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BASE AUDIO

< WIRING DIAGRAM >

[BASE AUDIO]

BASE AUDIO

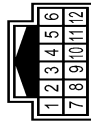
Connector No.	Color Of Wire	Signal Name [Specification]
70	P	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	W	-
82	BR	-
83	GR	-
84	L	-
85	LG	-
86	V	-
87	BR	-
88	5B	-
93	Y	-
94	L	-
95	W	-
96	L	-
97	LG	- [Couple models]
98	5B	- [Rearster models]
99	W/B	- [Rearster models]
200	B	-

Connector No.	Color Of Wire	Signal Name [Specification]
IM12	-	-
Connector Name	TWEETER LH	
Connector Type	TK02BR	



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

Connector No.	Color Of Wire	Signal Name [Specification]
IM18	-	-
Connector Name	WIRE TO WIRE	
Connector Type	TH12AW-AH	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	R	-
4	B	-
5	P	-
6	R	-
7	SHIELD	-
8	R	-
9	G	-
10	G	-
11	G	-
12	Y	-

Connector No.	Color Of Wire	Signal Name [Specification]
IM28	-	-
Connector Name	AUDIO UNIT	
Connector Type	TH18FW-632	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BOSE AMP ON SIGNAL
2	L	SOUND SIGNAL FRONT SPEAKER LH (-) [Without active noise control]
3	V	SOUND SIGNAL FRONT SPEAKER RH (+) [Without active noise control]
4	L	SOUND SIGNAL REAR SPEAKER LH (-)
5	R	SOUND SIGNAL REAR SPEAKER RH (+)
6	W	STEERING SW SIGNAL A
7	L	ACC POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
8	W	ILLUMINATION SIGNAL (-)
9	R	ILLUMINATION SIGNAL (+)
10	SHIELD	SHIELD
11	L	SOUND SIGNAL FRONT SPEAKER RH (+) [With active noise control]
12	V	SOUND SIGNAL FRONT SPEAKER RH (-) [Without active noise control]
13	P	SOUND SIGNAL FRONT SPEAKER RH (+) [With active noise control]
14	G	SOUND SIGNAL REAR SPEAKER RH (-)
15	B	SOUND SIGNAL REAR SPEAKER RH (+)
16	GR	STEERING SW SIGNAL B
18	Y	VEHICLE SPEED SIGNAL (8-PULSE)
19	Y	BATTERY
20	SHIELD	SHIELD

Connector No.	Color Of Wire	Signal Name [Specification]
IM29	-	-
Connector Name	AUDIO UNIT	
Connector Type	TH29FW-AH	



Terminal No.	Color Of Wire	Signal Name [Specification]
21	L	AUX SOUND SIGNAL RH
23	Y	AUX SOUND SIGNAL GROUND
24	G	AUX SOUND SIGNAL LH
25	SHIELD	SHIELD
39	O	TELEPHONE ON SIGNAL
40	SHIELD	SHIELD
41	B	TEL VOICE SIGNAL (+) [Without active noise control]
41	LG	TEL VOICE SIGNAL (-) [With active noise control]
42	V	TEL VOICE SIGNAL (-)
43	B	CONTROL SIGNAL
44	B	CONTROL SIGNAL
45	B	CONTROL SIGNAL
46	B	CONTROL SIGNAL
47	R	AV COMMUNICATION SIGNAL [H]
48	G	AV COMMUNICATION SIGNAL [L] [Without active noise control]
48	G	AV COMMUNICATION SIGNAL [L] [With active noise control]

Connector No.	Color Of Wire	Signal Name [Specification]
ME30	-	-
Connector Name	USB CONNECTOR AND AUX JACK	
Connector Type	TH06FW-AH	



Terminal No.	Color Of Wire	Signal Name [Specification]
5	G	AUDIO_L
7	Y	AUDIO_GND
8	L	AUDIO_R

Connector No.	Color Of Wire	Signal Name [Specification]
ME36	-	-
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	
Connector Type	TK08FS-1V	



Terminal No.	Color Of Wire	Signal Name [Specification]
24	P	-
25	5B	-
26	W	-
31	L	-
32	Y	-
33	B	-
34	LG	-

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U1010-49 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1010-49 CONTROL UNIT (CAN)

DTC Logic

INFOID:000000012069544

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detection condition	Probable malfunction factor
U1010-49	CONTROL UNIT (CAN) [U1010-49]	Malfunction is detected during initial diagnosis of the BOSE amp. CAN controller.	BOSE amp.

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

Ⓟ With CONSULT

1. Turn ignition switch ON.
2. Turn ignition switch OFF and wait at least 30 seconds.
3. Turn ignition switch ON and wait at least 2 seconds or more.
4. Select "Self Diagnostic Result" mode of "ANC" using CONSULT.
5. Check DTC.

Is DTC U1010-49 detected?

- YES >> Proceed to [AV-108, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012069545

1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

Ⓟ With CONSULT

1. Turn ignition switch ON.
2. Erase DTC.
3. Perform DTC confirmation procedure again. Refer to [AV-108, "DTC Logic"](#).

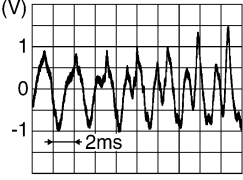
Is DTC U1010-49 detected again?

- YES >> Replace BOSE amp. Refer to [AV-164, "Removal and Installation"](#).
NO >> INSPECTION END

BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
31 (W)	Ground	BOSE amp. ON signal	Input	Ignition switch ACC	—	12.0 V
37 (B)	27 (W)	Sound signal tweeter RH	Output	Ignition switch ON	Voice output	

U1217 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1217 AV CONTROL UNIT

DTC Logic

INFOID:000000011739480

DTC	Display contents of CONSULT	DTC detection condition	Possible malfunction factor
U1217	BLUETOOTH MODULE [U1217]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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FRONT DOOR SPEAKER

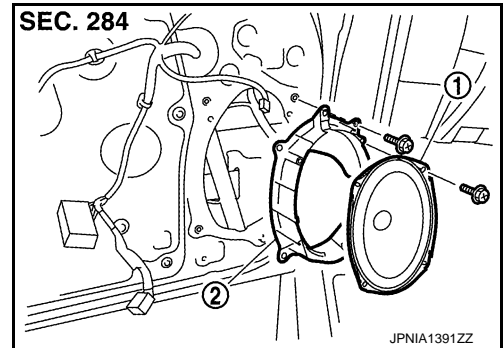
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

FRONT DOOR SPEAKER

Exploded View

INFOID:000000011739550



1. Front door speaker
2. Speaker bracket

Removal and Installation

INFOID:000000011739551

REMOVAL

1. Remove door finisher. Refer to [INT-15. "Removal and Installation"](#) (coupe models) or [INT-48. "Removal and Installation"](#) (roadster models).
2. Remove front door speaker screws, then disconnect front door speaker connector and remove front door speaker.

INSTALLATION

Install in the reverse order of removal.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item	Condition
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM*2	Indicates [On/Off] condition of P position
SFT PN -IPDM*2	Indicates [On/Off] condition of P or N position
SFT P -MET*2	Indicates [On/Off] condition of P position
SFT N -MET*2	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status
ID OK FLAG	Indicates [Set/Reset] condition of key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored
KEY SW -SLOT	Indicates [On/Off] condition of key slot
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key
RKE-P/W OPEN	Indicates [On/Off] condition of P/W DOWN signal from Intelligent Key
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE OPE COUN1	When remote keyless entry receiver (front) receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored
REVERSE SW*1	Indicates [On/Off] condition of R position

*1: It is displayed but does not operate on A/T models.

*2: It is displayed but does not operate on M/T models.

*3: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

*4: For roadster models

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation The interior room lamp is activated after "On" on CONSULT screen is touched
PW REMOTO DOWN SET	This test is able to check power window down operation The power window down is activated after "On" on CONSULT screen is touched

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Connector No.	M094
Connector Name	OPTICAL SENSOR
Connector Type	T003FW



Terminal No.	Color	Wire	Signal Name (Specification)
1	V		POWER
2	O		OUTPUT
3	P		GROUND

Connector No.	M101
Connector Name	TIRE PRESSURE RECEIVER
Connector Type	T004FW



Terminal No.	Color	Wire	Signal Name (Specification)
1	P		GROUND
2	L		SIGNAL
4	V		BATTERY

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER (FRONT)
Connector Type	JAB04FB



Terminal No.	Color	Wire	Signal Name (Specification)
1	P		GROUND
2	GR		SIGNAL OUTPUT
4	LG		BATTERY

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MA03FBLC



Terminal No.	Color	Wire	Signal Name (Specification)
1	W		BAT (E/L)
2	W		POWER WINDOW POWER SUPPLY (BAT)
3	Y		POWER WINDOW POWER SUPPLY (IGN)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



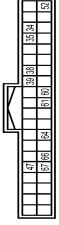
Terminal No.	Color	Wire	Signal Name (Specification)
4	R		INTERIOR ROOM LAMP POWER SUPPLY
5	G		PASSENGER DOOR UNLOCK OUTPUT
8	V		ALL DOOR FUEL LID LOCK OUTPUT
9	G		DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	BR		BAT (PUSSE)
13	B		GROUND
14	R		PUSH-BUTTON IGNITION SW L/L END
15	W		LOCK/UNLOCK SW (FRONT, SIDE)
18	W		TURN SIGNAL L/L (FRONT, SIDE)
19	P		ROOM LAMP THREE CONTROL

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



Terminal No.	Color	Wire	Signal Name (Specification)
20	V		TURN SIGNAL RH (REAR)
23	L		BACK DOOR OPEN OUTPUT (Coupe models)
24	Y		TRUNK LID OPEN OUTPUT (Roadster models)
24	O		REAR FOG OUTPUT
25	LG		TURN SIGNAL LH (REAR)
30	R		LUGGAGE/TRUNK ROOM LAMP OUTPUT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGV-AH



Terminal No.	Color	Wire	Signal Name (Specification)
34	G		LUGGAGE/TRUNK ROOM ANT-
35	R		LUGGAGE/TRUNK ROOM ANT+
38	B		REAR BUMPER ANT-
39	W		REAR BUMPER ANT+
47	V		IGN RELAY (PDM) L/R CONT
52	SB		STARTER RELAY CONT
60	BR		PUSH SW
61	W		BACK DOOR TRUNK LOCK REQUEST SW
62	W		LOCK/UNLOCK SW (FRONT, SIDE)
64	S		BACK DOOR TRUNK ROOM LAMP SW
67	GR		BACK DOOR/TRUNK LID OPENER SW

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGV-AH



Terminal No.	Color	Wire	Signal Name (Specification)
72	L		ROOM ANT 2-
73	P		ROOM ANT 2+
74	SB		PASSENGER DOOR ANT-
75	BR		PASSENGER DOOR ANT+
76	V		DRIVER DOOR ANT-
77	LG		DRIVER DOOR ANT+
78	L		ROOM ANT 1-
79	R		ROOM ANT 1+
80	GR		INT ANT AMP

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FRONT DISC BRAKE

< REMOVAL AND INSTALLATION >

INSTALLATION

WARNING:

Since dust covering the front brake has an affect on human body, the dust must be removed with a dust collector. Never splatter the dust with an air blow gun.

CAUTION:

Never depress the brake pedal. Brake fluid may splash while removing the brake hose.

1. Install disc rotor.

CAUTION:

Align the matching marks that have been made during removal when reusing the disc rotor.

2. Install the brake caliper assembly to the vehicle and tighten the torque member mounting bolts to the specified torque.

CAUTION:

Never spill or splash any grease and moisture on the brake caliper assembly mounting face, threads, mounting bolts and washers. Wipe out any grease and moisture.

3. Install brake hose and copper washers to brake caliper assembly, and tighten union bolts to the specified torque. Refer to [BR-24, "FRONT : Exploded View"](#).

CAUTION:

Never reuse copper washer.

4. Refill with new brake fluid and perform the air bleeding. Refer to [BR-13, "Bleeding Brake System"](#).

CAUTION:

- Never reuse drained brake fluid.
- Never spill or splash brake fluid on the disc rotor.

5. Check a drag of front disc brake. If any drag is found, refer to [BR-48, "BRAKE CALIPER ASSEMBLY \(2 PISTON TYPE\) : Inspection"](#).

BRAKE CALIPER ASSEMBLY (2 PISTON TYPE) : Disassembly and Assembly

INFOID:000000011738903

DISASSEMBLY

NOTE:

Never remove the torque member and pad retainers when disassembling and assembling the cylinder body.

1. Remove the sliding pin bolt, and remove the cylinder body from the torque member. Refer to [BR-41, "BRAKE PAD \(2 PISTON TYPE\) : Exploded View"](#).

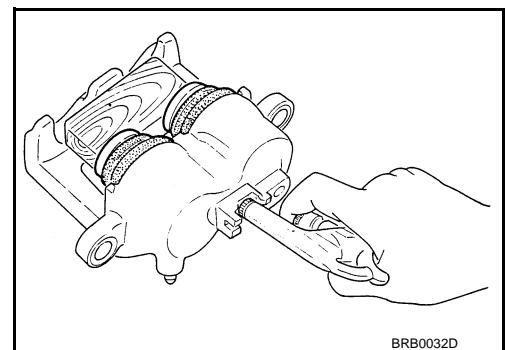
CAUTION:

Never drop brake pads, shims, shim covers and pad retainers from torque member.

2. Remove brake pads, shims and shim covers. Refer to [BR-41, "BRAKE PAD \(2 PISTON TYPE\) : Exploded View"](#).
3. Remove sliding pins and sliding pin boots from torque member.
4. Remove bushing from sliding pin.
5. Place a wooden block as shown in the figure, and blow air from union bolt mounting hole to remove pistons and piston boots.

CAUTION:

Never get fingers caught in the pistons.



C1109 POWER AND GROUND SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[VDC/TCS/ABS]

C1109 POWER AND GROUND SYSTEM

Description

INFOID:000000012013649

Supplies electric power to the ABS actuator and electric unit (control unit).

DTC Logic

INFOID:000000012013650

DTC DETECTION LOGIC

DTC	Display Item (Trouble diagnosis content)	Malfunction detected condition
C1109	BATTERY VOLTAGE [ABNORMAL] (Battery voltage [abnormal])	When ignition power supply voltage is in following state. <ul style="list-style-type: none">• Ignition power supply voltage: $10\text{ V} \geq$ ignition power supply voltage.• Ignition power supply voltage: $16\text{ V} \leq$ ignition power supply voltage.

POSSIBLE CAUSE

NOTE:

Confirm if DTC is PAST or CRNT. If DTC is CRNT, proceed with Diagnosis Procedure. If DTC is PAST, clear DTC. Do not replace the ABS actuator and electric unit (control unit) for a PAST DTC.

PAST DTC	CRNT DTC
<ul style="list-style-type: none">• Harness or connector• ABS actuator and electric unit (control unit) power supply system• Fuse• Fusible link• Battery• Charge system	<ul style="list-style-type: none">• Harness or connector• ABS actuator and electric unit (control unit)• IPDM E/R• ABS actuator and electric unit (control unit) power supply system• Fuse• Fusible link• Battery• Charge system

DTC CONFIRMATION PROCEDURE

1. PRECONDITIONING

If "DTC CONFIRMATION PROCEDURE" has been previously conducted, always turn the ignition switch OFF and wait at least 10 seconds before conducting the next test.

>> GO TO 2.

2. CHECK DTC DETECTION

④ With CONSULT

1. Turn the ignition switch OFF.

NOTE:

Wait at least 10 seconds after turning ignition switch OFF.

2. Start the engine.

NOTE:

Wait at least 10 seconds after start the engine.

3. Perform self-diagnosis for "ABS".

Is DTC "C1109" detected?

YES-1 >> "CRNT" is displayed: Proceed to [BRC-38, "Diagnosis Procedure"](#).

YES-2 >> "PAST" is displayed: INSPECTION END (Erase the memory of self-diagnosis results.)

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012013651

1. CHECK CONNECTOR

1. Turn the ignition switch OFF.
2. Check the ABS actuator and electric unit (control unit) harness connector for disconnection or looseness.

VDC OFF INDICATOR LAMP

< DTC/CIRCUIT DIAGNOSIS >

[VDC/TCS/ABS]

VDC OFF INDICATOR LAMP

Description

INFOID:0000000012013719

×: ON –: OFF

Condition	VDC OFF indicator lamp
Ignition switch OFF	–
For 3 seconds after turning ignition switch ON	×
3 seconds later after turning ignition switch ON	–
VDC OFF switch turned ON. (VDC function is OFF.)	×
VDC/TCS function is malfunctioning.	–

Component Function Check

INFOID:0000000012013720

1. VDC OFF INDICATOR LAMP OPERATION CHECK 1

Check that the lamp illuminates for approximately 3 seconds after the ignition switch is turned ON.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Proceed to diagnosis procedure. Refer to [BRC-97. "Diagnosis Procedure"](#).

2. VDC OFF INDICATOR LAMP OPERATION CHECK 2

Check that the VDC OFF indicator lamp in the combination meter turns ON/OFF correctly when operating the VDC OFF switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check the VDC OFF switch. Refer to [BRC-93. "Component Inspection"](#).

Diagnosis Procedure

INFOID:0000000012013721

1. CHECK ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) POWER SUPPLY AND GROUND CIRCUIT

Perform diagnosis of ABS actuator and electric unit (control unit) power supply and ground circuit. Refer to [BRC-87. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair / replace harness, connector, or terminal.

2. CHECK VDC OFF INDICATOR LAMP SIGNAL (1)

 With CONSULT

1. Select "ABS", "DATA MONITOR" and "OFF LAMP" according to this order.

2. Turn the ignition switch OFF.

3. Check that data monitor displays "On" for approx. 1 second after ignition switch is turned ON, and then changes to "Off".

CAUTION:

Never start engine.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the ABS actuator and electric unit (control unit). Refer to [BRC-126. "Removal and Installation"](#).

3. CHECK VDC OFF INDICATOR LAMP SIGNAL (2)

 With CONSULT

1. Select "ABS", "DATA MONITOR" and "OFF LAMP" according to this order.

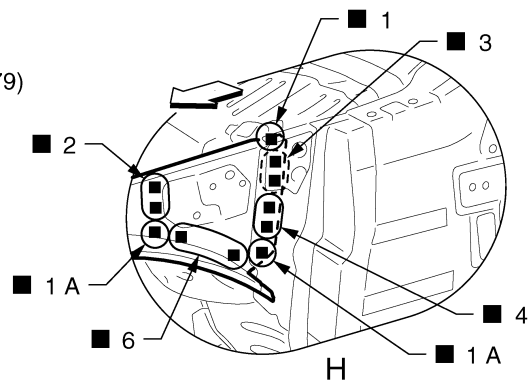
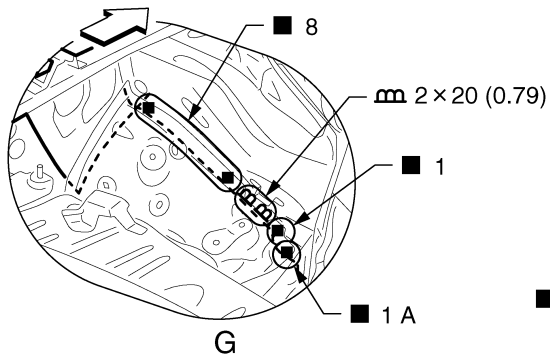
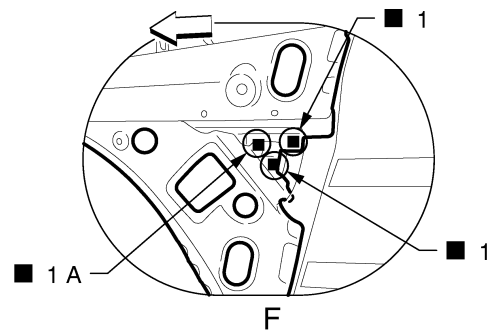
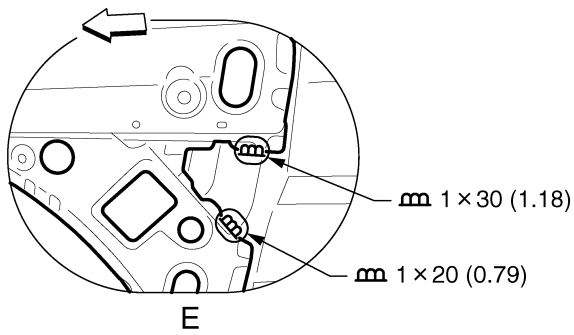
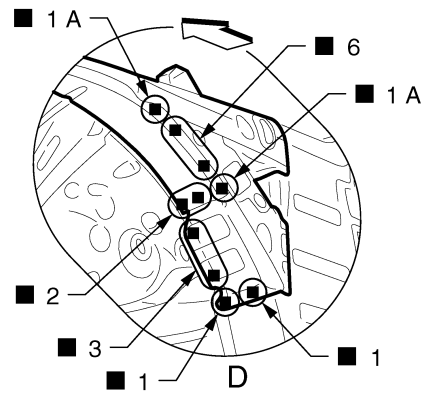
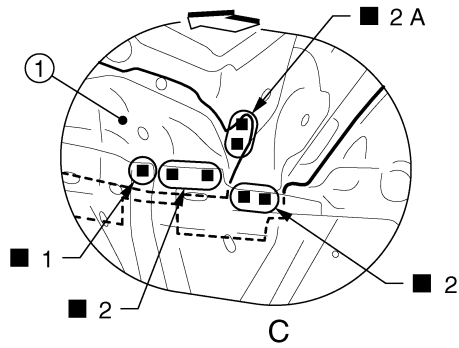
2. Check that data monitor displays "On" or "Off" each time when VDC OFF switch is operated.

Is the inspection result normal?

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[TYPE 1]



JSKIA0906GB

1. Front side member center closing plate

Unit: mm (in)

⇐: Vehicle front

⊙: Weld the parts onto the back of the component part.

View H: Before installing hoodledge reinforcement

BODY CONSTRUCTION

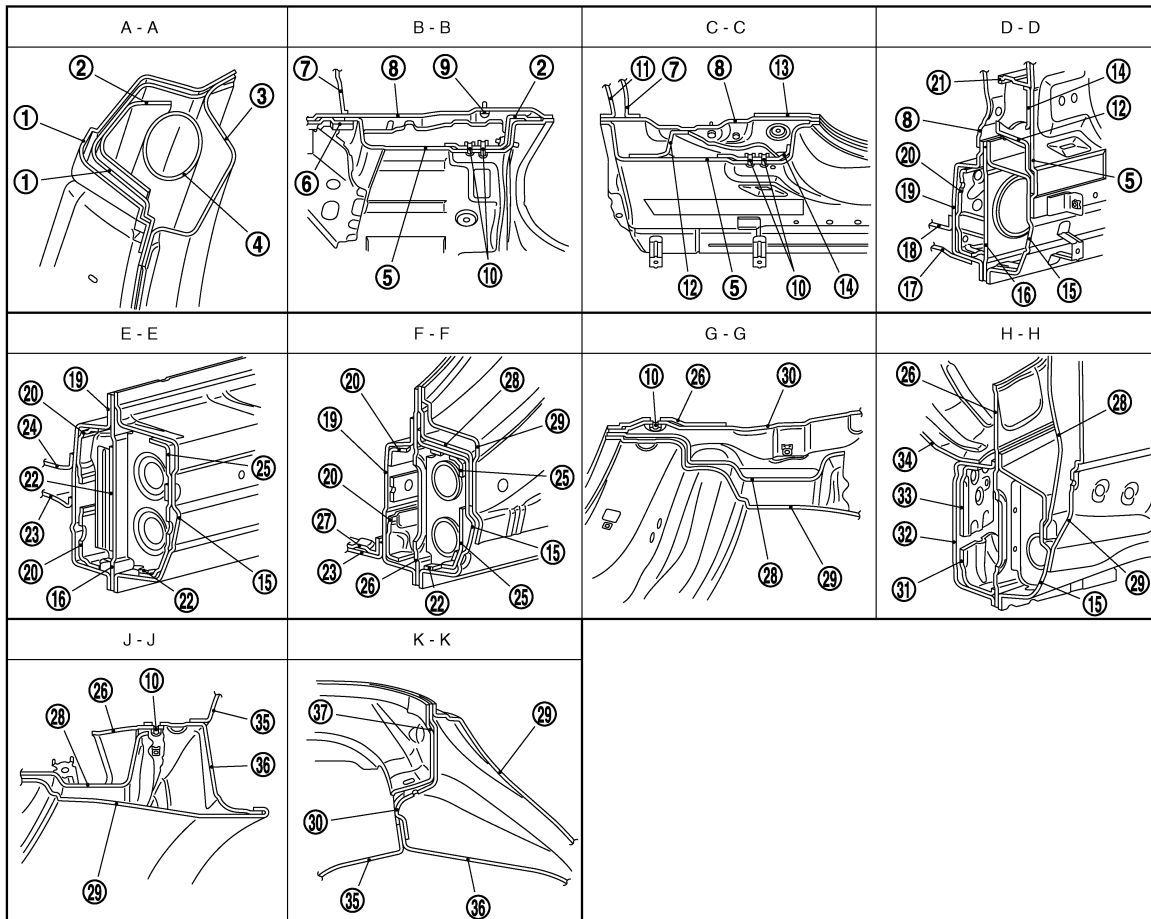
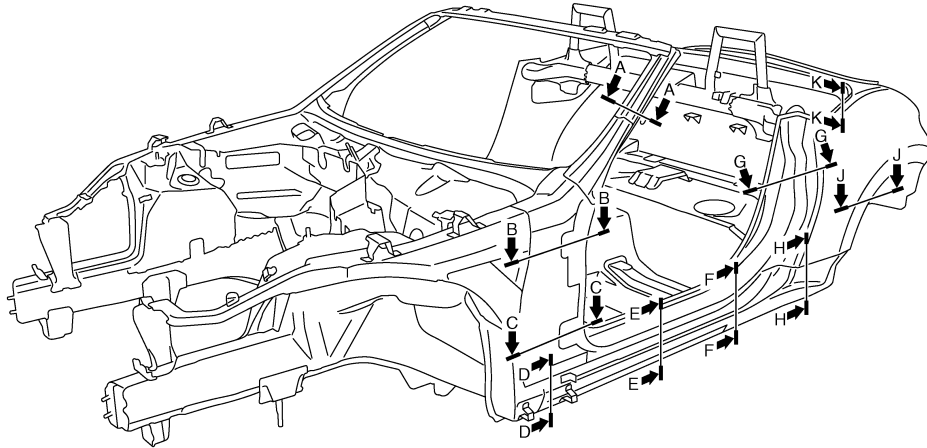
< REMOVAL AND INSTALLATION >

[TYPE 3]

BODY CONSTRUCTION

Body Construction

INFOID:000000011740706



- | | | |
|-----------------------------|-------------------------------------|-----------------------------------|
| 1. Upper outer front pillar | 2. Outer front pillar reinforcement | 3. Upper inner front pillar |
| 4. Pipe reinforcement | 5. Front pillar hinge brace | 6. Hoodledge reinforcement gusset |
| 7. Upper dash | 8. Upper rear hoodledge | 9. Weld bolt |

JSKIA1531ZZ

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BRM

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> GO TO 2.

2. DIAGNOSIS WITH EXP-800 NI OR GR8-1200 NI

Perform the charging system test using Multitasking battery and electrical diagnostic station GR8-1200 NI or Battery and electrical diagnostic analyzer EXP-800 NI. Refer to the applicable Instruction Manual for proper testing procedures.

Test result

NO PROBLEMS>>Charging system is normal and will also show "DIODE RIPPLE" test result.

NO VOLTAGE>>GO TO 3.

LOW VOLTAGE>>GO TO 11.

HIGH VOLTAGE>>GO TO 13.

EXCESSIVE RIPPLE, OPEN PHASE, OPEN DIODE or SHORTED DIODE>>Replace the alternator. Perform "DIODE RIPPLE" test again using Multitasking battery and electrical diagnostic station GR8-1200 NI or Battery and electrical diagnostic analyzer EXP-800 NI to confirm repair.

3. INSPECTION WITH CHARGE WARNING LAMP (IGNITION SWITCH IS ON)

Turn the ignition switch ON.

Does the charge warning lamp illuminate?

YES >> GO TO 5.

NO >> GO TO 4.

4. "L" TERMINAL CIRCUIT (OPEN) INSPECTION

Check "L" terminal circuit (open). Refer to [CHG-12. "Diagnosis Procedure"](#).

Is the "L" terminal circuit normal?

YES >> Replace alternator. Refer to [CHG-28. "Removal and Installation"](#).

NO >> Repair as needed.

5. INSPECTION WITH CHARGE WARNING LAMP (IDLING)

Start the engine and run it at idle.

Does the charge warning lamp turn OFF?

YES >> GO TO 8.

NO >> GO TO 6.

6. "L" TERMINAL CIRCUIT (SHORT) INSPECTION

Check "L" terminal circuit (short). Refer to [CHG-14. "Diagnosis Procedure"](#).

Is the "L" terminal circuit normal?

YES >> GO TO 7.

NO >> Repair as needed.

7. "S" TERMINAL CIRCUIT INSPECTION

Check "S" terminal circuit. Refer to [CHG-15. "Diagnosis Procedure"](#).

Is the "S" terminal circuit normal?

YES >> GO TO 9.

NO >> Repair as needed.

8. INSPECTION WITH CHARGE WARNING LAMP (ENGINE AT 3,000 RPM)

Increase and maintain the engine speed at 3,000 rpm.

Does the charge warning lamp remain off?

YES >> GO TO 10.

NO >> GO TO 9.

9. INSPECTION OF ALTERNATOR PULLEY

Check alternator pulley. Refer to [CHG-29. "Inspection"](#).

Is alternator pulley normal?

YES >> Replace alternator. Refer to [CHG-28. "Removal and Installation"](#).

NO >> Repair as needed.

A

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G

H

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J

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CHG

N

O

P

PRECAUTIONS

< PRECAUTION >

FOR USA AND CANADA : Precautions for Removing Battery Terminal

INFOID:000000011736251

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

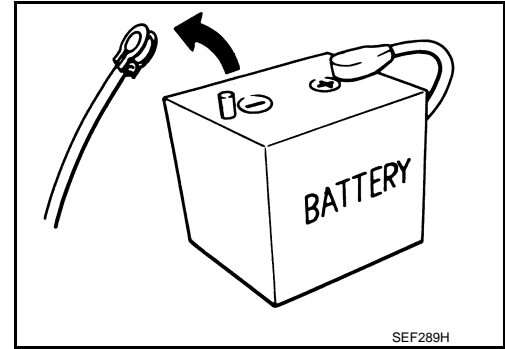
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



FOR MEXICO

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

INFOID:000000011736252

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "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.

FOR MEXICO : Precautions For Xenon Headlamp Service

INFOID:000000011736253

WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)

REAR WINDOW DEFOGGER SYSTEM

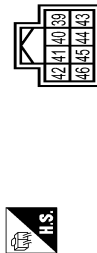
< DTC/CIRCUIT DIAGNOSIS >

[COUPE]

DEFOGGER (WITHOUT NAVI)

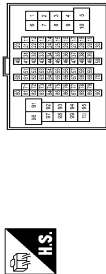
Terminal No.	Color Of Wire	Signal Name (Specification)
1	B	-

Connector No.	E5
Connector Name	POWER/INTELLIGENT POWER DISTRIBUTION/MOBILE ENGINE ROOM
Connector Type	T108FW-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
39	P	-
40	B/W	-
42	V	-
43	S/B	-
44	W	-
45	G	-
46	V	-

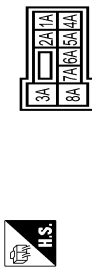
Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	T188FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	B	-
11	V	-

12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	S/B	-
20	LG	-
21	BR	- [Coupe models]
21	G	- [Roadster models]
31	L	-
32	Y	-
36	V	-
37	Y	-
38	R	-
39	B	-
40	W	-
41	LG	-
42	S/B	-
43	G	-
44	GR	- [Except for roadster models with W/T]
44	GR	- [Roadster models with W/T]
45	B/G	-
46	W	-
47	P	-
58	SHIELD	-
59	L	-
70	P	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	B/G	-
86	LG	-
87	R	-
89	P	-
91	W	-
92	L	-
93	G	-
94	Y	-
96	Y	-
98	GR	-
99	LG	-
100	B/G	-

Connector No.	M1
Connector Name	FUSE BLOCK (I/B)
Connector Type	NS06FW-M2



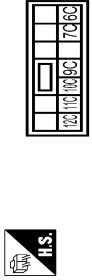
Terminal No.	Color Of Wire	Signal Name (Specification)
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	L	-
7A	BR	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (I/B)
Connector Type	NS10FW-CS



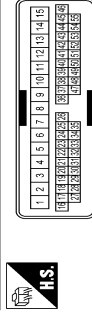
Terminal No.	Color Of Wire	Signal Name (Specification)
3B	P	-
4B	G	-
5B	O	-
6B	Y	-
8B	R	-
9B	S/B	-

Connector No.	M3
Connector Name	FUSE BLOCK (I/B)
Connector Type	NS13FW-CS



Terminal No.	Color Of Wire	Signal Name (Specification)
10C	L	-
11C	IG	-
12C	O	-
5C	R	-
7C	B	-
8C	O	- [Roadster models]
9C	R	- [Coupe models]

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	T148DMW-CS15



Terminal No.	Color Of Wire	Signal Name (Specification)
6	SHIELD	-
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	- [Without active noise control]
11	Y	- [With active noise control]
22	BR	- [Without active noise control]
22	L	- [With active noise control]
13	B	-
14	W	-
15	Y	-

CONDENSER

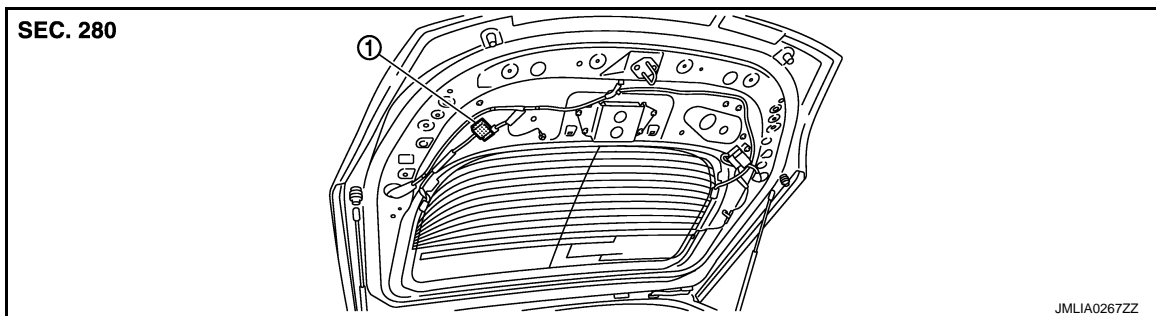
< REMOVAL AND INSTALLATION >

[COUPE]

CONDENSER

Exploded View

INFOID:000000011739064



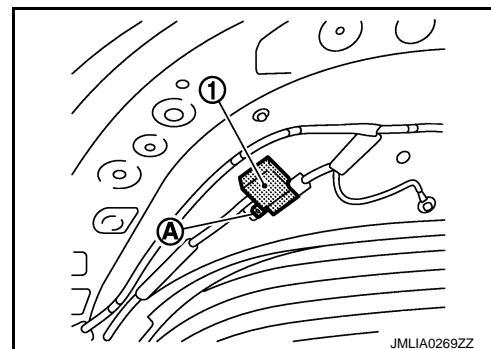
1. Condenser

Removal and Installation

INFOID:000000011739065

REMOVAL

1. Remove the back door finisher lower. Refer to [INT-33, "Removal and Installation"](#).
2. Remove bolt (A), and then remove condenser (1) from the vehicle body.



INSTALLATION

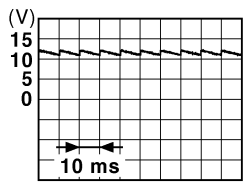
Install in the reverse order of removal.

A
B
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K
DEF
M
N
O
P

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 <p style="text-align: center;">11.8 V</p>
				ON (Door open)	0 V	
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V
				Not activated	Battery voltage	

- *1: Coupe models
- *2: Roadster models
- *3: A/T models
- *4: M/T models
- *5: With A/T or coupe models with M/T and SynchroRev Match mode
- *6: With A/T or with M/T without SynchroRev Match mode
- *7: Without NAVI
- *8: With rear fog lamp
- *9: BCM does not use this terminal for control.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[COUPE]

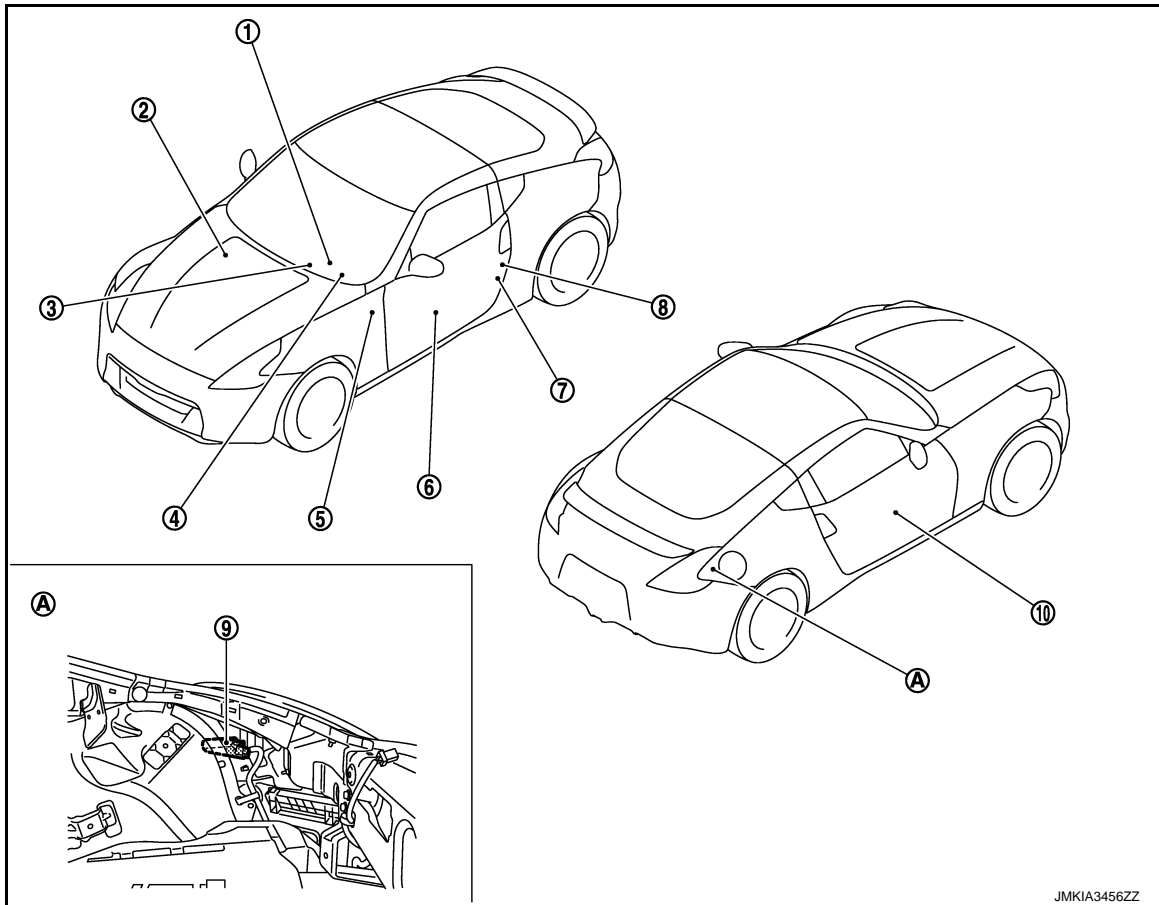
SYSTEM DESCRIPTION

COMPONENT PARTS

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:000000011737285



- | | | |
|--|--|---|
| 1. A/T assembly* (TCM) Refer to TM-155, "Component Parts Location" | 2. BCM Refer to BCS-10, "Component Parts Location" | 3. Push-button ignition switch |
| 4. Combination meter | 5. Key slot | 6. Power window main switch (door lock and unlock switch) |
| 7. Driver side door switch | 8. Driver side door lock assembly | 9. Fuel lid lock actuator |
| 10. Power window sub-switch (door lock and unlock switch) | | |
| A. View with luggage side finisher lower (RH) removed | | |

*: With A/T models

POWER DOOR LOCK SYSTEM : Component Description

INFOID:000000011737286

Item	Function
BCM	Controls the door lock function
TCM*	Transmits shift position signal to BCM via CAN communication line
Door lock actuator	Refer to DLK-20, "Door Lock Actuator"
Fuel lid lock actuator	Refer to DLK-20, "Fuel Lid Lock Actuator"

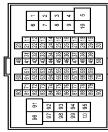
BACK DOOR OPENER SYSTEM

< WIRING DIAGRAM >

[COUPE]

BACK DOOR OPENER SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-C316-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	G	-
2	BG	-
3	Y	-
4	W	-
6	V	-
7	LG	-
8	GR	-
9	BR	-
11	W	-
12	W	-
13	BR	-
14	LG	-
15	B	-
16	V	-
17	R	-
18	B	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	BG	-
25	L	-
26	P	-
27	W	-
28	SHIELD	-
31	W	-
32	B	-
33	P	-
33	W	-
34	R	-
35	B	-
35	W	-
36	B	-
37	SB	-
38	SB	-

39	SB	-
40	Y	-
41	L	-
42	GR	-
43	BR	-
44	R	-
45	BG	-
46	SB	-
46	SHIELD	-
47	V	-
48	SHIELD	-
48	V	-
49	V	-
51	W	-
52	L	-
52	R	-
53	P	-
54	G	-
55	R	-
57	SHIELD	-
58	B	-
60	SB	-
61	SHIELD	-
62	W	-
63	BR	-
64	V	-
65	SHIELD	-
66	P	-
67	L	-
68	SHIELD	-
69	R	-
70	G	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	BG	-
80	Y	-
81	R	-
82	B	-
83	GR	-
84	G	-
84	L	-
85	LG	-
86	V	-
87	BR	-
88	GR	-
89	Y	-
94	G	-

95	LG	-
96	L	-
97	Y	-
98	W	-
98	Y/B	-
99	LG	-
100	B	-

Connector No.	B64
Connector Name	WIRE TO WIRE
Connector Type	IS08FB4PR



Terminal No.	Color Of Wire	Signal Name (Specification)
1	W	-
2	W	-
3	R	-
4	W	-
5	GR	-
6	B	-
7	R	-
8	SHIELD	-

Connector No.	B77
Connector Name	BACK DOOR OPENER ACTUATOR
Connector Type	MD8FW-LC



Terminal No.	Color Of Wire	Signal Name (Specification)
1	Y	-
2	B	-

Connector No.	B151
Connector Name	WIRE TO WIRE
Connector Type	RS08MB



Terminal No.	Color Of Wire	Signal Name (Specification)
1	P	-
2	R	-
3	W	-
5	GR	-
6	B	-
7	B	-
8	L	-

Connector No.	B154
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	RH08E



Terminal No.	Color Of Wire	Signal Name (Specification)
1	GR	-
2	W	-
3	B	-
4	B	-

A
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DLK
L
M
N
O
P

JRKWE8170GB

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

[COUPE]

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:000000011737409

1.CHECK INTELLIGENT KEY

For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to checked?

YES >> GO TO 2.

NO >> Check Intelligent Key button operation with registered Intelligent Key belonging to the vehicle.

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning is operated.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 6.

NO-1 >> With another registered Intelligent Key: GO TO 3.

NO-2 >> Without another registered Intelligent Key: GO TO 4.

3.CHECK INTELLIGENT KEY BUTTON OPERATION

Check that door lock and unlock can be performed by operating the buttons of another registered Intelligent Key.

Can door lock and unlock be performed with another registered Intelligent Key?

YES >> GO TO 4.

NO >> GO TO 7.

4.CHECK ENGINE START

Insert Intelligent Key into the key slot. Operate the push-button ignition switch, and check that the vehicle is in START status.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK INTELLIGENT KEY

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> Replace Intelligent Key.

6.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to [DLK-118, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace Intelligent Key battery.

7.CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock using door lock and unlock switch?

YES >> GO TO 8.

NO >> Refer to [DLK-129, "ALL DOOR : Diagnosis Procedure"](#).

8.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-103, "Component Function Check"](#).

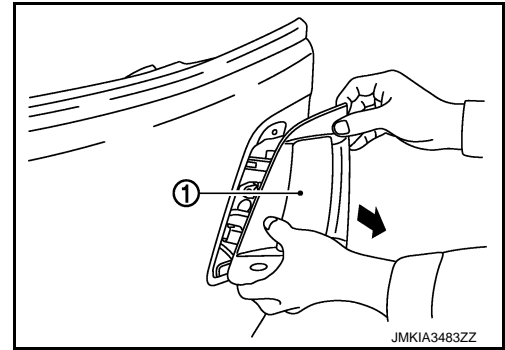
Is the inspection result normal?

DOOR LOCK

< REMOVAL AND INSTALLATION >

[COUPE]

8. Pull and remove outside handle assembly (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When installing key rod, rotate key rod holder until a click is felt.
- Check that door lock cable is normally engaged with outside handle.
- After installation, check door open/close, and lock/unlock operation.

A
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P

DLK

POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

[ROADSTER]

POWER DOOR LOCK SYSTEM

7	LG	-	-	-	-
8	SR	-	-	-	-
9	GR	-	-	-	-
11	Y	-	-	-	-
12	V	-	-	-	-
13	BR	-	-	-	-
14	V	-	-	-	-
15	B	-	-	-	-
16	V	-	-	-	-
17	R	-	-	-	-
18	L	-	-	-	-
20	SB	-	-	-	-
21	G	-	-	-	-
22	GR	-	-	-	-
23	V	-	-	-	-
24	R	-	-	-	-
25	L	-	-	-	-
26	P	-	-	-	-
27	B	-	-	-	-
28	SHIELD	-	-	-	-
29	W	-	-	-	-
31	W	-	-	-	-
32	W	-	-	-	-
33	W	-	-	-	-
34	R	-	-	-	-
35	B	-	-	-	-
36	L	-	-	-	-
37	SR	-	-	-	-
38	SR	-	-	-	-
39	SR	-	-	-	-
40	L	-	-	-	-
41	R	-	-	-	-
42	GR	-	-	-	-
43	R	-	-	-	-
44	R	-	-	-	-
45	O	-	-	-	-
46	G	-	-	-	-
46	SHIELD	-	-	-	-
47	R	-	-	-	-
47	V	-	-	-	-
48	SHIELD	-	-	-	-
48	V	-	-	-	-
49	V	-	-	-	-
51	V	-	-	-	-
52	L	-	-	-	-
52	R	-	-	-	-
53	P	-	-	-	-
54	G	-	-	-	-
55	G	-	-	-	-
55	SHIELD	-	-	-	-
58	B	-	-	-	-

60	L	-	-	-	-
61	R	-	-	-	-
62	SHIELD	-	-	-	-
63	R	-	-	-	-
64	G	-	-	-	-
65	SHIELD	-	-	-	-
66	LG	-	-	-	-
67	V	-	-	-	-
68	SHIELD	-	-	-	-
69	L	-	-	-	-
70	P	-	-	-	-
71	V	-	-	-	-
72	P	-	-	-	-
73	BR	-	-	-	-
74	GR	-	-	-	-
75	O	-	-	-	-
80	Y	-	-	-	-
81	W	-	-	-	-
82	BR	-	-	-	-
83	GR	-	-	-	-
84	LG	-	-	-	-
86	V	-	-	-	-
87	BR	-	-	-	-
88	SR	-	-	-	-
93	Y	-	-	-	-
94	L	-	-	-	-
95	W	-	-	-	-
96	L	-	-	-	-
97	LG	-	-	-	-
97	Y	-	-	-	-
98	BG	-	-	-	-
98	Y/B	-	-	-	-
99	W	-	-	-	-
100	B	-	-	-	-

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal No.	Color	Wire	Signal Name (Specification)
1	P		BAT
2	GR		CLOCK
3	W		DATA
4	Y		ILL.BAT
5	LG		ILL.BAT
6	B		IGNON
7	R		KEY SWITCH SIGNAL

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color	Wire	Signal Name (Specification)
3	LG		- [Coupe models] - [Roadster models]
4	B		-
5	B		-
6	L		-
7	Y		-
8	G		-
11	LG		- [Roadster models]
11	Y		- [Coupe models]
14	P		-
16	Y		-

Connector No.	M50
Connector Name	PUSH-BUTTON (IGNITION SWITCH)
Connector Type	TK08BR



Terminal No.	Color	Wire	Signal Name (Specification)
1	B		-
2	R		-
3	G		-
4	BR		-
5	GR		-
6	V		-
7	P		-
8	P		-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



Terminal No.	Color	Wire	Signal Name (Specification)
1	V		BATTERY POWER SUPPLY
2	O		IGNITION SIGNAL
3	L		VEHICLE SPEED SIGNAL (2-PULSE)
4	V		VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico]
4	Y		VEHICLE SPEED SIGNAL (8-PULSE) [except for Mexico]
5	B		ILLUMINATION CONTROL SIGNAL
6	R		ROOF STATUS SIGNAL
9	BR		COMMUNICATION SIGNAL (METERS/METER)
10	L		COMMUNICATION SIGNAL (METERS/METER)
12	G		SHOCK ABSORBER SIGNAL
13	L		ACC/CRUISE SIGNAL
16	R		AIR BAG SIGNAL

TRUNK LID OPENER CANCEL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

3.CHECK TRUNK LID OPENER CANCEL SWITCH GROUND

Check continuity between trunk lid opener cancel switch harness connector and ground.

Trunk lid opener cancel switch		Ground	Continuity
Connector	Terminal		
M14	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TRUNK LID OPENER CANCEL SWITCH

Refer to [DLK-311, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace trunk lid opener cancel switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-45, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000011737588

1.CHECK TRUNK LID OPENER CANCEL SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener cancel switch connector.
3. Check continuity between trunk lid opener cancel switch terminals.

Trunk lid opener cancel switch		Condition	Continuity
Terminal			
1	2	Trunk lid opener cancel switch ON	Existed
		Trunk lid opener cancel switch OFF (Cancel)	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace trunk lid opener cancel switch.

HOOD

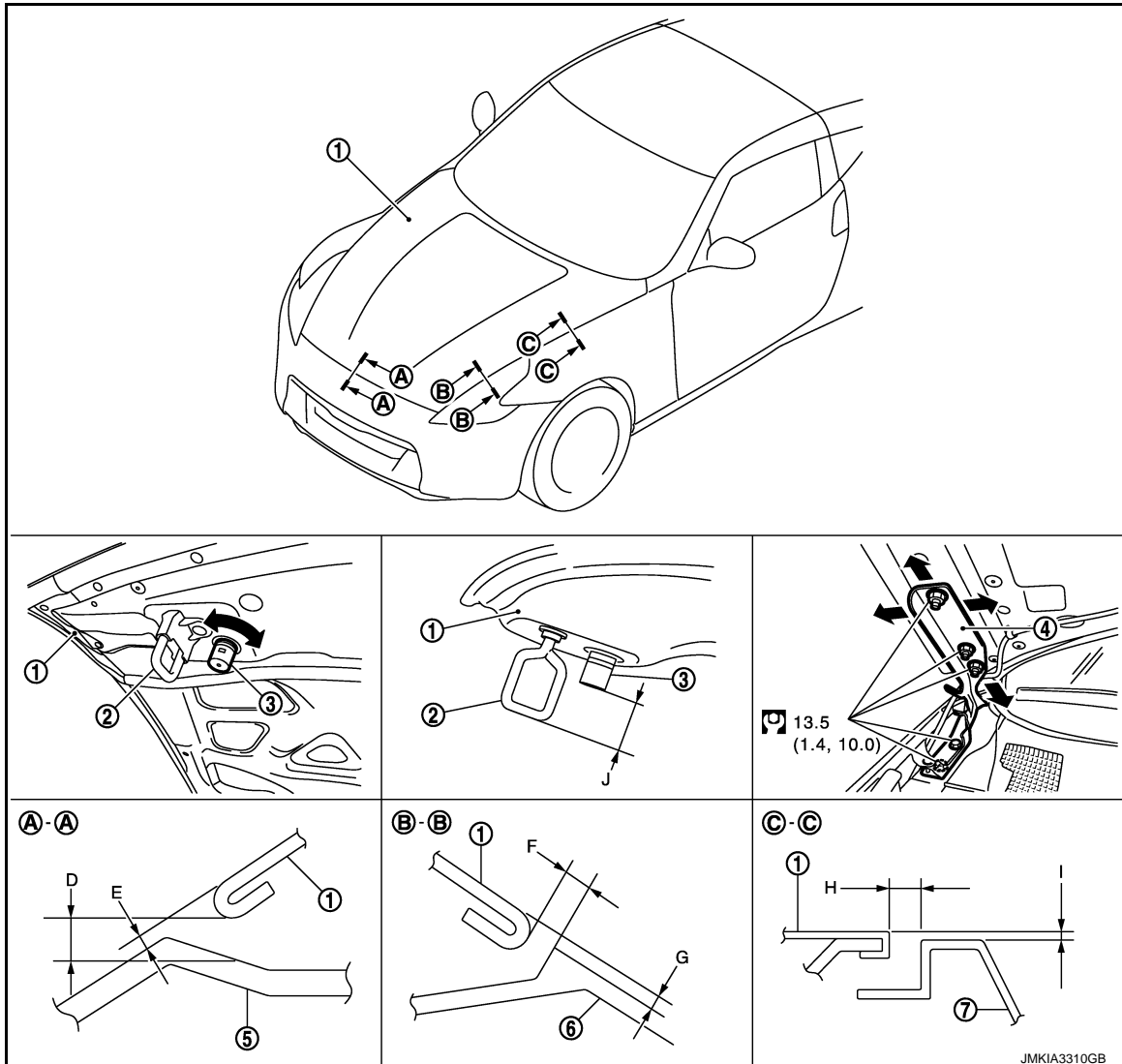
< REMOVAL AND INSTALLATION >

[ROADSTER]

- Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, check hood open/close, lock/unlock operation.
- After installation, adjust the following parts.
 - Hood: Refer to [DLK-370, "HOOD ASSEMBLY : Adjustment"](#).
 - Washer nozzle (LH/RH) and washer tube: Refer to [WW-47, "Removal and Installation"](#).
- After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.

HOOD ASSEMBLY : Adjustment

INFOID:000000011737662



- | | | |
|------------------|------------------------|---------------------------|
| 1. Hood assembly | 2. Hood striker | 3. Hood bumper rubber |
| 4. Hood hinge | 5. Front bumper fascia | 6. Front combination lamp |
| 7. Front fender | | |

: N·m (kg·m, ft·lb)

Check the clearance and the surface height between hood and each part by seeing and touching. Fitting standard dimension in the table below should be satisfied.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

FRONT OIL SEAL

< REMOVAL AND INSTALLATION >

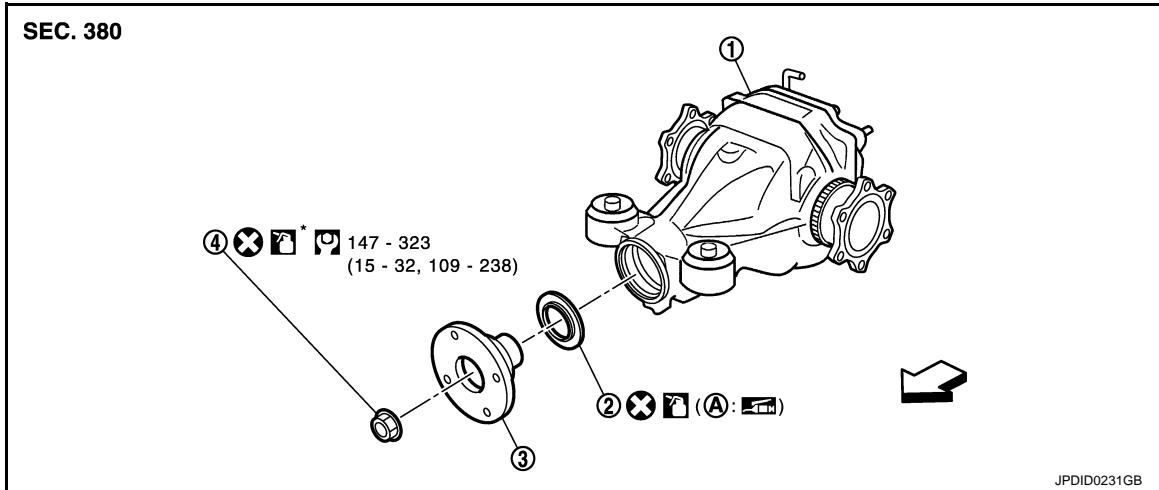
[REAR FINAL DRIVE: R200]

REMOVAL AND INSTALLATION

FRONT OIL SEAL

Exploded View

INFOID:000000011735974



1. Final drive assembly 2. Front oil seal 3. Companion flange

4. Drive pinion lock nut

- A. Oil seal lip

↔: Vehicle front

: Apply gear oil.

: Apply anti-corrosion oil.

Refer to [GL-4, "Components"](#) for symbols not described on the above.

Removal and Installation

INFOID:000000011735975

REMOVAL

CAUTION:

Verify identification stamp of replacement frequency put in the lower part of gear carrier to determine replacement for collapsible spacer when replacing front oil seal. Refer to "Identification stamp of replacement frequency of front oil seal". If collapsible spacer replacement is necessary, remove final drive assembly and disassemble it to replace front oil seal and collapsible spacer. Refer to [DLN-26, "Removal and Installation"](#) and [DLN-42, "Disassembly"](#).

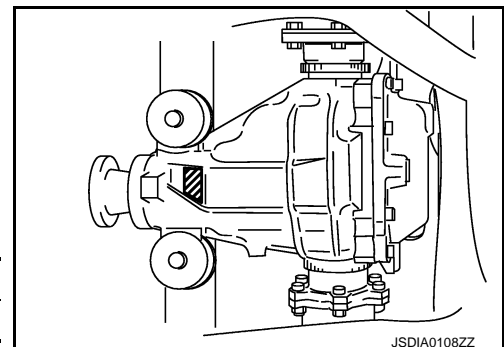
NOTE:

The reuse of collapsible spacer is prohibited in principle. However, it is reusable on a one-time basis only in cases when replacing front oil seal.

Identification stamp of replacement frequency of front oil seal

- The diagonally shaded area in the figure shows stamping point for replacement frequency of front oil seal.
 - The following table shows if collapsible spacer replacement is needed before replacing front oil seal.
- When collapsible spacer replacement is required, disassemble final drive assembly to replace collapsible spacer and front oil seal. Refer to [DLN-42, "Disassembly"](#).

Stamp	collapsible spacer replacement
No stamp	Not required



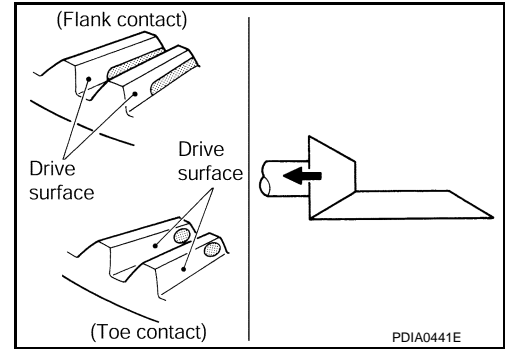
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DIFFERENTIAL ASSEMBLY

< UNIT DISASSEMBLY AND ASSEMBLY >

[REAR FINAL DRIVE: R200V]

- If the tooth contact is near the flank (flank contact), or near the toe (toe contact), thin pinion height adjusting washers to move drive pinion farther from drive gear.
For selecting adjusting washer, refer to the latest parts information.



BACKLASH

- Before inspection and adjustment, drain gear oil.
1. Remove rear cover. Refer to [DLN-68, "Disassembly"](#).
 2. Fit a dial indicator to the drive gear face to measure the backlash.

Backlash : Refer to [DLN-88, "Backlash"](#).

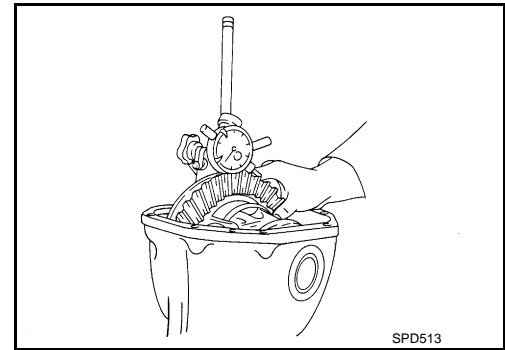
- If the backlash is outside of the specified value, change the thickness of side bearing adjusting washer.

When the backlash is large:

Make drive gear back side adjusting washer thicker, and drive gear tooth side adjusting washer thinner by the same amount. For selecting adjusting washer, refer to the latest parts information.

When the backlash is small:

Make drive gear back side adjusting washer thinner, and drive gear tooth side adjusting washer thicker by the same amount. For selecting adjusting washer, refer to the latest parts information.



CAUTION:

Never change the total amount of washers as it changes the bearing preload.

Inspection After Disassembly

INFOID:000000011736015

DRIVE GEAR AND DRIVE PINION

- Clean up the disassembled parts.
- If the gear teeth never mesh or line-up correctly, determine the cause and adjust or replace as necessary.
- If the gears are worn, cracked, damaged, pitted or chipped (by friction) noticeably, replace with new drive gear and drive pinion as a set.

BEARING

- Clean up the disassembled parts.
- If any chipped (by friction), pitted, worn, rusted or scratched marks, or unusual noise from the bearing is observed, replace as a bearing assembly (as a new set).

SIDE GEAR AND PINION MATE GEAR

- Clean up the disassembled parts.
- If any cracks or damage on the surface of the tooth is found, replace.
- If any worn or chipped mark on the contact sides of the thrust washer is found, replace.

SIDE GEAR THRUST WASHER AND PINION MATE THRUST WASHER

- Clean up the disassembled parts.
- If it is chipped (by friction), damaged, or unusually worn, replace.

OIL SEAL

ENGINE CONTROL SYSTEM

< SYSTEM DESCRIPTION >

[VQ37VHR]

Component	Reference
VVEL actuator motor	EC-423, "Description"
VVEL actuator motor relay	EC-427, "Description"
VVEL control module	EC-467, "Description"
VVEL control shaft position sensor	EC-420, "Description"

EVAPORATIVE EMISSION SYSTEM

< SYSTEM DESCRIPTION >

[VQ37VHR]

Component	Reference
A/F sensor 1	EC-235, "Description"
Accelerator pedal position sensor	EC-481, "Description"
Camshaft position sensor (PHASE)	EC-310, "Description"
Crankshaft position sensor (POS)	EC-306, "Description"
Engine coolant temperature sensor	EC-221, "Description"
EVAP canister purge volume control solenoid valve	EC-324, "Description"
EVAP control system pressure sensor	EC-340, "Description"
Fuel tank temperature sensor	EC-280, "Description"
Mass air flow sensor	EC-197, "Description"
Throttle position sensor	EC-224, "Description"

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TROUBLE DIAGNOSIS - SPECIFICATION VALUE

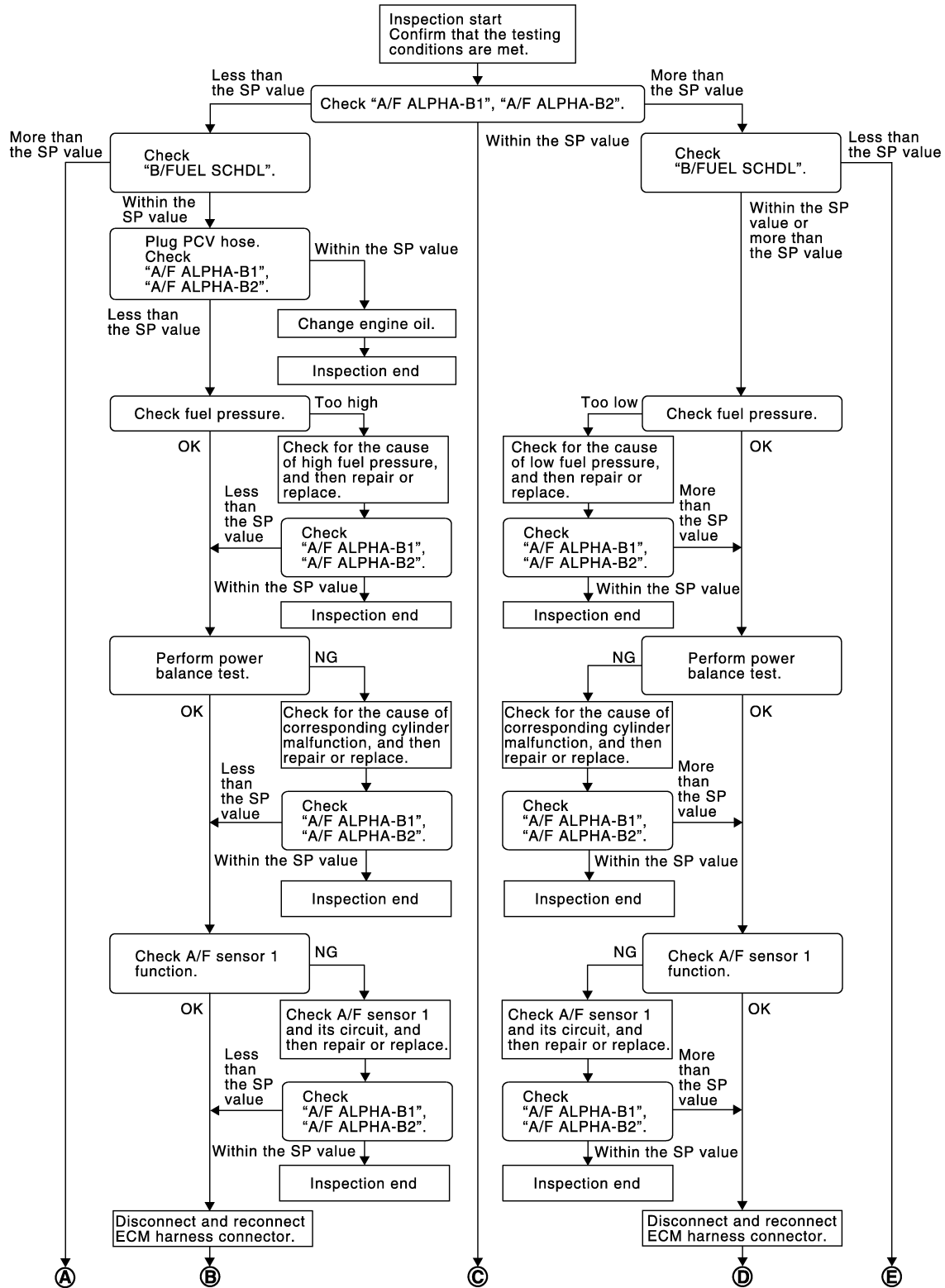
< DTC/CIRCUIT DIAGNOSIS >

[VQ37VHR]

Diagnosis Procedure

INFOID:000000011736370

OVERALL SEQUENCE



JMBIA1468GB

P0122, P0123, P0227, P0228 TP SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[VQ37VHR]

Diagnosis Procedure

INFOID:000000011736431

1. CHECK GROUND CONNECTION

1. Turn ignition switch OFF.
2. Check ground connection M95. Refer to Ground Inspection in [GI-48. "Circuit Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace ground connection.

2. CHECK THROTTLE POSITION SENSOR 2 POWER SUPPLY CIRCUIT

1. Disconnect electric throttle control actuator harness connector.
2. Turn ignition switch ON.
3. Check the voltage between electric throttle control actuator harness connector and ground.

DTC	Electric throttle control actuator			Ground	Voltage (V)
	Bank	Connector	Terminal		
P0122, P0123	1	F6	6	Ground	Approx. 5
P0227, P0228	2	F27	1		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair open circuit, short to ground or short to power in harness or connectors.

3. CHECK THROTTLE POSITION SENSOR 2 GROUND CIRCUIT FOR OPEN AND SHORT

1. Turn ignition switch OFF.
2. Disconnect ECM harness connector.
3. Check the continuity between electric throttle control actuator harness connector and ECM harness connector.

DTC	Electric throttle control actuator			ECM		Continuity
	Bank	Connector	Terminal	Connector	Terminal	
P0122, P0123	1	F6	3	F101	40	Existed
P0227, P0228	2	F27	4		48	

4. Also check harness for short to ground and short to power.

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair open circuit, short to ground or short to power in harness or connectors.

4. CHECK THROTTLE POSITION SENSOR 2 INPUT SIGNAL CIRCUIT FOR OPEN AND SHORT

1. Check the continuity between electric throttle control actuator harness connector and ECM harness connector.

DTC	Electric throttle control actuator			ECM		Continuity
	Bank	Connector	Terminal	Connector	Terminal	
P0122, P0123	1	F6	5	F101	34	Existed
P0227, P0228	2	F27	3		35	

2. Also check harness for short to ground and short to power.

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair open circuit, short to ground or short to power in harness or connectors.

5. CHECK THROTTLE POSITION SENSOR

Refer to [EC-226. "Component Inspection"](#).

P0182, P0183 FTT SENSOR

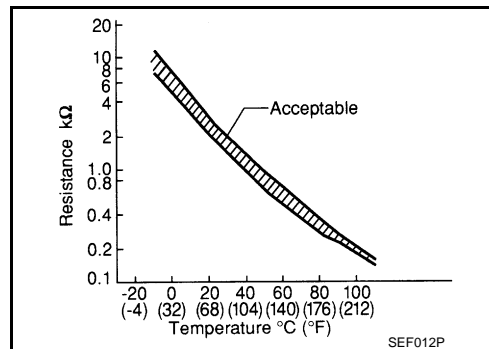
Description

INFOID:000000011736480

The fuel tank temperature sensor is used to detect the fuel temperature inside the fuel tank. The sensor modifies a voltage signal from the ECM. The modified signal returns to the ECM as the fuel temperature input. The sensor uses a thermistor which is sensitive to the change in temperature. The electrical resistance of the thermistor decreases as temperature increases.

<Reference data>

Fluid temperature [°C (°F)]	Voltage* (V)	Resistance (kΩ)
20 (68)	3.5	2.3 - 2.7
50 (122)	2.2	0.79 - 0.90



*: These data are reference values and are measured between ECM terminals 106 (Fuel tank temperature sensor) and 128 (ECM ground).

DTC Logic

INFOID:000000011736481

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P0182	Fuel tank temperature sensor circuit low input	An excessively low voltage from the sensor is sent to ECM.	<ul style="list-style-type: none"> • Harness or connectors (The sensor circuit is open or shorted.) • Fuel tank temperature sensor
P0183	Fuel tank temperature sensor circuit high input	An excessively high voltage from the sensor is sent to ECM.	

DTC CONFIRMATION PROCEDURE

1. PRECONDITIONING

If DTC Confirmation Procedure has been previously conducted, always perform the following procedure before conducting the next test.

1. Turn ignition switch OFF and wait at least 10 seconds.
2. Turn ignition switch ON.
3. Turn ignition switch OFF and wait at least 10 seconds.

>> GO TO 2.

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON and wait at least 5 seconds.
2. Check 1st trip DTC.

Is 1st trip DTC detected?

- YES >> Go to [EC-284, "Diagnosis Procedure"](#).
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000011736482

1. CHECK GROUND CONNECTION

1. Turn ignition switch OFF.
2. Check ground connection M95. Refer to Ground Inspection in [GI-48, "Circuit Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace ground connection.

2. CHECK DTC WITH COMBINATION METER

P0451 EVAP CONTROL SYSTEM PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[VQ37VHR]

Replace accelerator pedal assembly. Refer to [ACC-4, "Exploded View"](#).

>> INSPECTION END

8. CHECK EVAP CONTROL SYSTEM PRESSURE SENSOR

Refer to [EC-343, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace EVAP control system pressure sensor.

9. CHECK INTERMITTENT INCIDENT

Refer to [GI-45, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000011736536

1. CHECK EVAP CONTROL SYSTEM PRESSURE SENSOR

1. Turn ignition switch OFF.
2. Remove EVAP control system pressure sensor with its harness connector.
Always replace O-ring with a new one.
3. Install a vacuum pump to EVAP control system pressure sensor.
4. Turn ignition switch ON and check output voltage between ECM harness connector terminals under the following conditions.

ECM			Condition [Applied vacuum kPa (kg/cm ² , psi)]	Voltage (V)
Connector	+	-		
	Terminal	Terminal		
M107	102	112	Not applied	1.8 - 4.8
			-26.7 (-0.272, -3.87)	2.1 to 2.5 lower than above value

CAUTION:

- Always calibrate the vacuum pump gauge when using it.
- Never apply below -93.3 kPa (-0.952 kg/cm², -13.53 psi) or pressure over 101.3 kPa (1.033 kg/cm², 14.69 psi).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace EVAP control system pressure sensor

P0830 CLUTCH INTERLOCK SWITCH

[VQ37VHR]

< DTC/CIRCUIT DIAGNOSIS >

3. Check "CPP SW" and "CLUTCH INTLCK SW" indication under the following conditions.

Monitor item	Condition		Indication
CPP SW	Clutch pedal	Fully released	ON
		Fully depressed	OFF
CLUTCH INTLCK SW		Fully released	OFF
		Fully depressed	ON

⊗ Without CONSULT

- Turn ignition switch ON.
- Check the voltage between ECM harness connector terminals under the following conditions.

ECM				Condition	Voltage (V)	
+		-				
Connector	Terminal	Connector	Terminal			
F101	41 (Clutch pedal position switch signal)	M107	128	Clutch pedal	Fully released	Approx. 0
					Fully depressed	Battery voltage
	42 (Clutch interlock switch signal)			Fully released	Approx. 0	
				Fully depressed	Battery voltage	

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Go to [EC-402, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011736603

1. CHECK OVERALL FUNCTION-I

Ⓟ With CONSULT

- Turn ignition switch ON.
- Select "CPP SW" in "DATA MONITOR" mode with CONSULT.
- Check "CPP SW" indication under the following conditions.

Monitor item	Condition		Indication
CPP SW	Clutch pedal	Fully released	ON
		Fully depressed	OFF

⊗ Without CONSULT

- Turn ignition switch ON.
- Check the voltage between ECM harness connector terminals under the following conditions.

ECM				Condition	Voltage (V)	
+		-				
Connector	Terminal	Connector	Terminal			
F101	41 (Clutch pedal position switch signal)	M107	128	Clutch pedal	Fully released	Approx. 0
					Fully depressed	Battery voltage

Is the inspection result normal?

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

2. CHECK OVERALL FUNCTION-II

Ⓟ With CONSULT

Select "CLUTCH INTLCK SW" and check indication under the following conditions.

P1572 ASCD BRAKE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[VQ37VHR]

Clutch pedal position switch		ASCD brake switch		Continuity
Connector	Terminal	Connector	Terminal	
E108	2	E109	1	Existed

3. Also check harness for short to ground and short to power.

Is the inspection result normal?

YES >> GO TO 12.

NO >> Repair open circuit, short to ground or short to power in harness or connectors.

12.CHECK CLUTCH PEDAL POSITION SWITCH

Refer to [EC-463. "Component Inspection \(Clutch Pedal Position Switch\)".](#)

Is the inspection result normal?

YES >> GO TO 21.

NO >> Replace clutch pedal position switch.

13.CHECK ASCD BRAKE SWITCH INPUT SIGNAL CIRCUIT FOR OPEN AND SHORT-II

1. Turn ignition switch OFF.
2. Disconnect ECM harness connector.
3. Check the continuity between ASCD brake switch harness connector and ECM harness connector.

ASCD brake switch		ECM		Continuity
Connector	Terminal	Connector	Terminal	
E109	2	M107	126	Existed

4. Also check harness for short to ground and short to power.

Is the inspection result normal?

YES >> GO TO 15.

NO >> GO TO 14.

14.DETECT MALFUNCTIONING PART

Check the following.

- Harness connectors E106, M6
- Harness for open or short between ECM and ASCD brake switch

>> Repair open circuit, short to ground or short to power in harness or connectors.

15.CHECK ASCD BRAKE SWITCH

Refer to [EC-462. "Component Inspection \(ASCD Brake Switch\)".](#)

Is the inspection result normal?

YES >> GO TO 21.

NO >> Replace ASCD brake switch.

16.CHECK STOP LAMP SWITCH POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect stop lamp switch harness connector.
3. Check the voltage between stop lamp switch harness connector and ground.

Stop lamp switch		Ground	Voltage
Connector	Terminal		
E110	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 18.

NO >> GO TO 17.

17.DETECT MALFUNCTIONING PART

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ON BOARD REFUELING VAPOR RECOVERY (ORVR)

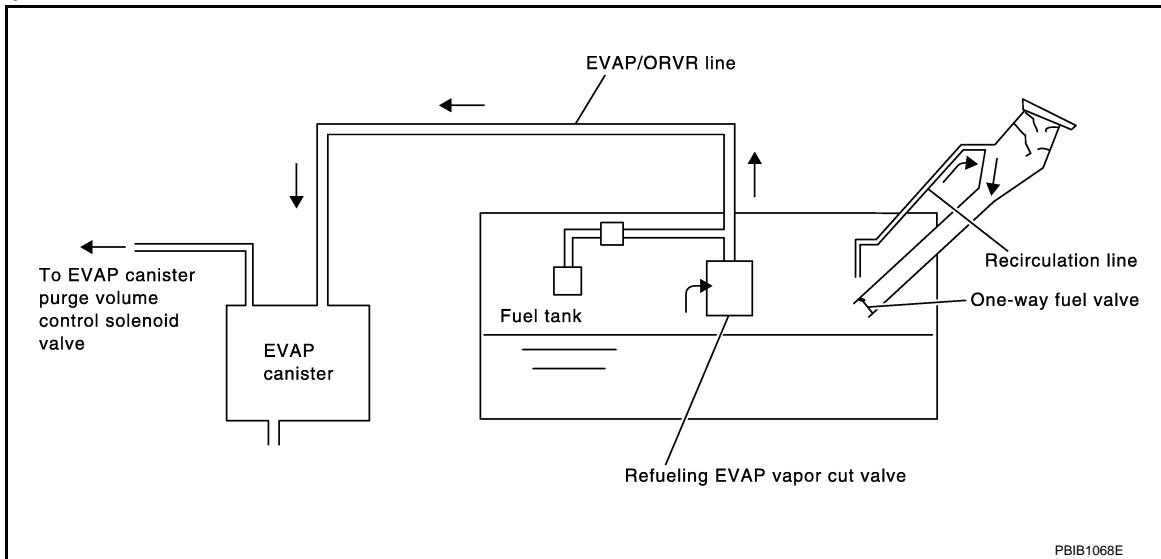
< DTC/CIRCUIT DIAGNOSIS >

[VQ37VHR]

ON BOARD REFUELING VAPOR RECOVERY (ORVR)

Description

INFOID:000000011736743



PBIB1068E

From the beginning of refueling, the air and vapor inside the fuel tank go through refueling EVAP vapor cut valve and EVAP/ORVR line to the EVAP canister. The vapor is absorbed by the EVAP canister and the air is released to the atmosphere.

When the refueling has reached the full level of the fuel tank, the refueling EVAP vapor cut valve is closed and refueling is stopped because of auto shut-off. The vapor which was absorbed by the EVAP canister is purged during driving.

WARNING:

When conducting inspections below, be sure to observe the following:

- Put a "CAUTION: FLAMMABLE" sign in workshop.
- Never smoke while servicing fuel system. Keep open flames and sparks away from work area.
- Always furnish the workshop with a CO₂ fire extinguisher.

CAUTION:

- Before removing fuel line parts, carry out the following procedures:
 - Put drained fuel in an explosion-proof container and put lid on securely.
 - Release fuel pressure from fuel line. Refer to [EC-632, "Inspection"](#).
 - Disconnect battery ground cable.
- Always replace O-ring when the fuel gauge retainer is removed.
- Never kink or twist hose and tube when they are installed.
- Never tighten hose and clamps excessively to avoid damaging hoses.
- After installation, run engine and check for fuel leaks at connections.
- Never attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.

Component Function Check

INFOID:000000011736744

1. CHECK ORVR FUNCTION

Check whether the following symptoms are present.

- Fuel odor from EVAP canister is strong.
- Cannot refuel/Fuel odor from the fuel filler opening is strong while refueling.

Are any symptoms present?

- YES >> Go to [EC-520, "Diagnosis Procedure"](#).
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000011736745

1. INSPECTION START

Check whether the following symptoms are present.

A: Fuel odor from EVAP canister is strong.

ECM

< ECU DIAGNOSIS INFORMATION >

[VQ37VHR]

DTC*1		Items (CONSULT screen terms)	SRT code	Trip	MIL	Permanent DTC group*4	Reference page
CONSULT GST*2	ECM*3						
P0452	0452	EVAP SYS PRES SEN	—	2	×	B	EC-344
P0453	0453	EVAP SYS PRES SEN	—	2	×	B	EC-349
P0456	0456	EVAP VERY SML LEAK	×*7	2	×	A	EC-355
P0460	0460	FUEL LEV SEN SLOSH	—	2	×	A	EC-361
P0461	0461	FUEL LEVEL SENSOR	—	2	×	B	EC-363
P0462	0462	FUEL LEVL SEN/CIRC	—	2	×	B	EC-365
P0463	0463	FUEL LEVL SEN/CIRC	—	2	×	B	EC-365
P0500	0500	VEH SPEED SEN/CIRC*6	—	2	×	B	EC-368
P0506	0506	ISC SYSTEM	—	2	×	B	EC-371
P0507	0507	ISC SYSTEM	—	2	×	B	EC-373
P050A	050A	COLD START CONTROL	—	2	×	A	EC-375
P050E	050E	COLD START CONTROL	—	2	×	A	EC-375
P0524	0524	ENGINE OIL PRESSURE	—	2	×	B	EC-377
P0550	0550	PW ST P SEN/CIRC	—	2	—	—	EC-380
P0555	0555	BRAKE BSTR PRES SEN/ CIRC	—	2	×	B	EC-383
P0603	0603	ECM BACK UP/CIRCUIT	—	2	×	B	EC-388
P0605	0605	ECM	—	1 or 2	× or —	B	EC-390
P0607	0607	ECM	—	1 (A/T models) or 2 (M/T models)	× (A/T models) or — (M/T models)	B	EC-392
P0643	0643	SENSOR POWER/CIRC	—	1	×	B	EC-393
P0705	0705	T/M RANGE SWITCH A	—	2	×	B	TM-218
P0710	0710	FLUID TEMP SENSOR A	—	2	×	B	TM-220
P0717	0717	INPUT SPEED SENSOR A	—	2	×	B	TM-223
P0720	0720	OUTPUT SPEED SENSOR*6	—	2	×	B	TM-225
P0729	0729	6GR INCORRECT RATIO	—	2	×	B	TM-229
P0730	0730	INCORRECT GR RATIO	—	2	×	B	TM-231
P0731	0731	1GR INCORRECT RATIO	—	2	×	B	TM-233
P0732	0732	2GR INCORRECT RATIO	—	2	×	B	TM-235
P0733	0733	3GR INCORRECT RATIO	—	2	×	B	TM-237
P0734	0734	4GR INCORRECT RATIO	—	2	×	B	TM-239
P0735	0735	5GR INCORRECT RATIO	—	2	×	B	TM-241
P0740	0740	TORQUE CONVERTER	—	2	×	B	TM-243
P0744	0744	TORQUE CONVERTER	—	2	×	B	TM-245
P0745	0745	PC SOLENOID A	—	2	×	B	TM-247
P0750	0750	SHIFT SOLENOID A	—	2	×	B	TM-248
P0775	0775	PC SOLENOID B	—	2	×	B	TM-249
P0780	0780	SHIFT	—	1	×	B	TM-250
P0795	0795	PC SOLENOID C	—	2	×	B	TM-252
P0820	0820	GEAR LVR POS SEN/CIRC	—	1	—	—	EC-396

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SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting - Engine Valve Noise

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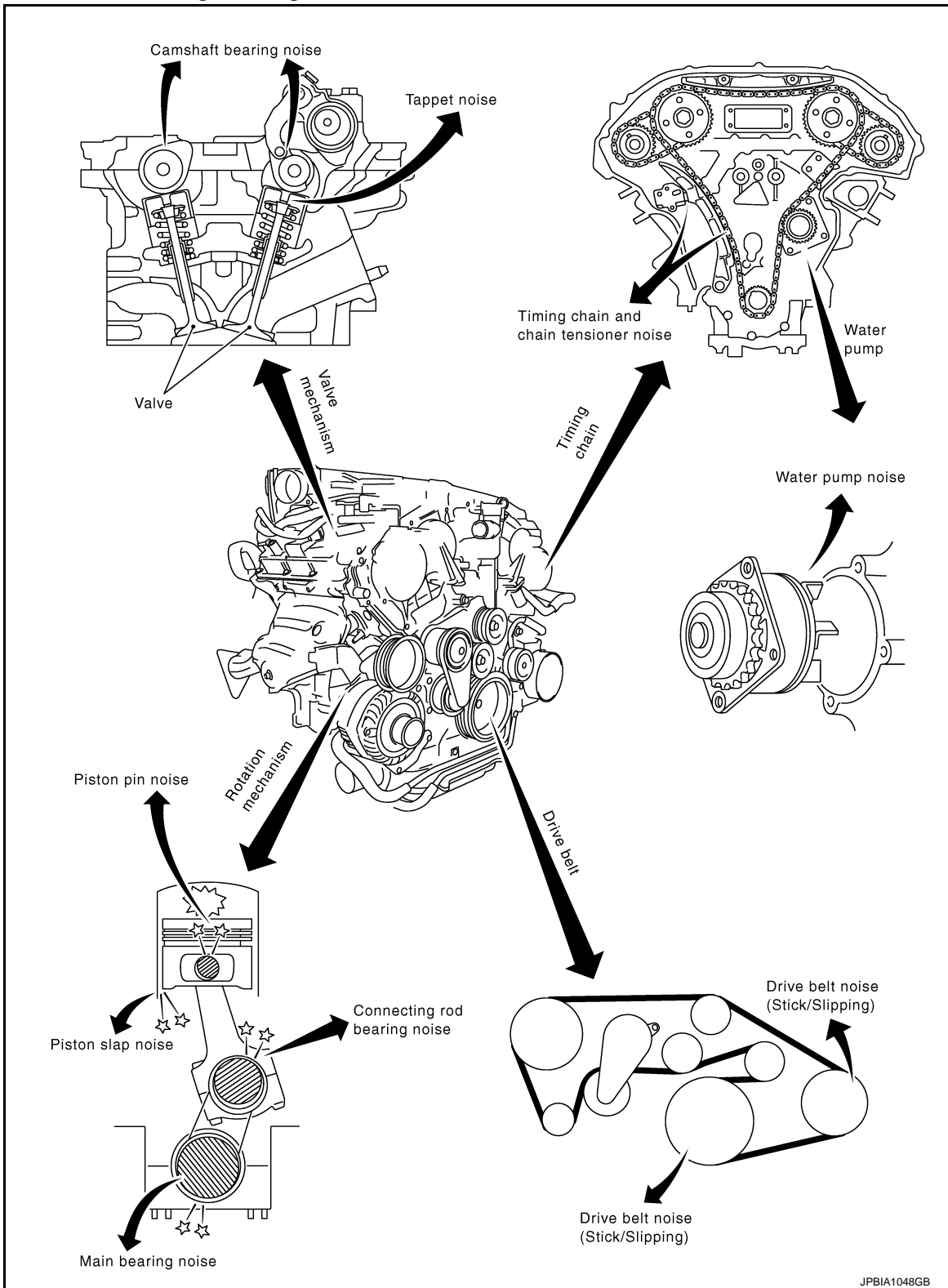
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Use the Chart Below to Help You Find the Cause of the Symptom

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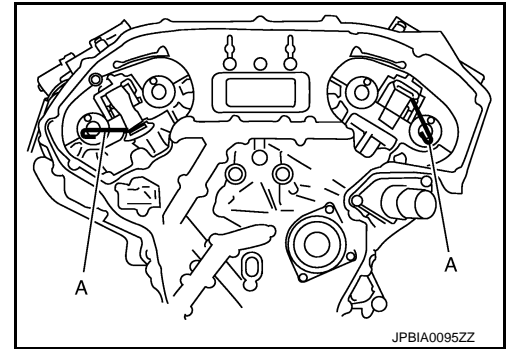
1. Locate the area where noise occurs.

TIMING CHAIN

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- a. Push plunger of timing chain tensioner (secondary) and keep it pressed in with a stopper pin (A).



- b. Install timing chains (secondary) and camshaft sprockets.

NOTE:

Figure shows bank 1 (rear view).

- A : Camshaft sprocket (INT) back face
- B : Orange link
- C : Dowel groove
- D : Matching mark (oval)
- E : Matching mark (2 oval: on front face)
- F : Matching mark (circle)
- G : Camshaft sprocket (EXH) back face
- H : Matching mark (2 circle: on front face)
- I : Timing chain (secondary)

- Align the matching marks on timing chain (secondary) (orange link) with the ones on intake and exhaust camshaft sprockets (punched), and install them.

NOTE:

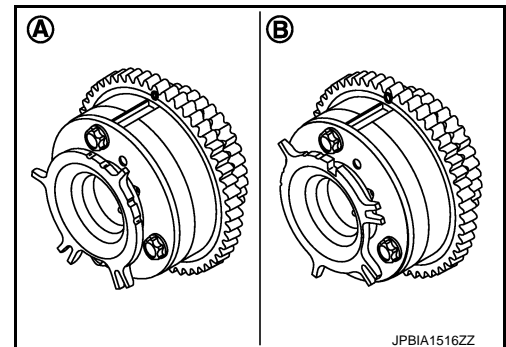
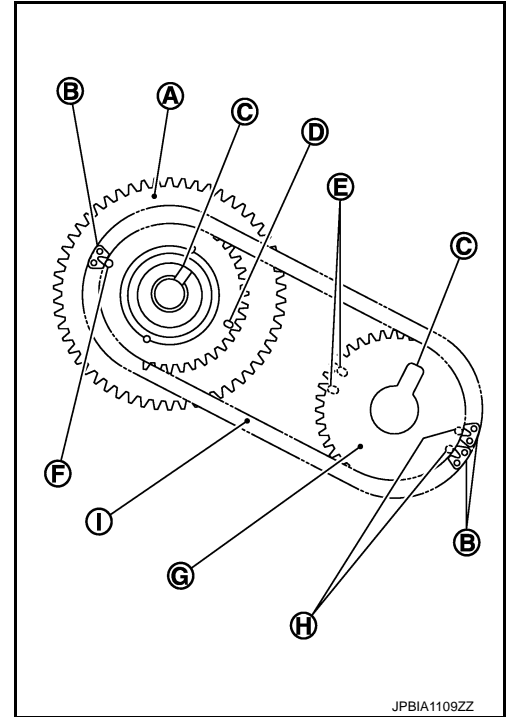
- Matching marks for camshaft sprockets (INT) are on the back side of camshaft sprockets (secondary).
- There are two types of matching marks, the circle and oval types. They should be used for the bank 1 and bank 2, respectively.

Bank 1 : Use circle type

Bank 2 : Use oval type

- Shape (orientation of signal plate) of camshaft sprocket (INT) varies depending on the bank position. See the right figure to install.

- A : Bank 1
- B : Bank 2



- Align dowel pin camshafts with the pin groove on sprockets, and install them.
- In case that positions of each matching mark and each dowel pin do not fit with matching parts, make fine adjustment to the position holding the hexagonal portion on camshaft (EXH) or drive shaft with wrench or equivalent tool.
- Mounting bolts for camshaft sprockets must be tightened in the next step. Tightening them by hand is sufficient to prevent the dislocation of dowel pins.

CYLINDER BLOCK

< UNIT DISASSEMBLY AND ASSEMBLY >

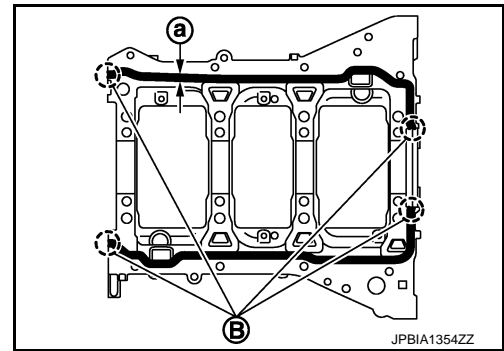
[REGULAR GRADE]

- Apply a continuous bead of liquid gasket with the tube presser (commercial service tool) to lower cylinder block as shown in the figure.

B : Apply to end

a : $\phi 4.0 - 5.0$ mm (0.157 - 0.197 in)

Use Genuine RTV Silicone Sealant or equivalent. Refer to [GI-22, "Recommended Chemical Products and Sealants"](#).



- Inspect the outer diameter of lower cylinder block bolt. Refer to [EM-126, "Inspection"](#).
- Install lower cylinder block bolts as follows:
 - Apply new engine oil to threads and seat surfaces of lower cylinder block bolts.
 - Tighten bolts (No. 17 to 26) in numerical order as shown in the figure.

← : Engine front

: **25.0 N·m (2.6 kg·m, 18 ft·lb)**

- Repeat step b.
- Tighten bolts (No. 1 to 16) in numerical order as shown in the figure.

NOTE:

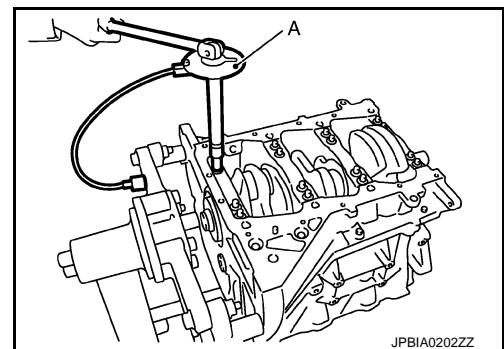
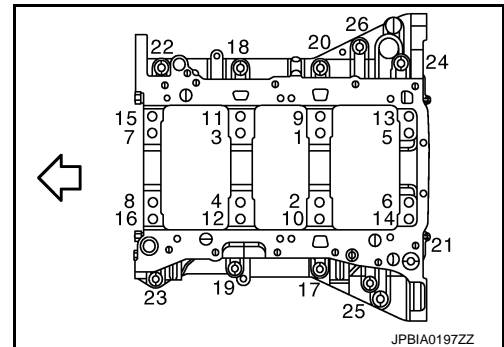
Use TORX socket for bolts No.1 to 16.

: **35.3 N·m (3.6 kg·m, 26 ft·lb)**

- Turn bolts (No. 1 to 16) 90 degrees clockwise (angle tightening).

CAUTION:

Use the angle wrench [SST: KV10112100 (BT8653-A)] (A) to check tightening angle. Never make judgment by visual inspection.



- After installing lower cylinder block bolts, check that crankshaft can be rotated smoothly by hand.
 - Check the crankshaft end play. Refer to [EM-126, "Inspection"](#).
- Install piston to connecting rod as follows:
 - Using snap ring pliers, install new snap ring to the groove of piston rear side.
 - Insert it fully into groove to install.
 - Install piston to connecting rod.
 - Using an industrial use dryer or similar tool, heat piston until piston pin can be pushed in by hand without excess force [approximately 60 to 70°C (140 to 158°F)]. From the front to the rear, insert piston pin into piston and connecting rod.

SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

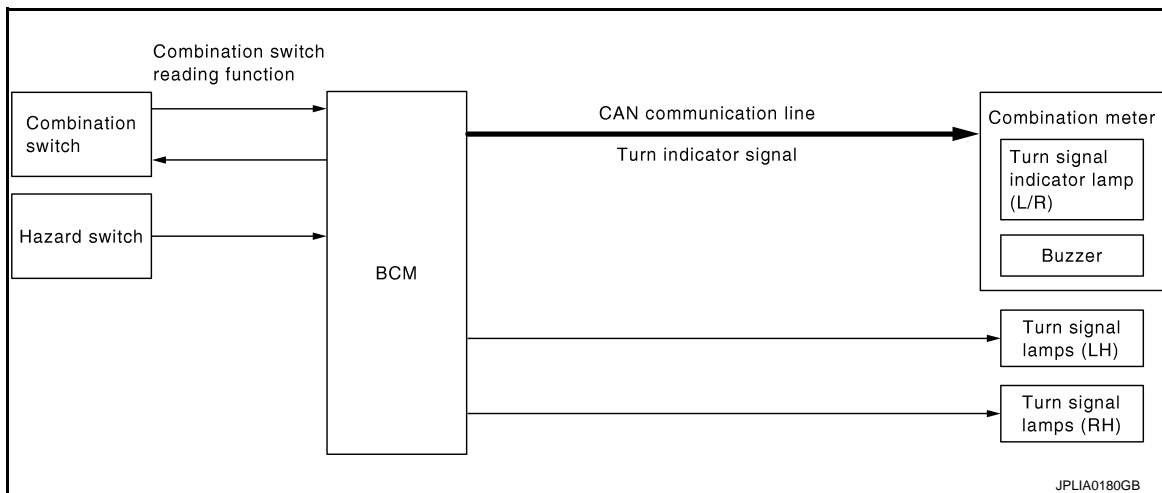
- BCM detects the parking brake condition by the parking brake switch signal received from combination meter with CAN communication.
- BCM detects ENGINE RUNNING condition by engine status signal and RELEASE condition by parking brake switch signal. And then, BCM transmits the daytime running light request signal to IPDM E/R with CAN communication according to any of the daytime running light ON condition.

Daytime running light ON condition

- Lighting switch OFF
- Lighting switch AUTO and auto light judgement OFF
- IPDM E/R turns the integrated front fog lamp relay ON, and turns the daytime running light ON according to the daytime running light request signal.

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Diagram



TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description

INFOID:000000011737129

OUTLINE

Turn signal and the hazard warning lamp is controlled by combination switch reading function and the flasher control function of BCM.

TURN SIGNAL LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM supplies voltage to the right (left) turn signal lamp circuit when the ignition switch is turned ON and the turn signal switch is in the right (left) position. BCM blinks the turn signal lamp.

HAZARD WARNING LAMP OPERATION

BCM supplies voltage to both turn signal lamp circuit when the hazard switch is turned ON. BCM blinks the hazard warning lamp.

TURN SIGNAL INDICATOR LAMP AND TURN SIGNAL SOUND OPERATION

- BCM transmits the turn indicator signal to the combination meter with CAN communication while the turn signal lamp and the hazard warning lamp operating.
- Combination meter outputs the turn signal sound with the integrated buzzer while blinking the turn signal indicator lamp according to the turn indicator signal.

3-TIME FLASHER FUNCTION

- By a short touch of the turn signal lever, BCM blinks the turn signal lamps 3 times in the selected direction.
- Cancels the operation when short touch of the turn signal lever in the reverse direction during the 3-time flasher function operation.

HIGH FLASHER OPERATION

- BCM detects the turn signal lamp circuit status from the current value.

HEADLAMP (HI) CIRCUIT

[XENON TYPE]

< DTC/CIRCUIT DIAGNOSIS >

- With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

Terminals			Test item	Voltage (Approx.)
(+)		(-)		
IPDM E/R			EXTERNAL LAMPS	Battery voltage
Connector	Terminal			
RH	E8	89	Hi	Battery voltage
LH		90	Off	0 V
			Ground	Battery voltage
				Off

Is the measurement value normal?

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

2.CHECK HEADLAMP (HI) OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector.
- Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

IPDM E/R			Front combination lamp		Continuity
Connector	Terminal		Connector	Terminal	
RH	E8	89	E28	7	Existed
LH		90	E58	7	

Does continuity exist?

- YES >> Replace the front combination lamp.
NO >> Repair the harnesses or connectors.

3.CHECK HEADLAMP (HI) FUSE

- Turn the ignition switch OFF.
- Check that the following fuses are not fusing.

Unit	Location	Fuse No.	Capacity
Headlamp HI (RH)	IPDM E/R	#55	10 A
Headlamp HI (LH)	IPDM E/R	#54	10 A

Is the fuse fusing?

- YES >> GO TO 4.
NO >> Replace IPDM E/R.

4.CHECK FRONT COMBINATION LAMP (HI) SHORT CIRCUIT

- Disconnect IPDM E/R connector.
- Check continuity between the IPDM E/R harness connector terminal and the ground.

IPDM E/R			Ground	Continuity
Connector	Terminal			
RH	E8	89		Not existed
LH		90		

Does continuity exist?

- YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.)

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

3. The trunk lid torsion bars knocking together

4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise

2. Sunvisor shaft shaking in the holder

3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder

2. A squeak between the seat pad cushion and frame

3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall

2. Components that pass through the engine wall

3. Engine wall mounts and connectors

4. Loose radiator mounting pins

5. Hood bumpers out of adjustment

6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

A

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P

FUEL LEVEL SENSOR UNIT, FUEL FILTER AND FUEL PUMP ASSEMBLY

< REMOVAL AND INSTALLATION >

1. Main fuel level sensor unit
 2. Adapter
 3. Fuel filter and fuel pump assembly
- A. Fuel tank temperature sensor

Removal and Installation

INFOID:000000011736234

WARNING:

Read "General Precautions" when working on the fuel system. Refer to [FL-2, "General Precautions"](#).

REMOVAL

1. Check fuel level on fuel gauge. If fuel gauge indicates more than the level as shown in the figure (full or almost full), drain fuel from fuel tank until fuel gauge indicates level as shown in the figure or below.

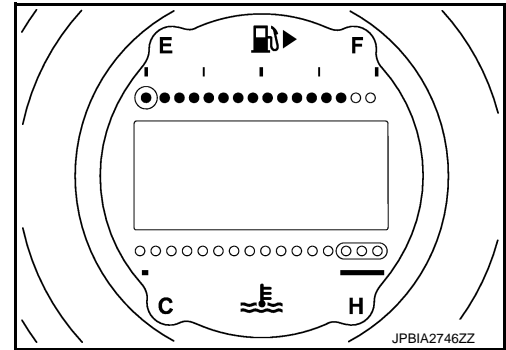
NOTE:

Because fuel will be spilled when removing main and sub fuel level sensor units for the top of the fuel is above the main and sub fuel level sensor units installation surface.

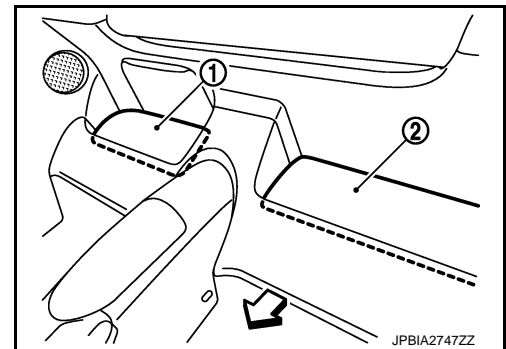
- As a guide, fuel level becomes the position as shown in the figure or below when approximately 13 ℓ (3-3/8 US gal, 2-7/8 Imp gal) of fuel are drained from fuel tank.

- In a case that fuel pump does not operate, perform the following procedure.

- a. Insert hose of less than 20 mm (0.79 in) in diameter into fuel filler tube through fuel filler opening to draw fuel from fuel filler tube.
 - b. Disconnect fuel filler hose from fuel filler tube. Refer to [FL-11, "Exploded View"](#).
 - c. Insert fuel tube into fuel tank through fuel filler hose to draw fuel from fuel tank.
2. Release the fuel pressure from the fuel lines. Refer to [EC-632, "Inspection"](#).
 3. Open fuel filler lid.
 4. Open filler cap and release the pressure inside fuel tank.
 5. Remove rear parcel shelf cover RH (1) and rear parcel shelf cover LH (2). Refer to [INT-23, "Exploded View"](#).



↔ : Vehicle front



6. Remove inspection hole cover.

Right side : Main fuel level sensor unit, fuel filter and fuel pump assembly

Left side : Sub fuel level sensor unit

TIGHTENING TORQUE OF STANDARD BOLTS

< HOW TO USE THIS MANUAL >

[REGULAR GRADE]

TIGHTENING TORQUE OF STANDARD BOLTS

GI

Description

INFOID:000000011740750

This vehicle has both new standard based on ISO* and previous standard bolts/nuts. There are some differences between these two types of bolts/nuts: shape of the head, grade of strength, hexagonal width across flats and the standard tightening torque.

- For guidance in discriminating, refer to [GI-19, "Tightening Torque Table \(New Standard Included\)"](#).
- The new standard machine screws and tapping screws have a head of ISO standard torx recess.
- If the tightening torque is not described in the description or figure, refer to [GI-19, "Tightening Torque Table \(New Standard Included\)"](#).

*ISO: International Organization for Standardization

Tightening Torque Table (New Standard Included)

INFOID:000000011740751

CAUTION:

- The special parts are excluded.
- The bolts/nuts in these tables have a strength (discrimination) number/symbol assigned to the head or the like. As to the relation between the strength grade in these tables and the strength (discrimination) number/symbol, refer to "DISCRIMINATION OF BOLTS AND NUTS".

PREVIOUS STANDARD

Grade (Strength grade)	Bolt size	Bolt di- ameter mm	Hexagonal width across flats mm	Pitch mm	Tightening torque (Without lubricant)							
					Hexagon head bolt				Hexagon flange bolt			
					N-m	kg-m	ft-lb	in-lb	N-m	kg-m	ft-lb	in-lb
4T	M6	6.0	10	1.0	5.5	0.56	4	49	7	0.71	5	62
	M8	8.0	12	1.25	13.5	1.4	10	—	17	1.7	13	—
				1.0	13.5	1.4	10	—	17	1.7	13	—
	M10	10.0	14	1.5	28	2.9	21	—	35	3.6	26	—
				1.25	28	2.9	21	—	35	3.6	26	—
	M12	12.0	17	1.75	45	4.6	33	—	55	5.6	41	—
1.25				45	4.6	33	—	65	6.6	48	—	
M14	14.0	19	1.5	80	8.2	59	—	100	10	74	—	
7T	M6	6.0	10	1.0	9	0.92	7	80	11	1.1	8	97
	M8	8.0	12	1.25	22	2.2	16	—	28	2.9	21	—
				1.0	22	2.2	16	—	28	2.9	21	—
	M10	10.0	14	1.5	45	4.6	33	—	55	5.6	41	—
				1.25	45	4.6	33	—	55	5.6	41	—
	M12	12.0	17	1.75	80	8.2	59	—	100	10	74	—
1.25				80	8.2	59	—	100	10	74	—	
M14	14.0	19	1.5	130	13	96	—	170	17	125	—	
9T	M6	6.0	10	1.0	11	1.1	8	—	13.5	1.4	10	—
	M8	8.0	12	1.25	28	2.9	21	—	35	3.6	26	—
				1.0	28	2.9	21	—	35	3.6	26	—
	M10	10.0	14	1.5	55	5.6	41	—	80	8.2	59	—
				1.25	55	5.6	41	—	80	8.2	59	—
	M12	12.0	17	1.75	100	10	74	—	130	13	96	—
1.25				100	10	74	—	130	13	96	—	
M14	14.0	19	1.5	170	17	125	—	210	21	155	—	

CAUTION:

WINDSHIELD GLASS

< REMOVAL AND INSTALLATION >

- | | | |
|------------------------------|------------------------------|-----------------------------|
| 1. Windshield upper molding | 2. Windshield glass assembly | 3. Mirror base |
| 4. Windshield insulator | 5. Primer | 6. Roof assembly |
| 7. Inside mirror cover | 8. Headlining assembly | 9. Front roof rail |
| 10. Adhesive | 11. Dash side upper | 12. Dash upper cross member |
| 13. Windshield insulator | 14. Front pillar finisher | 15. Front pillar garnish |
| 16. Front pillar inner upper | 17. Front pillar outer upper | 18. Cowl top cover LH |
| 19. Dam sealant rubber | 20. Spacer | |

Unit : mm (in)

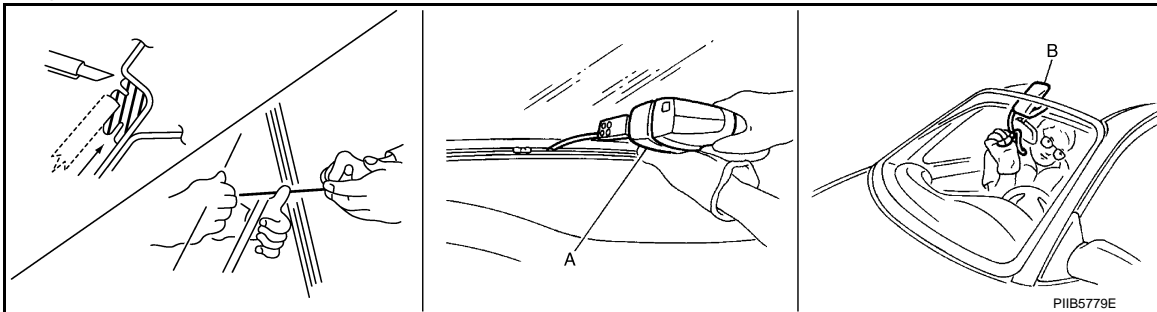
⊗ : Always replace after every disassembly.

Removal and Installation

INFOID:000000011740940

REMOVAL

1. Open the soft top. (Roadster model only)
2. Remove the front pillar garnish (LH/RH). Coupe model : Refer to [INT-18, "FRONT PILLAR GARNISH : Removal and Installation"](#). Roadster model : [INT-51, "FRONT PILLAR GARNISH : Removal and Installation"](#).
3. Disconnect the inside mirror harness connector.
4. Remove partially the headlining (front edge). (Coupe model only) Refer to [INT-28, "Removal and Installation"](#).
5. Remove the front roof finisher. (Roadster model only) Refer to [INT-71, "Removal and Installation"](#).
6. Remove the front wiper arm and blade (LH/RH). Refer to [WW-49, "Removal and Installation"](#).
7. Remove the cowl top cover (LH/RH/Center). Refer to [EXT-29, "Removal and Installation"](#).
8. Remove the front pillar finisher (LH/RH). Refer to [EXT-49, "FRONT PILLAR FINISHER \(Roadster\) : Removal and Installation"](#).
9. Apply protective tape around the windshield glass to protect the painted surface from damage.
10. Remove glass using piano wire or power cutting tool (A) and an inflatable pump bag (B) after removing moldings.



WARNING:

Always wear safety glasses and heavy gloves to help prevent injuries.

CAUTION:

Never set or stand the glass on its edge. Small chips may develop into cracks.

INSTALLATION

- The dam sealant rubber should be installed in position.
- Use a genuine Nissan Urethane Adhesive Kit (if available) or an equivalent and follow the instructions provided with it.
- Open a door window while the urethane adhesive is curing. This prevents the glass from being forced out by passenger room air pressure when all door windows are closed.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive is completely cured (approximately 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Never let them come in contact with the skin and eyes.

HEATER & COOLING UNIT ASSEMBLY

< REMOVAL AND INSTALLATION >

HEATER & COOLING UNIT ASSEMBLY : Removal and Installation

INFOID:000000011738814

CAUTION:

Perform lubricant return operation before each refrigeration system disassembly. However, if a large amount of refrigerant or lubricant is detected, never perform lubricant return operation. Refer to [HA-28. "Perform Lubricant Return Operation"](#).

REMOVAL

1. Set the temperature at full cold.

CAUTION:

The angle may be out, when installing the air mix door motor to the air mix door, unless the above procedure is performed.

2. Disconnect the battery cable from the negative terminal.
3. Use a refrigerant collecting equipment (for HFC-134a) to discharge the refrigerant. Refer to [HA-26. "Recycle Refrigerant"](#).
4. Drain engine coolant from cooling system. Refer to [CO-11. "Draining"](#).
5. Remove cowl top cover. Refer to [EXT-29. "Exploded View"](#).

6. Disconnect one-touch joint between high-pressure pipe (1) and high-pressure evaporator pipe (2) with disconnecter (SST: J-45815).

CAUTION:

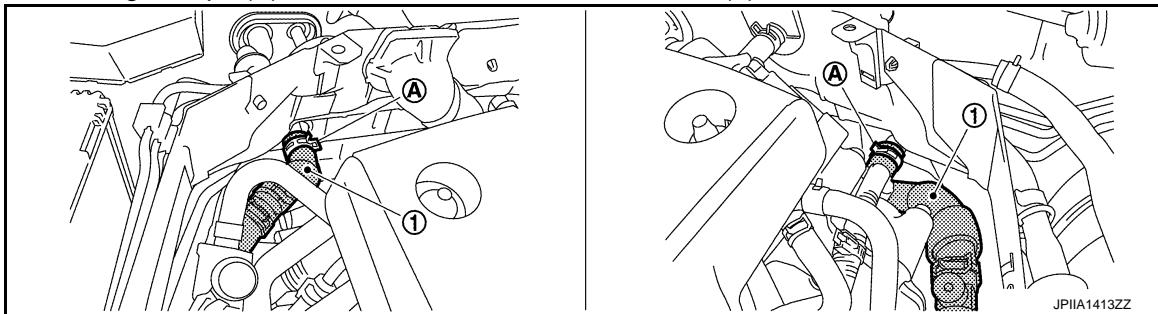
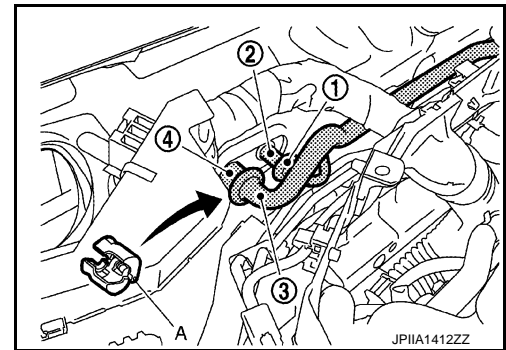
Cap or wrap the joint of the A/C piping with suitable material such as vinyl tape to avoid the entry of air.

7. Disconnect one-touch joint between low-pressure pipe (3) and low-pressure evaporator pipe (4) with disconnecter (SST: J-45815) (A).

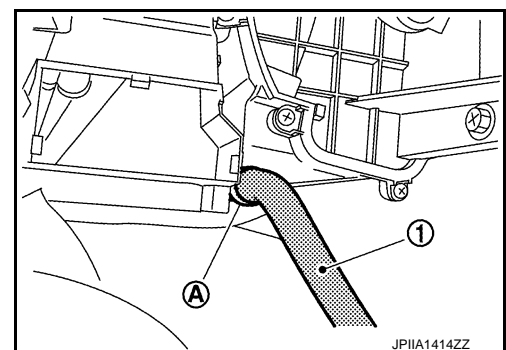
CAUTION:

Cap or wrap the joint of the A/C piping with suitable material such as vinyl tape to avoid the entry of air.

8. Remove fixing clamps (A), and then disconnect heater hoses (1).



9. Remove ventilator duct. Refer to [VTL-8. "Exploded View"](#).
10. Remove foot grille LH and RH. Refer to [VTL-8. "Exploded View"](#).
11. Move steering column assembly to a position where it does not inhibit work. Refer to [ST-15. "Exploded View"](#).
12. Remove instrument stay LH and RH.
13. Remove fixing clamp (A), and then disconnect drain hose (1).

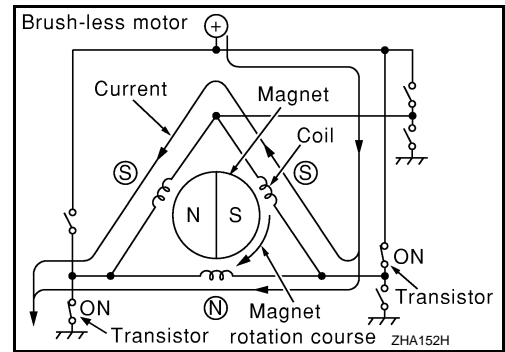
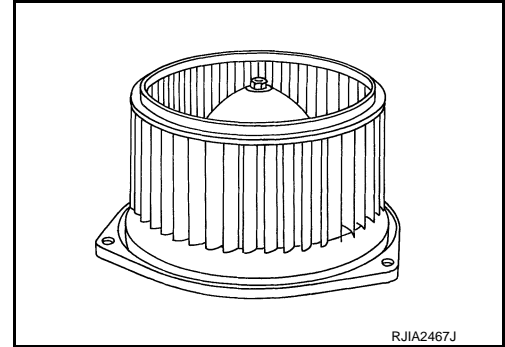


BLOWER MOTOR

Description

INFOID:000000011737975

- The blower motor utilizes a brush-less motor with a rotating magnet.
- Quietness is improved over previous motors where the brush was the point of contact and the coil rotated.



Component Function Check

INFOID:000000011737976

1. CHECK OPERATION

1. Warm up the engine.
2. Operate the fan control dial. Check that the fan speed and indicator unit are switched for all fan speeds.

Does it operate normally?

YES >> INSPECTION END

NO >> Perform the diagnosis for the blower motor. Refer to [HAC-53, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011737977

1. SELF-DIAGNOSIS RESULT CHECK

With CONSULT

1. Perform the "SELF-DIAGNOSIS".
2. Check if any DTC is detected in the self-diagnostic results.

NOTE:

If DTC is displayed along with DTC "U1000" or "U1010", first diagnose the DTC "U1000" or "U1010". Refer to [HAC-27, "DTC Logic"](#) or [HAC-28, "DTC Logic"](#).

Is any DTC displayed?

YES >> Perform the diagnosis that is applicable to the sensor and actuator. Refer to [HAC-72, "DTC Index"](#).

NO >> GO TO 2.

2. PERFORM ACTIVE TEST

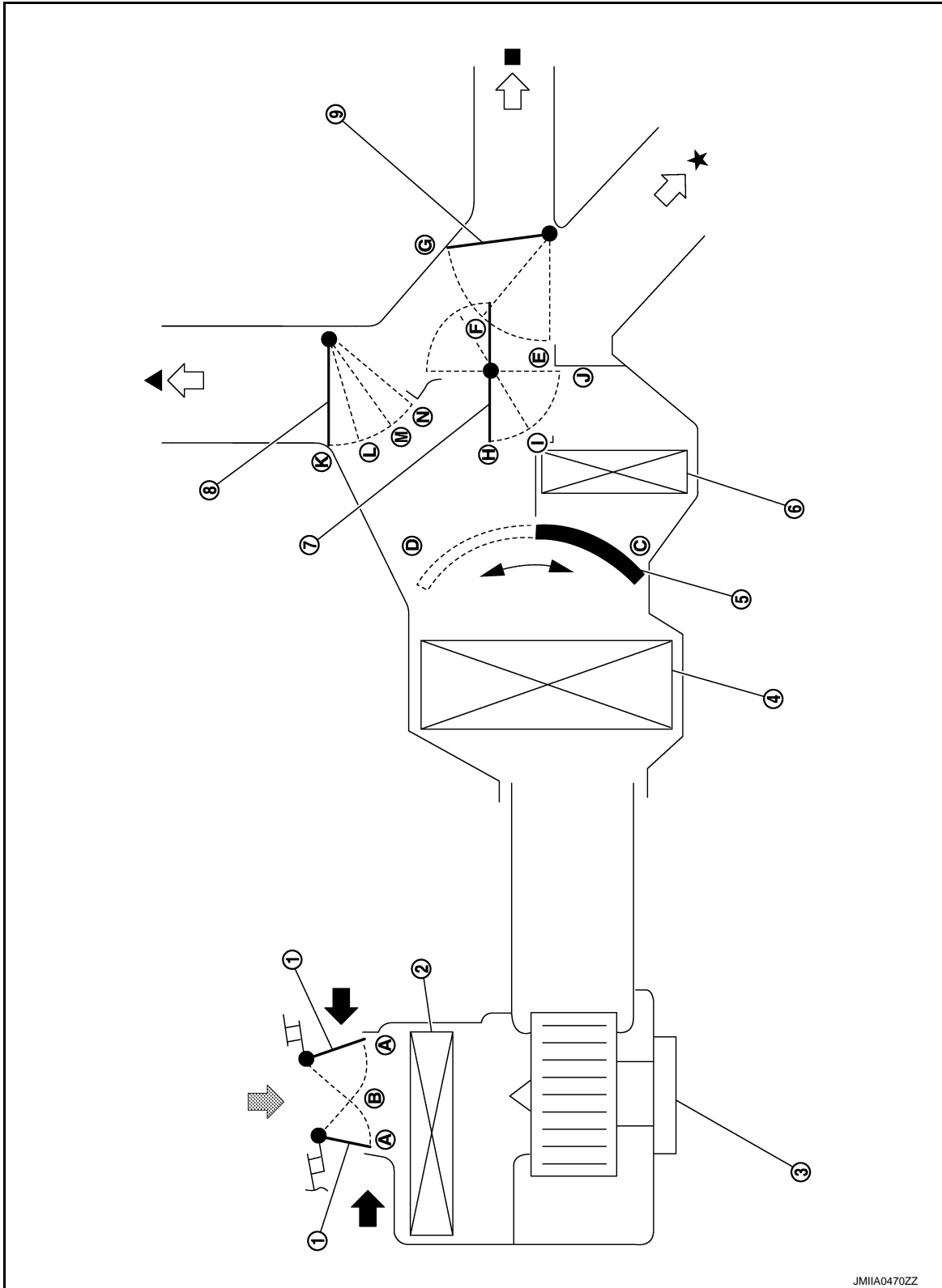
With CONSULT

1. Perform the "HVAC TEST" of HVAC active test item.
2. Check that the blower motor control signal changes according to each indicator number.

AUTOMATIC AIR CONDITIONING SYSTEM

< SYSTEM DESCRIPTION >

[WITH 7 INCH DISPLAY]



JMIIA0470ZZ

- | | | |
|--------------------|--|--------------------|
| 1. Intake door | 2. In-cabine microfilter/Air conditioner filter* | 3. Blower motor |
| 4. Evaporator | 5. Air mix door | 6. Heater core |
| 7. Max. cool door | 8. Defroster door | 9. Ventilator door |
| ↖ Fresh air intake | ← Recirculation air | |
| ▲ Defroster | ■ Ventilator | ★ Foot |

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MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH 7 INCH DISPLAY]

MEMORY FUNCTION DOES NOT OPERATE

Description

INFOID:000000011738093

Symptom

- Memory function does not operate normally.
- The setting is not maintained. (It returns to the initial condition.)

Diagnosis Procedure

INFOID:000000011738094

1.CHECK OPERATION

1. Turn the ignition switch ON.
2. Set temperature control dial to 32.0°C (90°F).
3. Press the OFF switch.
4. Turn the ignition switch OFF.
5. Turn the ignition switch ON.
6. Press the AUTO switch.
7. Check that the set temperature is maintained.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK POWER SUPPLY AND GROUND CIRCUIT OF A/C AUTO AMP.

Check power supply and ground circuit of the A/C auto amp. Refer to [HAC-138, "A/C AUTO AMP. : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace the A/C auto amp.

NO >> Repair or replace malfunctioning parts.

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HAC

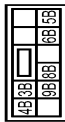
ILLUMINATION

< WIRING DIAGRAM >

[COUPE]

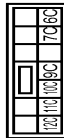
ILLUMINATION

Connector No.	M2
Connector Name	FUSE BLOCK (I/B)
Connector Type	NS10PW-CS



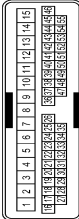
Terminal No.	Color Of Wire	Signal Name (Specification)
3B	P	-
4B	G	-
5B	O	-
6B	Y	-
7B	R	-
8B	SB	-
9B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (I/B)
Connector Type	NS12W-CS



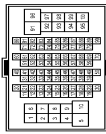
Terminal No.	Color Of Wire	Signal Name (Specification)
10C	L	-
11C	LG	-
12C	O	-
13C	R	-
14C	B	-
15C	O	-
16C	R	-
17C	B	-
18C	O	-
19C	R	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color Of Wire	Signal Name (Specification)
6	SHIELD	-
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	- [Without active noise control]
12	R	- [With active noise control]
13	B	- [Without active noise control]
14	G	- [With active noise control]
15	V	-
16	W	-
17	Y	-
18	Y	-
19	V	-
20	V	-
21	Y	-
22	SHIELD	-
23	BR	-
24	L	-
25	L	-
26	SHIELD	-
27	L	-
28	L	-
29	B	-
30	SB	-
31	Y	-
32	W	-
33	R	-
34	L	-
35	L	-
36	W	-
37	B	-
38	SB	-
39	Y	-
40	W	-
41	R	-
42	L	-
43	W	-
44	G	-
45	R	-
46	R	-
47	R	-

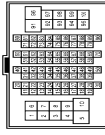
Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1F-TM4



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

83	V	-
84	L	-
85	BR	-
86	Y	-
87	G	-
89	P	-
91	W	-
92	P	-
93	P	-
94	Y	-
95	P	-
98	O	-
99	W	-
100	R	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1F-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	BR	-
2	O	-
3	LG	-
4	O	-
5	V	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
10	Y	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
17	R	-
18	L	-
19	L	-
20	SB	-
21	G	-
22	GR	-
23	V	-

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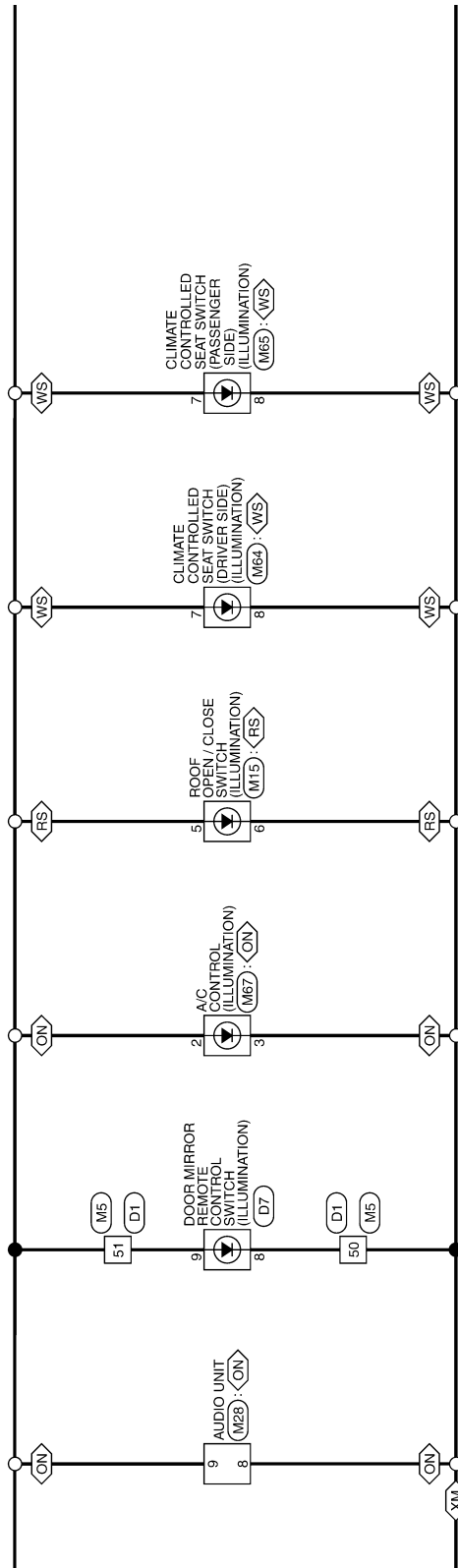
JRLWE8470GB

ILLUMINATION

< WIRING DIAGRAM >

[ROADSTER]

- ◊WB◊ : With BOSE system
- ◊OB◊ : Without BOSE system
- ◊ON◊ : Without NAVI
- ◊WS◊ : With climate controlled seat



JRLWE8465GB

LUGGAGE FLOOR TRIM

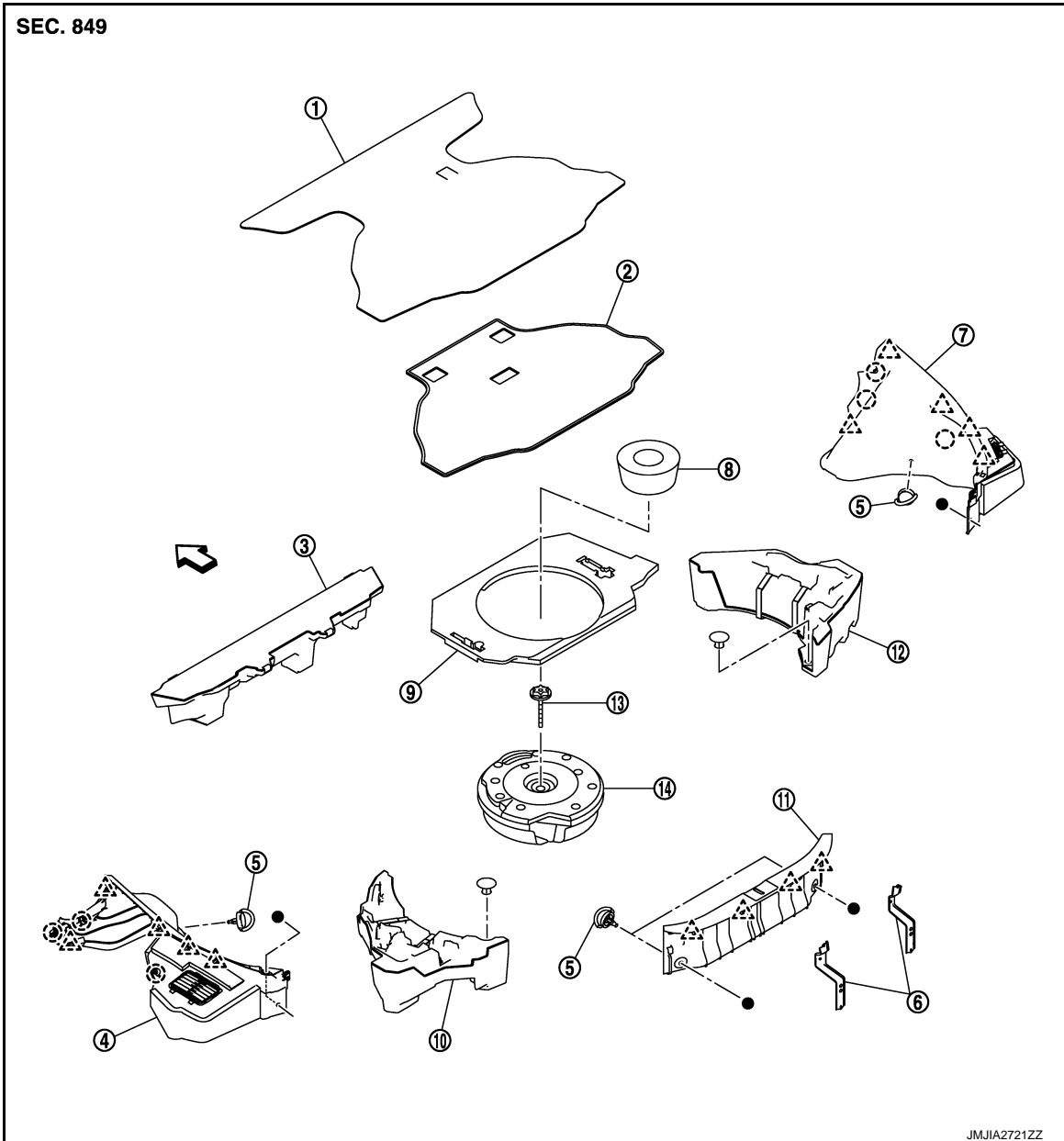
< REMOVAL AND INSTALLATION >

[COUPE (REGULAR GRADE)]

LUGGAGE FLOOR TRIM

Exploded View

INFOID:000000011738602



- | | | |
|----------------------------------|--|----------------------------------|
| 1. Luggage floor carpet assembly | 2. Spare tire cover | 3. Luggage spacer center front |
| 4. Luggage side finisher LH | 5. Trunk net hook | 6. Luggage bracket (LH/RH) |
| 7. Luggage side finisher RH | 8. Luggage floor spacer center rear (without BOSE audio) | 9. Luggage spacer |
| 10. Luggage side box assembly LH | 11. Luggage rear plate | 12. Luggage side box assembly RH |
| 13. Clamp | 14. Woofer (with BOSE audio) | |

- : Clip
- △ : Pawl
- ↳ : Vehicle front

●, ▲, ◆, ★ : Indicates that the part is connected at points with same symbol in actual vehicle.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

Diagnostic Worksheet

INFOID:000000011737261



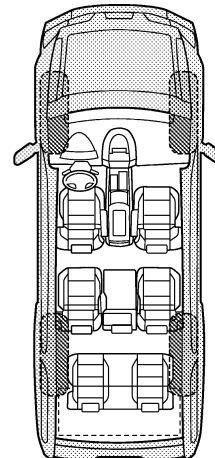
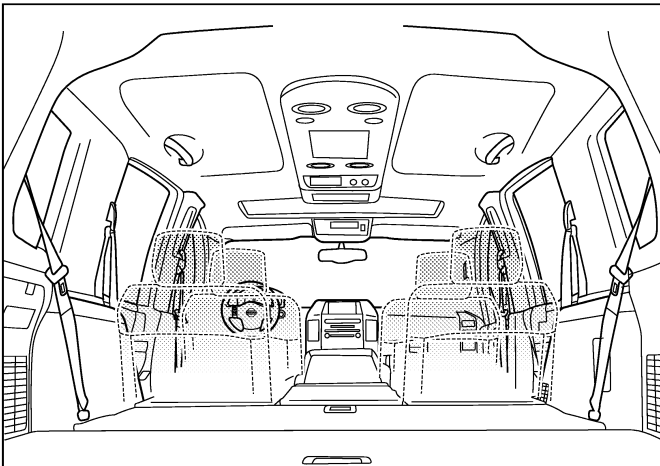
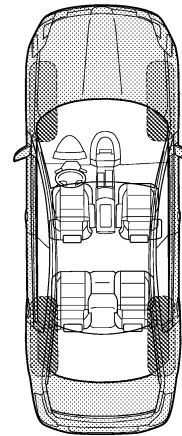
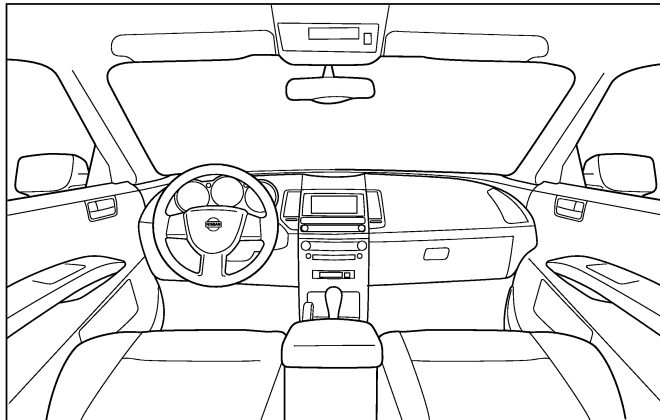
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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MALFUNCTION AREA CHART

< DTC/CIRCUIT DIAGNOSIS >

[CAN]

MALFUNCTION AREA CHART

Main Line

INFOID:000000011736072

Malfunction area	Reference
Main line between data link connector and ABS actuator and electric unit (control unit)	LAN-41, "Diagnosis Procedure"

Branch Line

INFOID:000000011736073

Malfunction area	Reference
ECM branch line circuit	LAN-42, "Diagnosis Procedure"
Air bag diagnosis sensor unit branch line circuit	LAN-43, "Diagnosis Procedure"
BOSE amp. branch line circuit	LAN-44, "Diagnosis Procedure"
AV control unit branch line circuit	LAN-45, "Diagnosis Procedure"
BCM branch line circuit	LAN-46, "Diagnosis Procedure"
Soft top control unit branch line circuit	LAN-47, "Diagnosis Procedure"
Data link connector branch line circuit	LAN-48, "Diagnosis Procedure"
A/C auto amp. branch line circuit	LAN-49, "Diagnosis Procedure"
Combination meter branch line circuit	LAN-50, "Diagnosis Procedure"
Steering angle sensor branch line circuit	LAN-51, "Diagnosis Procedure"
TCM branch line circuit	LAN-52, "Diagnosis Procedure"
ABS actuator and electric unit (control unit) branch line circuit	LAN-53, "Diagnosis Procedure"
IPDM E/R branch line circuit	LAN-54, "Diagnosis Procedure"

Short Circuit

INFOID:000000011736074

Malfunction area	Reference
CAN communication circuit	LAN-55, "Diagnosis Procedure"

ECM BRANCH LINE CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[CAN SYSTEM (TYPE 4)]

ECM BRANCH LINE CIRCUIT

Diagnosis Procedure

INFOID:000000011999440

1. CHECK CONNECTOR

1. Turn the ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check the terminals and connectors of the ECM for damage, bend and loose connection (unit side and connector side).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair the terminal and connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect the connector of ECM.
2. Check the resistance between the ECM harness connector terminals.

ECM harness connector			Resistance (Ω)
Connector No.	Terminal No.		
M107	114	113	Approx. 108 – 132

Is the measurement value within the specification?

- YES >> GO TO 3.
NO >> Repair the ECM branch line.

3. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check the power supply and the ground circuit of the ECM. Refer to [EC-173, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES (Present error)>>Replace the ECM. Refer to [EC-17, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(ECM\) : Special Repair Requirement"](#).

YES (Past error)>>Error was detected in the ECM branch line.

NO >> Repair the power supply and the ground circuit.

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M&A BRANCH LINE CIRCUIT

Diagnosis Procedure

INFOID:000000011999521

1.CHECK CONNECTOR

1. Turn the ignition switch OFF.
2. Disconnect the battery cable from the negative terminal.
3. Check the terminals and connectors of the combination meter for damage, bend and loose connection (unit side and connector side).

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Repair the terminal and connector.

2.CHECK HARNESS FOR OPEN CIRCUIT

1. Disconnect the connector of combination meter.
2. Check the resistance between the combination meter harness connector terminals.

Combination meter harness connector			Resistance (Ω)
Connector No.	Terminal No.		
M53	21	22	Approx. 54 – 66

Is the measurement value within the specification?

- YES >> GO TO 3.
 NO >> Repair the combination meter branch line.

3.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check the power supply and the ground circuit of the combination meter. Refer to [MWI-45, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES (Present error)>>Replace the combination meter. Refer to [MWI-103, "Exploded View"](#).
 YES (Past error)>>Error was detected in the combination meter branch line.
 NO >> Repair the power supply and the ground circuit.

GENERAL MAINTENANCE

[REGULAR GRADE]

< PERIODIC MAINTENANCE >

FOR MEXICO : General Maintenance

INFOID:000000011736866

General maintenance includes those items which should be checked during the normal day-to-day operation of the vehicle. They are essential if the vehicle is to continue operating properly. The owners can perform the checks and inspections themselves or they can have their **NISSAN** dealers do them.

OUTSIDE THE VEHICLE

The maintenance items listed here should be performed from time to time, unless otherwise specified.

	Item	Reference page
Doors and hood	Check that all doors and the hood operate smoothly as well as the back door, trunk lid and hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently.	MA-44
Lamps	Clean the headlamps on a regular basis. Make sure that the headlamps, stop lamps, tail lamps, turn signal lamps, and other lamps are all operating properly and installed securely. Also check the aim of the headlamps.	—
Tires	Check the pressure with a gauge often and always prior to long distance trips. Adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.	WT-54
Tire rotation	In the case that Two-Wheel Drive (2WD) and front & rear tires are same size; Tires should be rotated every 10,000 km (6,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that Four-Wheel Drive (4WD) and front & rear tires are same size; Tires should be rotated every 5,000 km (3,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that front tires are different size from rear tires; Tires cannot be rotated. However, the timing for tire rotation may vary according to your driving habits and the road surface conditions.	MA-37
Tire Pressure Monitoring System (TPMS) transmitter components (if equipped)	Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.	WT-51
Wheel alignment and balance	If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	FSU-9 RSU-7 MA-37
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	—
Wiper blades	Check for cracks or wear if not functioning correctly. Replace as necessary.	—

INSIDE THE VEHICLE

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

	Item	Reference page
Accelerator pedal	Check the pedal for smooth operation and make sure that the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	—
Brake pedal	Check the pedal for smooth operation and make sure that it is the proper distance from the floor mat when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	BR-9
Parking brake	Check the parking brake operation regularly. Check that the lever (if equipped) or the pedal (if equipped) has the proper travel. Also make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.	PB-4
Seat belts	Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	MA-44

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - Removing the components in the area that is are suspected to be the cause of the noise.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
 - Placing a piece of paper between components that are suspected to be the cause of the noise.
 - Looking for loose components and contact marks.
Refer to [MIR-17, "Inspection Procedure"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - Separate components by repositioning or loosening and retightening the component, if possible.
 - Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

CAUTION:

Never use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02: 15 × 25 mm (0.59 × 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

Power source	Fuse No.
Battery (With front door satellite sensor)	6
Battery (Without front door satellite sensor)	11
Ignition switch ON or START	4

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between combination meter harness connector and ground.

Terminals		Ignition switch position	Voltage (Approx.)
(+)	(-)		
Triple meter		Ground	Battery voltage
Connector	Terminal		
M242	2		
	3		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between triple meter and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect triple meter connector.
3. Check continuity between triple meter harness connector and ground.

Triple meter		Ground	Continuity
Connector	Terminal		Existed
M242	1		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) : Diagnosis Procedure

INFOID:000000012138746

1.CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible links are not blown.

Signal name	Fuses and fusible link No.
Battery power supply	C
	50
	51

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

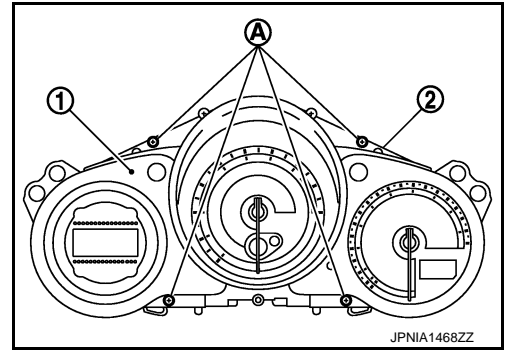
1. Turn the ignition switch OFF.

COMBINATION METER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

5. Remove screws (A) and remove front cover (1).
6. Disengage the tabs and then remove meter housing (2).



ASSEMBLY

Assemble in the reverse order of disassembly.

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DIAGNOSIS SYSTEM (BCM)

[POWER DISTRIBUTION SYSTEM]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000012105510

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	<ul style="list-style-type: none"> 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*			
<ul style="list-style-type: none"> Intelligent Key system Engine start system 	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door/Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

*: This item is displayed, but is not used.

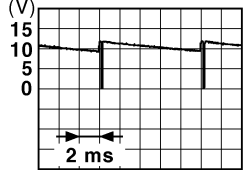
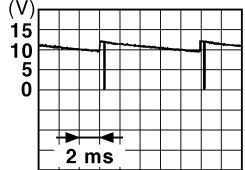

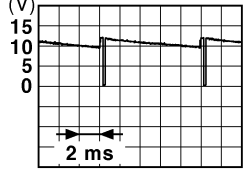

FREEZE FRAME DATA (FFD)

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[POWER DISTRIBUTION SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
				Lighting switch 1ST		
				Lighting switch HI		
				Lighting switch 2ND		
				Turn signal switch RH		10.7 V
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
				Front wiper switch HI (Wiper intermittent dial 4)		
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 		10.7 V
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
				Front washer switch ON (Wiper intermittent dial 4)		
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 		10.7 V
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
				Front wiper switch INT		
				Front wiper switch LO		
				Lighting switch AUTO		
				Rear fog lamp switch ON		10.7 V
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
				Lighting switch 2ND		
				Lighting switch PASS		
				Turn signal switch LH		10.7 V

POWER SUPPLY ROUTING CIRCUIT

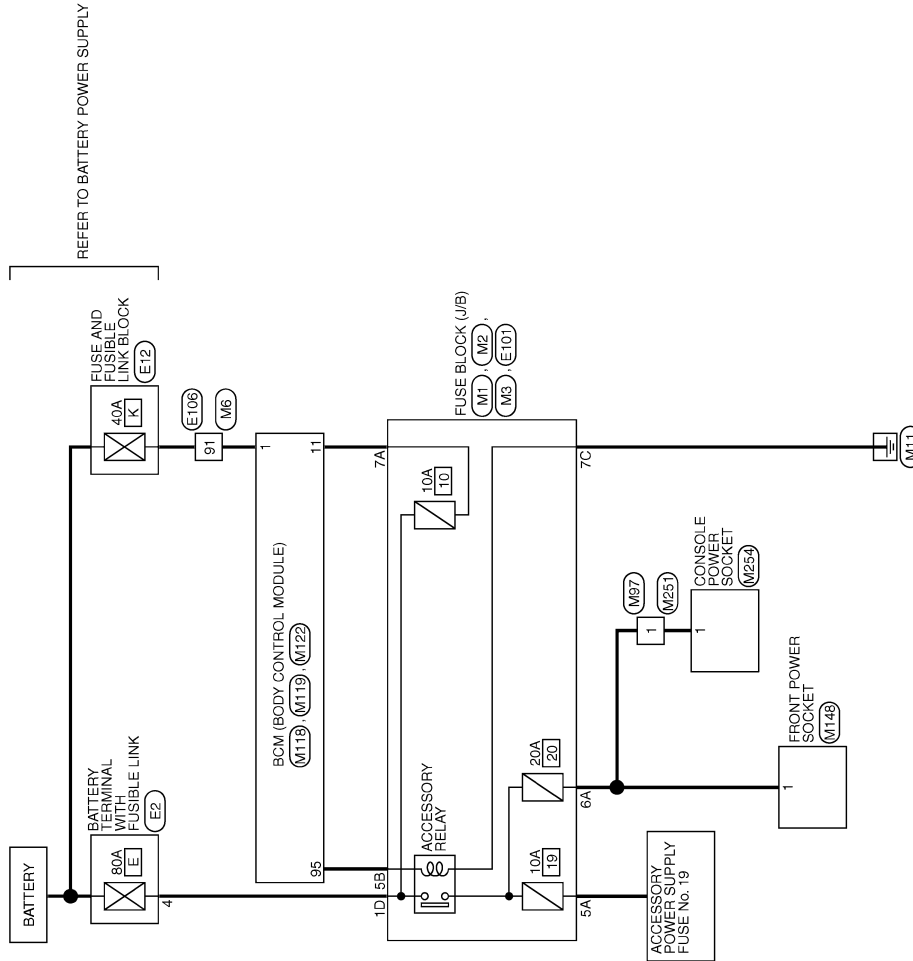
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY&GROUND CIRCUIT]

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000011735905

ACCESSORY POWER SUPPLY



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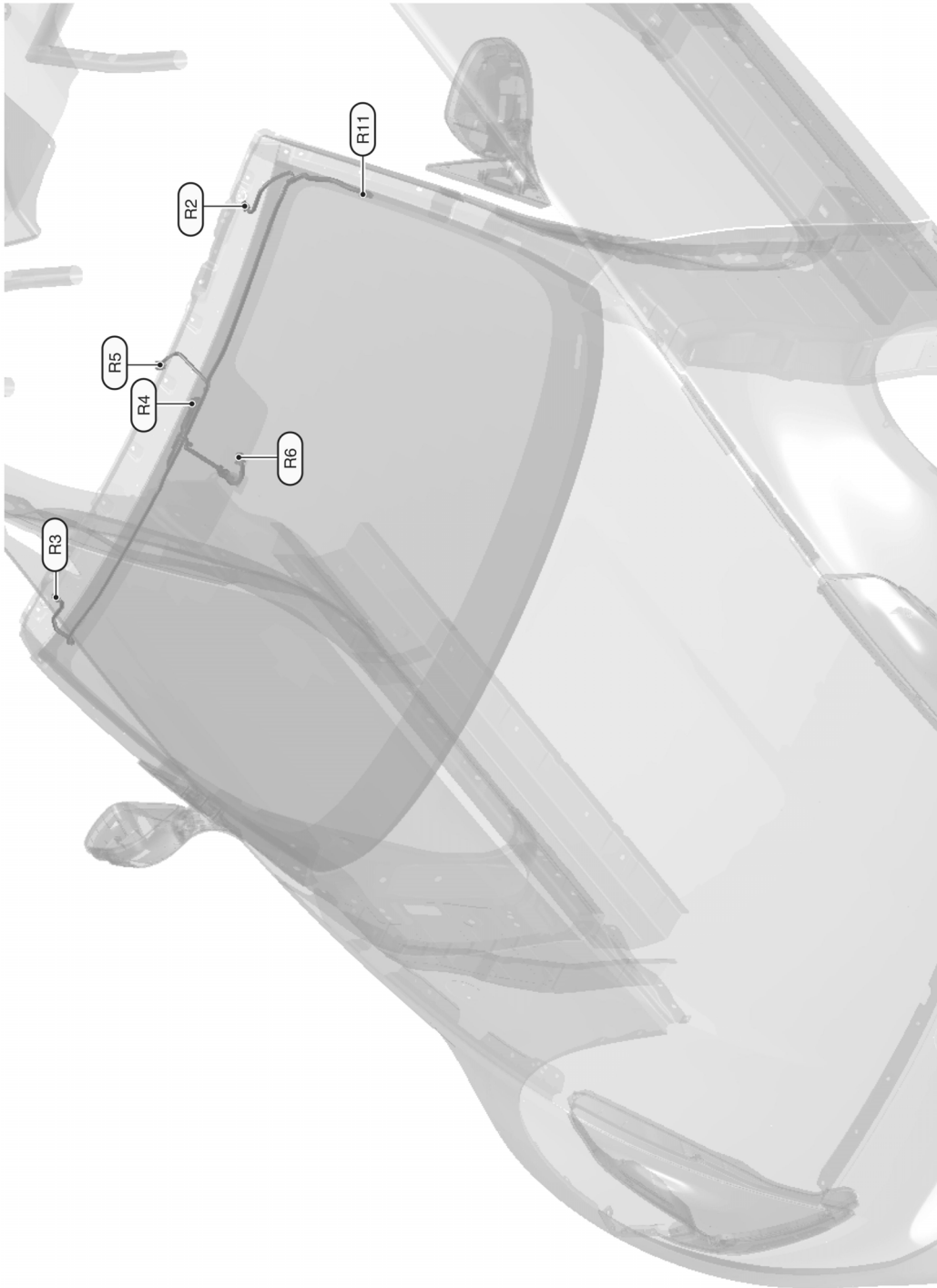
HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY&GROUND CIRCUIT]

ROADSTER MODELS

ROOM LAMP HARNES (ROADSTER MODELS)



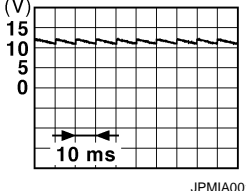
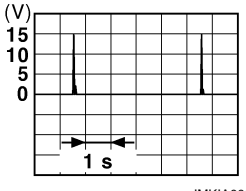
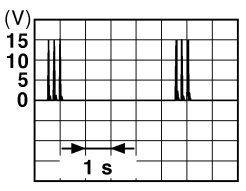
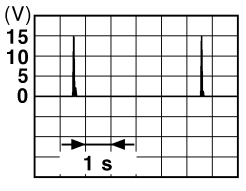
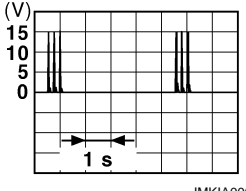
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[COUPE]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
67 (GR)	Ground	Back door/Trunk lid opener switch	Input	Back door/ Trunk lid open- er switch	Pressed	0 V
					Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0011GB 11.8 V</p>
72 (L)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
73 (P)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
					When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

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PWC

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY

< SYMPTOM DIAGNOSIS >

[COUPE]

AUTO OPERATION DOES NOT OPERATE BUT MANUAL OPERATES NORMALLY DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:00000001173569

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to [PWC-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> GO TO 2.

2.CHECK ENCODER (DRIVER SIDE) CIRCUIT

Check encoder (driver side) circuit.

Refer to [PWC-24, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-45, "Intermittent Incident"](#).
- NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011735570

1.PERFORM INITIALIZATION PROCEDURE

Initialization procedure is performed and operation is confirmed.

Refer to [PWC-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> GO TO 2.

2.CHECK ENCODER (PASSENGER SIDE) CIRCUIT

Check encoder (passenger side) circuit.

Refer to [PWC-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

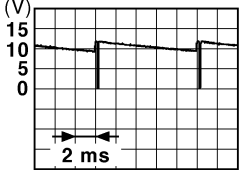
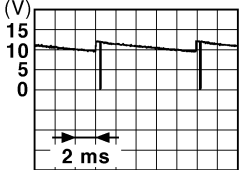
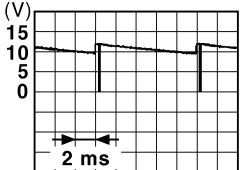
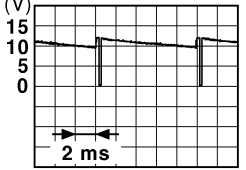
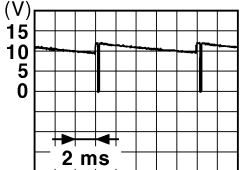
Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-45, "Intermittent Incident"](#).
- NO >> GO TO 1.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[ROADSTER]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V
					Lighting switch 1ST	
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V
					Front wiper switch INT	
					Front wiper switch LO	
					Lighting switch AUTO	
					Rear fog lamp switch ON	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	

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PWC

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

< SYMPTOM DIAGNOSIS >

[ROADSTER]

POWER WINDOW RETAINED POWER FUNCTION DOES NOT OPERATE NORMALLY

Description

INFOID:000000011735652

Retained power function does not operate after ignition switch turns OFF.

Diagnosis Procedure

INFOID:000000011735653

1.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-290. "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 result normal?

YES >> Check intermittent incident. Refer to [GI-45. "Intermittent Incident"](#).

NO >> GO TO 1.

DIAGNOSIS SYSTEM (SOFT TOP CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (SOFT TOP CONTROL UNIT)

CONSULT Function

INFOID:000000011739183

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with soft top control unit.

Diagnosis mode	Function Description
ECU Identification	The soft top control unit part number is displayed.
Self Diagnostic Result	Displays the diagnosis results judged by soft top control unit.
Freeze Frame Data	The soft top control unit records the vehicle condition at the time when the DTC is detected, and displays.
Data Monitor	The soft top control unit input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from soft top control unit.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from soft top control unit. Refer to CONSULT operation manual.

SELF-DIAG RESULT

Refer to [RF-40, "DTC Index"](#).

Freeze Frame Data

The soft top control unit records the following vehicle condition at the time when the DTC is detected, and displays on CONSULT.

CONSULT display		Description
Item	Indication	
ROOF SW (OPEN)	ON/OFF	OPEN input state of roof open/close switch is displayed.
ROOF SW (CLOSE)	ON/OFF	CLOSE input state of roof open/close switch is displayed.
ROOF LATCHED LH	ON/OFF	Input state of roof striker sensor LH is displayed.
ROOF LATCHED RH	ON/OFF	Input state of roof striker sensor RH is displayed.
F/CENTER LOCK	ON/OFF	Input state of roof latch lock sensor is displayed.
R/RAIL RAISED LH	ON/OFF	Input state of roof status sensor LH is displayed.
R/RAIL RAISED RH	ON/OFF	Input state of roof status sensor RH is displayed.
R/RAIL LOWERED	ON/OFF	Input state of roof status sensor LH is displayed.
5BOW LOWERED	ON/OFF	Input state of 5th bow status sensor LH is displayed.
5BOW RAISED	ON/OFF	Input state of 5th bow status sensor RH is displayed.
TRUNK STATUS SEN	ON/OFF	Input state of trunk status sensor is displayed.
S/LID OPEN LH	ON/OFF	Input state of storage lid status sensor LH is displayed.
S/LID OPEN RH	ON/OFF	Input state of storage lid status sensor RH is displayed.
S/LID CLOSE RH	ON/OFF	Input state of storage lid status sensor RH is displayed.
5TH BOW LATCH OP	ON/OFF	Input state of 5th bow latch open sensor is displayed.
5TH BOW LATCH CL	ON/OFF	Input state of 5th bow latch close sensor is displayed.
5BOW STRIK LATCH	ON/OFF	Input state of 5th bow striker sensor is displayed.
FLPD LIMIT SW(DWN)	ON/OFF	Input state of flipper door limit switch (DOWN) is displayed.
SWITCH VALVE 1	ON/OFF	Output state to switching valve 1 is displayed.
SWITCH VALVE 2	ON/OFF	Output state to switching valve 2 is displayed.
SWITCH VALVE 3	ON/OFF	Output state to switching valve 3 is displayed.
SWITCH VALVE 4	ON/OFF	Output state to switching valve 4 is displayed.
SWITCH VALVE 5	ON/OFF	Output state to switching valve 5 is displayed.

B171A HYDRAULIC PUMP (LH)

< DTC/CIRCUIT DIAGNOSIS >

Terminals	Resistance (Ω)
1 and 2	Except 0 or ∞ [at 25°C (77°F)]

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace circuit breaker.

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B177E 5TH BOW LATCH CLOSE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B177E 5TH BOW LATCH CLOSE SENSOR

DTC Logic

INFOID:000000011739290

DTC DETECTION LOGIC

NOTE:

If two or more DTCs are detected, refer to [RF-39, "DTC Inspection Priority Chart"](#), and determine trouble diagnosis order.

DTC No.	Trouble diagnosis name		DTC detecting condition	Possible cause
B177E	5BOW LATCH CLOSE SEN	[GND-SHORT]	5th bow latch close sensor circuit is open, short to ground or short to power.	<ul style="list-style-type: none">• Harness or connectors (The sensor circuit is open or shorted.)• Soft top control unit• 5th bow latch close sensor
		[PWR-SHORT/ OPEN]		
		[OPEN]		

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Start engine.
2. Operate soft top to fully open and fully close.
3. Select "Self Diagnostic Result" mode of "CONVERTIBLE ROOF" using CONSULT.
4. Check DTC.

Is DTC detected?

- YES >> Go to [RF-146, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000011739291

1. CHECK 5TH BOW LATCH CLOSE SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect 5th bow latch/striker sensor assembly and soft top control unit harness connector.
3. Check the continuity between 5th bow latch/striker sensor assembly harness connector and soft top control unit harness connector.

5th bow latch/striker sensor assembly		Soft top control unit		Continuity
Connector	Terminal	Connector	Terminal	
B319	3	B306	56	Existed

4. Also check harness for short to ground and short to power.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair open circuit, short to ground or short to power in harness or connectors.

2. REPLACE 5TH BOW LATCH/STRIKER SENSOR ASSEMBLY

Replace 5th bow latch/striker sensor assembly. Refer to [RF-249, "Removal and Installation"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> GO TO 3.

3. REPLACE SOFT TOP CONTROL UNIT

Replace soft top control unit. Refer to [RF-247, "Removal and Installation"](#).

Is the inspection result normal?

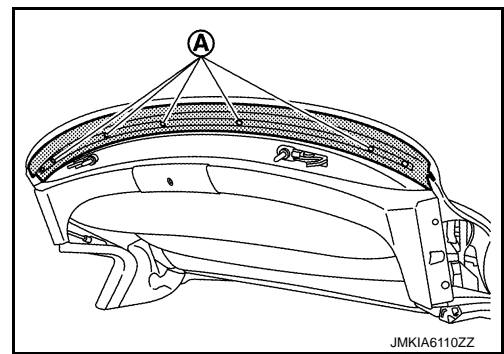
- YES >> INSPECTION END
NO >> GO TO 4.

4. CHECK INTERMITTENT INCIDENT

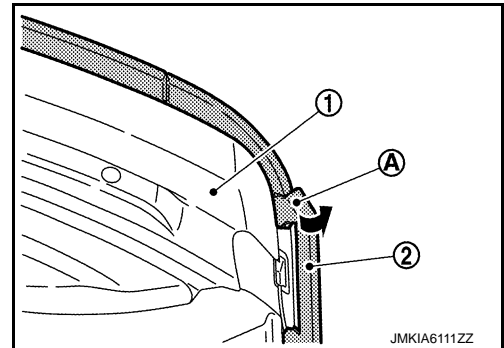
SOFT TOP

< REMOVAL AND INSTALLATION >

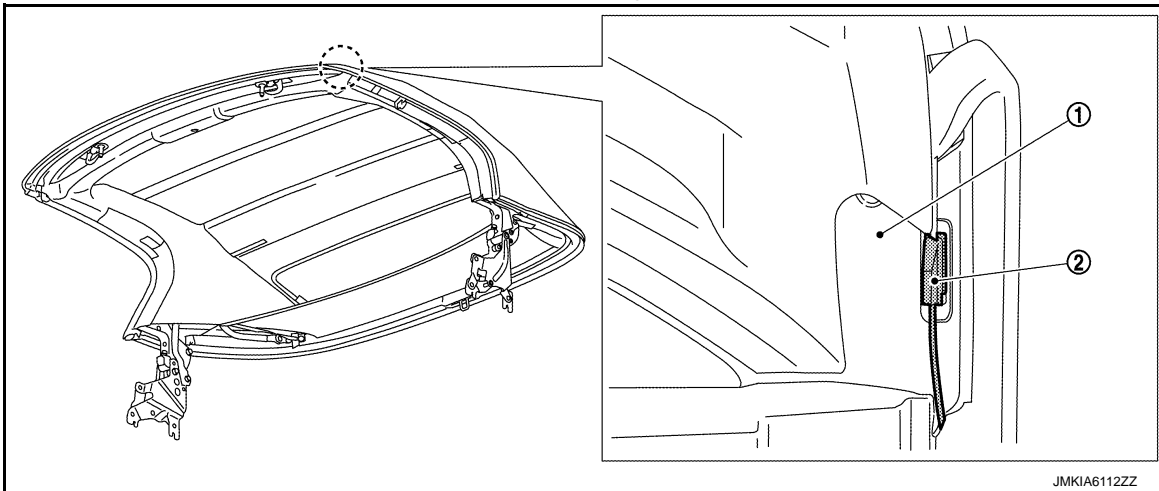
4. Remove soft top cover outer front retainer mounting screws (A).



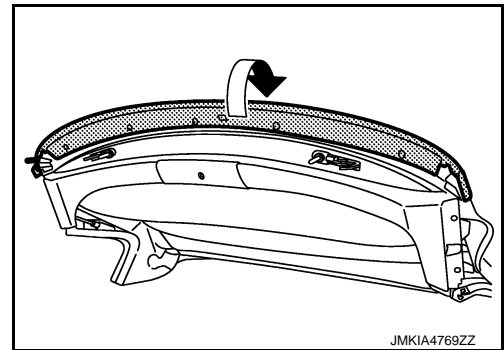
5. Lift up soft top cover outer front retainer (1), and then pull up soft top cover outer (2) portion (A) to outside (both LH and RH).



6. Pull out soft top cover outer wire (2) from soft top linkage assembly (1) (both LH and RH).



7. Pull up front end of soft top cover outer.



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RADIUS ROD

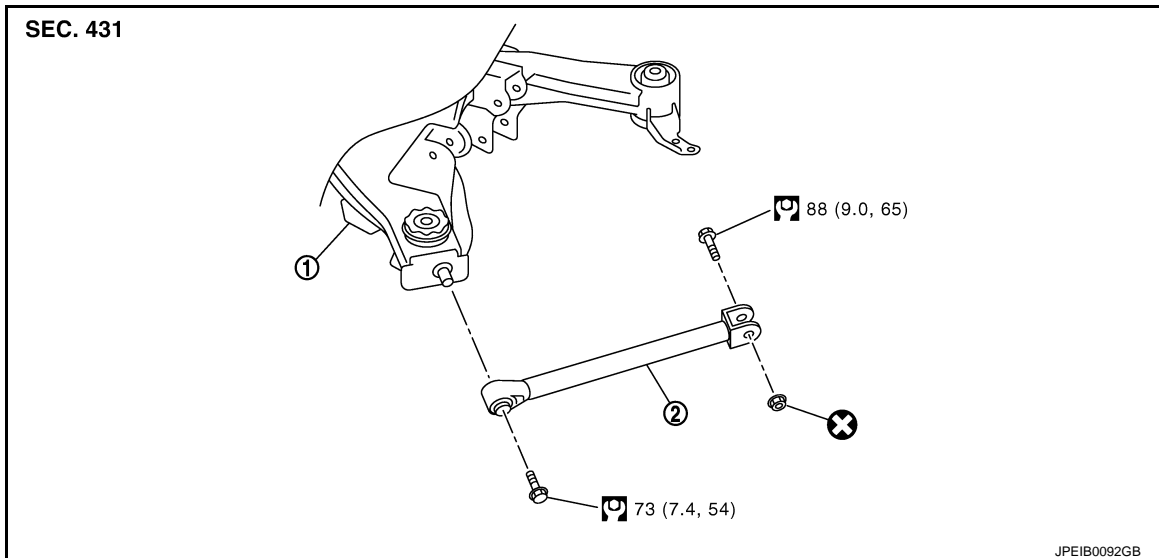
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

RADIUS ROD

Exploded View

INFOID:000000011737795



1. Rear suspension member
2. Radius rod

Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000011737796

REMOVAL

1. Remove tires with power tool.
2. Remove radius rod.

INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform final tightening of rear suspension member and axle installation position (rubber bushing), under unladen conditions with tires on level ground.

Inspection

INFOID:000000011737797

INSPECTION AFTER REMOVAL

Check radius rod and bushing for any deformation, cracks, or damage. Replace it if necessary.

INSPECTION AFTER INSTALLATION

1. Check wheel alignment. Refer to [RSU-7. "Inspection"](#).
2. Adjust neutral position of steering angle sensor. Refer to [BRC-7. "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#).

CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace climate controlled seat control unit. Refer to [SE-93. "CLIMATE CONTROLLED SEAT UNIT : Disassembly and Assembly"](#).
- NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.
Refer to [SE-19. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Replace climate controlled seat switch. Refer to [SE-97. "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-45. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000011740857

1.CHECK CLIMATE CONTROLLED SEAT SWITCH

1. Turn ignition switch OFF.
2. Disconnect climate controlled seat switch connector.
3. Check the continuity between climate controlled seat switch terminals under the following conditions.

Connector		Terminal		Condition	Continuity	
Driver side	M64	2	1			COOL mode
				OFF	Not existed	
		3		HEAT mode	ON	Existed
					OFF	Not existed
Passenger side	M65	2	1	COOL mode	ON	Existed
					OFF	Not existed
		3		HEAT mode	ON	Existed
					OFF	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace climate controlled seat switch. Refer to [SE-97. "Removal and Installation"](#).

CLIP LIST

< PREPARATION >

CLIP LIST

Clip List

INFOID:000000011740910

Shapes	Removal & Installation	Shapes	Removal & Installation
	<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p>		<p>Removal:</p>
	<p>Removal: Remove with a clip remover.</p>		<p>Removal:</p>
	<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Installation:</p>		<p>Removal: Holder portion of clip must be spread out to remove rod.</p>
	<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p>		<p>Removal:</p> <ol style="list-style-type: none"> Screw out with a Phillips screwdriver. Remove female portion with flat-bladed screwdriver.
	<p>Removal:</p>		<p>Removal:</p> <p>Rotate 45° to remove.</p> <p>Installation:</p>
	<p>Removal:</p>		<p>Removal:</p>

JMJIA3734GB

P1611 ID DISCORD, IMMUECM

< DTC/CIRCUIT DIAGNOSIS >

P1611 ID DISCORD, IMMUECM

Description

INFOID:000000011740372

BCM performs the ID verification with ECM that allows the engine to start. Start the engine if the ID is successfully verified. ECM prevents the engine from starting if the ID is not registered. BCM starts the communication with ECM if ignition switch is turned ON.

DTC Logic

INFOID:000000011740373

DTC DETECTION LOGIC

NOTE:

- If DTC P1611 is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to [SEC-35, "BCM : DTC Logic"](#).
- If DTC P1611 is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to [SEC-37, "BCM : DTC Logic"](#).

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
P1611	ID DISCORD, IMMUECM	The ID verification results between BCM and ECM are NG. Registration is necessary.	<ul style="list-style-type: none">• BCM• ECM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON under the following conditions.

A/T models

- Selector lever is in the P or N position
- Do not depress brake pedal

M/T models

- Do not depress clutch pedal
2. Check "Self-diagnostic result" using CONSULT.

Is DTC detected?

- YES >> Go to [SEC-39, "Diagnosis Procedure"](#).
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000011740374

1.PERFORM INITIALIZATION

Perform initialization using CONSULT. Reregister all Intelligent Keys.
For initialization and registration of Intelligent Key.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

- YES >> INSPECTION END
- NO >> GO TO 2.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-106, "Removal and Installation"](#).
2. Perform initialization using CONSULT.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

- YES >> INSPECTION END
- NO >> GO TO 3.

3.REPLACE ECM

1. Replace ECM. Refer to [EC-17, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT \(ECM\) : Description"](#).
2. Perform initialization using CONSULT.

Can the system be initialized and can the engine be started with reregistered Intelligent Key?

KEY SLOT INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace key slot ground circuit.

4.CHECK KEY SLOT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between BCM harness connector and key slot harness connector.

BCM		Key slot		Continuity
Connector	Terminal	Connector	Terminal	
M122	92	M22	6	Existed

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	92		Not existed

Is the inspection result normal?

YES >> Replace key slot. Refer to [SEC-206. "Removal and Installation"](#).

NO >> Repair or replace harness.

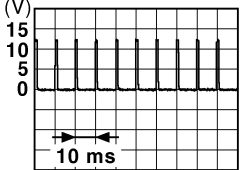
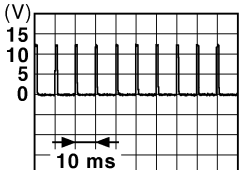

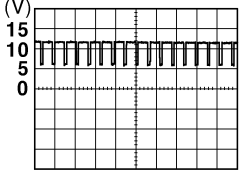
5.CHECK INTERMITTENT INCIDENT

Refer to [GI-45. "Intermittent Incident"](#).

>> INSPECTION END

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
129*2 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 1.1 V
					ON	0 V
130*7 (L)	Ground	Rear window defogger switch	Input	Ignition switch ON	Rear window defogger switch OFF	 1.1 V
					Rear window defogger switch ON	0 V
132 (Y)*1 (V)*2	Ground	Power window switch and soft top control unit communication	Input/ Output	Ignition switch ON		 10.2 V
					Ignition switch OFF or ACC	12 V
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps OFF)	9.5 V
					ON (Tail lamps ON)	<p>NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.</p>  JPMA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (V)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V

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COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection
Diagnosis sensor unit	If none of the SRS components have been activated: 1. Check case for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall with new fasteners. 4. If damaged – REPLACE. Install diagnosis sensor unit with new fasteners.
Steering wheel	1. Visually check steering wheel for deformities. 2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. 3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall. 6. If damaged – REPLACE.
Spiral cable	If the driver front air bag has not deployed: 1. Visually check spiral cable and combination switch for damage. 2. Check connectors and protective tape for damage. 3. Check steering wheel for noise, binding or heavy operation. 4. If no damage is found, reinstall. 5. If damaged – REPLACE.
Occupant classification system (Passenger seat)	1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks or deformities. 3. Check connectors and pressure sensor tube for damage, and terminals for deformities. 4. Check seat frame and cushion pan for dents or deformities. 5. If no damage is found, reinstall seat with new fasteners. 6. If damaged – REPLACE seat cushion assembly with new fasteners.
Harness and connectors	1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall the harness and connectors. 4. If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel assembly	If the passenger air bag has NOT deployed: 1. Visually check instrument panel assembly for damage. 2. If no damage is found, reinstall the instrument panel assembly. 3. If damaged – REPLACE the instrument panel assembly.

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FOR SIDE AND ROLLOVER COLLISION

FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision

INFOID:000000011738549

CAUTION:

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

WORK PROCEDURE

1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
2. Replace the following components:
 - Front seat back assembly (on the side on which side air bag is activated)
 - Door finisher (on the side on which door-mounted curtain air bag is activated)
 - Pop-up roll bar assemblies and pop-up roll bar covers
 - Satellite sensor LH/RH (on the side on which side air bag is activated)
 - Diagnosis sensor unit
 - Seat belt pre-tensioner assemblies
3. Check the SRS components and the related parts using the following table. Replace any SRS components and the related parts showing visible signs of damage. (dents, cracks, deformation, etc.)
4. Perform self-diagnosis using CONSULT and “AIR BAG” warning lamp. Refer to [SRC-107, "Diagnosis Description"](#) for details. Make sure entire SRS operates properly.
5. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-107, "Diagnosis Description"](#).

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B0002 DRIVER AIR BAG MODULE

[COUPE (EXCEPT FOR MEXICO)]

< DTC/CIRCUIT DIAGNOSIS >

- Disconnect driver air bag module harness connector and combination switch (spiral cable) harness connector.
- Check continuity between combination switch (spiral cable) terminals.

Terminal		Continuity
10	11	Not existed
9	12	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace combination switch (spiral cable). Refer to [SR-16, "Removal and Installation"](#).

7. CHECK SPIRAL CABLE CIRCUIT 4

Check continuity between combination switch (spiral cable) terminals.

Terminal		Continuity
28	30	Not existed
29		

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace combination switch (spiral cable). Refer to [SR-16, "Removal and Installation"](#).

8. REPLACE COMBINATION SWITCH (SPIRAL CABLE)

- Replace combination switch (spiral cable). Refer to [SR-16, "Removal and Installation"](#).
- Perform DTC confirmation procedure. Refer to [SRC-31, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 9.

NO >> INSPECTION END

9. REPLACE DRIVER AIR BAG MODULE

- Replace driver air bag module. Refer to [SR-13, "Removal and Installation"](#).
- Perform DTC confirmation procedure. Refer to [SRC-31, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 10.

NO >> INSPECTION END

10. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to [SR-30, "COUPE : Removal and Installation"](#).
- Perform DTC confirmation procedure. Refer to [SRC-31, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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DIAGNOSIS SENSOR UNIT

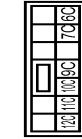
< ECU DIAGNOSIS INFORMATION >

[COUPE (EXCEPT FOR MEXICO)]

SRS AIR BAG CONTROL SYSTEM

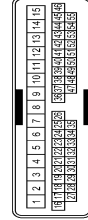
82	G	-	-
83	V	-	-
84	L	-	-
85	BR	-	-
86	LG	-	-
87	R	-	-
88	P	-	-
89	W	-	-
90	L	-	-
91	P	-	-
92	L	-	-
93	G	-	-
94	Y	-	-
95	Y	-	-
96	GR	-	-
97	LG	-	-
98	LG	-	-
99	LG	-	-
100	BS	-	-

Connector No.	M3
Connector Name	FUSE BLOCK (I/II)
Connector Type	MS224V-CS



Terminal No.	Color Of Wire	Signal Name (Specification)
10C	L	-
11C	LG	-
12C	O	-
6C	R	-
7C	B	-
9C	O	[Roadster models]
9C	R	[Coupe models]

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MMV-CS13



Terminal No.	Color Of Wire	Signal Name (Specification)
6	SHIELD	-
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	-
12	BR	[Without active noise control]
13	BR	[With active noise control]
14	B	[Without active noise control]
14	B	[With active noise control]
15	W	-
19	Y	-
23	Y/B	-
25	Y	-
26	SHIELD	-
35	BR	-
44	L	-
47	B	-
48	SB	-
49	Y	-
50	W	-
51	R	-
52	L	-
53	W	-
54	G	-
55	R	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MMV-CS1F-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	B	-
11	GR	-
13	R	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	R	-
31	BR	-
32	V	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	G	-
44	R	[With A/T]
44	R	[With M/T]
45	O	-
46	G	-
47	BR	-
58	SHIELD	-
59	L	-
70	R	-
80	LG	-
81	GN	-
82	V	-

83	V	-
84	L	-
85	BR	-
86	Y	-
87	G	-
89	P	-
91	W	-
92	P	-
93	P	-
94	Y	-
96	P	-
98	O	-
99	W	-
100	R	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MMV-CS1F-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	BR	-
2	O	-
3	LG	-
4	O	-
6	V	-
7	LG	-
8	SR	-
9	GR	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
17	R	-
18	L	-
20	SB	-
21	G	-
22	GN	-
23	V	-

B1081 SEAT BELT PRE-TENSIONER RH

< DTC/CIRCUIT DIAGNOSIS >

[COUPE (FOR MEXICO)]

4.REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner RH. Refer to [SB-7, "SEAT BELT RETRACTOR : Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-150, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

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SRC

B1151 CURTAIN AIR BAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

[COUPE (FOR MEXICO)]

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module LH. Refer to [SE-79, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-209, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[ROADSTER]

9.REPAIR OR REPLACE THE MALFUNCTION PART

Repair or replace the malfunctioning part.

>> GO TO 10.

10.FINAL CHECK

Check self diagnostic result and air bag warning lamp operation in the user mode.

Is the malfunction repaired?

YES >> INSPECTION END
NO >> GO TO 2.

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SRC

B1074, B1075, B1076, B1077, B1078, B1079 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

B1074, B1075, B1076, B1077, B1078, B1079 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000011740083

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:000000011740084

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1074 B1075 B1076 B1077 B1078 B1079	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

Ⓟ With CONSULT

1. Turn ignition switch ON.
2. Perform "AIR BAG" Self Diagnostic Result.

Ⓟ Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-276, "Diagnosis with Air Bag Warning Lamp"](#).

NOTE:

SRS does not enter the diagnosis mode if no malfunction is detected in the user mode.

Is malfunctioning part detected?

- YES >> Refer to [SRC-328, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000011740085

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-29, "COUPE : Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-328, "DTC Logic"](#).

B1170, B1171, B1172, B1173, B1174, B1175 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

[ROADSTER]

B1170, B1171, B1172, B1173, B1174, B1175 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000011740173

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:000000011740174

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1170 B1171 B1172 B1173 B1174 B1175	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-276, "Diagnosis with Air Bag Warning Lamp"](#).

NOTE:

SRS does not enter the diagnosis mode if no malfunction is detected in the user mode.

Is malfunctioning part detected?

- YES >> Refer to [SRC-387, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000011740175

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-29, "COUPE : Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-387, "DTC Logic"](#).

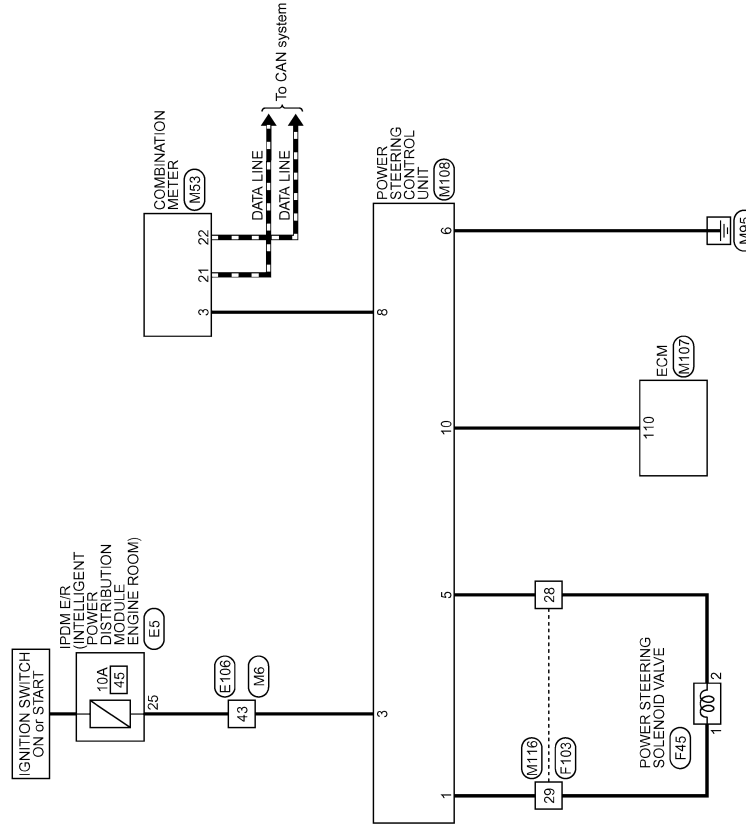
POWER STEERING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM -

INFOID:000000011740580

ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM



2008/09/12

JCGWA0200GB

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SHIFT CONTROL

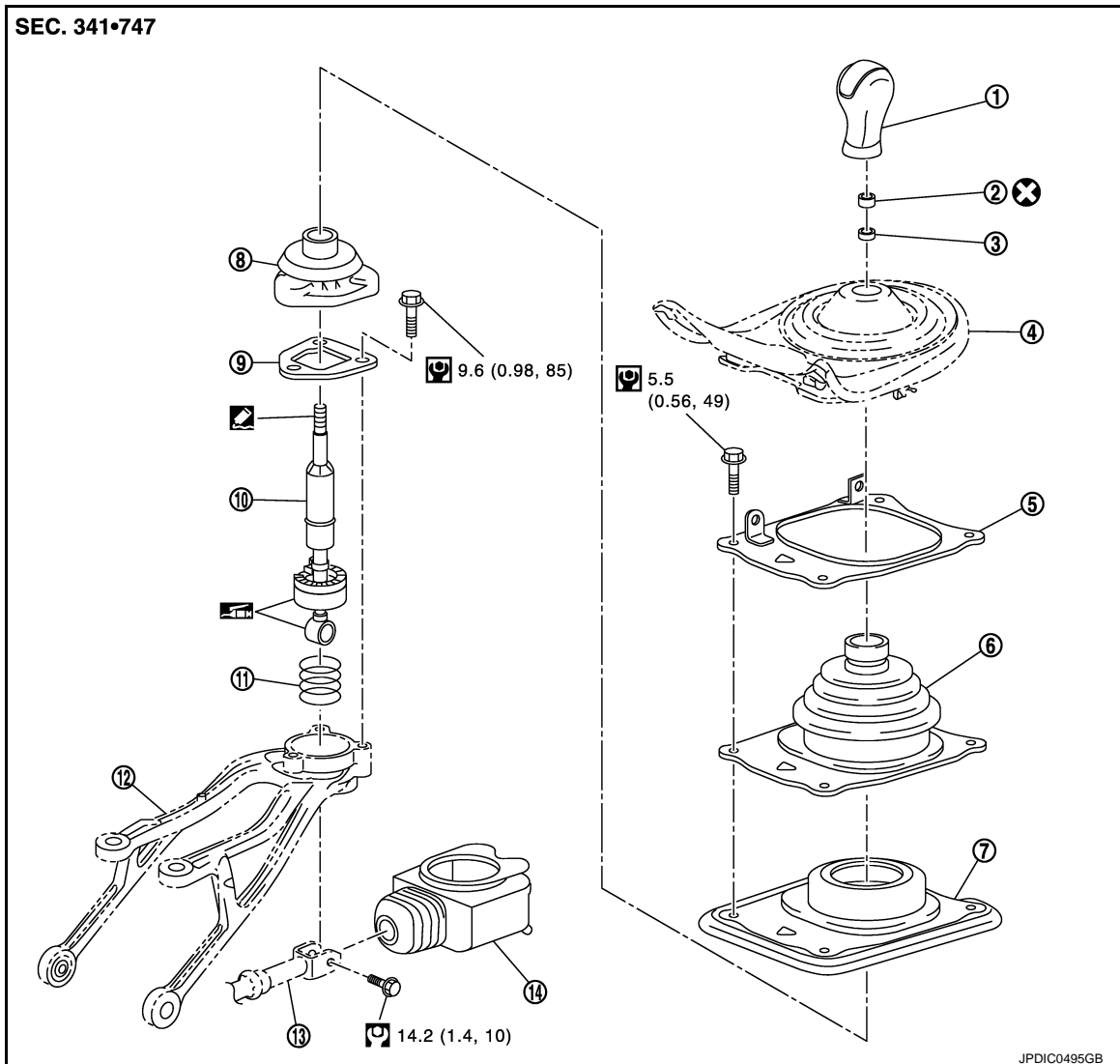
< REMOVAL AND INSTALLATION >

[6MT: FS6R31A]

SHIFT CONTROL

Exploded View

INFOID:000000011738147



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|------------------------------|--------------------------|---------------------------|
| 1. Shift knob | 2. Insulator | 3. Seat |
| 4. Console finisher assembly | 5. Hole cover | 6. Control lever boot B |
| 7. Hole insulator | 8. Control lever boot A | 9. Guide plate |
| 10. Control lever | 11. Control lever spring | 12. Control lever housing |
| 13. Control rod | 14. Control rod boot | |

: Apply multi-purpose grease.

: Apply Genuine Medium Strength Thread Locking Sealant or an equivalent. Refer to [GI-22, "Recommended Chemical Products and Sealants"](#).

Refer to [GI-4, "Components"](#) for symbols not described on the above.

Removal and Installation

INFOID:000000011738148

REMOVAL

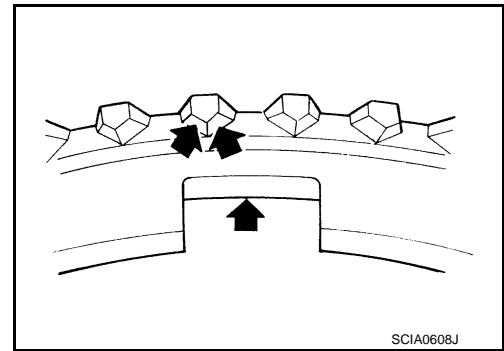
1. Remove shift knob with the following procedure.
 - a. Release metal clips on console finisher assembly. Refer to [IP-26, "Removal and Installation"](#).

TRANSMISSION ASSEMBLY

< UNIT DISASSEMBLY AND ASSEMBLY >

[6MT: FS6R31A]

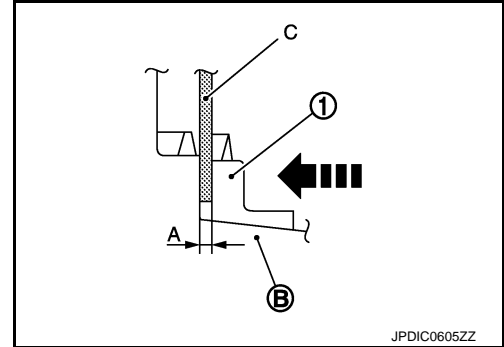
- Check the cam surface and contact surface of the baulk ring for damage and uneven wear. Replace if necessary.
- Check the spread springs for damage. Replace if necessary.



Baulk Ring Clearance for Single Cone Synchronizer (Reverse)

Measure the clearance "A" when pressing the baulk ring (1) against the cone (B) of clutch gear by hands at 2 points or more on the opposite side, using a feeler gauge (C), and then calculate the mean value. Replace if outside the limit value.

Clearance "A" : Refer to [TM-150, "Baulk Ring Clearance"](#).



Bearing

Check the bearing for damage and unsmooth rotation. Replace if necessary.

WITH S-MODE

WITH S-MODE : Exploded View

INFOID:000000011738173

CASE AND EXTENSION

REVERSE IDLER SHAFT AND GEAR

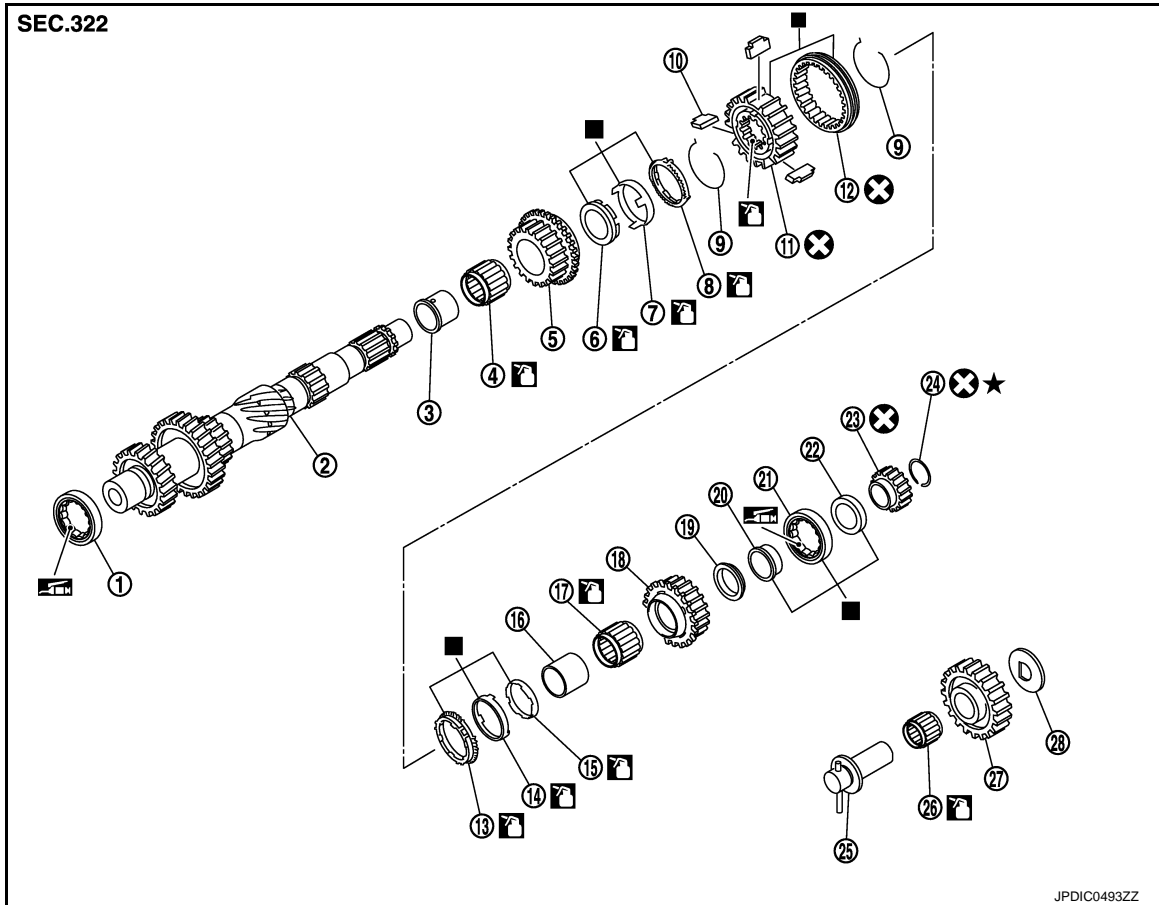
< UNIT DISASSEMBLY AND ASSEMBLY >

[6MT: FS6R31A]

REVERSE IDLER SHAFT AND GEAR

Exploded View

INFOID:000000011738189



- | | | |
|------------------------------------|-------------------------------------|-----------------------------|
| 1. Counter front bearing | 2. Counter shaft | 3. 3rd gear bushing |
| 4. 3rd needle bearing | 5. 3rd counter gear | 6. 3rd inner baulk ring |
| 7. 3rd synchronizer cone | 8. 3rd outer baulk ring | 9. 3rd-4th spread spring |
| 10. 3rd-4th shifting insert | 11. 3rd-4th synchronizer hub | 12. 3rd-4th coupling sleeve |
| 13. 4th outer baulk ring | 14. 4th synchronizer cone | 15. 4th inner baulk ring |
| 16. 4th gear bushing | 17. 4th needle bearing | 18. 4th counter gear |
| 19. 4th counter gear thrust washer | 20. Counter rear bearing inner race | 21. Counter rear bearing |
| 22. Counter rear bearing spacer | 23. Reverse counter gear | 24. Snap ring |
| 25. Reverse idler shaft | 26. Reverse idler needle bearing | 27. Reverse idler gear |
| 28. Reverse idler thrust washer | | |

■: Replace the parts as a set.

🔧: Apply gear oil.

🔧: Apply lithium-based grease including molybdenum disulphide.

Refer to [GI-4, "Components"](#) for symbols not described on the above.

- Apply gear oil to gears, shafts, synchronizers, and bearings when assembling.

Disassembly

INFOID:000000011738190

1. Remove reverse idler thrust washer from reverse idler shaft.
2. Remove reverse idler gear from reverse idler shaft.
3. Remove reverse idler needle bearing from reverse idler shaft.

SHIFT MECHANISM

< SYSTEM DESCRIPTION >

[7AT: RE7R01A]

- Each planetary gear enters the state described below.

Front planetary gear			
Name	Front sun gear	Front carrier	Front internal gear
Condition	—	Output	Input
Direction of rotation	Counterclockwise revolution	Clockwise revolution	Clockwise revolution
Number of revolutions	Deceleration from front internal gear	Deceleration from front internal gear	Same number of revolution as the input shaft
Under drive planetary gear			
Name	Under drive sun gear	Under drive carrier	Under drive internal gear
Condition	—	Fixed	Input/Output
Direction of rotation	Counterclockwise revolution	—	Clockwise revolution
Number of revolutions	Acceleration from under drive internal gear	—	Same number of revolution as the front carrier
Rear planetary gear			
Name	Rear sun gear	Rear carrier	Rear internal gear
Condition	Output	Fixed	Input
Direction of rotation	Counterclockwise revolution	—	Clockwise revolution
Number of revolutions	Acceleration from rear internal gear	—	Same number of revolution as the under drive internal gear
Mid planetary gear			
Name	Mid sun gear	Mid carrier	Mid internal gear
Condition	Input	Output	Fixed
Direction of rotation	Counterclockwise revolution	Counterclockwise revolution	—
Number of revolutions	Same number of revolution as the rear sun gear	Deceleration from mid sun gear	—

Component Parts Location

INFOID:0000000011738231

Refer to [TM-177, "Cross-Sectional View"](#).

Component Description

INFOID:0000000011738232

Name of the Part (Abbreviation)	Function
Front brake (FR/B)	Fastens the under drive carrier.
Input clutch (I/C)	Connects the input shaft, the mid internal gear and the rear carrier.
Direct clutch (D/C)	Connects the rear carrier and the rear sun gear.
High and low reverse clutch (HLR/C)	Connects the rear sun gear and the mid sun gear.
Reverse brake (R/B)	Fastens the rear carrier.
Low brake (L/B)	Fastens the mid sun gear.
2346 brake (2346/B)	Fastens the under drive sun gear.
1st one-way clutch (1st OWC)	Allows the under drive carrier to turn freely in the forward direction but fastens it for reverse rotation.
2nd one-way clutch (2nd OWC)	Allows the rear sun gear to turn freely in the forward direction but fastens it for reverse rotation.
Torque converter	Amplifies driving force the engine, and transmits it to transmission input shaft.
Oil pump	Driven by the engine, oil pump supplies oil to torque converter, control valve assembly, and each lubricating system.

P1734 7GR INCORRECT RATIO

< DTC/CIRCUIT DIAGNOSIS >

[7AT: RE7R01A]

GEAR : 7th
ACCELE POSI : 0.7/8 or more
VEHICLE SPEED : 10 km/h (7 MPH) or more

3. Keep the current driving status for 2 seconds or more if CONSULT screen changes from "OUT OF CONDITION" to "TESTING".

CAUTION:

When "TESTING" is not indicated on CONSULT for a long time, check "Self Diagnostic Results" in "TRANSMISSION". When a DTC other than "P1734" is detected, check the DTC. Refer to [TM-297, "DTC Index"](#).

 **With GST**

1. Drive vehicle and maintain the following conditions for 2 seconds or more.

Selector lever : "M" position
Gear position : 7th
Accelerator pedal opening : 0.7/8 or more
Vehicle speed : 10 km/h (7 MPH) or more

2. Check DTC.

Is "OUT OF CONDITION", "STOP VEHICLE" or "COMPLETED RESULT NG" displayed? / Is "P1734" detected?

YES-1 (OUT OF CONDITION)>>Perform "Step 3" again.
YES-2 (STOP VEHICLE)>>GO TO 4.
YES-3 (COMPLETED RESULT NG)>>Go to [TM-260, "Diagnosis Procedure"](#).
YES-4 ("P1734" is detected)>>Go to [TM-260, "Diagnosis Procedure"](#).
NO >> GO TO 4.

4.CHECK SYMPTOM (PART 2)

1. Stop vehicle.
2. Drive vehicle in "D" position allowing it to shift from 1GR to 7GR and check shift timing and shift shock.

>> INSPECTION END

Diagnosis Procedure

INFOID:000000011738318

1.CHECK INTERMITTENT INCIDENT

Refer to [GI-45, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace damaged parts.

2.DETECT MALFUNCTIONING ITEM

Disassemble the A/T assembly to check component parts. Refer to [TM-362, "Disassembly"](#).

NOTE:

Check the component parts, referring to "Possible cause" in "DTC DETECTION LOGIC". Refer to [TM-259, "DTC Logic"](#).

Is the inspection result normal?

YES >> Replace control valve & TCM. Refer to [TM-330, "Exploded View"](#).
NO >> Repair or replace damaged parts.

Adjustment

INFOID:000000011738373

Recommended fluid and fluid capacity : Refer to [MA-16. "FOR NORTH AMERICA : Fluids and Lubricants"](#) (For North America), [MA-18. "FOR MEXICO : Fluids and Lubricants"](#) (For Mexico).

CAUTION:

- Use only recommended ATF. Never mix with other ATF.
- Using ATF other than recommended ATF will cause deterioration in driveability and A/T durability, and may damage the A/T, which is not covered by the NISSAN new vehicle limited warranty.
- When filling ATF, be careful not to scatter heat generating parts such as exhaust.
- Always maintain the ATF temperature within between 35°C (95°F) and 45°C (113°F) while checking with CONSULT when the ATF level adjustment is performed.

1. Install the O-ring (315268E000) (A) to the charging pipe (310811EA5A) (B).
2. Start the engine.
3. Make the ATF temperature approximately 40°C (104°F).

NOTE:

The ATF level is greatly affected by the temperature. Always check the ATF temperature on "ATF TEMP 1" of "Data Monitor" using CONSULT.

4. Park vehicle on level surface and set parking brake.
5. Shift the selector lever through each gear position. Leave selector lever in "P" position.
6. Lift up the vehicle.
7. Check the ATF leakage from transmission.
8. Remove overflow plug from oil pan.
9. Install the charging pipe (A) to the overflow plug hole.

CAUTION:

Tighten the charging pipe by hand.

10. Install the bucket pump hose (B) to the charging pipe.

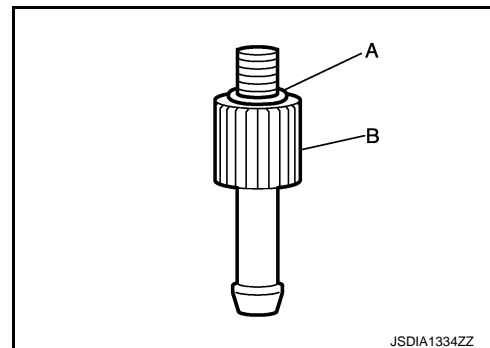
CAUTION:

Insert the bucket pump hose all the way to the end of the charging pipe.

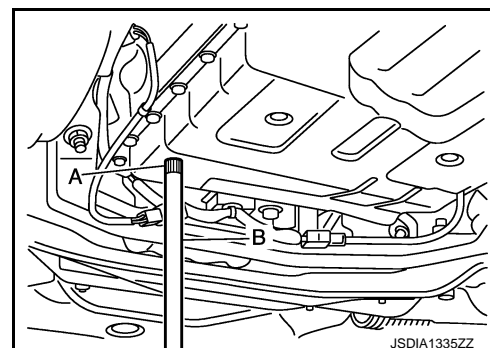
11. Fill approximately 0.5 liters (1/2 US qt, 1/2 Imp qt) of the ATF.
12. Check that the ATF leaks when removing the charging pipe and the bucket pump hose. If the ATF does not leak, refill the ATF.
13. When the ATF starts to drip, tighten the overflow plug to the oil pan to the specified torque. Refer to [TM-330. "Exploded View"](#).

CAUTION:

Never reuse overflow plug.



JSDIA1334ZZ



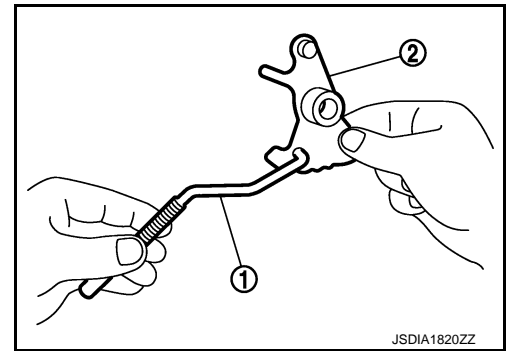
JSDIA1336ZZ

TRANSMISSION ASSEMBLY

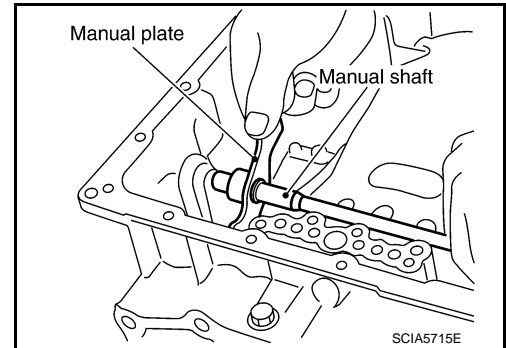
< UNIT DISASSEMBLY AND ASSEMBLY >

[7AT: RE7R01A]

4. Install parking rod (1) to manual plate (2).



5. Install manual plate (with parking rod) to manual shaft.

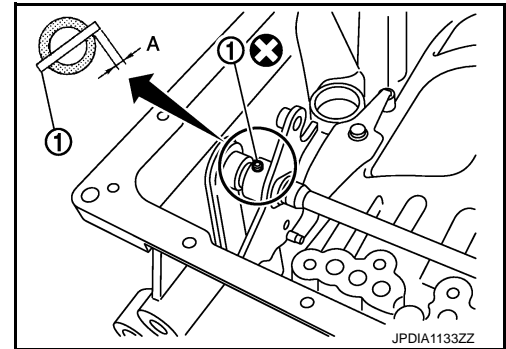


6. Install retaining pin (1) into the manual plate and manual shaft.
 a. Fit pinhole of the manual plate to pinhole of the manual shaft with a pin punch.
 b. Use a hammer to tap the retaining pin into the manual plate.

A : Approx. 2 mm (0.08in)

CAUTION:

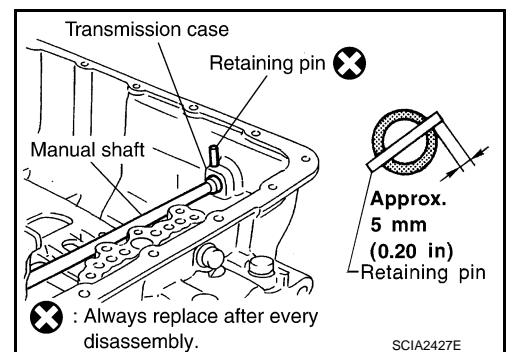
Drive retaining pin to 2 ± 0.5 mm (0.08 ± 0.020 in) over the manual plate.



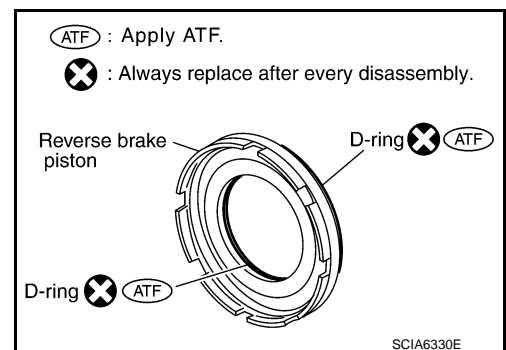
7. Install retaining pin into the transmission case and manual shaft.
 a. Fit pinhole of the transmission case to pinhole of the manual shaft with a pin punch.
 b. Use a hammer to tap the retaining pin into the transmission case.

CAUTION:

Drive retaining pin to 5 ± 1 mm (0.20 ± 0.04 in) over the transmission case.



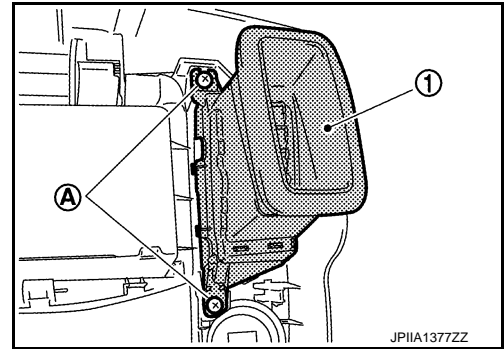
8. Install D-rings to reverse brake piston.



DUCT AND GRILLE

< REMOVAL AND INSTALLATION >

2. Remove fixing screws (A), and then remove center ventilator grille (1).



INSTALLATION

Install in the reverse order of removal.


SIDE VENTILATOR GRILLE

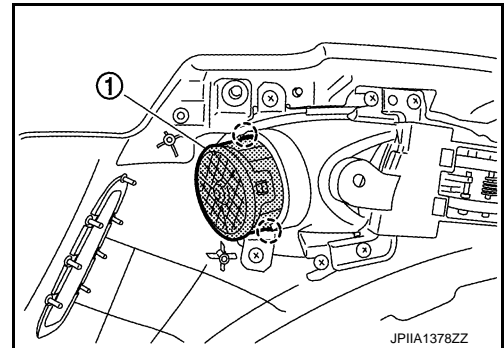
SIDE VENTILATOR GRILLE : Removal and Installation

INFOID:000000011737226

REMOVAL

1. Remove side ventilator duct. Refer to [VTL-8. "Exploded View"](#).
2. Disengage fixing pawls, and then remove side ventilator grille (1).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

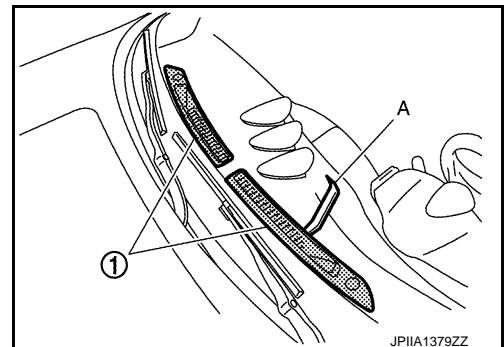
FRONT DEFROSTER GRILLE

FRONT DEFROSTER GRILLE : Removal and Installation

INFOID:000000011737227

REMOVAL

1. Remove front defroster grilles (1), using a remover tool (A).



2. Remove sensors from front defroster grilles.

INSTALLATION

Install in the reverse order of removal.

SIDE DEFROSTER GRILLE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	<ul style="list-style-type: none"> • Back door closed (Coupe models) • Trunk lid closed (Roadster models) 	Off
	<ul style="list-style-type: none"> • Back door opened (Coupe models) • Trunk lid opened (Roadster models) 	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW NOTE: For models with NAVI this item is not monitored.	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
	Trunk lid opener cancel switch ON	On
TR/BD OPEN SW	<ul style="list-style-type: none"> • Back door opener switch OFF (Coupe models) • Trunk lid opener switch OFF (Roadster models) 	Off
	<ul style="list-style-type: none"> • While the back door opener switch is turned ON (Coupe models) • While the trunk lid opener switch is turned ON (Roadster models) 	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD NOTE: For Coupe models this item is not monitored.	TRUNK OPEN button of the Intelligent Key is not pressed	Off
	TRUNK OPEN of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

Diagnostic test mode	Function
Work support	In this mode, it is possible to make quick and accurate adjustments by following the instructions on the CONSULT display.
Self diagnostic result	Receives self-diagnosis results from the BCM, and indicates DTCs and the number of malfunctions.
Data monitor	Receives input/output signals from the BCM and indicates and stores them to facilitate locating the causes of malfunctions.
Active test	Transmits command to the BCM to change output signals and check operation of output system.

WORK SUPPORT MODE

Refer to [WT-22, "Description"](#).

SELF-DIAG RESULTS MODE

Refer to [BCS-99, "DTC Index"](#).

DATA MONITOR MODE

Screen of data monitor mode is displayed.

NOTE:

- When malfunction is detected, CONSULT perform REAL-TIME DIAGNOSIS. Also, any malfunction detected while in this mode will be displayed at real time.
- The following table includes information(items)inapplicable to this vehicle. For information(items)applicable to this vehicle, refer to CONSULT display items.

Monitor item (Unit)	Remark
AIR PRESS FL (kPa), (kg/cm ²), (Psi)	Air pressure of tires
AIR PRESS FR (kPa), (kg/cm ²), (Psi)	
AIR PRESS RR (kPa), (kg/cm ²), (Psi)	
AIR PRESS RL (kPa), (kg/cm ²), (Psi)	
ID REGST FL1	ID is registered: Done ID is not registered: Yet
ID REGST FR1	
ID REGST RR1	
ID REGST RL1	
WARNING LAMP	Low tire pressure warning lamp ON: On Low tire pressure warning lamp OFF: Off
BUZZER	Combination meter buzzer ON: On Combination meter buzzer OFF: Off

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or erase the actual malfunction location may be different from that displayed on CONSULT.

ACTIVE TEST MODE

NOTE:

Before performing the self-diagnosis, be sure to register the ID, or erase the actual malfunction may be different from that displayed on CONSULT.

TEST ITEM LIST

Test item	Content
WARNING LAMP	This test is able to check to check that the low tire pressure warning lamp turns on.
ID REGIST WARNING	This test is able to check to check that the buzzer sounds or the low tire pressure warning lamp turns on.
FLASHER	This test is able to check to check that each turn signal lamp turns on.
HORN	This test is able to check to check that the horn sounds.

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