

SECTION

DEF

DEFOGGER

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000009763269

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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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DEF

COMPONENT PARTS

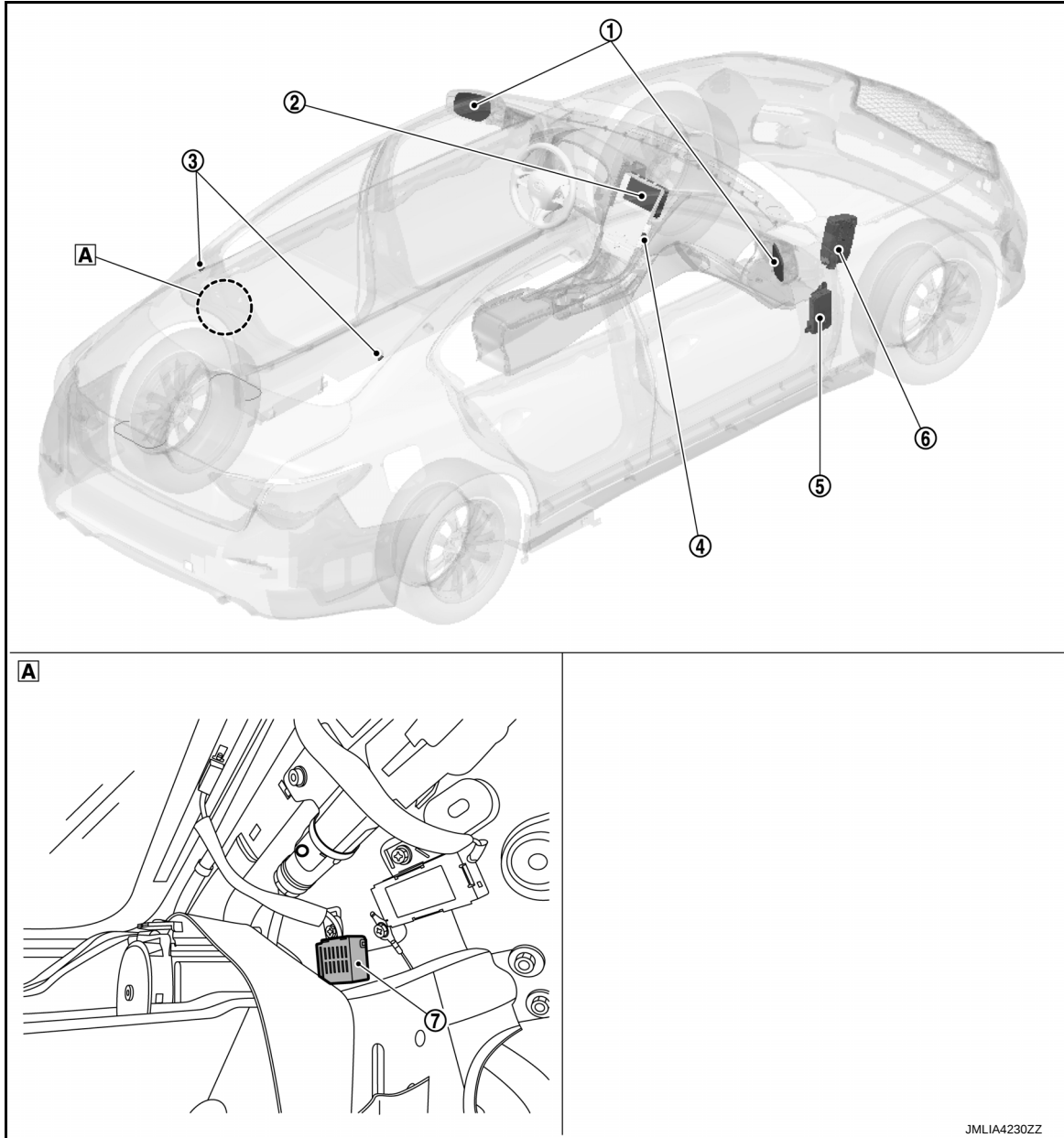
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000009404425



A Behind left rear pillar finisher

No.	Component	Function
①	Door mirror defogger	Refer to DEF-5, "Door mirror defogger" .
②	Display control unit	- Display control unit transmits rear window defogger switch signal to BCM via CAN communication. - Display control unit transmits rear window defogger feedback signal to integral switch. Refer to AV-14, "Component Parts Location" for detailed installation location.
③	Rear window defogger	Refer to DEF-5, "Rear window defogger" .

COMPONENT PARTS

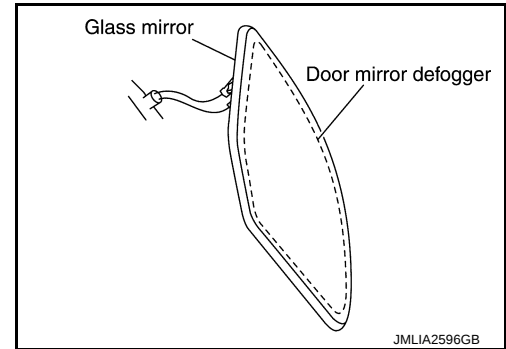
< SYSTEM DESCRIPTION >

No.	Component	Function
④	Integral switch (Rear window defogger switch)	- Rear window defogger switch is installed. - Turns the indicator lamp ON when detecting the operation of rear window defogger Refer to AV-14, "Component Parts Location" for detailed installation location.
⑤	BCM	- Receives rear window defogger switch signal. - Performs the timer control of rear window defogger. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" .
⑥	IPDM E/R	Transmits rear window defogger control signal to display control unit via CAN communication Refer to PCS-4, "Component Parts Location" .
⑦	Condenser	Reduce the noise of rear window defogger operation.

Door mirror defogger

INFOID:000000009404426

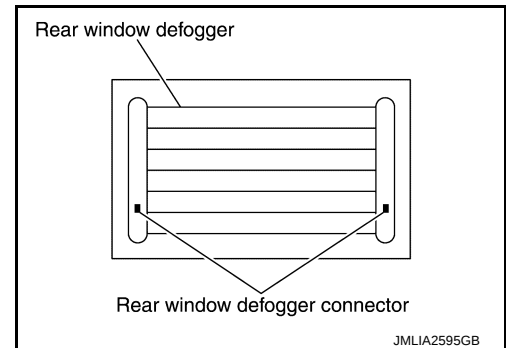
Heats the heating wire with the power supply from the rear window defogger relay to prevent the door mirror from fogging up.



Rear window defogger

INFOID:000000009404427

Heats the heating wire with the power supply from the rear window defogger relay to prevent the rear window from fogging up.



SYSTEM

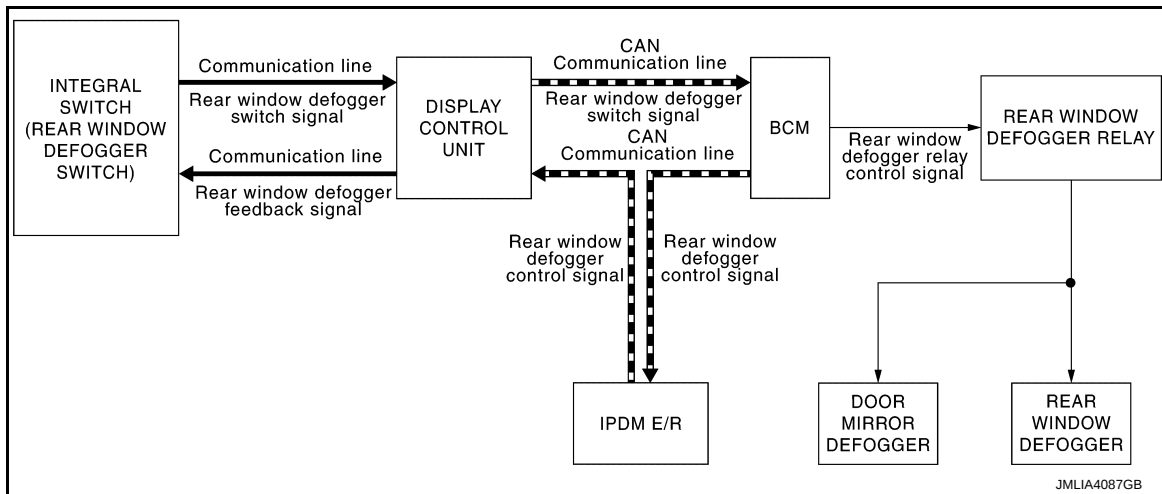
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SYSTEM

System Description

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SYSTEM DIAGRAM

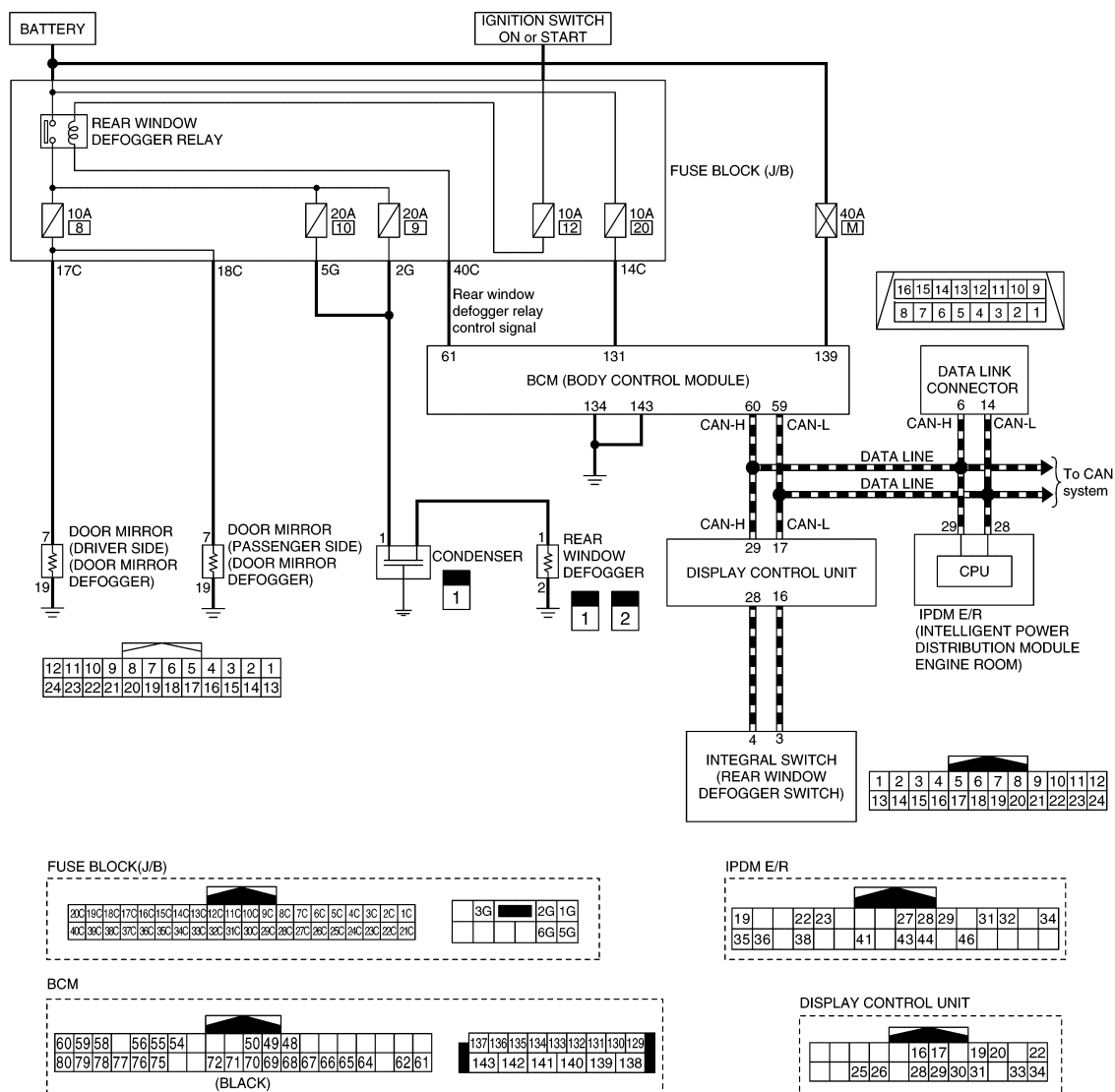


OPERATION DESCRIPTION

- Turn rear window defogger switch ON when the ignition switch turns ON. Then integral switch (rear window defogger switch) transmits rear window defogger switch signal to display control unit. Then display control unit transmits rear window defogger switch signal to BCM via CAN communication.
- BCM turns rear window defogger relay ON and transmits rear window defogger control signal to IPDM E/R via CAN communication 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.
- IPDM E/R transmits rear window defogger control signal to display control unit via CAN communication.
- Display control unit transmit rear defogger feedback signal to integral switch (rear window defogger switch) via communication, then rear window defogger indicator is illuminated.

TIMER FUNCTION

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



DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000009403896

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER	×	×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*		×	×
- Intelligent Key system - Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR			×

*: This item is not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*
	OFF		Power supply position is "OFF" (Ignition switch OFF)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

REAR WINDOW DEFOGGER

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

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WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Service item	Setting item	Description
SET R-DEF TIMER	MODE1*	NOTE: Do not use this function.
	MODE2	
	MODE3	

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

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

ACTIVE TEST

Test Item	Description
REAR DEFOGGER	Rear window defogger operates when "On" on CONSULT screen is touched

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000009238945

ECU	Reference
BCM	BCS-35, "Reference Value"
	BCS-60, "Fail-safe"
	BCS-61, "DTC Inspection Priority Chart"
	BCS-62, "DTC Index"

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

REAR WINDOW DEFOGGER SYSTEM

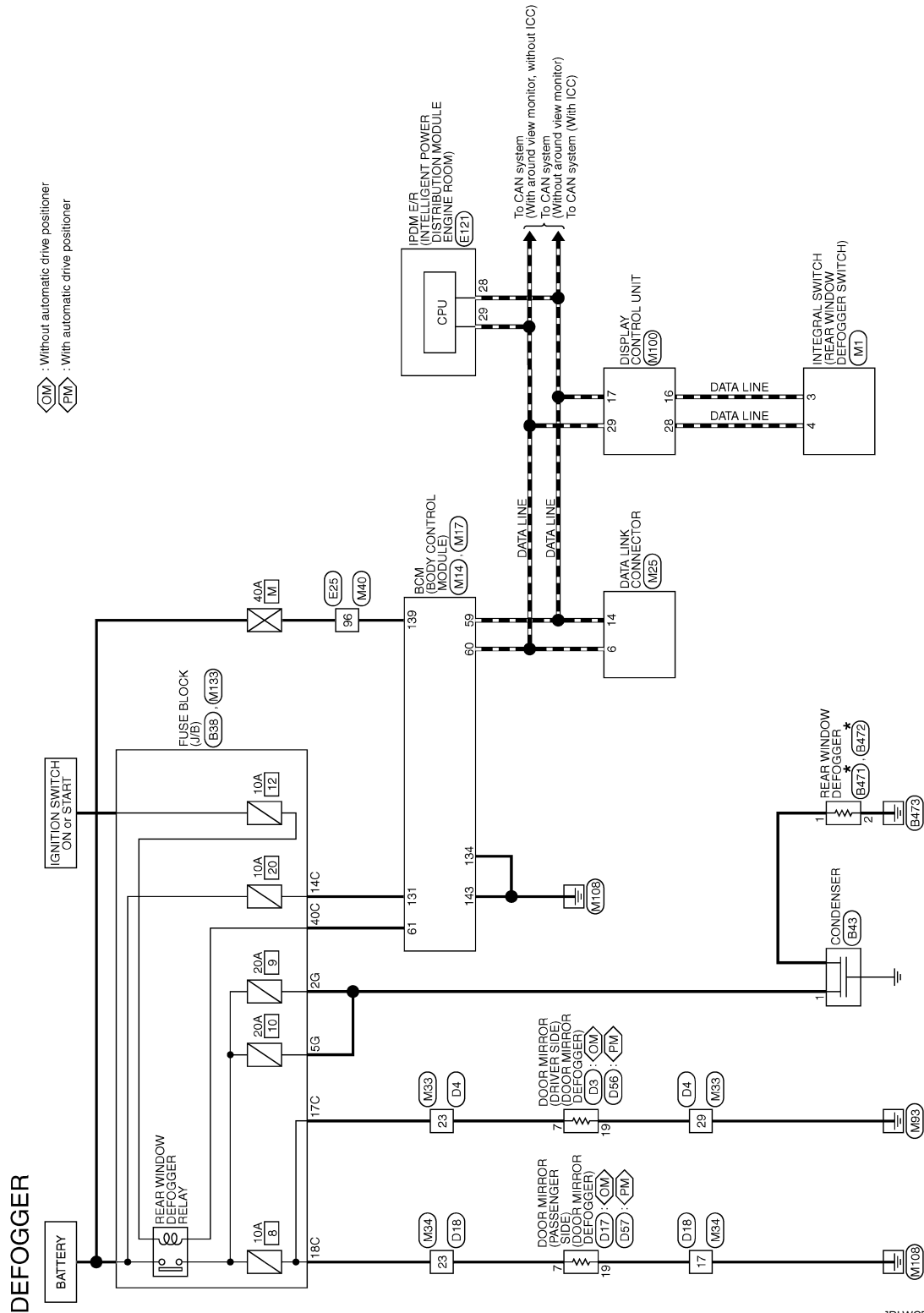
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WIRING DIAGRAM

REAR WINDOW DEFOGGER SYSTEM

Wiring Diagram

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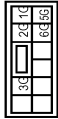
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REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >

DEFOGGER

Connector No.	B38
Connector Name	FUSE BLOCK (J.B)
Connector Type	NSJDFW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BR	-
3	BR	-
4	W	-
5	G	-

Connector No.	B43
Connector Name	CONDENSER
Connector Type	MDJFW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-

Connector No.	B471
Connector Name	REAR WINDOW DEFOGGER
Connector Type	PRJFB-A



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-

Connector No.	B472
Connector Name	REAR WINDOW DEFOGGER
Connector Type	PRJFB-A



Terminal No.	Color Of Wire	Signal Name [Specification]
2	-	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH2AMW-IN4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	R	-
3	L	-
4	SS	-
5	P	-
6	Y	-
7	GR	-
8	L	-
9	V	-
10	B	-
11	B	-
12	B	-
13	B	-
14	B	-
15	B	-
16	B	-
17	B	-
18	B	-
19	B	-

Connector No.	D4
Connector Name	WIRE TO WIRE
Connector Type	NH8JFW-TS12

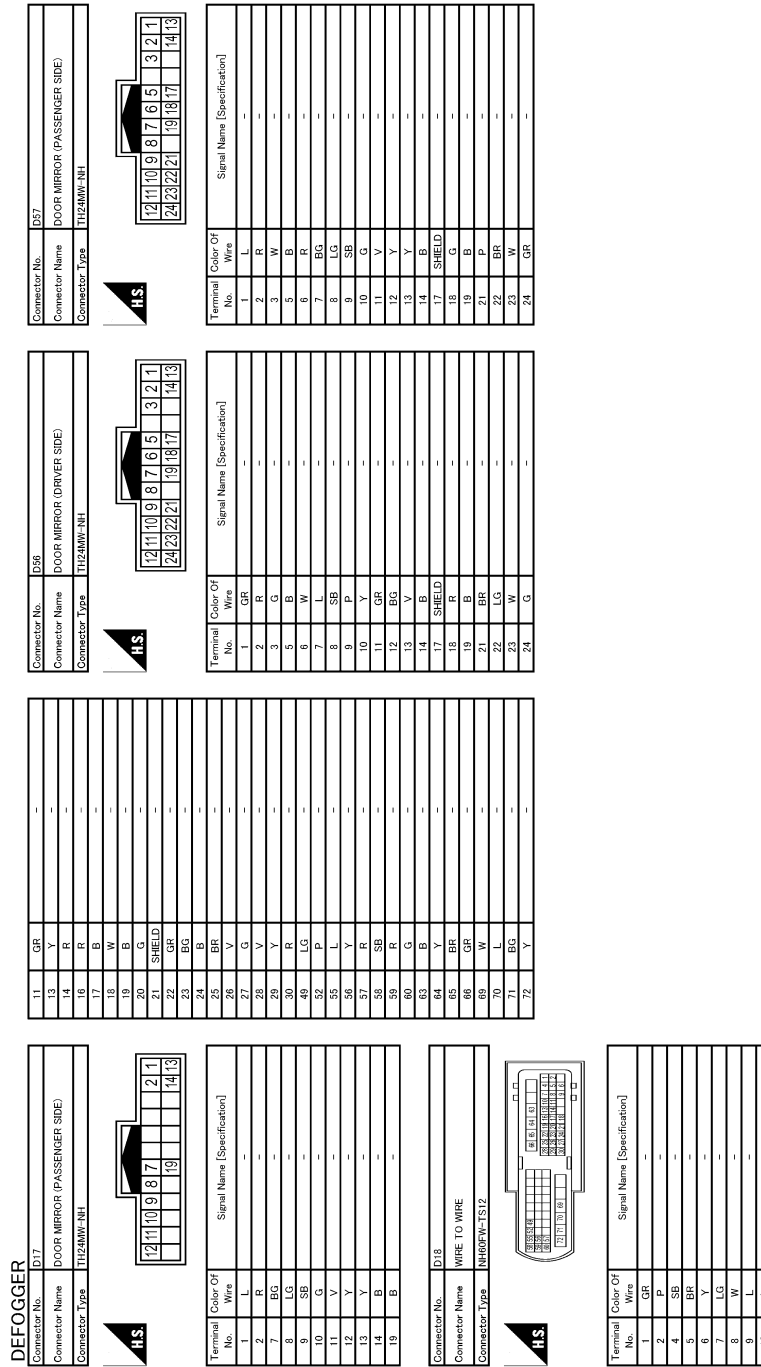


Terminal No.	Color Of Wire	Signal Name [Specification]
1	SS	- [With DRPO]
2	SS	- [Without DRPO]
3	SS	- [With DRPO]
4	SS	- [Without DRPO]
5	R	- [With DRPO]
6	Y	- [Without DRPO]
7	V	-
8	LG	-
9	G	-
10	GR	-
11	Y	-
12	SHIELD	-
13	EG	-
14	L	-
15	B	-
16	GR	-
17	P	-
18	GR	-
19	R	-
20	W	-

21	LG	-
22	W	-
23	L	-
24	G	-
25	BR	-
26	R	-
27	BR	-
28	V	-
29	B	-
30	W	-
31	P	-
32	Y	-
33	BR	-
34	L	-
35	R	-
36	GR	-
37	G	-
38	P	-
39	L	-
40	EG	-
41	Y	-
42	W	-
43	R	-
44	B	-
45	Y	-
46	BR	-
47	B	-
48	Y	-
49	GR	-
50	V	-
51	SS	-
52	SS	-
53	SS	-
54	SS	-
55	SS	-
56	SS	-
57	SS	-
58	SS	-
59	SS	-
60	SS	-
61	SS	-
62	SS	-
63	SS	-
64	SS	-
65	SS	-
66	SS	-
67	SS	-
68	SS	-
69	SS	-
70	SS	-
71	SS	-
72	SS	-

REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >



REAR WINDOW DEFOGGER SYSTEM

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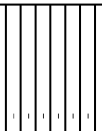
DEFOGGER

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH48FW-CS16-TM4



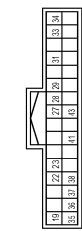
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	BR	-
4	BR	-
5	BR	-
6	V	-
7	L	-
8	BR	-
9	BR	-
10	BR	-
11	L	-
12	GR	-
13	W	-
14	B	-
15	SB	-
16	Y	-
17	BR	-
18	P	-
19	P	-
20	GR	-
21	GR	-
22	GR	-
23	GR	-
24	V	-
25	L	-
26	Y	-
27	SB	-
28	SB	-
29	SB	-
30	SB	-
31	SB	-
32	SB	-
33	SB	-
34	SB	-
35	SB	-
36	SB	-
37	V	-
38	L	-
39	Y	-
40	SB	-
41	LG	-
42	Y	-
43	W	-
44	W	-
45	W	-
46	B	-
47	G	-
48	SHIELD	-
49	R	-
50	BR	-
51	BR	-
52	W	-
53	V	-
54	P	-
55	W	-
56	SB	-

37	BG	-
38	W	-
39	W	-
40	W	-
41	R	-
42	Y	-
43	SB	-
44	GR	-
45	LG	-
46	BG	-
47	LG	-
48	V	-
49	G	-
50	BR	-
51	BR	-
52	W	-
53	V	-
54	P	-
55	W	-
56	SB	-



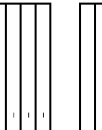
57	BG	-
58	W	-
59	W	-
60	W	-
61	R	-
62	Y	-
63	SB	-
64	GR	-
65	LG	-
66	BG	-
67	LG	-
68	V	-
69	G	-
70	BR	-
71	BR	-
72	W	-
73	G	-
74	BR	-
75	V	-
76	V	-
77	SB	-
78	SB	-
79	R	-
80	BG	-
81	G	-
82	Y	-
83	GR	-
84	GR	-
85	BG	-
86	W	-
87	LG	-
88	L	-
89	P	-
90	SHIELD	-

Connector No.	E21
Connector Name	WIRE TO INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH43FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	G	-
3	BG	-
4	BG	-
5	LG	-
6	GR	-
7	GR	-
8	P	-
9	L	-
10	G	-
11	G	-
12	G	-
13	G	-
14	G	-
15	G	-
16	G	-
17	G	-
18	G	-
19	G	-
20	G	-

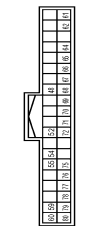
33	SB	-
34	G	-
35	G	-
36	SB	-
37	GR	-
38	GR	-
39	BR	-
40	GR	-
41	GR	-
42	V	-
43	V	-



Connector No.	M1
Connector Name	INTEGRAL SWITCH
Connector Type	TH44FW-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT
2	W	AV COMM (L)
3	SB	AV COMM (H)
4	LG	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
5	G	DISK EJECT SIGNAL
6	W/B	DISK EJECT SIGNAL
7	B	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
8	B	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
9	B	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
10	B	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
11	B	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
12	B	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
13	B	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
14	V	ACG
15	B	ILLUMINATION CONTROL SIGNAL
16	BG	DISK EJECT SIGNAL GROUND
17	R	IGN
18	R	IGN
19	BR	CAMERA SWITCH SIGNAL
20	LG	AIR BAG INDICATOR OFF SIGNAL

Connector No.	M4
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH46FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	PUSH-BTN IGN SWILL PWR
2	R	PUSH-BTN IGN SWILL PWR
3	G	IGN SWILL PWR
4	V	IGN SWILL PWR
5	R	IGN SWILL PWR
6	R	IGN SWILL PWR
7	P	CAN-H
8	L	REAR WINDOW DEF RLY CONT
9	G	REAR WINDOW DEF RLY CONT
10	R	STARTER RLY CONT
11	V	I-KEY WARN BUZZER
12	B	OUTS HD LAMP CONT
13	B	BLOWER FAN RLY CONT
14	W/B	IGN RLYAY (7/B) CONT
15	R	DIMMER
16	GR	A/T SHIFT SELECT PWR SPLY
17	B	IGN RLYAY (7/B) CONT
18	G	IGN RLYAY (7/B) CONT
19	SB	PASS DOOR SW
20	SB	PASS DOOR SW
21	SB	COMBI SW INPUT 3
22	SB	COMBI SW INPUT 4
23	BG	COMBI SW INPUT 2
24	V	COMBI SW INPUT 1
25	Y	COMBI SW INPUT 1
26	LG	TR LID OPNE SW
27	L	TR LID OPNE SW

REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >

DEFOGGER

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEASBEW-FH46-SA



137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Terminal No.	Color Of Wire	Signal Name [Specification]
130	LG	INT ROOM LAMP PWR SPLY
131	R	PASS DOOR FL LID UNLK OUTPUT
132	Y	BAT (FUSE)
133	V	RR RL DOOR LK OUTPUT
134	BR	RR RL DOOR UNLK OUTPUT
135	B	GND
136	V	FRONT DOOR FL LID LK OUTPUT
137	LG	INT ROOM LAMP CONT
138	P	FRONT DOOR FL LID UNLK OUTPUT
139	W	REAR DOORS ACT PWR SPLY
140	BR	BAT (7/L)
141	R	IGN ON
142	R	PWR SPLY (BAT)
143	R	FRONT DOORS FL LID ACT PWR SPLY
144	B	GND

Connector No.	M25
Connector Name	DATA LNK CONNECTOR
Connector Type	ED1BEW



		11	12	13	14	15	16
		3	4	5	6	7	8

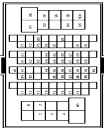
REAR WINDOW DEFOGGER SYSTEM

< WIRING DIAGRAM >

DEFOGGER

37	G	-
41	GR	-
45	W	-
46	LG	-
48	R	-
60	GR	-
63	B	-
64	R	-
65	BR	-
66	Y	-
69	BR	-
70	Y	-
71	SB	-
72	W	-

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	Y	-
4	V	-
6	W/B	-
7	V	-
10	W	-
11	W	-
12	B	-
13	GR	-
14	B	-
15	SB	-
16	B	-
17	LG	-
18	B	-
31	W	-
32	V	-
35	BG	-
36	G	-
37	B	-
38	L	-
39	Y	-
40	GR	-

41	L	-
44	BR	-
45	W	-
46	G	-
47	R	-
48	SHIELD	-
49	B	-
50	BR	-
51	L	-
52	W	-
53	G	-
54	Y	-
55	P	-
56	BG	-
57	GR	-
58	SB	-
59	SB	-
61	W/B	-
64	Y	-
65	R	-
66	V	-
67	LG	-
68	BG	-
71	V	-
72	LG	-
73	R	-
74	BR	-
75	B	-
76	G	-
83	R	-
86	V	-
87	W	-
92	R	-
94	BG	-
95	BR	-
96	W	-
97	LG	-
98	Y	-
99	BR	-
100	SHIELD	-

Connector No.	M100
Connector Name	DISPLAY CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
15	SB	AV COMM (L)
16	GR	AV COMM (H)
19	P	DIMMER SIGNAL
20	GR	REVERSE SIGNAL
22	B	GND
25	SB	-
26	BR	CAMERA SWITCH SIGNAL
28	LG	AV COMM (H)
29	L	CAN-H
30	R	IGN
31	R	VEHICLE SPEED SIGNAL (9-PULSE)
33	SB	ACC
34	Y	BAT

Connector No.	M133
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH80FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
100	Y	-
110	V	-
130	V	-
140	L	-
150	R	-
160	R	-
170	L	-

180	BG	- [Without DPO]
190	B	- [With DPO]
190	B	-
200	W	-
210	W	-
220	L	-
230	L	-
250	LG	-
260	SB	-
270	P	-
280	W	-
290	W	-
300	R	-
310	W	-
320	R	-
330	B	-
340	W/B	-
350	SB	-
360	R	-
370	W	-
380	SB	-
390	V	-
400	G	-
400	G	-
400	P	-
50	G	-
60	G	-
70	G	-
80	V	-

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000009238947

DETAILED FLOW

1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much as possible when the customer brings the vehicle in.

>> GO TO 2.

2.CHECK DTC

Perform self diagnosis with CONSULT

Is any DTC detected?

YES >> Refer to [BCS-62, "DTC Index"](#).

NO >> GO TO 3.

3.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.

Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 4.

4.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 3. Then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 5.

5.IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 6.

6.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 7.

7.FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3.

Are all malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 4.

REAR WINDOW DEFOGGER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

REAR WINDOW DEFOGGER SWITCH

Component Function Check

INFOID:0000000009238948

1.CHECK REAR WINDOW DEFOGGER SWITCH FUNCTION

Check that the indicator lamp of rear window defogger illuminates when rear window defogger switch ON.

Is the inspection result normal?

YES >> Rear window defogger switch function is OK.

NO >> Refer to [DEF-19. "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:0000000009238949

1.CHECK INTEGRAL SWITCH (REAR WINDOW DEFOGGER SWITCH)

Does integral switch operate normally?

Refer to [AV-267. "Symptom Table"](#).

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace integral switch (rear window defogger switch).

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

DEF

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER RELAY

Component Function Check

INFOID:000000009238950

1.CHECK REAR WINDOW DEFOGGER RELAY POWER SUPPLY CIRCUIT

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the rear window heating wire is getting warmer.

Is the inspection result normal?

- YES >> Rear window defogger relay power supply circuit is OK.
NO >> Refer to [DEF-20. "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000009238951

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10A fuse [No.12, located in fuse block (J/B)].

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK REAR WINDOW DEFOGGER CIRCUIT 1

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

(+) BCM		(-)	Condition	Voltage (V)
Connector	Terminal			
M14	61	Ground	Rear window defogger switch	ON
			OFF	0 – 1 9 – 16

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 3.

3.CHECK REAR WINDOW DEFOGGER CIRCUIT 2

1. Turn ignition switch OFF.
2. Disconnect BCM connector and rear window defogger relay.
3. Check continuity between BCM harness connector and fuse block (J/B) harness connector.

BCM		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
M14	61	M133	40C	Existed

Is the inspection result normal?

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

4.CHECK REAR WINDOW DEFOGGER RELAY

Check rear window defogger relay.

Refer to [DEF-21. "Component Inspection"](#)

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace rear window defogger relay.

5.CHECK FUSE BLOCK (J/B)

1. Install the rear window defogger relay.

REAR WINDOW DEFOGGER RELAY

< DTC/CIRCUIT DIAGNOSIS >

- Turn ignition switch ON.
- Check voltage between fuse block (J/B) (fuse block side) and ground.

(+)		(-)	Voltage (V) (Approx.)
Fuse block (J/B)			
Connector	Terminal		
M133	40C	Ground	Battery voltage

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Repair or replace fuse block (J/B).

6.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to [GI-43, "Intermittent Incident"](#).

>> INSPECTION END.

Component Inspection

INFOID:000000009238952

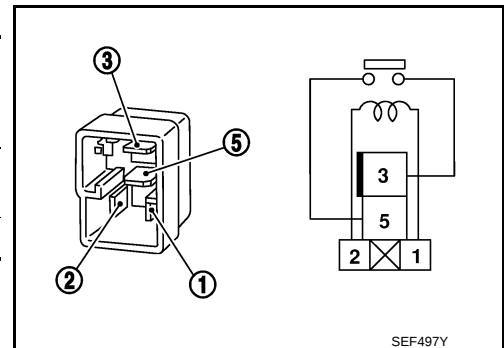
1.CHECK REAR WINDOW DEFOGGER RELAY

- Turn ignition switch OFF.
- Disconnect rear window defogger relay.
- Check continuity between rear window defogger relay terminals.

Terminal		Condition	Continuity
Rear window defogger relay			
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed

Is the inspection result normal?

- YES >> INSPECTION END.
NO >> Replace rear window defogger relay.



DEF

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

REAR WINDOW DEFOGGER

Component Function Check

INFOID:000000009238953

1.CHECK REAR WINDOW DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the rear window heating wire is getting warmer.

Is the inspection result normal?

- YES >> Rear window defogger is OK.
NO >> Refer to [DEF-22. "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000009238954

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse is not fusing.

Fuse No.	Capacity
9	20 A
10	

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK POWER SUPPLY CIRCUIT

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

(+)		(-)	Condition		Voltage (V) (Approx.)
Rear window defogger					
Connector	Terminal				
B471	1	Ground	Rear window defogger switch	ON	Battery voltage
				OFF	0

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 4.

3.CHECK GROUND CIRCUIT

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

Rear window defogger		Ground	Continuity
Connector	Terminal		
B472	2		Existed

Is the inspection result normal?

- YES >> GO TO 8.
NO >> Repair or replace harness.

4.CHECK REAR WINDOW DEFOGGER CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect condenser connector and rear window defogger connector.

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between condenser and rear window defogger harness connector.

Condenser		Rear window defogger		Continuity
Terminal	Connector	Terminal	Connector	
1	B471	1		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or condenser.

5.CHECK REAR WINDOW DEFOGGER CIRCUIT 2

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

Fuse block (J/B)		Condenser		Continuity
Connector	Terminal	Connector	Terminal	
B38	2G	B43	1	Existed
	5G			

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

Fuse block (J/B)		Ground	Continuity
Connector	Terminal		
B38	2G		Existed
	5G		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.
2. Check voltage between fuse block (J/B) (fuse block side) and ground.

(+)	(–)	Condition		Voltage (V) (Approx.)
Fuse block (J/B)				
Terminal				
2G	Ground	Rear window defogger switch	ON	Battery voltage
5G			OFF	0
			ON	Battery voltage
			OFF	0

Is the inspection result normal?

YES >> GO TO 7.

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

7.CHECK CONDENSER

Check condenser. Refer to [DEF-24, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace condenser.

8.CHECK FILAMENT

Check the filament for damage or blown.
Refer to [DEF-35, "Inspection and Repair"](#).

Is the inspection result normal?

REAR WINDOW DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 9.
NO >> Repair filament.

9.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to [GI-43. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000009716245

1.CHECK CONDENSER

Check continuity between condenser and ground part of condenser.

Condenser	Ground part of condenser	Continuity
Terminal		
1		Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace condenser.

DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR DEFOGGER

Component Function Check

INFOID:000000009238956

1.CHECK DOOR MIRROR DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that both side door mirror glass is getting warmer.

Is the inspection result normal?

- YES >> Door mirror defogger is OK.
NO >> Refer to [DEF-25. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009695237

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse is not fusing.

Fuse No.	Capacity
8	10 A

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

2.CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.
2. Check voltage between fuse block (J/B) harness connector and ground.

(+)		(-)	Condition		Voltage (V) (Approx.)
Fuse block (J/B)					
Connector	Terminal				
M133	17C	Ground	Rear window defogger switch	ON	Battery voltage
				OFF	0
	18C			ON	Battery voltage
				OFF	0

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace fuse block (J/B).

3.CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to [GI-43. "Intermittent Incident"](#).

>> INSPECTION END

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DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

DRIVER SIDE DOOR MIRROR DEFOGGER

Component Function Check

INFOID:000000009238958

1.CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the driver side door mirror glass is getting warmer.

Is the inspection result normal?

- YES >> Driver side door mirror defogger is OK.
NO >> Refer to [DEF-26. "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000009238959

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect door mirror (driver side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (driver side) harness connector and ground.

Without automatic drive positioner

(+)		(-)	Condition		Voltage (V) (Approx.)
Door mirror (driver side)					
Connector	Terminal				
D3	7	Ground	Rear window defogger switch	ON	Battery voltage
				OFF	0

With automatic drive positioner

(+)		(-)	Condition		Voltage (V) (Approx.)
Door mirror (driver side)					
Connector	Terminal				
D56	7	Ground	Rear window defogger switch	ON	Battery voltage
				OFF	0

Is the inspection result normal?

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

2.CHECK DRIVER SIDE DOOR MIRROR DEFOGGER CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect fuse block (J/B) connector.
3. Check continuity between fuse block (J/B) harness connector and door mirror (driver side) harness connector.

Without automatic drive positioner

Fuse block (J/B)		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M133	17C	D3	7	Existed

With automatic drive positioner

Fuse block (J/B)		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M133	17C	D56	7	Existed

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

DRIVER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Fuse block (J/B)		Ground	Continuity
Connector	Terminal		
M133	17C	Ground	Not existed

Is the inspection result normal?

- YES >> Replace fuse block (J/B).
NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror (driver side) harness connector and ground.

Without automatic drive positioner

Door mirror (driver side)		Ground	Continuity
Connector	Terminal		
D3	19	Ground	Existed

With automatic drive positioner

Door mirror (driver side)		Ground	Continuity
Connector	Terminal		
D56	19	Ground	Existed

Is the inspection result normal?

- YES >> Replace glass mirror (driver side). Refer to [MIR-49, "DOOR MIRROR : Removal and Installation"](#) (with automatic drive positioner) or [MIR-84, "DOOR MIRROR : Removal and Installation"](#) (without automatic drive positioner).
NO >> Repair or replace harness.

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PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE DOOR MIRROR DEFOGGER

Component Function Check

INFOID:000000009238961

1.CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

1. Perform Active Test ("REAR DEFOGGER") with CONSULT.
2. Touch "ON".
3. Check that the passenger side door mirror glass is getting warmer.

Is the inspection result normal?

- YES >> Passenger side door mirror defogger is OK.
NO >> Refer to [DEF-28. "Diagnosis Procedure"](#)

Diagnosis Procedure

INFOID:000000009238962

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect door mirror (passenger side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (passenger side) harness connector and ground.

Without automatic drive positioner

(+)		(-)	Condition		Voltage (V) (Approx.)
Door mirror (Passenger side)					
Connector	Terminal				
D17	7	Ground	Rear window defogger switch	ON	Battery voltage
				OFF	0

With automatic drive positioner

(+)		(-)	Condition		Voltage (V) (Approx.)
Door mirror (Passenger side)					
Connector	Terminal				
D57	7	Ground	Rear window defogger switch	ON	Battery voltage
				OFF	0

Is the inspection result normal?

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

2.CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER

1. Turn ignition switch OFF.
2. Disconnect fuse block (J/B) connector.
3. Check continuity between fuse block (J/B) harness connector and door mirror (passenger side) harness connector.

Without automatic drive positioner

Fuse block (J/B)		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M133	18C	D17	7	Existed

With automatic drive positioner

Fuse block (J/B)		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M133	18C	D57	7	Existed

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

PASSENGER SIDE DOOR MIRROR DEFOGGER

< DTC/CIRCUIT DIAGNOSIS >

Fuse block (J/B)		Ground	Continuity
Connector	Terminal		
M133	18C	Ground	Not existed

Is the inspection result normal?

- YES >> Replace fuse block (J/B).
NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Check continuity between door mirror (passenger side) harness connector and ground.

Without automatic drive positioner

Door mirror (passenger side)		Ground	Continuity
Connector	Terminal		
D17	19	Ground	Existed

With automatic drive positioner

Door mirror (passenger side)		Ground	Continuity
Connector	Terminal		
D57	19	Ground	Existed

Is the inspection result normal?

- YES >> Replace glass mirror (passenger side). Refer to [MIR-49, "DOOR MIRROR : Removal and Installation"](#) (with automatic drive positioner) or [MIR-84, "DOOR MIRROR : Removal and Installation"](#) (without automatic drive positioner).
NO >> Repair or replace harness.

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DEF

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

REAR WINDOW DEFOGGER AND DOOR MIRROR DEFOGGER DO NOT OPERATE

Diagnosis Procedure

INFOID:000000009238964

1. CHECK REAR WINDOW DEFOGGER SWITCH

Check rear window defogger switch.

Refer to [DEF-19, "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-20, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK DOOR MIRROR DEFOGGER

Check door mirror defogger.

Refer to [DEF-25, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >

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

Diagnosis Procedure

INFOID:0000000009238965

1.CHECK REAR WINDOW DEFOGGER

Check rear window defogger.

Refer to [DEF-22, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> GO TO 1.

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DOOR MIRROR DEFOGGER DOES NOT OPERATE BUT REAR WINDOW DEFOGGER OPERATES

< SYMPTOM DIAGNOSIS >

DOOR MIRROR DEFOGGER DOES NOT OPERATE BUT REAR WINDOW DEFOGGER OPERATES

BOTH SIDES

BOTH SIDES : Diagnosis Procedure

INFOID:000000009238966

1.CHECK DOOR MIRROR DEFOGGER

Check door mirror defogger.

Refer to [DEF-25, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009238967

1.CHECK DRIVER SIDE DOOR MIRROR DEFOGGER

Check driver side door mirror defogger.

Refer to [DEF-26, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009238968

1.CHECK PASSENGER SIDE DOOR MIRROR DEFOGGER.

Check passenger side door mirror defogger.

Refer to [DEF-28, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> GO TO 1.

ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT IS OPERATED

< SYMPTOM DIAGNOSIS >

ON IS NOT DISPLAYED WHEN PRESSING REAR WINDOW DEFOGGER SWITCH BUT IT IS OPERATED

Diagnosis Procedure

INFOID:0000000009238969

1.CHECK DISPLAY CONTROL UNIT FUNCTION

Check that the display control unit is operating normally.

Refer to [AV-162, "Work Flow"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> GO TO 1.

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REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

REAR WINDOW DEFOGGER INDICATOR DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000009238970

1. CHECK INTEGRAL SWITCH (REAR WINDOW DEFOGGER SWITCH)

Check rear window defogger switch. Refer to [DEF-19, "Component Function Check"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace integral switch (rear window defogger switch).

FILAMENT

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

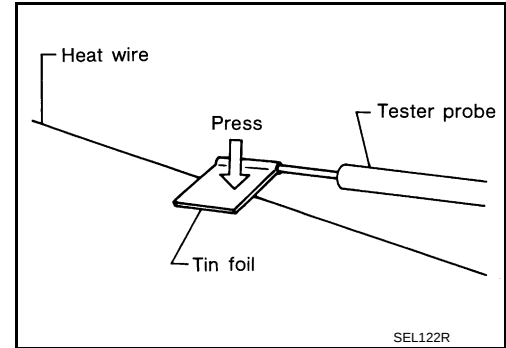
FILAMENT

Inspection and Repair

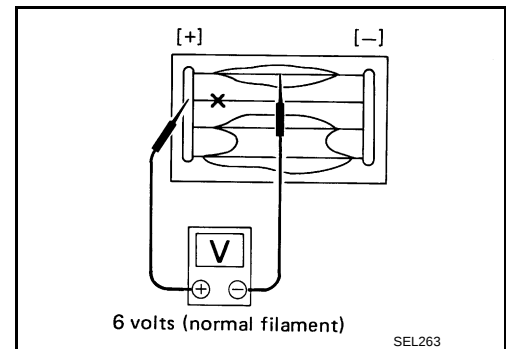
INFOID:000000009238971

INSPECTION

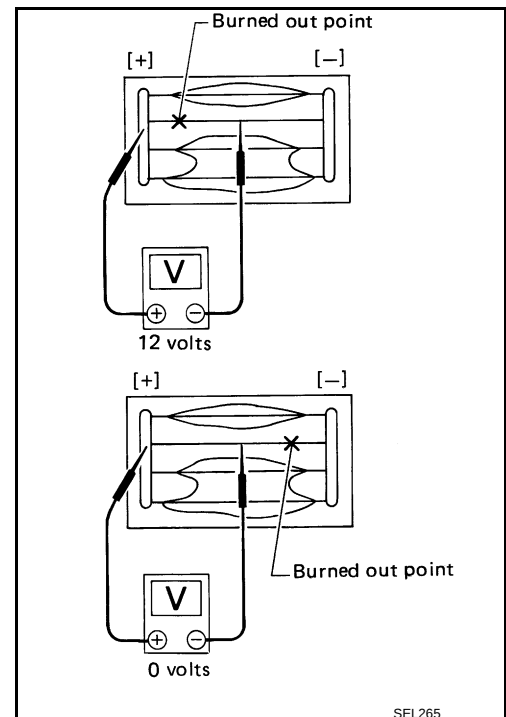
1. When measuring voltage, wrap tin foil around the top of the negative probe. Then press the foil against the wire with your finger.



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



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



REPAIR

REPAIR EQUIPMENT

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

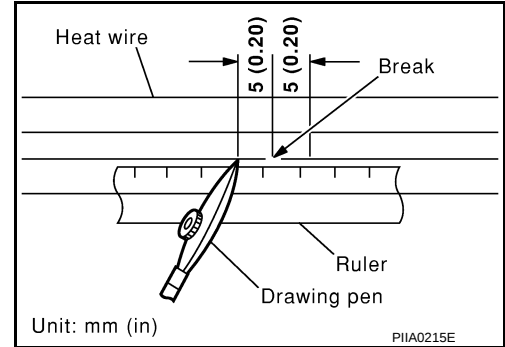
FILAMENT

< REMOVAL AND INSTALLATION >

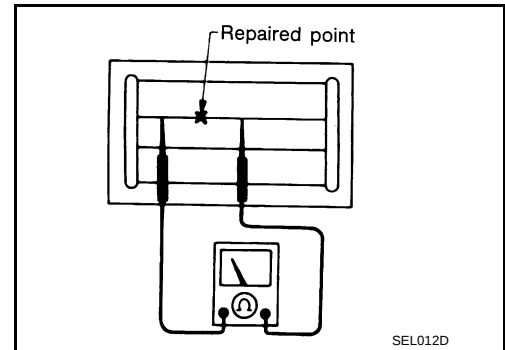
- Ruler 30 cm (11.8 in) long
- Drawing pen
- Heat gun
- Alcohol
- Cloth

REPAIRING PROCEDURE

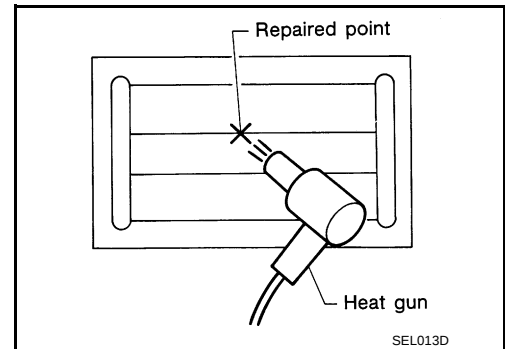
1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
2. Apply a small amount of conductive silver composition to tip of drawing pen. Shake silver composition container before use.
3. Place ruler on glass along broken line. Deposit conductive silver composition on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



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



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



CONDENSER

< REMOVAL AND INSTALLATION >

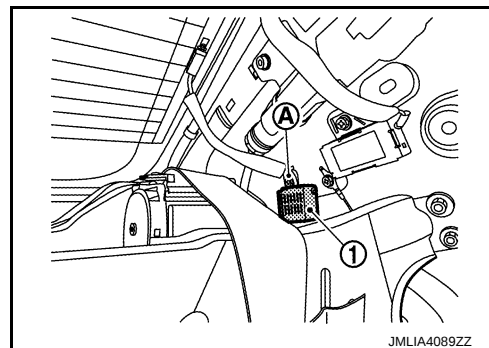
CONDENSER

Removal and Installation

INFOID:000000009687131

REMOVAL

1. Remove the rear pillar finisher.
Refer to [INT-33, "Removal and Installation"](#).
2. Remove the condenser mounting bolt (A), and then remove the condenser (1).



INSTALLATION

Install in the reverse order of removal.

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