51, "SEDAN :</u> <u>Wiring Diagram"</u>.

1. CHECK POWER SUPPLY CIRCUIT

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

Terminals				
(+)			Condition of rear window defogger	Voltage (V)
Door mirror RH connector	Terminal	()	switch	(Approx.)
D107	1	Ground	ON	Battery voltage
0107	I	Giounu	OFF	0



Is the inspection result normal?

- YES >> GO TO 2
- NO >> Repair or replace harness.
- 2. CHECK GROUND CIRCUIT
- 1. Turn ignition switch OFF.
- 2. Check continuity between door mirror RH connector and ground.

Door mirror RH connector	Terminal	Ground	Continuity
D107	2	Cibulia	Yes

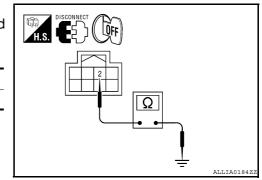
Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

Check door mirror defogger RH. Refer to <u>DEF-21, "Component Inspection"</u>. <u>Is the inspection result normal?</u>



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PASSENGER SIDE DOOR MIRROR DEFOGGER

< COMPONENT DIAGNOSIS >			
YES >> GO TO 4		1	
NO >> Replace door mirror RH. Refe	er to <u>MIR-19, "Removal and</u>	Installation".	А
4. CHECK INTERMITTENT INCIDENT			
Check intermittent incident.			В
Refer to <u>GI-41, "Intermittent Incident"</u> . Is the inspection result normal?			
YES >> Check the following.			
Battery power supply circuit	t.		С
 Fuse block (J/B). 			
NO >> Repair or replace the malfunc	ctioning parts.		D
Component Inspection		INFOID:00000005434685	D
1. CHECK DOOR MIRROR DEFOGGE	R RH		E
1. Turn ignition switch OFF.		_	
2. Disconnect door mirror RH.			
3. Check continuity between door mirror	r terminals.		F
Terminal	Continuity		
1 2	Yes		G
Is the inspection result normal?			0
YES >> Inspection End.		Ω	
NO >> Replace door mirror RH. R and Installation".	efer to MIR-19, "Removal		Н

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



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< ECU DIAGNOSIS >

ECU DIAGNOSIS BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005778779

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
	Other than front wiper switch HI	OFF
FR WIPER HI	Front wiper switch HI	ON
	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
	Lighting switch 2ND	ON
	Other than lighting switch 2ND	OFF
HEAD LAMP SW 2	Lighting switch 2ND	ON
	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON
	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
	Rear door RH closed	OFF
DOOR SW-RR	Rear door RH opened	ON
	Rear door LH closed	OFF
DOOR SW-RL	Rear door LH opened	ON

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
	Other than power door lock switch LOCK	OFF	
CDL LOCK SW	Power door lock switch LOCK	ON	
	Other than power door lock switch UNLOCK	OFF	_
CDL UNLOCK SW	Power door lock switch UNLOCK	ON	
	Other than driver door key cylinder LOCK position	OFF	
KEY CYL LK-SW	Driver door key cylinder LOCK position	ON	
	Other than driver door key cylinder UNLOCK position	OFF	
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	ON	
	When hazard switch is not pressed	OFF	
HAZARD SW	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
	Trunk lid opener cancel switch OFF	OFF	
TR CANCEL SW	Trunk lid opener cancel switch ON	ON	
	Trunk lid opener switch OFF	OFF	
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON	
	Trunk lid closed	OFF	
TRNK/HAT MNTR	Trunk lid opened	ON	
	When LOCK button of Intelligent Key is not pressed	OFF	
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed	OFF	
RKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON	
	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	-
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON	-
	When PANIC button of Intelligent Key is not pressed	OFF	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed and held	OFF	
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
	When outside of the vehicle is bright	Close to 5 V	
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V	
	When driver door request switch is not pressed	OFF	
REQ SW-DR	When driver door request switch is pressed	ON	
	When passenger door request switch is not pressed	OFF	
REQ SW-AS	When passenger door request switch is pressed	ON	
	When trunk request switch is not pressed	OFF	
REQ SW-BD/TR	When trunk request switch is pressed	ON	
	When engine switch (push switch) is not pressed	OFF	
PUSH SW	When engine switch (push switch) is pressed	ON	
	Ignition switch OFF or ACC	OFF	_
GN RLY2-F/B	Ignition switch ON	ON	
	Ignition switch OFF	OFF	
ACC RLY-F/B	Ignition switch ACC or ON	ON	

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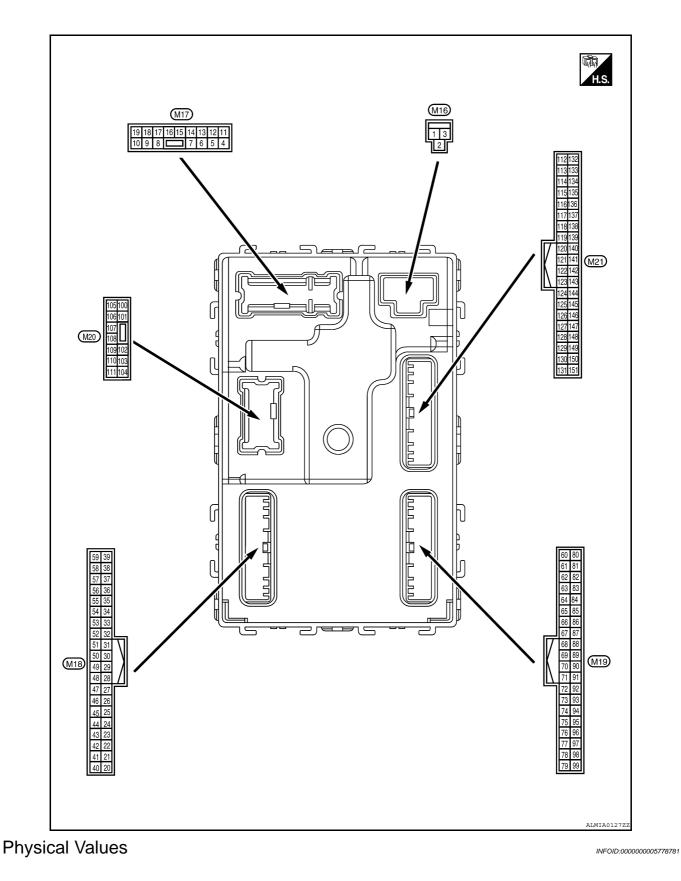
Monitor Item	Condition	Value/Status
CLUTCH SW	When the clutch pedal is not depressed	OFF
	When the clutch pedal is depressed	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
BRAKE SW I	When the brake pedal is depressed	OFF
	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
	When engine switch (push switch) is not pressed	OFF
PUSH SW-IPDM	When engine switch (push switch) is pressed	ON
	Ignition switch OFF or ACC	OFF
IGN RLY1 F/B	Ignition switch ON	ON
	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SFT P-MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N-MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
	When the engine start is prohibited	RESET
PRMT ENG STAT	When the engine start is permitted	SET
	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the sec- ond key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
	The ID of fourth key is registered to BCM	DONE
TP 3	The ID of third key is not registered to BCM	YET
IP 3	The ID of third key is registered to BCM	DONE
	The ID of second key is not registered to BCM	YET
TP 2	The ID of second key is registered to BCM	DONE
TD 4	The ID of first key is not registered to BCM	YET
TP 1	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	When ID of front LH tire transmitter is registered	DONE
	When ID of front LH tire transmitter is not registered	YET
D REGST FR1	When ID of front RH tire transmitter is registered	DONE
DIEGOLEKI	When ID of front RH tire transmitter is not registered	YET
D REGST RR1	When ID of rear RH tire transmitter is registered	DONE
	When ID of rear RH tire transmitter is not registered	YET
	When ID of rear LH tire transmitter is registered	DONE
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET
	Tire pressure indicator OFF	OFF
WARNING LAMP	Tire pressure indicator ON	ON
	Tire pressure warning alarm is not sounding	OFF
BUZZER	Tire pressure warning alarm is sounding	ON

< ECU DIAGNOSIS >

Terminal Layout

INFOID:000000005778780



	inal No.	Description			• • • •	Value
(vvire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Ground	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	٥V
(P/W)	Orodina	power supply	Output	Any other time after lamp battery save	er passing the interior room r operation time	Battery voltage
5	Ground	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)		LOCK	Caiput		Other than UNLOCK (actuator is not activated)	٥V
7	Ground	Step lamp	Output	Step lamp	ON	0V
(R/W)	Ground		Juipul		OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activat- ed)	Battery voltage
(V)	Giounu	All doors LOCK	Output		Other than LOCK (actuator is not activated)	٥V
9	Ground	Front door LH UN-	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(G)	Clound	LOCK	Output		Other than UNLOCK (actuator is not activated)	٥V
10 ¹	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G/Y)	0.00.00	LOCK		and rear door LH	Other than UNLOCK (actuator is not activated)	OV
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		٥V
					OFF	0V
14 ⁶ (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brighten- ing/dimming level is in the neutral position

	inal No.	Description				Volue
(Wire	e color)	Signal name	Input/	Condition		Value (Approx.)
(+)	(-)	Signal name	Output			()
14 ¹ (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	OFF	OV NOTE: When the illumination brighten- ing/dimming level is in the neutral position (V) 10 0 2 ms JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)	Ground	Acc indicator lamp	Output	Ignition switch	ACC or ON	0V
					Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s 10 1 s FKID0926E 6.5 V
					Turn signal switch OFF	0V
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(Y)	Giouna	control	Output	lamp	ON	OV
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(P/B)		1 0		ON	When outside of the vehi- cle is dark	Close to 0V
22	Ground	Clutch interlock	Input	Clutch interlock	OFF (clutch pedal is not depressed)	0V
(R/Y)	Orodina	switch	mput	switch	ON (clutch pedal is de- pressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not de- pressed)	0V
(O/L)	Ground	Sop tamp Switch 2	mput		ON (brake pedal is de- pressed)	Battery voltage

Terminal No. (Wire color)		Description				Value	
(vvire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
27 (G/W)	Ground	Front door lock as- sembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 10 10 ms JENIAUOIIGE 11.8V	
					UNLOCK status	0V	
29	Ground	Key slot switch	Input	_	ey is inserted into key slot	Battery voltage	
(Y)		.,		When Intelligent K	ey is not inserted into key slot	0V	
30	Ground	ACC feedback signal	Input	Ignition switch	OFF	0	
(V/Y)					ACC or ON	Battery voltage	
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V	
(G)	2.00110	ger feedback signal		fogger switch	ON	Battery voltage	
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 0 10 10 ms JPMIA0011GB 11.8 V	
33 (SB)	Ground	Compressor ON sig- nal	Input	A/C switch	ON (when front door RH opens) OFF ON	0V 9.0 - 12.0V 0V	
0.12		Front door lock as-		Front door lock	OFF (neutral)	5V	
34 ² (L/R)	Ground	sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V	
36 ²	Cround	Look owitch signal	loout	Door lock/unlock	Lock	Battery voltage	
(GR)	Ground	Lock switch signal	Input	switch	Unlock	0V	-
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 10 10 10 10 10 10 11 10 10 10	
					ON	0V	
38					OFF	5V	
(GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	ON	0V	
				Door lock/unlock	Unlock	Battery voltage	

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
40 ³ (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 0 10 10 10 10 10.2V
				Ignition switch OF		0V
41 (W)	Ground	Engine switch (push switch) illumination	Output	Engine switch (push switch) illu- mination	ON OFF	5.5V 0V
42	Crowned		Output	LOCK indicator	ON	0V
(R)	Ground	LOCK indicator lamp	Output	lamp	OFF	Battery voltage
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		0V
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V
(V/W)	Croana	power supply output	Output	Ignition Switch	ACC or ON	5.0V
47	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 4 2 0 •••0.2s OCC3881D
(G/O)		er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 2 0 + 0.2s OCC3880D
48	Ground	Selector lever P/N	Input	Selector lever	P or N position	12.0V
(R/G)		position signal	mput		Except P and N positions	0V
					ON	0V
49 (L/O)	Ground	Security indicator sig- nal	Output	Security indicator	Blinking	(V) 15 0 1 s JPMIA0014GB
						11.3V
					OFF	Battery voltage

	inal No.	Description				Value	Δ
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	A
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Lighting switch 1ST Lighting switch high-beam Lighting switch 2ND Turn signal switch RH	0V	B C D
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	0V	E F G
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	OV	J
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Front wiper switch INT Front wiper switch LO Lighting switch AUTO	OV	DEF M
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Front fog lamp switch ON Lighting switch 2ND Lighting switch flash-to- pass Turn signal switch LH	0V (V) 15 10 2 ms JPMIA0035GB 10.7V	O
55 (BR/ W)	Ground	Front blower monitor	Input	Front blower mo- tor switch	ON OFF	Battery voltage 0V	

	inal No.	Description				Value
(Wire (+)	e color) (-)	Signal name	Input/ Output	*	Condition	(Approx.)
	()	Front door lock as-	Output	Front door lock	OFF (neutral)	5V
56 ² (L/B)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (front door LH OPEN)	OV
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)	Ground	ger relay	Output	fogger	Not activated	0V
60	Ground	Front console anten-			When Intelligent Key is in the passenger compart- ment	(V) 15 0 1 s JMKIA0062GB
(B/R)	Ground	na 2 (-)	Output	Ignition switch OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1
61	Ground	Center console an-	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 0 1 s JMKIA0062GB
(W/R)		tenna 2 (+)	Cuput		When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 1 1 s JMKIA0063GB

	inal No.	Description				Value	٨		
(VVire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	A		
624		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 0 1 s JMKIA0062GB	B C D		
(B/Y)	Ground	RH antenna (-)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 0 1 s JMKIA0063GB	E		
63 ⁴	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 0 0 15 0 15 0 15 0 15 0 15 0 15 0 1	G H I		
(LG)		RH antenna (+)			ed with ignition	ed with ignition	When Intelligent Key is not in the antenna detection area	(V) 15 0 0 15 0 15 0 15 0 15 0 15 0 15 0 1	J K DEF
64 ⁴	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 0 0 15 0 15 0 15 0 15 0 15 0 15 0 1	M		
(V)	Ground	LH antenna (-)	Jouput	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 5 0 1 s JMKIA0063GB	O		

	iinal No. e color)	Description	•		Condition	Value
(+)	(-)	Signal name	Input/ Output	Contaiton		(Approx.)
65 ⁴	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 0 15 0 15 15 15 JMKIA00620B
65 ⁴ (P)	Ground	LH antenna (+)	Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 1 s JMKIA0063GB
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelli- gent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
70 (R/B)	Ground	Ignition relay-2 con- trol	Output	Ignition switch	OFF or ACC	0V
(К/В)					ON	Battery voltage
71	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 1 1 1 ms J J J J J J J J J J J J J
(L/O)	Ground	receiver signal	Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB

< ECU DIAGNOSIS >

	inal No.	Description				Value	А						
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)							
						(V) 15 10 5	В						
					All switch OFF (Wiper intermittent dial 4)	0 2 ms JPMIA0041GB	С						
						1.4V	D						
75 (R/Y)	Ground	Combination switch	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0	E						
				Switch								2 ms	F
						1.3V	G						
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 0 2 ms JPMIA0040GB	Н						
						1.3V							

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	inal No.	Description				
	e color)	Signal name	Input/		Condition	Value (Approx.)
(+)	(-)	oignar name	Output			
					All switch OFF (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0041GB 1.4V
76	Ground	Combination switch	Input	Combination	Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA00366B 1.3V
(R/G)		INPUT 3		switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0037GB 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 0 2 ms JEMIA0040GB 1.3V
78 (P)	Ground	CAN-L	Input/ Output			_
79 (L)	Ground	CAN-H	Input/ Output		_	_
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Blinking	OV
					ON	Battery voltage
81 (LC)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V
(LG)		•			ON	Battery voltage

< ECU DIAGNOSIS >

Terminal No. (Wire color) (+) (-)		Description Description Signal name Input/ Output				Value	
					Condition	(Approx.)	
83 (L)	Ground	ACC relay control	Output	Ignition switch	OFF ACC or ON	0V Battery voltage	
84 (Y/R)	Ground	CVT shift selector	Output			Battery voltage	
87 (G/B)	Ground	Selector lever P posi- tion switch	Input	Selector lever	P position Any position other than P	0V Battery voltage	
					ON (pressed)	0V	
88 ⁴ (P/L)	Ground	Front door RH re- quest switch	Input	Front door RH re- quest switch	OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB 1.0V	
					ON (pressed)	0V	
89 ⁴ (B/W)	Ground	Front door LH re- quest switch	Input	Front door LH re- quest switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0V	
90 (Y)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFF or ACC ON	0V	
91 (L/R)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch OF		Battery voltage Battery voltage	

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< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 0 2 ms JPMIA0041GB 1.4V
					Turn signal switch LH	(V) 15 0 5 0 2 ms JPMIA0037GB 1.3V
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front washer switch ON	(V) 15 0 10 2 ms JPMIA0039GB 1.3V

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value		
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	А	
		Combination switch INPUT 4		Combination	All switch OFF (Wiper intermittent dial 4)	(V) 15 0 2 ms JDMIA0041GB 1.4V	B C D	
						Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 0 2 ms JJMIA0036GB	E
96 (P/B)	Ground		Input			1.3V	G	
(170)						Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 0 2 ms JEMIA0036GE 1.3V	Η
						(V)	J	
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms	K	
						JPMIA0039GB 1.3V	DEI	

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< ECU DIAGNOSIS >

	inal No. e color)	Description		Condition		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 2 ms JPMIA0041GB 1.4V
					Lighting switch flash-to- pass	(V) 15 0 2 ms 10 2 ms 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JEMIA0036GB 1.3V
					Front wiper switch INT	(V) 15 0 2 ms JPMIA0038GB 1.3V
					Front wiper switch HI	(V) 15 0 2 ms JPMIA00400B 1.3V
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 10 10 10 10 10 10 10 10 10

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
103	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener ac- tuator is activated)	Battery voltage
(V)	Ground	Trunk ild opening	Output		Close (trunk lid opener ac- tuator is not activated)	OV
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V
(V/W)		•			OFF	Battery voltage
114	Ground	Rear parcel shelf an-	Quitout	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1
(B)	Ground	tenna 1 (-)	Output	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 15 10 10 10 10 10 10 10 10 10 10 10 10 10
115	Ground	Rear parcel shelf an-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 0 1 s JMKIA0062GB
(W)		tenna 1 (+)	Cuput	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 15 0 15 15 15 15 15 15 15 15 15 15 15 15 15

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< ECU DIAGNOSIS >

	inal No. e color)	Description		Condition		Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
118 ⁴		Rear bumper anten-		When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 0 1 1 1 1 1 1 1 1 1 1 1 1 1
(L/O)	Ground	na (-)	Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 1 1 1 1 1 5 1
119 ⁴ (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 0 0 1 s JMKIA0062GB
W)	Clound	na (+)	Cutput		When Intelligent Key is not in the antenna detection area	(V) 15 0 1 s JMKIA0063GB
127 (BR/ W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC ON	Battery voltage 0V
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 50 10 ms JPMIA0011GB
					ON (trunk is open)	11.8V 0V

< ECU DIAGNOSIS >

	inal No.	Description				Value
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
				Ignition switch	When the clutch pedal is depressed	Battery voltage
				OFF (M/T vehi- cle)	When the clutch pedal is not depressed	0V
132 (R)	Ground	Starter motor relay control	Output	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage
				ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is not depressed	0V
140	Ground	Engine switch (push	Input	Engine switch	Pressed	0V
(BR)	Giouna	switch)	input	(push switch)	Not pressed	Battery voltage
					ON (pressed)	0V
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 0 10 ms JPMIA0016GB
144 ⁴	Ground	Intelligent Key warn-	Output	Request switch	Sounding	1.0V
(GR)	Ground	ing buzzer	Output	t buzzer	Not sounding	Battery voltage
144 ⁵	Ground	Outside warning	Output	Outside warning	Sounding	OV
(GR)	Ground	buzzer	Output	buzzer	Not sounding	Battery voltage
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed Not pressed	0V Battery voltage
148 ¹ (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 10 10 11.8V JPMIA00110B
					ON (when rear door RH opens)	0V
149 ¹ (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
						11.8V
					ON (when rear door LH	

1: Sedan

2: With LH front window anti-pinch

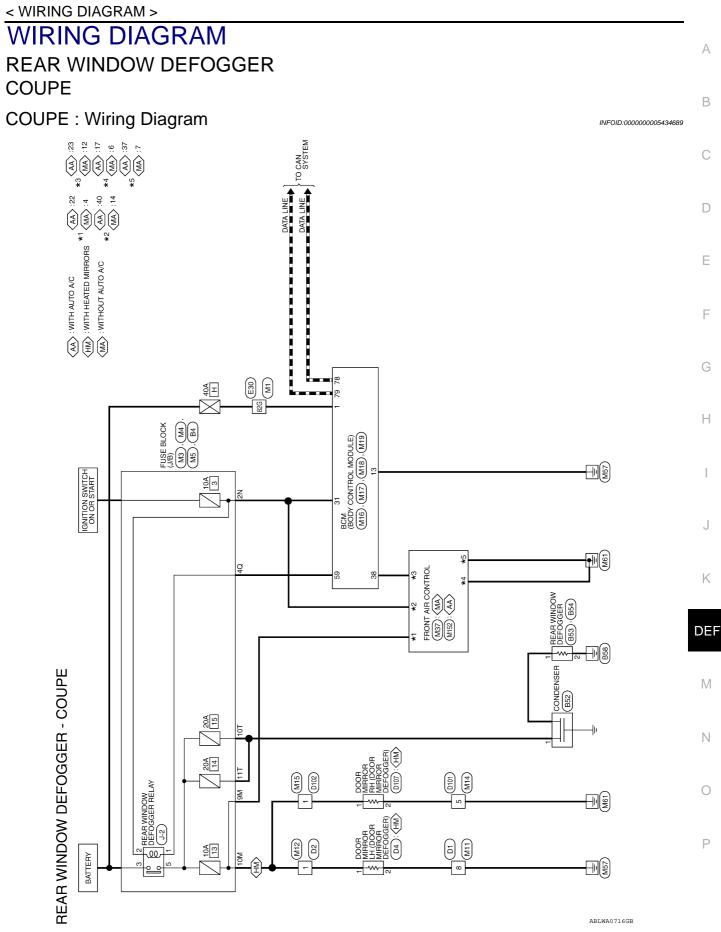
< ECU DIAGNOSIS >

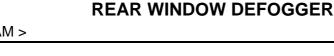
3: With LH and RH front window anti-pinch

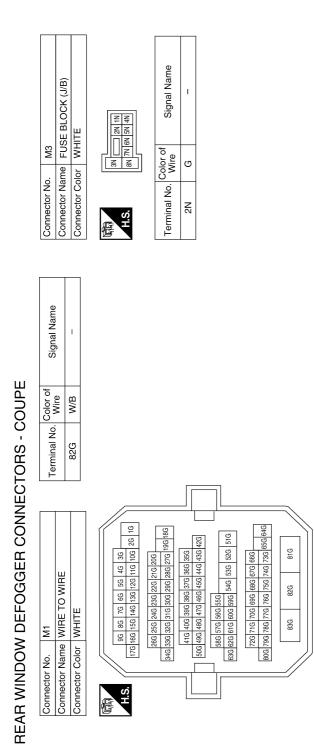
4: With Intelligent Key

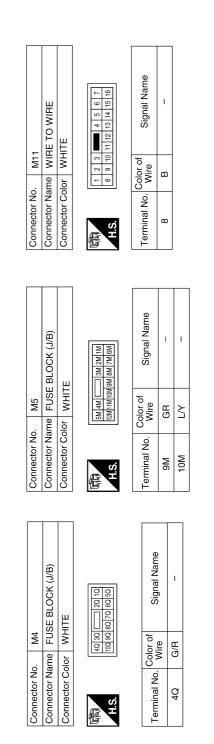
5: Without Intelligent Key

6: Coupe



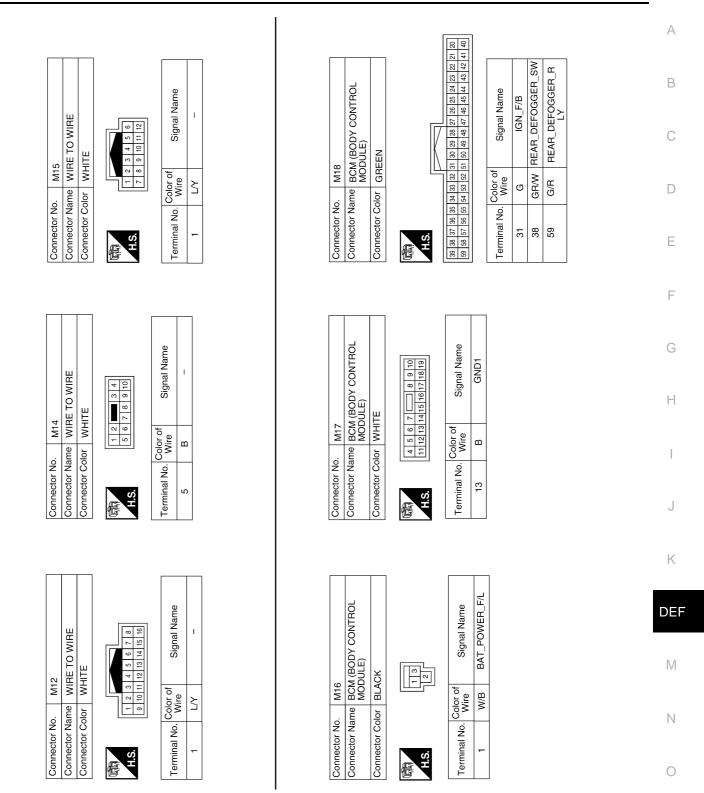






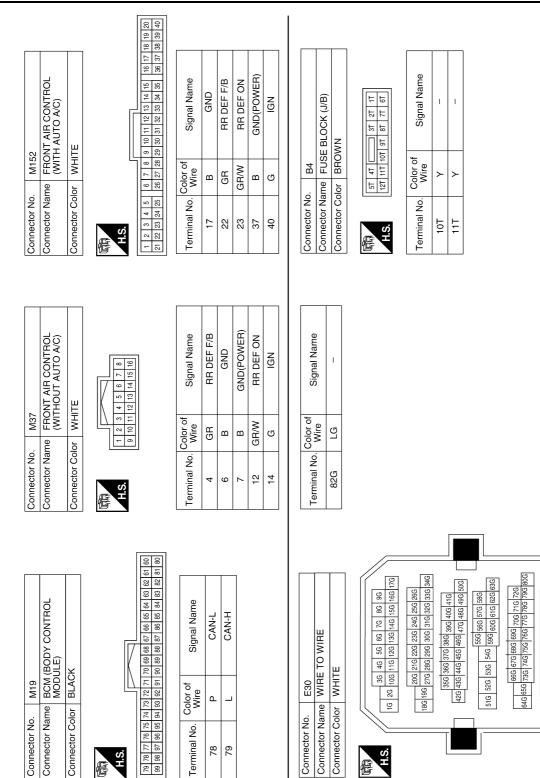
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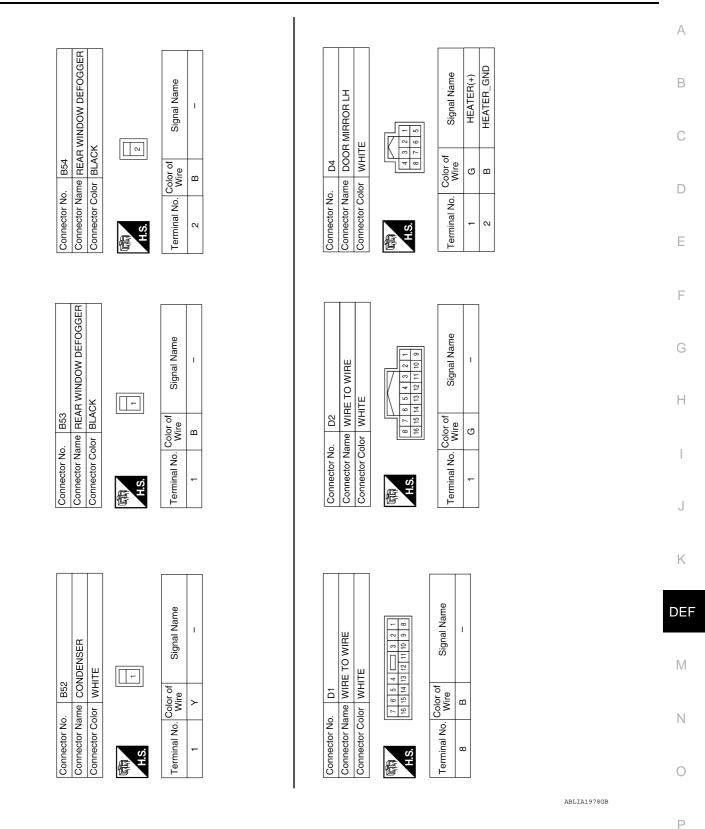
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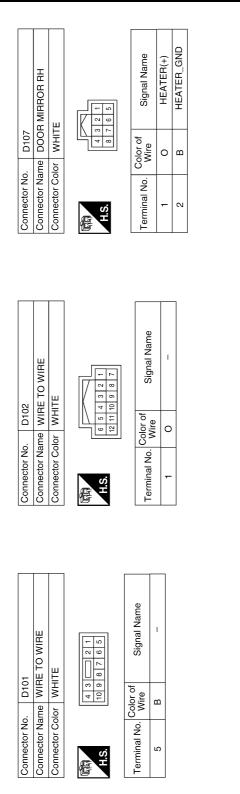
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Connector Name (REAR WINDOW DEFOGGER RELAY)

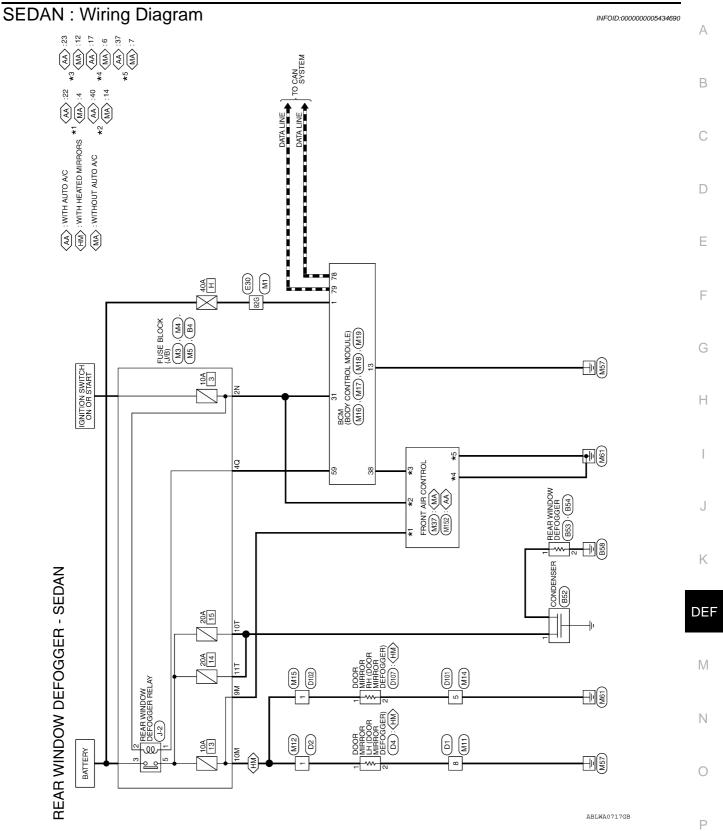
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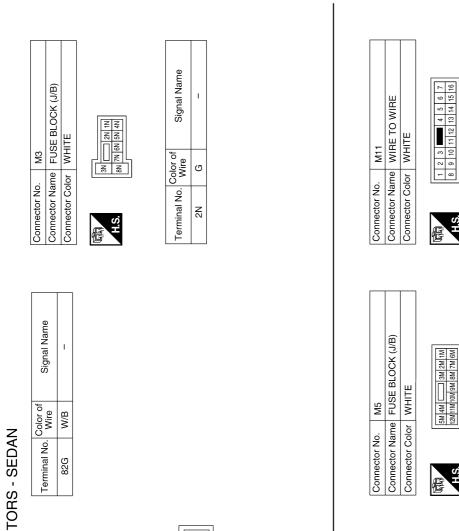
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Connector No.

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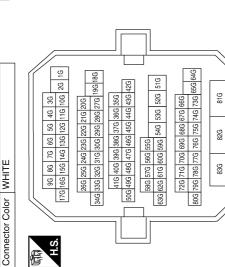


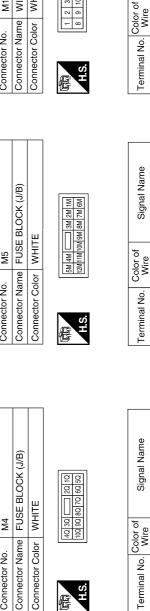
Connector Name WIRE TO WIRE

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Connector No.

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Connector No.

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Signal Name

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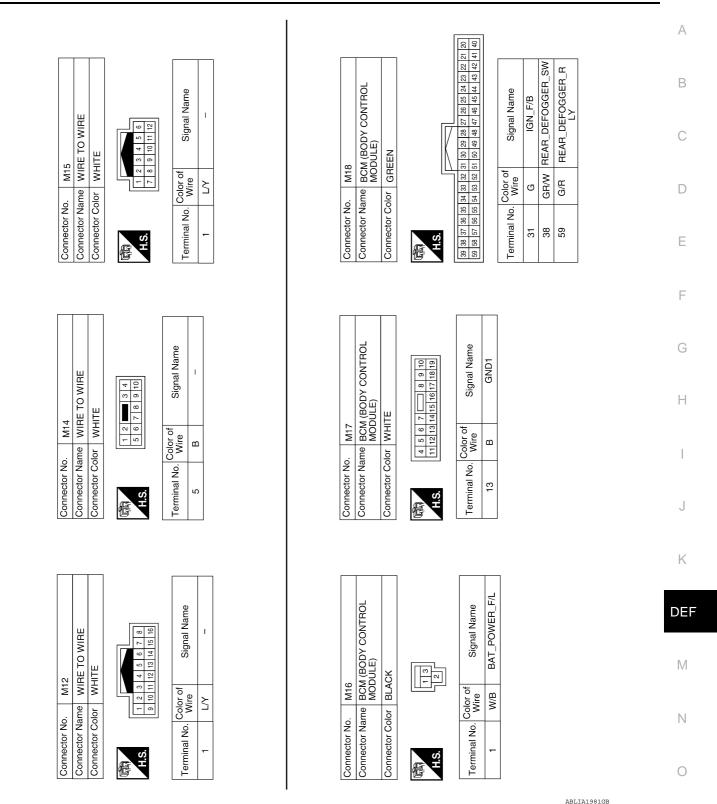
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REAR WINDOW DEFOGGER

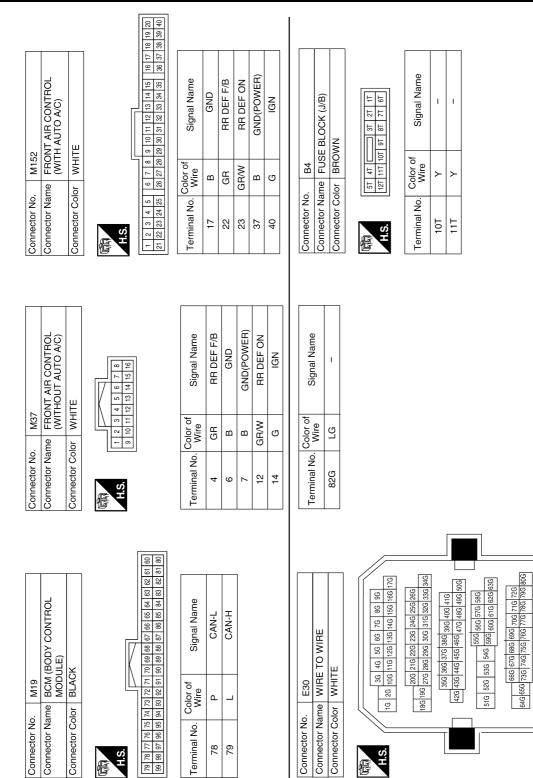
Revision: September 2009

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Revision: September 2009

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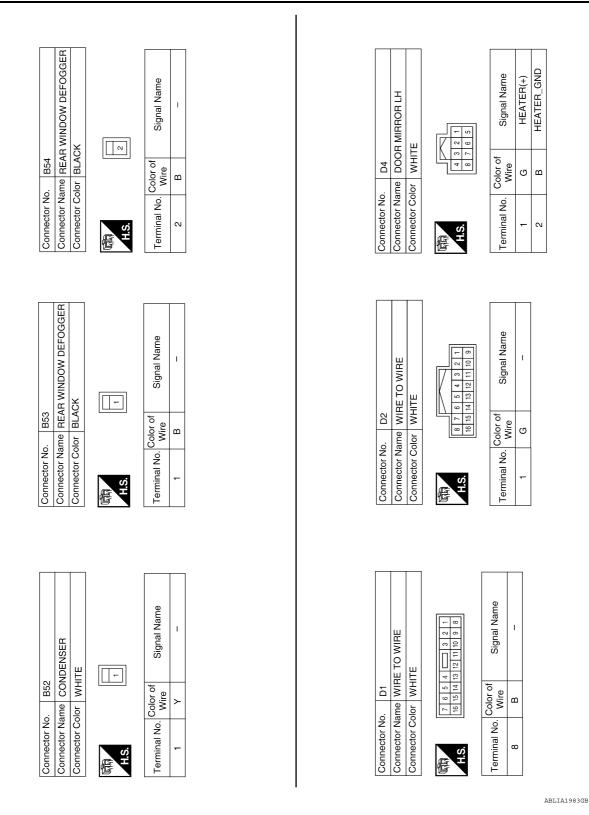
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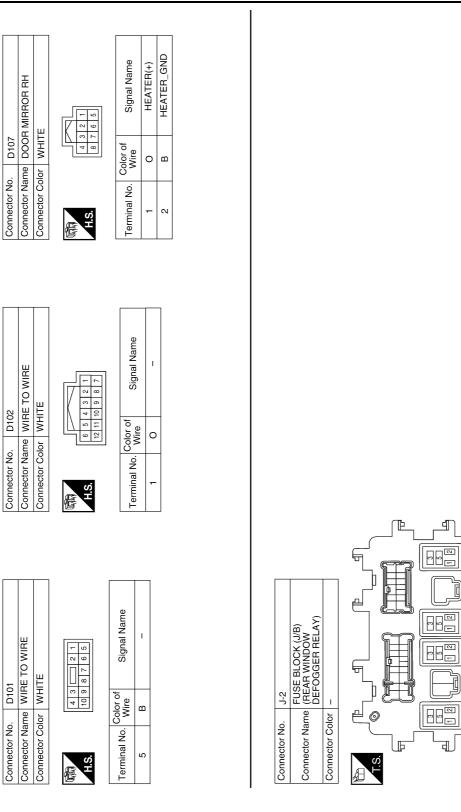
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REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPER-ATE.

< SYMPTOM DIAGNOSIS >	
SYMPTOM DIAGNOSIS	А
REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE.	В
Diagnosis Procedure	
1. CHECK REAR WINDOW DEFOGGER SWITCH	С
Check rear window defogger switch. Refer to <u>DEF-16, "Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 2 NO >> Repair or replace the malfunctioning parts. 2. CHECK REAR WINDOW DEFOGGER RELAY	D
Check rear window defogger relay. Refer to <u>DEF-14, "Component Function Check"</u> . Is the inspection result normal?	F
 YES >> Refer to <u>GI-41, "Intermittent Incident"</u>. NO >> Repair or replace the malfunctioning parts. 	G

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:000000005434692

1. CHECK REAR WINDOW DEFOGGER POWER SUPPLY AND GROUND CIRCUIT

Check rear window defogger power supply and ground circuit. Refer to <u>DEF-16</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:000000005434693	3
1. CHECK INTERMITTENT INCIDENT	L	J
Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> .	C	2
Is the inspection result normal?		
YES >> Check the following. • Battery power supply circuit. • Fuse block (J/B).	C	C
NO >> Repair or replace the malfunctioning parts		_
	F	_

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DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE.

Diagnosis Procedure

INFOID:000000005434694

1. CHECK DOOR MIRROR DEFOGGER LH

Check door mirror defogger LH.

Refer to DEF-18, "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.

PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE. < SYMPTOM DIAGNOSIS >	
PASSENGER SIDE DOOR MIRROR DEFOGGER DOES NOT OPERATE	
Diagnosis Procedure	434695
1. CHECK DOOR MIRROR DEFOGGER RH	
Check door mirror defogger RH. Refer to <u>DEF-20, "Component Function Check"</u> .	
Is the inspection result normal?	
YES >> Refer to <u>GI-41, "Intermittent Incident"</u> . NO >> Repair or replace the malfunctioning parts.	

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:000000005434696

1. CHECK FRONT AIR CONTROL (REAR WINDOW DEFOGGER SWITCH)

Check that the front air control (rear window defogger switch) is operating normally. Is the inspection result normal?

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

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

< 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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this G 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 J battery, and wait at least 3 minutes before performing any service.

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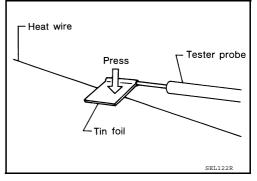
< ON-VEHICLE REPAIR > ON-VEHICLE REPAIR FILAMENT

Inspection and Repair

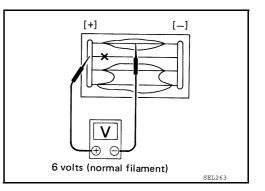
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INSPECTION

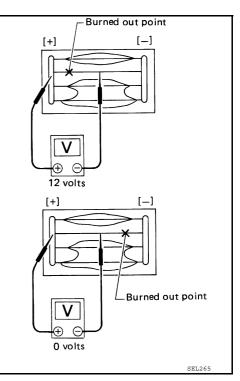
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



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



REPAIR

REPAIR EQUIPMENT

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

< ON-VEHICLE REPAIR >

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

REPAIRING PROCEDURE

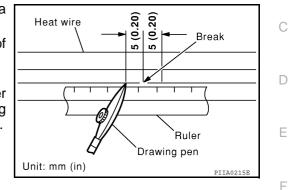
composition is deposited.

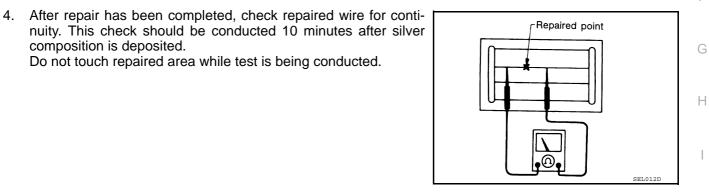
- 1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
- 2. Apply a small amount of conductive silver composition to tip of drawing pen.

Shake silver composition container before use.

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

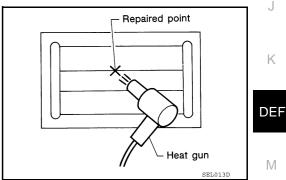
Do not touch repaired area while test is being conducted.





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

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



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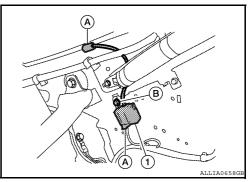
< ON-VEHICLE REPAIR >

CONDENSER

Removal and Installation - Coupe

REMOVAL

- Remove the rear seat cushion and the rear seatback. 1. Refer to SE-29, "Removal and Installation".
- 2. Remove the rear kicking plate, rear lower finisher, upper pillar finisher and rear pillar finisher. Refer to INT-14, "Removal and Installation".
- 3. Disconnect the connectors (A), remove bolt (B), and then remove condenser (1) from the vehicle body.



INSTALLATION Installation is in the reverse order of removal.

Removal and Installation - Sedan

REMOVAL

- 1. Remove the rear pillar finisher. Refer to INT-37, "Removal and Installation".
- 2. Disconnect the electrical connector, remove bolt (A), and then remove condenser (1) from the vehicle body.

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INSTALLATION Installation is in the reverse order of removal.

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