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PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "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.

Precautions Necessary for Steering Wheel Rotation After Battery Disconnection

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CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Before removing and installing any control units, first turn the ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

- Turn the ignition switch to ACC position. (At this time, the steering lock will be released.)
- Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

PRECAUTIONS

< PRECAUTION >

- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT.

Service Notice

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Precaution for Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component
 may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
 - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
 - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Never use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

PREPARATION

Special Service Tool

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
(J39570) Chassis ear	SIIAO993E	Locates the noise
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairs the cause of noise

Commercial Service Tool

INFOID:0000000006886685

Tool name		Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	PIIB7923J	Removes clips, pawls and metal clips

CLIP LIST

Clip List

Shapes	Removal & Installation	Shapes	Removal & Installation
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.	Clip A	Removal: Finisher Clip A Flat-bladed screwdriver Clip B
	Removal: Remove with a clip remover.	Clip A Clip B (Grommet)	Removal: Flat-bladed screwdriver Body panel Clip A Clip B (Grommet)
e 9	Removal: Push center pin to catching position. (Do not remove center pin by hitting it.) Push Push		Removal: Holder portion of clip must be spread out to remove rod.
	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover. Clip Finisher		Removal: 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver.
Removal:			Removal: Installation: Rotate 45' to remove. Removal:
	Removal:		Removal:

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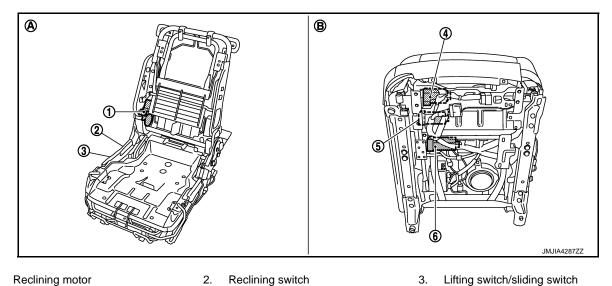
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SYSTEM DESCRIPTION

COMPONENT PARTS POWER SEAT SYSTEM

POWER SEAT SYSTEM: Component Parts Location

INFOID:0000000006886687



- Reclining motor
- Sliding motor

- 5. Lifting motor (front)
- View with seat cushion pad and seat B. back pad are removed
- Back side of seat cushion
- Lifting switch/sliding switch
- Lifting motor (rear)

POWER SEAT SYSTEM : Component Description

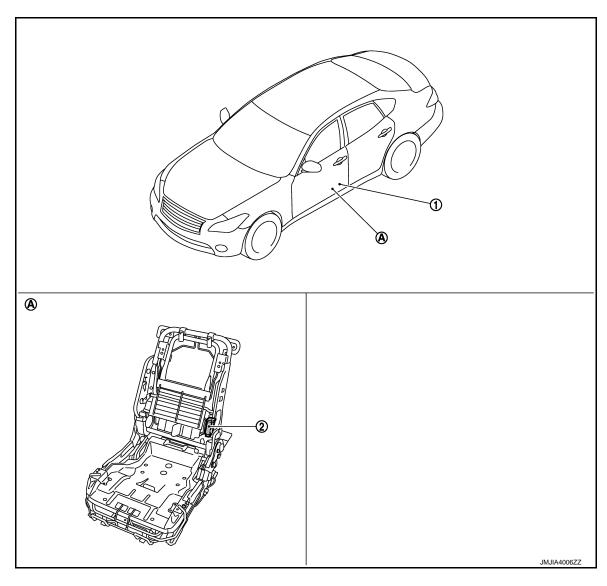
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Item	Function	
BCM	Supplies at all times the power received from battery to power seat switch.	
Power seat switch	Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor.	
Reclining motor	With the power supplied from power seat switch, operates the forward and backward movement of seatback.	
Sliding motor	With the power supplied from power seat switch, operates the forward and backward slide of seat.	
Lifting motor (front/rear)	With the power supplied from power seat switch, operates the up and down movement of seat cushion.	

LUMBAR SUPPORT SYSTEM

LUMBAR SUPPORT SYSTEM: Component Parts Location

INFOID:0000000006886689



- 1. Lumbar support switch
- 2. Lumbar support motor
- A. View with seatback pad is removed

LUMBAR SUPPORT SYSTEM : Component Description

Item	Function
Lumbar support switch	Controls the power supplied to lumbar support motor.
Lumbar support motor	With the power supplied from lumbar support switch, operates forward and backward movement of seatback support unit.

CLIMATE CONTROLLED SEAT SYSTEM

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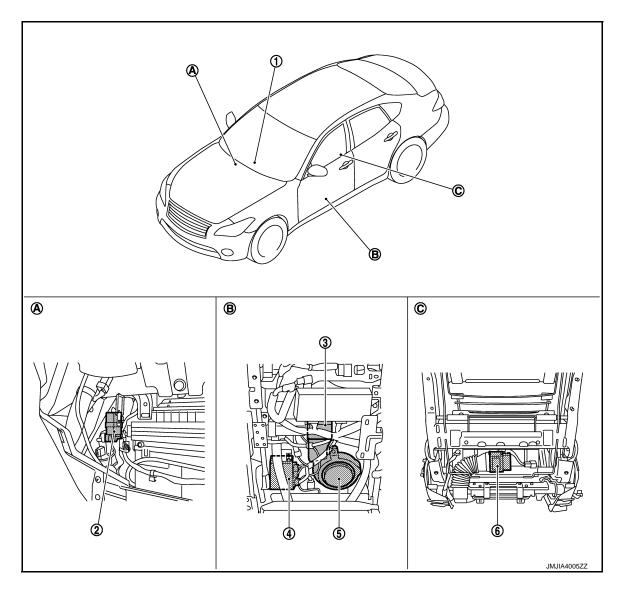
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CLIMATE CONTROLLED SEAT SYSTEM: Component Parts Location

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- 1. Climate controlled seat switch
- 4. Climate controlled seat control unit
- A. View with instrument lower panel RH B. removed
- 2. Climate controlled seat relay
 - . Climate controlled seat cushion blower motor
 - Backside of seat cushion
- 3. Seat cushion thermal electric unit
- 6. Seatback thermal electric unit
- C. View with seatback board removed

CLIMATE CONTROLLED SEAT SYSTEM : Component Description

INFOID:0000000006886692

Item	Function	
Climate controlled seat relay	Supplies power to the climate controlled seat control unit in accordance with the key switch position that is ON or START.	
Climate controlled seat control unit	Installed in the seat cushion backside and controls the seat cushion blower motor, seatback thermal electric unit, and seat cushion thermal electric unit in accordance with the input signal.	
Climate controlled seat switch	Installed in the center console and transmits signals to climate controlled seat control unit in accordance with the HEAT (heated airflow) or COOL (cooled airflow) switch operation and the temperature switch operation.	

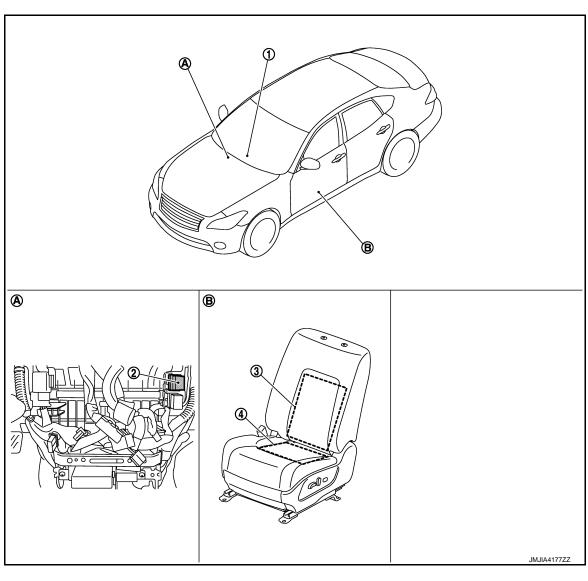
COMPONENT PARTS

< SYSTEM DESCRIPTION >

Item	Function
Seat cushion blower motor	Installed in the seat cushion backside and sends the airflow to the seat cushion thermal electric unit in accordance with the control from the climate controlled seat control unit.
Seatback thermal electric unit	Installed in the seatback backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit.
Seat cushion thermal electric unit	Installed in the seat cushion backside and heats or cools the airflow from the climate controlled seat blower motor in accordance with the control from the climate controlled seat control unit.
Seatback thermal electric unit sensor	Measures seatback temperature.
Seat cushion thermal electric unit sensor	Measures seat cushion temperature.
Climate controlled seat switch indicator	Turn ON the indicator that indicates the operating status of climate controlled seat HEAT or COOL mode.

HEATED SEAT SYSTEM

HEATED SEAT SYSTEM: Component Parts Location



1. Heated seat switch

Revision: 2013 September

2. Heated seat relay

3. Seatback heater

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

- 4. Seat cushion heater (with integrated in heated seat control unit)
- A. View with cluster lid C removed B. Inside of front seat

HEATED SEAT SYSTEM: Component Description

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Item	Function			
Heated seat control unit	 Heated seat control unit is integrated in seat cushion heater. Controls heated seat temperature and is independently placed in each seat cushion (driver seat and passenger seat). 			
Heated seat switch	 Adjusts heated seat temperature and deactivates heated seat. Equips indicator that indicates the operating condition. 			
Seat cushion heater	 Warms seat cushion. Contains heat sensor that outputs seat cushion heater temperature to heated seat control unit. 			
Seatback heater	Warms seatback.			
Heated seat relay	Supplies power to the heated seat being controlled by ignition power supply.			

SYSTEM

POWER SEAT SYSTEM

POWER SEAT SYSTEM : System Description

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Power seat can be operated regardless of the ignition switch position, because power supply is always supplied to power seat switch.

SLIDING OPERATION

While operating the sliding switch located in power seat switch, sliding motor operates and makes possible the seat front and back position adjustment.

RECLINING OPERATION

While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

LIFTING OPERATION

While operating the lifting switch located in power seat switch, lifting motor operates and makes possible the seat cushion up and down position adjustment.

LUMBAR SUPPORT SYSTEM

LUMBAR SUPPORT SYSTEM: System Description

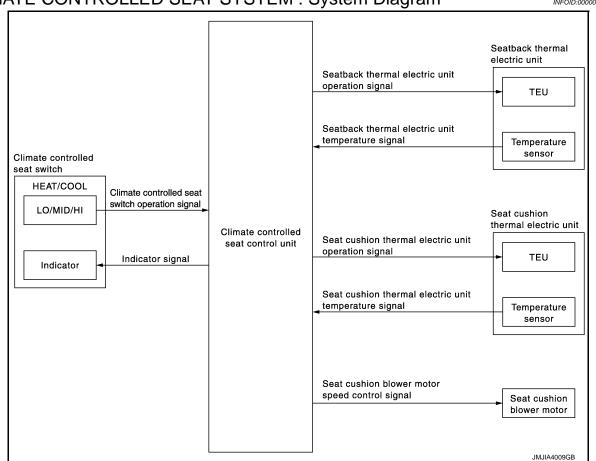
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- Lumbar support can operate regardless of the ignition switch position because, power supply is always supplied to lumber support switch.
- While operating the lumbar support switch, lumbar support motor operates which allows forward and backward operation of seatback support.

CLIMATE CONTROLLED SEAT SYSTEM

CLIMATE CONTROLLED SEAT SYSTEM: System Diagram

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SYSTEM

< SYSTEM DESCRIPTION >

CLIMATE CONTROLLED SEAT SYSTEM: System Description

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- The climate controlled seat system is controlled by the climate controlled seat control unit.
- Operation of the climate controlled switch sends heated or cooled airflow and adjusts the seat temperature.

SEAT CUSHION AND SEATBACK TEMPERATURE ADJUSTMENT FUNCTION

- One thermal electric unit is installed in each seat cushion and seatback. The unit heats or cools, sends airflow to the seat surface, and adjusts the seat temperature.
- The thermal electric unit is a heat exchanger that has a function to heat or cool the airflow from the seat cushion blower motor. By changing the direction of the current from the power supply, the unit takes or gives heat, and adjusts exchange process depending on voltage.

CAUTION:

- The thermal electric unit has a dual-climate function that allows one side to operate at a high temperature and the other to operate at a low temperature simultaneously.
- Before starting always turn OFF the switch and check that the electric unit is cold.

FAIL-SAFE

The fail-safe function is adopted for the climate controlled seat control to <u>SE-14, "CLIMATE CONTROLLED SEAT SYSTEM: Fail-safe"</u>.

CLIMATE CONTROLLED SEAT SYSTEM: Fail-safe

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- Climate controlled seat control unit equips fail-safe function.
- When a malfunction occurs in the systems shown below, climate controlled seat control unit stops output.

Malfunction	Malfunctioning condition
The temperature difference between the seatback thermal electric unit and seat cushion thermal electric unit is more than 40°C	 When it detects for 4 seconds that the temperature difference between the seatback thermal electric unit and seat cushion thermal electric unit is more than 40°, it stops the output to the thermal electric unit, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds. If the temperature difference is still more than 40°C after 30 seconds pass, it stops all output and enters the system OFF condition. When the temperature difference between seatback thermal electric unit and seat cushion thermal electric unit becomes less than 20°C, the system recovers automatically. If it detects that the temperature difference is more than 40°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition. NOTE: When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.
The temperature of thermal electric unit is more than 110°C in the HEAT mode (any thermal electric unit in the seatback or seat cushion)	 When it detects for 4 seconds that the temperature of the thermal electric unit is more than 110°C, it stops the output to the thermal electric unit, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds. If the temperature does not become less than 105°C after 30 seconds pass, it stops all output and enters the system OFF condition. When the temperature of the thermal electric unit becomes less than 105°C, the system recovers automatically. If it detects that the temperature of the thermal electric unit is more than 110°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition.
The temperature of the thermal electric unit is more than 45°C in the COOL mode (any thermal electric unit in the seatback or seat cushion)	 When it detects for 4 seconds that the temperature of the thermal electric unit is more than 45°C and less than 70°C, it starts the temperature monitoring of the thermal electric unit at 3 second intervals. While monitoring, if it detects that the temperature continuously rises 2°C or more 4 times or reaches 70°C or more, it stops all output and enters the system OFF condition. If it detects other results of monitoring, it continues activating in the COOL mode.
Thermal electric unit sensor open circuit (in either the back and the cushion)	When it detects for 4 seconds that the thermal electric unit sensor is an open circuit, it stops all output and enters the system OFF condition.

Malfunction	Malfunctioning condition
Climate controlled seat blower motor system open circuit (in the cushion blower)	 When it detects for 2 seconds that climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 2 second period, it stops output to the thermal electric unit. When it detects for 10 seconds that the climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 10second period, it stops all output and enters the system OFF condition. NOTE: After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range (either heat input or cool input)	 When it detects for 4 seconds that the rotary switch input is less than 30% of the vehicle battery voltage, it stops all output and enters the system OFF condition. When the switch input returns to a value within the specified range, the system recovers automatically.
HEAT or COOL switch input out of the specified range	 During the standby mode, heating or cooling states, if the rotary switch input is 6% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition. When the switch input returns to a value within the specified range, the system recovers automatically.
System voltage out of range	 If the system voltage at the climate controlled seat control unit falls outside of the 8.5 to 16.5 V operating range, it stops all output after a 500ms time period. When the system voltage returns to the normal operating range (10.5-15.5V with a 500ms hysteresis), the system recovers automatically.

^{*:} System voltage is the voltage between the climate controlled seat control unit power source and ground.

NOTE:

When the ignition status changes to OFF during the fail-safe mode, the control unit shall enter the OFF condition. If the ignition is turned ON, the system shall return to the standby mode. If the system enters in the fail-safe mode again after performing ignition cycle, start the diagnosis.

HEATED SEAT SYSTEM

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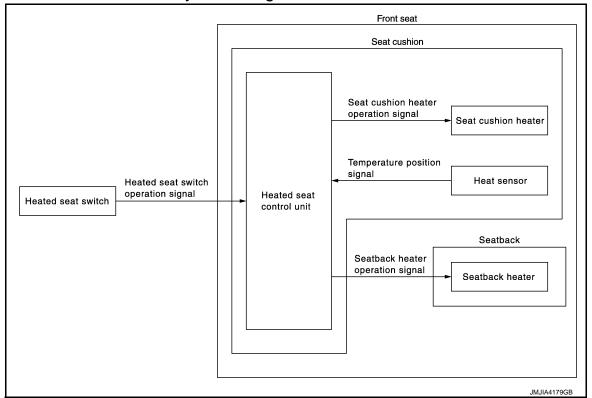
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HEATED SEAT SYSTEM: System Diagram

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HEATED SEAT SYSTEM: System Description

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- Heated seat is activated by heated seat switch while ignition switch is ON, and has the function to warm seat cushion and seatback.
- Heated seat equips the 6-stage temperature adjustment function that adjusts temperature by operating heated seat switch to the optimal position.
- Heated seat equips a thermostat in heater unit to prevent heater unit overheating.

OPERATION DESCRIPTION

- When operating heated seat switch to any position between 1 and 6 while ignition switch is ON, indicator illuminates, heated seat control unit controls heater unit, and warms seat cushion and seatback.
- Heat sensor that is built in seat cushion heater detects seat cushion heater temperature and outputs to heated seat control unit.
- Heated seat control unit monitors heated seat switch position and heat sensor temperature, and interrupts ground circuit to heater unit when heat sensor temperature reaches preset temperature.
- Heated seat control unit adjusts temperature to preset temperature by interrupting ground circuit to heater unit.

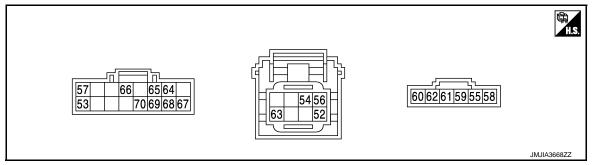
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ECU DIAGNOSIS INFORMATION

CLIMATE CONTROLLED SEAT CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition			Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx.)	
52 (L/B)	Ground	Climate controlled seat switch power supply	Output	Ignition switch ON		12	
53				Climate controlled	CO	OL	12
(Y/W)	Ground	COOL switch indicator signal	Output	seat switch	Other than the above		0
						HI	2.6 - 4.2
54	Craund	LICAT quitab aignal	lanut	Climate controlled	HEAT	MID	1.6 - 2.5
(Y)	Ground	HEAT switch signal	Input	seat switch	İ	LO	0.8 - 1.5
					OF	-F	0
55 (G/R)* ¹ (R/L)* ²	Ground	Ignition switch power supply	Input	Ignition switch ON		Battery voltage	
		COOL switch signal	Input	Climate controlled seat switch		HI	2.6 - 4.2
56	Ground				COOL	MID	1.6 - 2.5
(V)	Ground					LO	0.8 - 1.5
					OF	FF	0
57				Climate controlled	HE	AT	12
(B/P)	Ground	HEAT switch indicator signal	Output	seat switch	Other the abo		0
58 (B)* ¹ (B/W)* ²	Ground	Ground	_	_	_		0
59	Ground	Seatback thermal electric unit	Output	Climate controlled HEAT or COOL		r COOL	0 - 12 [*]
(LG/R)		HEAT signal		seat switch	OFF		0
60	Ground	Seatback thermal electric unit	Output	Climate controlled	HEAT or COOL		0 - 12*
(LG/B)		COOL signal	seat switch	seat switch	OFF		0
61	Ground	Seat cushion thermal electric	Output	Climate controlled	HEAT o	r COOL	0 - 12*
(Y/R)	(Y/R) Ground	unit HEAT signal	Output	seat switch	OFF		0

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62	Ground	Seat cushion thermal electric	Output	Climate controlled	HEAT o	r COOL	0 - 12*
(B/R)	Cround	unit COOL signal	Output	seat switch	OFF		0
63 (R)	Ground	Ignition switch power supply	Input	Ignition switch ON		Battery voltage	
64 (W/R)	Ground	Seat cushion blower motor power supply	Output	Output Climate controlled seat switch		r COOL	12
(۷۷/1۷)		еї зирріу		Other than the above			0
65 (W/B)	Ground	Seat cushion blower motor ground	_	_		0	
				HEAT		6.5 - 8	
66	Ground	Seat cushion blower motor speed control signal	Output	Climate controlled seat switch	COOL	HI	10
(Y/G)	Giodila					MID	8
						LO	6
67 (L/R)	Ground	Seatback thermal electric unit sensor ground	_	Ignition switch ON			0
68 (L)	Ground	Seatback thermal electric unit sensor signal	Input	Climate controlled seat operated			1 - 5
69 (G/B)	Ground	Seat cushion thermal electric unit sensor ground	_	Ignition switch ON		0	
70 (G/W)	Ground	Seat cushion thermal electric unit sensor signal	Input	Climate controlled seaf	operated		1 - 5

^{*:} It value changes between 12 V and 0 V.

NOTE:

- Measure the value on the condition that the battery voltage is 14 V.
- Wait 1 minute or more after thermal electric unit is activated, and then start the measurement.

Fail-safe

- Climate controlled seat control unit equips fail-safe function.
- When a malfunction occurs in the systems shown below, climate controlled seat control unit stops output.

^{*1:} Driver side

^{*2:} Passenger side

< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunctioning condition
The temperature difference between the seatback ther- mal electric unit and seat cushion thermal electric unit is more than 40°C	 When it detects for 4 seconds that the temperature difference between the seatback thermal electric unit and seat cushion thermal electric unit is more than 40°, it stops the output to the thermal electric unit, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds. If the temperature difference is still more than 40°C after 30 seconds pass, it stops all output and enters the system OFF condition. When the temperature difference between seatback thermal electric unit and seat cushion thermal electric unit becomes less than 20°C, the system recovers automatically. If it detects that the temperature difference is more than 40°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition. NOTE: When the switch operation is performed before entering the system OFF condition, the fail-safe mode is reset.
The temperature of thermal electric unit is more than 110°C in the HEAT mode (any thermal electric unit in the seatback or seat cushion)	 When it detects for 4 seconds that the temperature of the thermal electric unit is more than 110°C, it stops the output to the thermal electric unit, activates the climate controlled seat blower motor at the maximum position, and sends the external airflow for 30 seconds. If the temperature does not become less than 105°C after 30 seconds pass, it stops all output and enters the system OFF condition. When the temperature of the thermal electric unit becomes less than 105°C, the system recovers automatically. If it detects that the temperature of the thermal electric unit is more than 110°C after the automatic system recovery, it immediately stops all output and enters the system OFF condition.
The temperature of the thermal electric unit is more than 45°C in the COOL mode (any thermal electric unit in the seatback or seat cushion)	 When it detects for 4 seconds that the temperature of the thermal electric unit is more than 45°C and less than 70°C, it starts the temperature monitoring of the thermal electric unit at 3 second intervals. While monitoring, if it detects that the temperature continuously rises 2°C or more 4 times or reaches 70°C or more, it stops all output and enters the system OFF condition. If it detects other results of monitoring, it continues activating in the COOL mode.
Thermal electric unit sensor open circuit (in either the back and the cushion)	When it detects for 4 seconds that the thermal electric unit sensor is an open circuit, it stops all output and enters the system OFF condition.
Climate controlled seat blower motor system open circuit (in the cushion blower)	 When it detects for 2 seconds that climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 2 second period, it stops output to the thermal electric unit. When it detects for 10 seconds that the climate controlled seat blower motor is an open circuit while the climate controlled seat is being activated, and the battery status has been stable for the same 10second period, it stops all output and enters the system OFF condition. NOTE: After detecting the climate seat blower motor system open circuit for 2 seconds, the system recovers automatically if the activation of the climate controlled seat blower motor is detected for 1 second or more.
Switch input out of the specified range (either heat input or cool input)	 When it detects for 4 seconds that the rotary switch input is less than 30% of the vehicle battery voltage, it stops all output and enters the system OFF condition. When the switch input returns to a value within the specified range, the system recovers automatically.

< ECU DIAGNOSIS INFORMATION >

Malfunction	Malfunctioning condition			
HEAT or COOL switch input out of the specified range	 During the standby mode, heating or cooling states, if the rotary switch input is 6% or less of the vehicle battery voltage, it stops all output and enters the system OFF condition. When the switch input returns to a value within the specified range, the system recovers automatically. 			
System voltage out of range	 If the system voltage at the climate controlled seat control unit falls outside of the 8.5 to 16.5 V operating range, it stops all output after a 500ms time period. When the system voltage returns to the normal operating range (10.5-15.5V with a 500ms hysteresis), the system recovers automatically. 			

^{*:} System voltage is the voltage between the climate controlled seat control unit power source and ground.

NOTE:

When the ignition status changes to OFF during the fail-safe mode, the control unit shall enter the OFF condition. If the ignition is turned ON, the system shall return to the standby mode. If the system enters in the fail-safe mode again after performing ignition cycle, start the diagnosis.

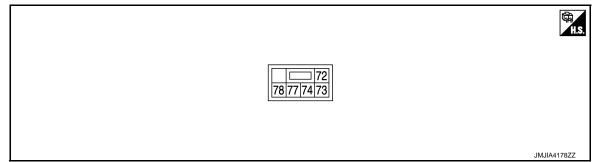
HEATED SEAT CONTROL UNIT (DRIVER SIDE)

< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT (DRIVER SIDE)

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Termir (Wire	nal No. color)	Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx.)
					OFF	0
					1 (Min. temperature)	10.66 ^{*1}
					2	11.18 ^{*1}
72 (LG/B)	Ground	d Heated seat switch signal	Input	Heated seat switch	3	11.76 ^{*1}
(==,=)					4	12.12 ^{*1}
					5	12.47 ^{*1}
					6 (Max. temperature)	12.83 ^{*1}
73	Ground	Heated seat operation sig-	Innut	Heated seat	ON	Battery voltage
(LG/R)	Giodila	nal	Input	switch	OFF	0
74 (B)	Ground	Ground	_	_		0
77	Ground	Battery power supply	Input	Ignition switch	ON	Battery voltage
(R)	Giodila	battery power suppry	iriput	ignition switch	Other than the above	0
78 (LG/Y)	Ground	Seatback heater signal	Input	Heated seat	Operated	0.48*2

^{*1 :} When thermistor temperature is 20°C (68°F).

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 $^{^{\}star 2}$: Voltage changes according to temperature of seatback heater.

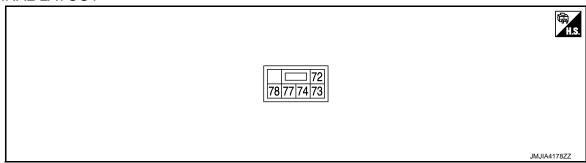
HEATED SEAT CONTROL UNIT (PASSENGER SIDE)

< ECU DIAGNOSIS INFORMATION >

HEATED SEAT CONTROL UNIT (PASSENGER SIDE)

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description		Condition		Voltage (V)	
+	-	Signal name	Input/ Output	Condition		(Approx.)	
					OFF	0	
					1 (Min. temperature)	10.66 ^{*1}	
					2	11.18 ^{*1}	
72 (LG/B)	Ground	Heated seat switch signal	Input	Heated seat switch	3	11.76 ^{*1}	
(==,=)					4	12.12 ^{*1}	
					5	12.47 ^{*1}	
					6 (Max. temperature)	12.83 ^{*1}	
73	Ground	Heated seat operation sig-	فيسما	Input	Heated seat	ON	Battery voltage
(LG/R)	Giodila	nal	Input	switch	OFF	0	
74 (B/W)	Ground	Ground	_		_	0	
77	Ground	Battery power supply	Input	Ignition switch	ON	Battery voltage	
(R/W)	Giodila	battery power supply	iriput	ignition switch	Other than the above	0	
78 (LG/Y)	Ground	Seatback heater signal	Input	Heated seat	Operated	0.48*2	

^{*1 :} When thermistor temperature is 20°C (68°F).

^{*2:} Voltage changes according to temperature of seatback heater.

WIRING DIAGRAM

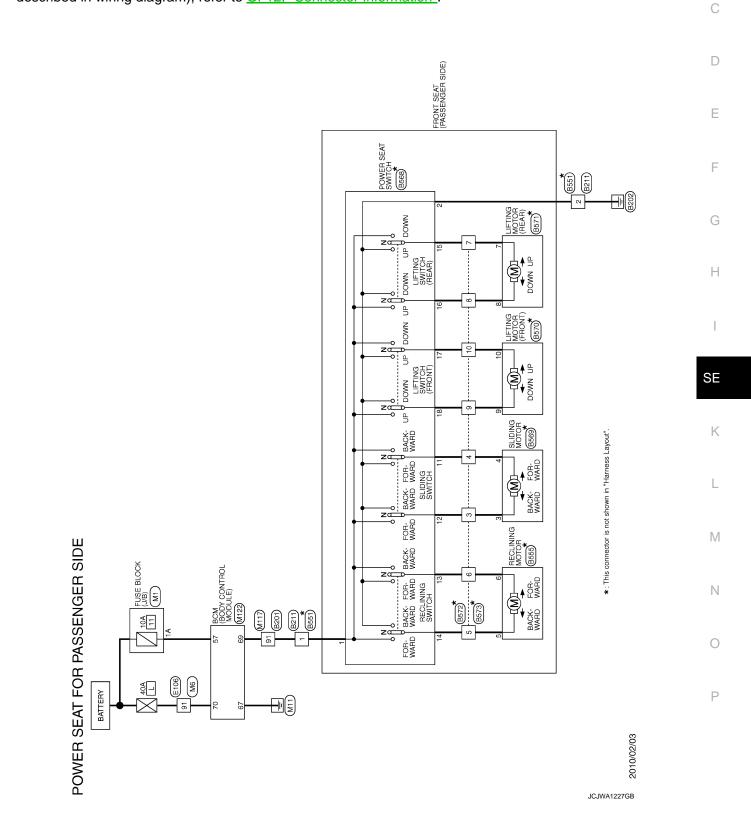
POWER SEAT CONTROL SYSTEM (PASSENGER SIDE)

Wiring Diagram

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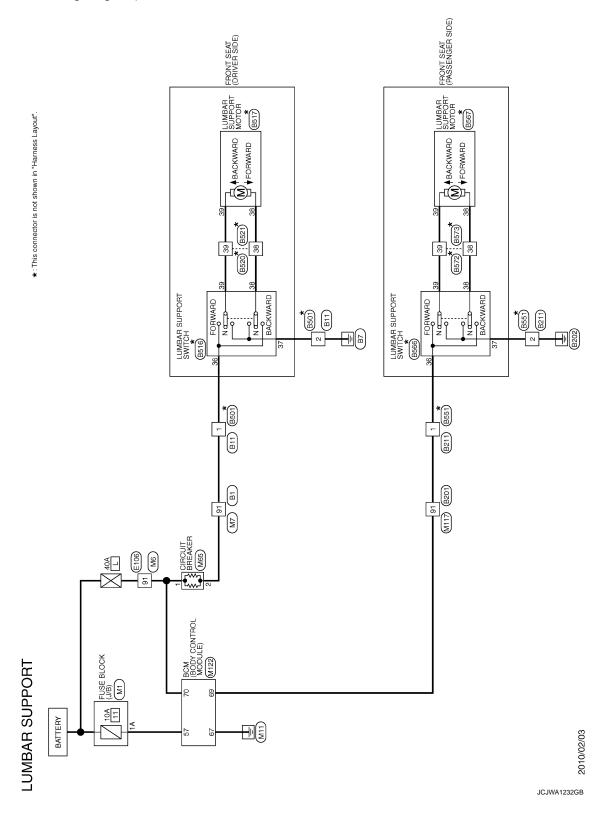
For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



LUMBAR SUPPORT SYSTEM

Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



CLIMATE CONTROLLED SEAT SYSTEM

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BATTERY

Wiring Diagram INFOID:0000000006886708

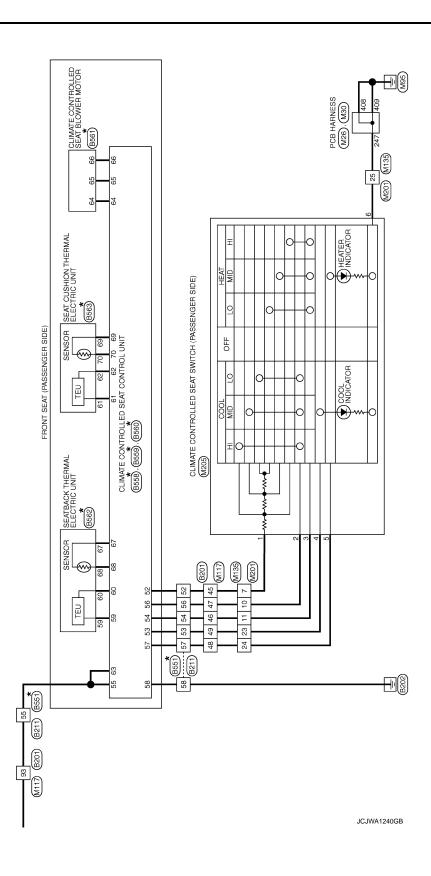
Α For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not В described in wiring diagram), refer to GI-12, "Connector Information". CLIMATE CONTROLLED SEAT BLOWER MOTOR C D ★: This connector is not shown in "Harness Layout" B531) Е F SEAT CUSHION THERMAL ELECTRIC UNIT CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE) (N204) CLIMATE CONTROLLED SEAT CONTROL UNIT (B528) (B528) (B530) FRONT SEAT (DRIVER SIDE) Н (A SE K M7 56 54 53 22 M FUSE BLOCK (J/B) CLIMATE CONTROLLED SEAT Ν 0

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JCJWA1239GB

*: This connector is not shown in "Harness Layout".

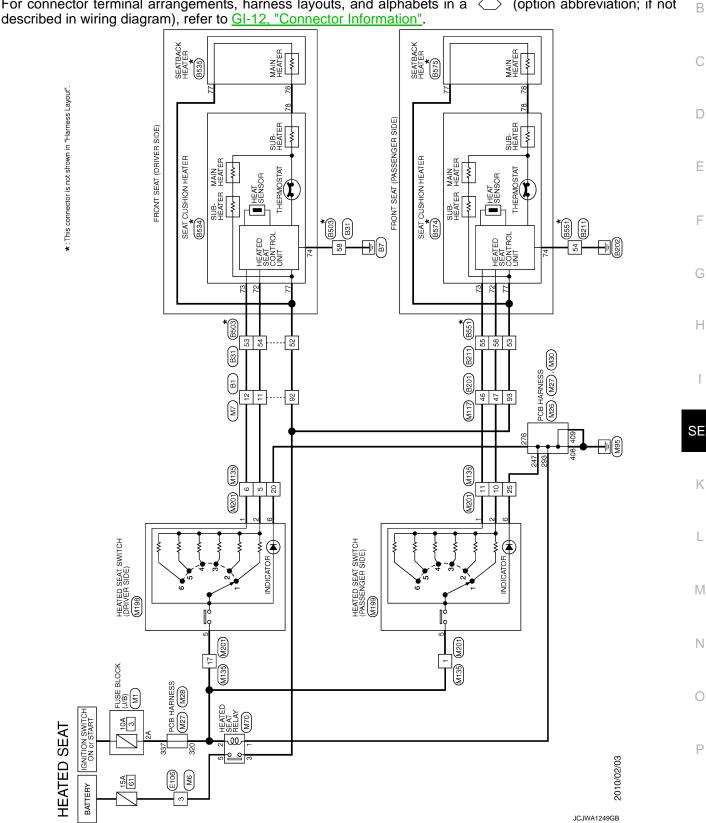


HEATED SEAT SYSTEM

Wiring Diagram INFOID:0000000006886709

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For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not



DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

DETAILED FLOW

1. OBTAIN INFORMATION ABOUT SYMPTOM

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

>> GO TO 2.

2.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes. Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 3.

3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

4. IDENTIFY THE MALFUNCTIONING PARTS WITH "DTC/CIRCUIT DIAGNOSIS"

Perform the diagnosis with "DTC/CIRCUIT DIAGNOSIS" of the applicable system.

>> GO TO 5.

REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

6. FINAL CHECK

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.

Are the malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 3.

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT CLIMATE CONTROLLED SEAT CONTROL UNIT

CLIMATE CONTROLLED SEAT CONTROL UNIT: Diagnosis Procedure INFOID:000000008886711

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Driver side

1.CHECK FUSE

Check that the following fuse and fusible link are not fusing.

Signal name	Fuse No.
Ignition power supply	3 (10 A)
Battery power supply	61 (15 A)

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE) POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit (driver side) connector.
- 3. Turn ignition switch ON.
- Check voltage between climate controlled seat control unit (driver side) harness connector and ground.

	+)	()	Voltage (V) (Approx.)	
Connector	control unit (driver side) Terminal	(-)		
B528	55		5 1	
B529	63	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3.check climate controlled seat control unit (driver side) ground circuit

- Turn ignition switch OFF.
- 2. Check continuity between climate control unit (driver side) harness connector and ground.

Climate controlled seat	control unit (driver side)		Continuity	
Connector	Terminal	Ground	Continuity	
B528	58		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

f 4.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (DRIVER SIDE) POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect climate controlled seat relay.
- 3. Check continuity between climate controlled seat control unit (driver side) harness connector and climate controlled seat relay harness connector.

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< DTC/CIRCUIT DIAGNOSIS >

Climate controlled sea	at control unit (driver side)	Climate contro	olled seat relay	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B528	55	M61	6	Existed
B529	63	IVIOI	0	LXISIEU

4. Check continuity between climate controlled seat control unit (driver side) harness connector and ground.

Climate controlled seat control unit (driver side)			Continuity
Connector	Terminal	Ground	Continuity
B528	55		Not existed
B529	63		inot existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat relay harness connector and ground.

	(+) Climate controlled seat relay		Voltage (V) (Approx.)
Connector	Terminal		(/ IPP : 5/11)
M61	2 7	- Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between climate controlled seat relay harness connector and ground.

Climate controlled seat relay			Continuity
Connector	Terminal	Ground	Continuity
M61	1		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.

Refer to SE-32, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace climate controlled seat relay.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

Passenger side

1.CHECK FUSE

< DTC/CIRCUIT DIAGNOSIS >

Check that the following fuse and fusible link are not fusing.

Signal name	Fuse No.
Ignition power supply	3 (10 A)
Battery power supply	62 (15 A)

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE) POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect climate controlled seat control unit (passenger side) connector. 2.
- Turn ignition switch ON.
- Check voltage between climate controlled seat control unit (passenger side) harness connector and ground.

(+) Climate controlled seat control unit (passenger side)		(-)	Voltage (V) (Approx.)
Connector	Terminal		(· -FP
B558	55	Ground	Battery voltage
B559	63	Giouria	Dallery Vollage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3.check climate controlled seat control unit (passenger side) ground circuit

- Turn ignition switch OFF.
- Check continuity between harness connector and ground.

Climate controlled seat control unit (passenger side)			Continuity
Connector	Terminal	Ground	Continuity
B558	58		Existed

Is the inspection result normal?

>> INSPECTION END

NO >> Repair harness or connector.

4. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT (PASSENGER SIDE) POWER SUPPLY CIR-CUIT

- Turn ignition switch OFF.
- Disconnect climate controlled seat relay.
- Check continuity between climate controlled seat control unit (passenger side) harness connector and climate controlled seat relay harness connector.

Climate controlled seat co	ontrol unit (passenger side)	Climate controlled seat relay		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B558	55	M61	2	Existed	
B559	63	IVIOI	3	Existed	

4. Check continuity between climate controlled seat control unit (passenger side) harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat co	Climate controlled seat control unit (passenger side)		Continuity	
Connector	Terminal	Ground	Continuity	
B558	55		Not existed	
B559	63		Not existed	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK CILMATE CONTROLLED SEAT RELAY POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat relay harness connector and ground.

(+) Climate controlled seat relay		(-)	Voltage (V) (Approx.)
Connector	Terminal		(-77.0/11)
M61	2	Ground	Rattony voltago
IVIO I	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK CLIMATE CONTROLLED SEAT RELAY GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between climate controlled seat relay harness connector and ground.

Climate controlled seat relay			Continuity
Connector	Terminal	Ground	Continuity
M61	1		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK CLIMATE CONTROLLED SEAT RELAY

Check climate controlled seat relay.

Refer to SE-32, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace climate controlled seat relay.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

CLIMATE CONTROLLED SEAT CONTROL UNIT: Component Inspection INFOID:0000000008886712

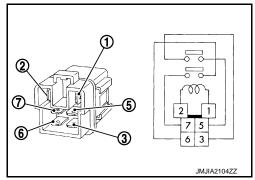
1. CHECK CLIMATE CONTROLLED SEAT RELAY

- 1. Turn ignition switch OFF.
- 2. Remove climate controlled seat relay.

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between climate controlled seat relay terminals under the following conditions.

Terr	Terminal Condition		Continuity
3	12 V direct current supply between ter- minals 1 and 2.		Existed
		No current supply	Not existed
6	7	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace climate controlled seat relay.

SEAT CUSHION HEATER

SEAT CUSHION HEATER: Diagnosis Procedure

INFOID:0000000006886713

1.CHECK FUSE

Check that the following fuse and fusible link are not fusing.

Signal name	Fuse No.
Battery power supply	61 (15 A)

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK SEAT CUSHION HEATER POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect seat cushion heater connector.
- Turn ignition switch ON.
- 4. Check voltage between seat cushion heater harness connector and ground.

(+) Seat cushion heater			(-)	Voltage (V) (Approx.)	
Connector Terminal			(Арргох.)		
Driver side	B534	77	Ground	Battery voltage	
Passenger side	B574		Giodila	Dattery Voltage	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3. CHECK SEAT CUSHION HEATER POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- Check continuity between seat cushion heater harness connector and heated seat relay terminal connector.

Seat cushion heater			Heated s	Continuity	
Coni	nector	Terminal	Connector	Terminal	Continuity
Driver side	B534	77	M70	3	Existed
Passenger side	B574	77	IVI7U		

^{4.} Check continuity between seat cushion heater harness connector and ground.

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< DTC/CIRCUIT DIAGNOSIS >

Seat cushion heater				Continuity
Cor	nector	Terminal	Ground	Continuity
Driver side	B534	77	Ground	Not existed
Passenger side	B574			NOT EXISTED

Is the inspection result normal?

YES >> Repair or replace harness between heated seat relay and fuse holder.

NO >> Repair or replace harness between seat cushion heater and heated seat relay.

4. CHECK HEATED SEAT OPERATION SIGNAL

Check voltage between seat cushion heater harness connector and ground.

	(+)											
Seat cushion heater		(-)	Condition		Voltage (V) (Approx.)							
Conne	ctor	Terminal				(, 44, 5,)						
Driver side	B534				ON	Battery voltage						
Driver side	D334	73 Ground Heated	72	72	72	70	0	Cround	Cround	Heated seat switch	OFF	0
Doggongereide	DE74		73 Ground	Heated Seat Switch	ON	Battery voltage						
rassenger side	Passenger side B574				OFF	0						

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 5.

5. CHECK HEATED SEAT OPERATION SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat switch connector.
- Check continuity between seat cushion heater harness connector and heated seat switch harness connector.

Seat cushion heater			Heated seat switch		Continuity
Coni	nector	Terminal	Connector	Terminal	Continuity
Driver side	B534	73	M198	1	Existed
Passenger side	B574	73	M199	,	Existed

4. Check continuity between seat cushion heater harness connector and ground.

Seat cushion heater				Continuity
Connector Terminal		Terminal	Ground	Continuity
Driver side	B534	73	Giouria	Not existed
Passenger side	B574	73		NOT EXISTED

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to SE-56, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace heated seat switch.

7.check seat cushion heater ground circuit

- 1. Turn ignition switch OFF.
- 2. Check continuity between seat cushion heater harness connector and ground.

< DTC/CIRCUIT DIAGNOSIS >

Seat cushion heater			Continuity	
Cor	nnector	Terminal	Ground	Continuity
Driver side	B534	74	Giodila	Exists
Passenger side	B574	74		EXISIS

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

8. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

SEATBACK HEATER

SEATBACK HEATER: Diagnosis Procedure

1. CHECK SEATBACK HEATER POWER SUPPLY

1. Turn ignition switch OFF.

- 2. Disconnect seatback heater connector.
- 3. Turn ignition switch ON.

4. Check voltage between seatback heater harness connector and ground.

(+)				V 14 0 0	
Seatback heater			(-)	Voltage (V) (Approx.)	
Connector Terminal		Terminal		(, 44, 2,)	
Driver side	B535	77	Ground	Battery voltage	
Passenger side	B575	11	Ground	Battery voltage	

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK SEATBACK HEATER POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Check continuity between seatback heater harness connector and heated seat relay terminal connector.

Seatback heater			Heated seat relay		Continuity
Coni	nector	Terminal	Connector	Terminal	Continuity
Driver side	B535	77	M70	2	Existed
Passenger side	B575		IVI7O	3	Existed

4. Check continuity between seatback heater harness connector and ground.

Seatback heater				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	B535	77	Giouria	Not existed	
Passenger side	B575	//		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

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< DTC/CIRCUIT DIAGNOSIS >

Check intermittent incident.

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

HEATED SEAT SWITCH

HEATED SEAT SWITCH: Diagnosis Procedure

INFOID:0000000006886715

1. CHECK FUSE

Check that the following fuse and fusible link are not fusing.

Signal name	Fuse No.
Ignition power supply	3 (10 A)

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK HEATED SEAT SWITCH POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect heated seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between heated seat switch harness connector and ground.

	(+)	(-)	Voltage (V) (Approx.)	
	Heated seat switch			
Con	nector	Terminal		(
Driver side	M198	Б	Ground	Battery voltage
Passenger side	M199	5		

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

${f 3.}$ CHECK HEATED SEAT SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect fuse block (J/B) connector.
- 3. Check continuity between heated seat switch harness connector and fuse block (J/B) harness connector.

Heated seat switch			Fuse block (J/B)		Continuity	
Connector		Terminal	Connector	Terminal	Continuity	
Driver side	M198	5	M1	2A	Existed	
Passenger side	M199					

4. Check continuity between heated seat switch harness connector and ground.

Heated seat switch				Continuity
Connector		Terminal	Ground	Continuity
Driver side	M198	E	Ground	Not existed
Passenger side	M199	5		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK FUSE BLOCK (J/B)

1. Turn ignition switch ON.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

	(+)		V I 00	
Fuse block (J/B)		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M1	2A	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace fuse block (J/B).

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

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CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT SWITCH

Component Function Check

INFOID:0000000006886716

1. CHECK CLIMATE CONTROLLED SEAT SWITCH FUNCTION

Check that climate controlled seat activates when operating climate controlled seat control switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-38, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000006886717

1. CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT INPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat control unit harness connector and ground.

(+)							
Climate conti	Climate controlled seat control unit		(-)	Condition			Voltage (V) (Approx.)
Conne	Connector Terminal						
						Н	2.6 - 4.2
		FG			COOL	MID	1.6 - 2.5
		56				LO	0.8 - 1.5
Driver side	B529			Climate controlled seat	OFF		0
Driver side B529			switch (driver side)		HI	2.6 - 4.2	
		54	- Ground		HEAT	MID	1.6 - 2.5
		54				LO	0.8 - 1.5
					OFF		0
						HI	2.6 - 4.2
		56			COOL	MID	1.6 - 2.5
		56				LO	0.8 - 1.5
Passenger side	B559			Climate controlled seat	OFF		0
rassenger side	D 339			switch (passenger seat)	HEAT	HI	2.6 - 4.2
		54				MID	1.6 - 2.5
						LO	0.8 - 1.5
					OFF		0

Is the inspection result normal?

YES >> INSPECTION END

NO-1: HEAT or COOL mode is NG>>GO TO 2.

NO-2: HEAT and COOL modes are NG>>GO TO 3.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat switch connector and climate controlled seat control unit connector.
- 3. Check continuity between climate controlled seat switch harness connector and climate controlled seat control unit harness connector.

CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat switch				Climate controlled seat control unit		Continuity	
Connector			Terminal	Connector Terminal		Continuity	
Driver side	COOL	M204	2	B529	56	Point	
	HEAT	101204	3		54		
Passenger side	COOL	M205	2	B559	56	Existed	
	HEAT	101205	3		54		

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4. Check continuity between climate controlled seat switch harness connector and ground.

	Climate contro		Continuity			
Connector			Terminal		Continuity	
Driver side	COOL	M204	2	Ground	Not existed	
	HEAT	IVI204	3			
Passenger side	COOL	M205	2			
	HEAT	IVIZUS	3			

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

3.CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat switch connector.
- Turn ignition switch ON.
- 4. Check voltage between climate controlled seat switch harness connector and ground.

	(+)		\/-\t (\)		
C	limate controlled seat swit	(-)	Voltage (V) (Approx.)		
Conr	nector	Terminal		(, ,pp. 6,11)	
Driver side	M204	1	Ground	12	
Passenger side	M205	· · · · · · · · · · · · · · · · · · ·	Giodila	12	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK CLIMATE CONTROLLED SEAT SWITCH POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector.
- 3. Check continuity between climate controlled seat switch harness connector and climate controlled seat control unit harness connector.

Climate controlled seat switch			Climate controlle	Continuity		
Connector		Terminal	Connector Terminal			
Driver side	M204	1	B529	52	Existed	
Passenger side	M205		B559	32	LXISIGU	

4. Check continuity between climate controlled seat switch harness connector and ground.

	Climate controlled seat swit		Continuity		
Connector		Terminal	Ground	Continuity	
Driver side	M204	1	Giouria	Not existed	
Passenger side	M205	1		Not existed	

Is the inspection result normal?

CLIMATE CONTROLLED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

5. CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

Refer to SE-40, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace climate controlled seat switch.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006886718

1. CHECK CLIMATE CONTROLLED SEAT SWITCH

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

Tern	Terminal Condition		ndition		Continuity
			COOL mode	ON	Existed
2	3	4 Olimenta controlled controlled	COOL Mode	OFF	Not existed
2		Climate controlled seat switch	HEAT mode	ON	Existed
			HEAT Mode	OFF	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace climate controlled seat switch.

SEATBACK THRMAL ELECTRIC UNIT

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THRMAL ELECTRIC UNIT

Component Function Check

1. CHECK SEATBACK THERMAL ELECTRIC UNIT FUNCTION

Check whether or not the temperature of the seatback thermal electric unit changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-41, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SEATBACK THERMAL ELECTRIC UNIT INPUT SIGNAL

Turn ignition switch ON.

2. Check voltage between seatback thermal electric unit harness connector and ground.

(+) Seatback thermal electric unit		(-) Conditi		ition	Voltage (V) (Approx.)	
Connector Terminal					(11 - 7	
	59	50			HEAT or COOL	0 - 12*
Driver side		39	- Ground -	Climate controlled seat switch Climate controlled seat switch	Other than the above	0
Driver side	B532	60			HEAT or COOL	0 - 12*
		60			Other than the above	0
		59			HEAT or COOL	0 - 12*
Dassangar sida	B562				Other than the above	0
Passenger side	D302	60			HEAT or COOL	0 - 12*
		60			Other than the above	0

 $^{^{\}star}$: It value changes between 12 V and 0 V

NOTE:

Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seatback thermal electric unit.

NO >> GO TO 2.

2.check seatback thermal electric unit circuit

Turn ignition switch OFF.

- Disconnect climate controlled seat control unit connector and seatback thermal electric unit connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seatback thermal electric unit harness connector.

Climate controlled seat control unit			Seatback therr	Continuity		
Connector		Terminal	Connector	Terminal	Continuity	
Driver side	B528	59	B532	59	Friedrick	
		60		60		
Passenger side	B558	59	B562	59	Existed	
		60		60		

4. Check continuity between climate controlled seat control unit harness connector and ground.

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SEATBACK THRMAL ELECTRIC UNIT

< DTC/CIRCUIT DIAGNOSIS >

Clin	nate controlled seat contro		Continuity		
Connector		Terminal		Continuity	
Driver side	B528	59	Ground		
	B028	60	Ground	Not existed	
Passenger side	DEEO	59		Not existed	
	B558	60			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

SEATBACK THRMAL ELECTRIC UNIT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK THRMAL ELECTRIC UNIT SENSOR

Component Function Check

INFOID:0000000006886721

1. CHECK SEATBACK THERMAL ELECTRIC UNIT SENSOR FUNCTION

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Check whether or not the temperature of the seatback thermal electric unit changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-44</u>, "Component Inspection".

Diagnosis Procedure

INFOID:0000000006886722

1. CHECK SEATBACK THERMAL ELECTRIC UNIT SENSOR SIGNAL

E

- Turn ignition switch ON.
- 2. Check voltage between seatback thermal electric unit harness connector and ground.

(+)					Voltage (V) (Approx.)	
Seatback thermal electric unit			(-)	(-) Condition		
Connector Terminal				(·		
Driver side	B532	68	Ground	Climate controlled seat	1 - 5	
Passenger side	B562	00	Giodila	operated	1-3	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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2. CHECK SEATBACK THERMAL ELECTRIC UNIT SENSOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and seatback thermal electric unit connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seatback thermal electric unit harness connector.

Climate controlled seat control unit			Seatback therr	Continuity	
Connector		Terminal	Connector Terminal		Continuity
Driver side	B530	68	B532	- 68	Existed
Passenger side	B560	00	B562	00	

4. Check continuity between climate controlled seat control unit harness connector and ground.

Cli	mate controlled seat contro		Continuity	
Connector		Terminal		
Driver side	B530	68	Glound	Not existed
Passenger side	B560	- 06		inot existed

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

3.check seatback thermal electric unit sensor ground circuit

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and seatback thermal electric unit connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seatback thermal electric unit harness connector.

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SEATBACK THRMAL ELECTRIC UNIT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat control unit			Seatback ther	Continuity	
Connector		Terminal	Connector	Terminal	Continuity
Driver side	B530	67	B532	67	Existed
Passenger side	B560	67	B562	67	

4. Check continuity between climate controlled seat control unit harness connector and ground.

Cli	mate controlled seat contro		Continuity		
Connector		Terminal	Ground	Continuity	
Driver side	B530	67	Giodila	Not existed	
Passenger side	B560	07		INOL EXISTED	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK SEATBACK THERMAL ELECTRIC UNIT SENSOR

Check seatback thermal electric unit sensor.

Refer to SE-44, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seatback thermal electric unit.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006886723

1. CHECK SEATBACK THERMAL ELECTRIC UNIT SENSOR

- 1. Turn ignition switch OFF.
- 2. Disconnect seatback thermal electric unit connector.
- 3. Check resistance between seatback thermal electric unit terminals.

Seatback then	Resistance (KΩ)	
Terr	(Approx.)	
67	68	1*

^{*:} When sensor temperature is 25°C (77°F).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seatback thermal electric unit.

SEAT CUSHION THRMAL ELECTRIC UNIT

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION THRMAL ELECTRIC UNIT

Component Function Check

1. CHECK SEAT CUSHION THERMAL ELECTRIC UNIT FUNCTION

Check whether or not the temperature of the seat cushion thermal electric unit changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-41, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SEAT CUSHION THERMAL ELECTRIC UNIT INPUT SIGNAL

Turn ignition switch ON.

2. Check voltage between seat cushion thermal electric unit harness connector and ground.

(+)					Voltage (V) (Approx.)	
Seat cushion thermal electric unit Connector Terminal		(-)	Condition			
		61			HEAT or COOL	0 - 12*
Driver side B533	DE33	01		Climate controlled seat switch	Other than the above	0
	БЭЭЭ	62			HEAT or COOL	0 - 12*
			Ground		Other than the above	0
Passenger side B563		61		Climate controlled seat switch	HEAT or COOL	0 - 12*
	DE62				Other than the above	0
	D303				HEAT or COOL	0 - 12*
	62			Other than the above	0	

 $^{^{}st}$: It value changes between 12 V and 0 V

NOTE:

Wait 1 minute or more after the activation start, and then start the measurement.

Is the inspection result normal?

YES >> Replace seat cushion thermal electric unit.

NO >> GO TO 2.

2.check seat cushion thermal electric unit circuit

- Turn ignition switch OFF.
- Disconnect climate controlled seat control unit connector and seat cushion thermal electric unit connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seat cushion thermal electric unit harness connector.

Climat	te controlled seat cont	rol unit	Seat cushion the	Continuity	
Connector		Terminal	Connector		Terminal
Driver side	B528	61	B533	61	Existed
		62		62	
Passenger side	B558	61	B563	61	
		62		62	

Check continuity between climate controlled seat control unit harness connector and ground.

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SEAT CUSHION THRMAL ELECTRIC UNIT

< DTC/CIRCUIT DIAGNOSIS >

Clin	nate controlled seat contro		Continuity		
Connector		ector Terminal		Continuity	
Driver side	B528	61	Ground		
	D020	62		Niet audate d	
Passenger side	DEEO	61		Not existed	
	B558	62			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

SEAT CUSHION THRMAL ELECTRIC UNIT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SEAT CUSHION THRMAL ELECTRIC UNIT SENSOR

Component Function Check

INFOID:0000000006886726

1. CHECK SEAT CUSHION THERMAL ELECTRIC UNIT SENSOR FUNCTION

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Check whether or not the temperature of the seat cushion thermal electric unit changes in accordance with the HEAT or COOL switch operation of the climate controlled seat control switch.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-48</u>, "Component Inspection".

Diagnosis Procedure

INFOID:0000000006886727

1. CHECK SEAT CUSHION THERMAL ELECTRIC UNIT SENSOR SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage between seat cushion thermal electric unit harness connector and ground.

(+)				V-16 0.0		
Seat cushion thermal electric unit			(-)	Condition	Voltage (V) (Approx.)	
Connector		Terminal			(44)	
Driver side	B533	70	Ground	Climate controlled seat operated	1 - 5	
Passenger side	B563	70	Ground	Climate Controlled Seat Operated		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SEAT CUSHION THERMAL ELECTRIC UNIT SENSOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and seat cushion thermal electric unit connector.
- 3. Check continuity between climate controlled seat control unit harness connector and seat cushion thermal electric unit harness connector.

Climate controlled seat control unit			Seat cushion the	Continuity	
Connector		Terminal	Connector Terminal		Continuity
Driver side	B530	70	B533	- 70	Existed
Passenger side	B560	70	B563		

4. Check continuity between climate controlled seat control unit harness connector and ground.

Cli	mate controlled seat contro		Continuity		
Connector		Terminal	Ground	Continuity	
Driver side	B530	70	- Ground	Not existed	
Passenger side	B560	70			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

${f 3.}$ CHECK SEAT CUSHION THERMAL ELECTRIC UNIT SENSOR GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and seat cushion thermal electric unit connector.
- Check continuity between climate controlled seat control unit harness connector and seat cushion thermal electric unit harness connector.

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SEAT CUSHION THRMAL ELECTRIC UNIT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat control unit			Seat cushion the	Continuity	
Connector		Terminal	Connector	Terminal	Continuity
Driver side	B530	69	B533	- 69	Existed
Passenger side	B560	69	B563		

4. Check continuity between climate controlled seat control unit harness connector and ground.

Clir	nate controlled seat contro		Continuity		
Con	nector	Terminal	Ground	Continuity	
Driver side	B530	69	Giouria	Not existed	
Passenger side	B560	69		Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK SEAT CUSHION THERMAL ELECTRIC UNIT SENSOR

Check seat cushion thermal electric unit sensor.

Refer to <u>SE-48</u>, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat cushion thermal electric unit.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006886728

1.CHECK SEAT CUSHION THERMAL ELECTRIC UNIT SENSOR

- 1. Turn ignition switch OFF.
- 2. Disconnect seat cushion thermal electric unit connector.
- 3. Check resistance between seat cushion thermal electric unit terminals.

Seat cushion the	Resistance (KΩ)	
Terr	(Approx.)	
69	70	1*

 $^{^*}$: When sensor temperature is 25°C (77°F).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat cushion thermal electric unit.

CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Component Function Check

1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR FUNCTION

When turning the climate controlled seat switch to the HEAT or COOL mode position, check that the climate controlled seat cushion blower is operated in each specific mode.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-49</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check voltage between climate controlled seat cushion blower motor harness connector and ground.

(+)						
Climate controlled seat cushion blower motor		(-) Condit		tion	Voltage (V) (Approx.)	
Connec	ctor	Terminal				() ; ; ; ;
				HEAT mode	12	
Driver side	B531		Ground	Climate controlled seat switch	COOL mode	12
					Other than the above	0
		B561			HEAT mode	12
Passenger side E	B561			Climate controlled seat switch	COOL mode	12
				oo	Other than the above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat cushion blower motor connector and climate controlled seat control unit connector.
- 3. Check continuity between climate controlled seat cushion blower motor harness connector and climate controlled seat control unit harness connector.

Climate controlled seat cushion blower motor			Climate controlle	Continuity		
Connector		Terminal	Connector Terminal		Continuity	
Driver side	B531	64	B530	64	Eviated	
Passenger side	B561	64	B560	64	Existed	

Check continuity between climate controlled seat cushion blower motor harness connector and ground.

Climate	controlled seat cushion blo		Continuity		
Connector		Terminal	Cround	Continuity	
Driver side	B531	64	Ground	Not existed	
Passenger side	B561	- 04		Not existed	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

3. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR SPEED CONTROL SIGNAL

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CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Check voltage between climate controlled seat cushion blower motor harness connector and ground.

(+) Climate controlled seat cushion blower motor		(-) Condit		lition		Voltage (V) (Approx.)		
Conne	ector	Terminal						
					HEAT		6.5 - 8	
						HI	10	
Driver side	Driver side B531		Orange	Climate controlled seat switch	COOL	MID	8	
		66				LO	6	
					Other than the above		0	
			Ground		HEAT		6.5 - 8	
						HI	10	
Passenger side	B561			Climate controlled seat switch	COOL	MID	8	
						LO	6	
					Other than the above		0	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR SPEED CONTROL SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat cushion blower motor connector and climate controlled seat control unit connector.
- Check continuity between climate controlled seat cushion blower motor harness connector and climate controlled seat control unit harness connector.

Climate con	ntrolled seat cushion b	olower motor	Climate controlle	Continuity	
Connector		Terminal	Connector Terminal		Continuity
Driver side	B531	66	B530	- 66	Existed
Passenger side	B561	00	B560	00	

4. Check continuity between climate controlled seat cushion blower motor harness connector and ground.

Climate	controlled seat cushion blo		Continuity		
Connector		Terminal			Ground
Driver side	B531	66	Ground	Not existed	
Passenger side	B561	00		Not existed	

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

5.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat cushion blower motor and climate controlled seat control unit connector
- Check continuity between climate controlled seat cushion blower motor harness connector and climate controlled seat control unit harness connector.

CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat cushion blower motor			Climate controlled seat control unit		Continuity
Connector		Terminal	Connector Terminal		Continuity
Driver side	B531	65	B530	- 65	Existed
Passenger side	B561	65	B560		

4. Check continuity between climate controlled seat cushion blower motor harness connector and ground.

Climate	controlled seat cushion blo		Continuity		
Connector		Terminal	Ground	Continuity	
Driver side	B531	65	Giodila	Not existed	
Passenger side	B561	05		Not existed	

Is the inspection result normal?

YES >> Replace climate controlled seat cushion blower motor.

NO >> Repair or replace harness.

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CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Component Function Check

INFOID:0000000006886731

1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR FUNCTION

Check that the related indicator lamp illuminates when climate controlled seat switch is set to HEAT or COOL mode.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-52</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000006886732

1. CHECK CLIMATE CONTROLLED SEAT SWITCH INPUT SIGNAL

- 1. Turn ignition switch ON.
- Check voltage between climate controlled seat switch harness connector and ground.

(+) Climate controlled seat switch		(-) Conditi		tion	Voltage (V) (Approx.)	
Connecto	or	Terminal				(, ,pp. 5/)
					COOL mode	12
Driver side M204	4		Climate controlled seat	Other than the above	0	
Driver side	M204	5		switch (driver side)	HEAT mode	12
			- Ground		Other than the above	0
		,			COOL mode	12
Daggar aide	M205	4		Climate controlled seat	Other than the above	0
Passenger side I	IVIZUS	5		switch (passenger side)	HEAT mode	12
					Other than the above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect climate controlled seat control unit connector and climate controlled seat switch connector.
- Check continuity between climate controlled seat control unit harness connector and climate controlled seat switch harness connector.

Clin	nate controlled seat s	witch	Climate controlle	Continuity		
Connector		Terminal	Connector	Terminal	Continuity	
Driver side	M204	4	- B530	53	Existed	
		5		57		
Passenger side	M205	4	B560	53	Laisteu	
	WIZOS	5	5300	57		

4. Check continuity between climate controlled seat switch harness connector and ground.

CLIMATE CONTROLLED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Climate controlled seat switch				Continuity	
Con	nector	Terminal		Continuity	
Driver side	M204	4	Ground		
		5	Giouna	Not evieted	
Passenger side M	MOOF	4		Not existed	
	M205	5			

Is the inspection result normal?

YES >> Replace climate controlled seat control unit.

NO >> Repair or replace harness.

3.check climate controlled seat switch ground circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect climate controlled seat switch connector.
- 3. Check continuity between climate controlled seat switch harness connector and ground.

Climate controlled seat switch				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	M204	6	Giouria	Existed	
Passenger side	M205	6		LXISIGU	

Is the inspection result normal?

YES >> Replace climate controlled seat switch.

NO >> Repair or replace harness.

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CLIMATE CONTROLLED SEAT BLOWER FILTER

< DTC/CIRCUIT DIAGNOSIS >

CLIMATE CONTROLLED SEAT BLOWER FILTER

Diagnosis Procedure

INFOID:0000000006886733

1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

Remove climate controlled seat cushion blower filter and check that there is no clogging by dirt or foreign matters.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace climate controlled seat cushion blower filter.

HEATED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH

Component Function Check

1. CHECK HEATED SEAT SWITCH FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to SE-55, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK SEAT CUSHION HEATER INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect seat cushion heater connector. 2.
- Turn ignition switch ON. 3.
- Check voltage between seat cushion heater harness connector and ground.

(+)					\/alta a.a. (\) (\)	
Seat	cushion hea	ter	(-) Cond		ondition	Voltage (V) (Approx.)
Connec	tor	Terminal				
				OFF	0	
				1 (Min. temperature)	10.66*	
				2	11.18*	
Driver side	B534	72		Heated seat switch (driver side)	3	11.76 [*]
			(arror side)	4	12.12 [*]	
				5	12.47 [*]	
			0		6 (Max. temperature)	12.83 [*]
			Ground		OFF	0
					1 (Min. temperature)	10.66 [*]
					2	11.18 [*]
Passenger side	B574	72		Heated seat switch (passenger side)	3	11.76*
				(passeriger olde)	4	12.12 [*]
					5	12.47 [*]
				6 (Max. temperature)	12.83 [*]	

^{*:} When thermistor temperature is 20°C (68°F).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

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2.check heated seat switch circuit

- Turn ignition switch OFF.
- 2. Disconnect heated seat switch connector.
- Check continuity between heated seat switch harness connector and seat cushion heater harness connector.

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HEATED SEAT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Heated seat switch			Seat cus	hion heater	Continuity
Connector		Terminal	Connector Terminal		Continuity
Driver side	M198	2	B534	72	Existed
Passenger side	M199	2	B574	72	Existed

Check continuity between heated seat switch harness connector and ground.

Heated seat switch				Continuity	
Connector		Terminal	Ground	Continuity	
Driver side	M198	2	Ground	Not existed	
Passenger side	M199	2		inot existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK HEATED SEAT SWITCH

Check heated seat switch.

Refer to <u>SE-56</u>, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace heated seat switch.

4. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006886736

1. CHECK FRONT HEATED SEAT SWITCH

- 1. Turn ignition OFF.
- 2. Disconnect heated seat switch connector.
- 3. Check resistance between heated seat switch terminals under the following conditions.

	eat switch		Condition	Resistance (KΩ) (Approx.)
1611	IIIIai		ON	0
	1		OFF	∞
			OFF	∞
			1 (Min. temperature)	2.400
5		Heated seat switch	2	1.800
	2		3	1.200
			4	0.910
			5	0.620
			6 (Max. temperature)	0.348

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace heated seat switch.

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT RELAY

Component Function Check

1. CHECK HEATED SEAT RELAY FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-57</u>, "<u>Diagnosis Procedure</u>"

Diagnosis Procedure

1. CHECK HEATED SEAT RELAY POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Turn ignition switch ON.
- 4. Check voltage between heated seat relay terminal connector and ground.

	(+)		V-16 (A.)	
Heated seat relay		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(11 - 7	
M70	2	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HEATED SEAT RELAY POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect fuse block (J/B) connector.
- 3. Check continuity between heated seat relay terminal connector and fuse block (J/B) harness connector.

Heated seat relay		Fuse bl	Continuity		
Connector	Terminal	Connector Terminal			
M70	2	M1	2A	Existed	

Check continuity between heated seat relay terminal connector and ground.

Heated s	seat relay		Continuity
Connector Terminal		Ground	Continuity
M70	2		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

3. CHECK HEATED SEAT RELAY GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between heated seat relay terminal connector and ground.

Heated s	seat relay		Continuity
Connector	Terminal	Ground	Existed
M70	1		LXISIEU

Is the inspection result normal?

YES >> GO TO 4.

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HEATED SEAT RELAY

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

4. CHECK HEATED SEAT RELAY

Check heated seat relay.

Refer to SE-58, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace heated seat relay.

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-44, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000006886739

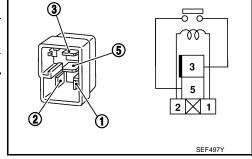
1. CHECK HEATED SEAT RELAY

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat relay.
- 3. Check continuity between heated seat relay terminals.

Terr	ninal	Condition	Continuity
3	5	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed

Is the inspection result normal?

YES >> INSPECTION END NO >> Replace heated seat relay.



SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

SEATBACK HEATER

Component Function Check

${f 1}$. CHECK SEATBACK HEATER FUNCTION

Check that heated seat warms to preset temperature when operating heated seat switch to the optimal position.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to SE-59, "Component Inspection".

Diagnosis Procedure

INFOID:0000000006886741

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1. CHECK SEATBACK HEATER SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect seat cushion heater connector and seatback heater connector.
- Check continuity between seat cushion heater harness connector and seatback heater harness connec-

Seat cushion heater			Seatback heater		Continuity
Coni	nnector Terminal		Connector	Terminal	Continuity
Driver side	B534	70	B535	78	Existed
Passenger side	B574	78 B575	B575	70	Existed

Check continuity seat cushion heater harness connector and ground.

	Seat cushion heater	- Ground	Continuity	
Connector			Terminal	Continuity
Driver side	B534	78	Giodila	Not existed
Passenger side	B574			Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK SEATBACK HEATER

Check seatback heater.

Refer to SE-59, "Component Inspection".

Is the inspection result normal?

YES >> Replace seat cushion heater.

>> Replace seatback heater. NO

Component Inspection

INFOID:0000000006886742

1. CHECK SEATBACK HEATER

- Turn ignition switch OFF.
- 2. Disconnect seatback heater connector.
- Check resistance between seatback heater terminals.

Seatback heater		Condition	Resistance (Ω)	
Terminal		Condition	(Approx.)	
77	78	When seatback heater temperature is 20°C (68°F)	5.39 - 6.57	

NOTE:

Resistance value changes according to temperature.

Is the inspection result normal?

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SEATBACK HEATER

< DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> Replace seatback heater.

HEATED SEAT SWITCH INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR

Component Function Check

1. CHECK HEATED SEAT SWITCH INDICATOR FUNCTION

Check that the related indicator lamp illuminates when heated seat switch is turned ON.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>SE-61, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK HEATED SEAT SWITCH INDICATOR GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect heated seat switch connector.
- 3. Check continuity between heated seat switch harness connector and ground.

	Heated seat switch	- Ground	Continuity	
Connector				Terminal
Driver side	M198	6	Giodila	Existed
Passenger side	M199			Existed

Is the inspection result normal?

YES >> Replace heated seat switch.

NO >> Repair or replace harness.

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CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

CLIMATE CONTROLLED SEAT DOES NOT OPERATE.

Diagnosis Procedure

INFOID:0000000006886745

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${f 1}$.CHECK CLIMATE CONTROLLED SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check climate controlled seat control unit power supply and ground circuit.

Refer to SE-29, "CLIMATE CONTROLLED SEAT CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

Refer to SE-38, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Check climate controlled seat cushion blower motor.

Refer to SE-49, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE CLIMATE CONTROLLED SEAT CONTROL UNIT

Replace climate controlled seat control unit.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 5.

5. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".

NO >> GO TO 1.

TEMPERATURE ADJUSTMENT IS IMPOSSIBLE < SYMPTOM DIAGNOSIS > TEMPERATURE ADJUSTMENT IS IMPOSSIBLE Α SEAT CUSHION SEAT CUSHION: Diagnosis Procedure INFOID:0000000006886747 В 1. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER Check climate controlled seat cushion blower filter. Refer to SE-54, "Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.check climate controlled seat switch Check climate controlled seat switch. Е Refer to SE-38, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. F NO >> Repair or replace the malfunctioning parts. ${f 3.}$ CHECK SEAT CUSHION THERMAL ELECTRIC UNIT SENSOR Check seat cushion thermal electric unit sensor. Refer to SE-47, "Component Function Check". Is the inspection result normal? Н YES >> GO TO 4. >> Repair or replace the malfunctioning parts. NO f 4.CHECK SEAT CUSHION THERMAL ELECTRIC UNIT Check seat cushion thermal electric unit. Refer to SE-45, "Component Function Check". SE Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. K ${f 5.}$ CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR Check climate controlled seat cushion blower motor. Refer to SE-49, "Component Function Check". Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. M **O.**CONFIRM THE OPERATION Confirm the operation again. N Is the inspection result normal? >> Check intermittent incident. Refer to GI-44, "Intermittent Incident". YES >> GO TO 1. NO SEATBACK SEATBACK : Diagnosis Procedure INFOID:0000000007202372 Р ${f 1}$.CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER FILTER

Check climate controlled seat cushion blower filter.

Refer to SE-54, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

TEMPERATURE ADJUSTMENT IS IMPOSSIBLE

< SYMPTOM DIAGNOSIS >

2.CHECK CLIMATE CONTROLLED SEAT SWITCH

Check climate controlled seat switch.

Refer to SE-38, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK SEATBACK THERMAL ELECTRIC UNIT SENSOR

Check seatback thermal electric unit sensor.

Refer to SE-43, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK SEATBACK THERMAL ELECTRIC UNIT

Check seatback thermal electric unit.

Refer to SE-41, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK CLIMATE CONTROLLED SEAT CUSHION BLOWER MOTOR

Check climate controlled seat cushion blower motor.

Refer to SE-49, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".

NO >> GO TO 1.

CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDIATELY

< SYMPTOM DIAGNOSIS >

CLIMATE CONTROLLED SEAT ACTIVATES ONCE BUT STOPS IMMEDIATELY

Description INFOID:000000006886748

When turning climate controlled seat switch ON (COOL or HEAT), climate controlled seat activates once but stops immediately. (Repeats the same operation when turning ignition switch OFF and turning ignition switch ON again.)

Diagnosis Procedure

1.CHECK FAIL-SAFE

Check fail-safe detecting conditions and repair cause of fail-safe status.

Refer to SE-18, "Fail-safe".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.check temperture adjustment function

Check temperature adjustment function of climated controlled seat.

Refer to SE-63, "SEAT CUSHION: Diagnosis Procedure".

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 inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".

NO >> GO TO 1.

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SEAT SWITCH INDICATOR IS NOT ILLUMINATED IN HEAT OR COOL POSITION

< SYMPTOM DIAGNOSIS >

SEAT SWITCH INDICATOR IS NOT ILLUMINATED IN HEAT OR COOL PO-SITION

Diagnosis Procedure

INFOID:0000000006886750

1. CHECK CLIMATE CONTROLLED SEAT SWITCH INDICATOR

Check climate controlled seat switch indicator.

Refer to SE-52, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".

NO >> GO TO 1.

HEATED SEAT DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HEATED SEAT DOES NOT OPERATE	٨			
Diagnosis Procedure	Α			
1. CHECK HEATED SEAT SWITCH POWER SUPPLY				
Check heated seat switch power supply. Refer to SE-36, "HEATED SEAT SWITCH: Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.				
2.CHECK HEATED SEAT RELAY	D			
Check heated seat relay. Refer to SE-57, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	E			
3. CHECK SEAT CUSHION HEATER POWER SUPPLY AND GROUND CIRCUIT	F			
Check seat cushion heater power supply and ground circuit. Refer to SE-33, "SEAT CUSHION HEATER: Diagnosis Procedure". Is the inspection result normal?	G			
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4.CHECK HEATED SEAT SWITCH	Н			
Check heated seat switch. Refer to SE-55, "Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. 5.CONFIRM THE OPERATION	SE			
Confirm the operation again.	K			
Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident". NO >> GO TO 1.	L			
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SEATBACK HEATER ONLY DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SEATBACK HEATER ONLY DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000006886752

1. CHECK SEATBACK HEATER

Check seatback heater.

Refer to SE-59, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".

NO >> GO TO 1.

CANNOT ADJUST HEATED SEAT TEMPERATURE

< SYMPTOM DIAGNOSIS > CANNOT ADJUST HEATED SEAT TEMPERATURE Α Diagnosis Procedure INFOID:0000000006886753 1. CHECK HEATED SEAT SWITCH В Check heated seat switch. Refer to SE-55, "Component Function Check". C Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.CONFIRM THE OPERATION D Confirm the operation again. Is the inspection result normal? Е YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident". NO >> Replace seat cushion heater. F Н SE K L M Ν 0

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HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

HEATED SEAT SWITCH INDICATOR DOES NOT TURN ON

Diagnosis Procedure

INFOID:0000000006886754

1. CHECK HEATED SEAT SWITCH INDICATOR

Check heated seat switch indicator.

Refer to SE-61, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-44, "Intermittent Incident".

NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

Customer Interview

Duplicate the Noise and Test Drive.

Check Related Service Bulletins.

Locate the Noise and Identify the Root Cause.

Repair the Cause.

NG Confirm Repair.

OK

CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to <u>SE-75</u>, "<u>Diagnostic Worksheet</u>". This information is necessary to duplicate the conditions that exist when the noise occurs.

Inspection End

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics
 are provided so the customer, service adviser and technician are all speaking the same language when
 defining the noise.
- Squeak (Like tennis shoes on a clean floor)
 - Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor)
 - Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle)
 - Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door)
 - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand)
 - Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise)
 - Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumblebee)
- Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician
 may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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 SE-73, "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-43980) is available through the authorized Nissan Parts Department.

CAUTION:

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

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

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100×135 mm $(3.94 \times 5.31$ in)/76884-71L01: 60×85 mm $(2.36 \times 3.35$ in)/76884-

71L02:15 \times 25 mm (0.59 \times 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 \times 1.97 in)/73982-

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

INSULATOR (Light foam block)

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

FELT CLOTHTAPE

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

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad}/68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

< SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Α Used in place of UHMW tape that is be visible or does not fit. Will only last a few months. SILICONE SPRAY Used when grease cannot be applied. В **DUCT TAPE** Used to eliminate movement. CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Inspection Procedure D INFOID:0000000006886756 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins Wiring harnesses behind the combination meter 7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. CAUTION: Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible. SE CENTER CONSOLE Components to pay attention to include: 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit The instrument panel repair and isolation procedures also apply to the center console. DOORS Pay attention to the following: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher Wiring harnesses tapping 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition look for the following:

- 1. Trunk lid dumpers out of adjustment
- Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

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< SYMPTOM DIAGNOSIS >

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:

- 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:

- Headrest rods and holder
- 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
- Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 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.

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

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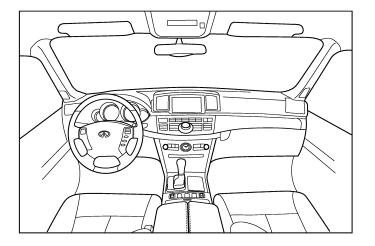
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

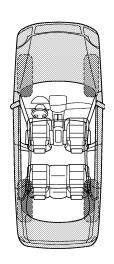
Dear Infiniti Customer:

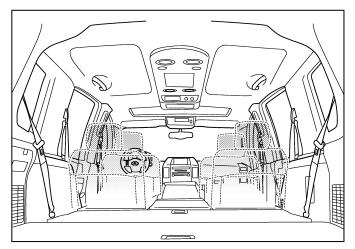
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may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

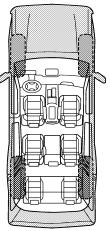
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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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Briefly describe the location where the no	ise occurs:	
II. WHEN DOES IT OCCUR? (please ch ☐ anytime ☐ 1st time in the morning ☐ only when it is cold outside ☐ only when it is hot outside	eck the boxes that apply) after sitting out in the rain when it is raining or wet dry or dusty conditions other:	
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
through driveways over rough roads over speed bumps only about mph on acceleration coming to a stop on turns: left, right or either (circle) with passengers or cargo other: miles or mi	squeak (like tennis shoes on a clean flood creak (like walking on an old wooden flood rattle (like shaking a baby rattle) knock (like a knock at the door) tick (like a clock second hand) thump (heavy, muffled knock noise) buzz (like a bumble bee)	
	DEDCONNEL	
	PERSONNEL	
TO BE COMPLETED BY DEALERSHIP Test Drive Notes:	YES NO Initials of pe	erson
	YES NO Initials of performin	ng

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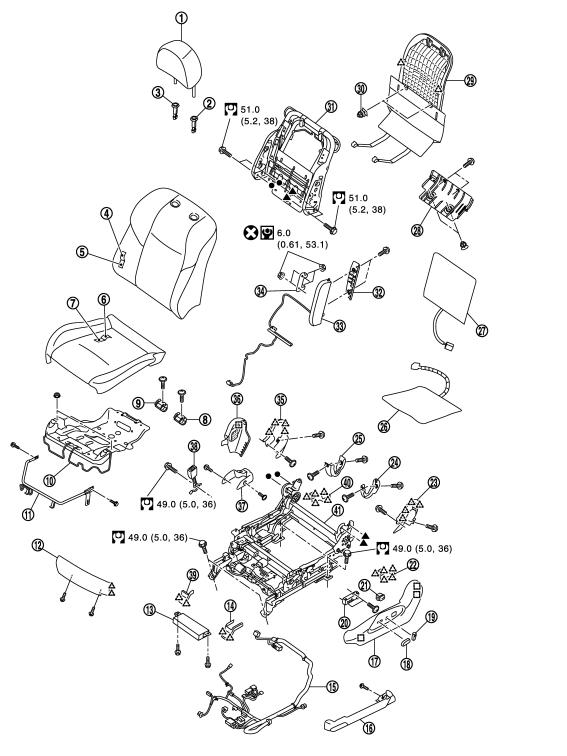
REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

DRIVER SEAT WITH SEAT HEATER

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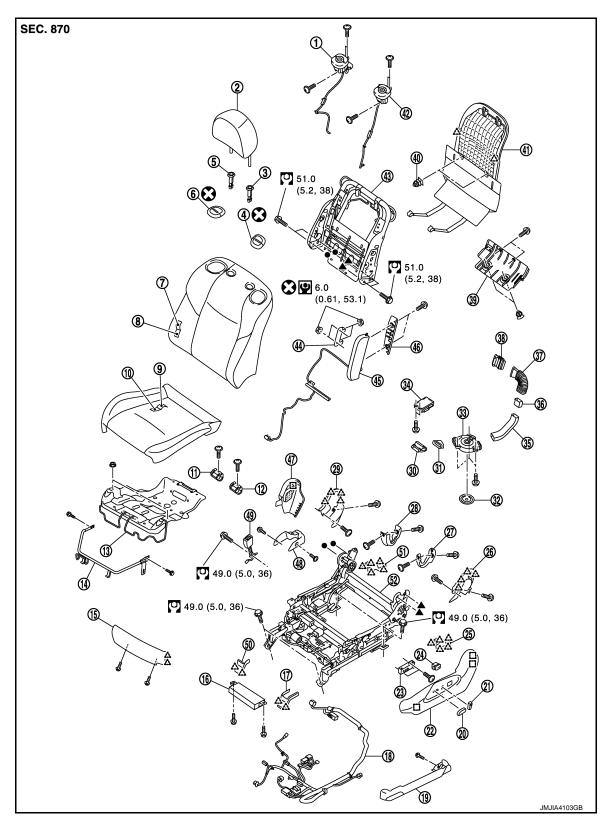
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< REMOVAL AND INSTALLATION >

1.	Headrest	2.	Headrest holder (locked)	3.	Headrest holder (free)
4.	Seatback trim	5.	Seatback pad	6.	Seat cushion trim
7.	Seat cushion pad	8.	Seat cushion frame bracket (LH)	9.	Seat cushion frame bracket (RH)
10.	Seat cushion frame	11.	Seat adjuster bar	12.	Seat cushion finisher (front)
13.	Seat control unit	14.	Front leg outer cover	15.	Seat harness
16.	Seat cushion lower outer finisher	17.	Seat cushion outer finisher (LH)	18.	Seat slide and lifter switch knob
19.	Seat reclining switch knob	20.	Seat control switch	21.	Lumber support switch
22.	Rear leg outer cover	23.	Seat cushion inner finisher (LH)	24.	Seat cushion rear finisher (LH)
25.	Seat cushion rear finisher (RH)	26.	Seat cushion heater unit	27.	Seatback heater unit
28.	Seat cushion rear finisher	29.	Seatback board	30.	Seatback board clip
31.	Seatback frame	32.	Side air bag module cover	33.	Side air bag module
34.	Side air bag module bracket	35.	Seat cushion inner finisher (RH)	36.	Seat cushion outer finisher (RH)
37.	Seat cushion lower inner finisher	38.	Seat belt buckle	39.	Front leg inner cover
40.	Rear leg inner cover	41.	Seat adjuster assembly		
<u> </u>	: Pawl				
[-]	: Metal clip				
Dof	or to GL4 "Companents" for symbols i	n tha	figure		

Refer to $\underline{\mbox{GI-4, "Components"}}$ for symbols in the figure.

DRIVER SEAT WITH SEAT SPEAKER AND CLIMATE CONTROLLED SEAT



- 1. Seat speaker (RH)
- 4. Seat speaker grill (LH)
- 7. Seatback trim
- 10. Seat cushion pad
- 13. Seat cushion frame
- 16. Seat control unit

- 2. Headrest
- 5. Headrest holder (free)
- 8. Seatback pad
- 11. Seat cushion frame bracket (RH)
- 14. Seat adjuster bar
- 17. Front leg outer cover

- 3. Headrest holder (locked)
- 6. Seat speaker grill (RH)
- 9. Seat cushion trim
- 12. Seat cushion frame bracket (LH)
- 15. Seat cushion finisher (front)
- 18. Seat harness

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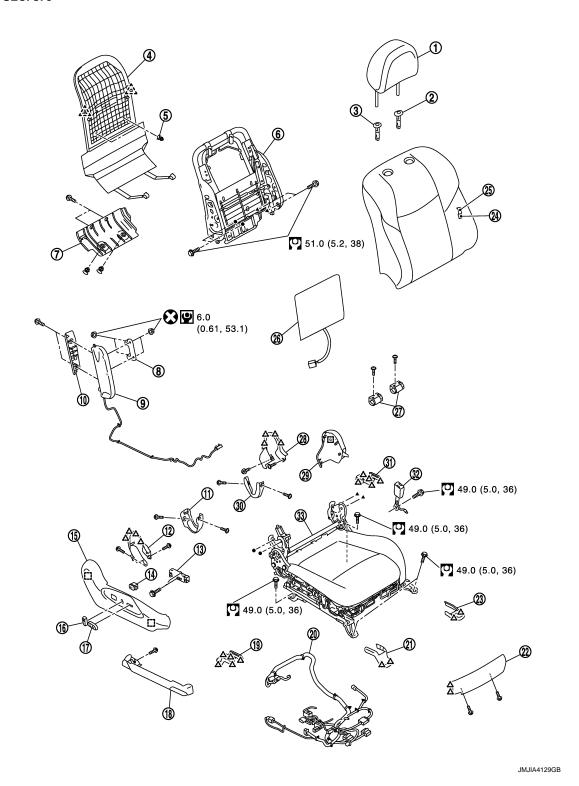
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TROIT GEAT							
< REMOVAL AND INSTALLATION >							
19.	Seat cushion lower outer finisher	20.	Seat slide and lifter switch knob	21.	Seat reclining switch knob		
22.	Seat cushion outer finisher (LH)	23.	Seat control switch	24.	Lumber support switch		
25.	Rear leg outer cover	26.	Seat cushion inner finisher (LH)	27.	Seat cushion rear finisher (LH)		
28.	Seat cushion rear finisher (RH)	29.	Seat cushion inner finisher (RH)	30.	Seat cushion thermal electric unit		
31.	Seat cushion duct	32.	Climate controlled seat blower filter	33.	Climate controlled seat blower motor		
34.	Climate controlled seat control unit	35.	Seatback duct	36.	Seatback duct		
37.	Seatback duct	38.	Seatback thermal electric unit	39.	Seat cushion rear finisher		
40.	Seatback board clip	41.	Seatback board	42.	Seat speaker (LH)		
43.	Seatback frame	44.	Side air bag module bracket	45.	Side air bag module		
46.	Side air bag module cover	47.	Seat cushion outer finisher (RH)	48.	Seat cushion lower inner finisher		
49.	Seat belt buckle	50.	Front leg inner cover	51.	Rear leg inner cover		
52.	Seat adjuster assembly						
\ <u>\</u>	: Pawl						
[]	: Metal clip						

Refer to $\underline{\mbox{GI-4, "Components"}}$ for symbols in the figure.

PASSENGER SEAT WITH SEAT HEATER

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1. Headrest

4. Seatback board

7. Seat cushion rear finisher

10. Side air bag module cover

13. Seat control switch

16. Seat reclining switch knob

2. Headrest holder (locked)

5. Seatback board clip

8. Side air bag module bracket

11. Seat cushion rear finisher (RH)

14. Lumber support switch

17. Seat slide and lifter switch knob

3. Headrest holder (free)

6. Seatback frame

9. Side air bag module

12. Seat cushion inner finisher (LH)

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15. Seat cushion outer finisher (RH)

18. Seat cushion lower outer finisher

< REMOVAL AND INSTALLATION >

19.	Rear leg outer cover	

22. Seat cushion finisher (front)

25. Seatback trim

28. Seat cushion inner finisher (LH)

31. Rear leg inner cover

^ : Pawl

23. Seatback tillii

26. Seatback heater unit

29. Seat cushion outer finisher (RH)

23. Front leg inner cover

32. Seat belt buckle

20. Seat harness

21. Front leg outer cover

24. Seatback pad

27. Seat cushion frame bracket

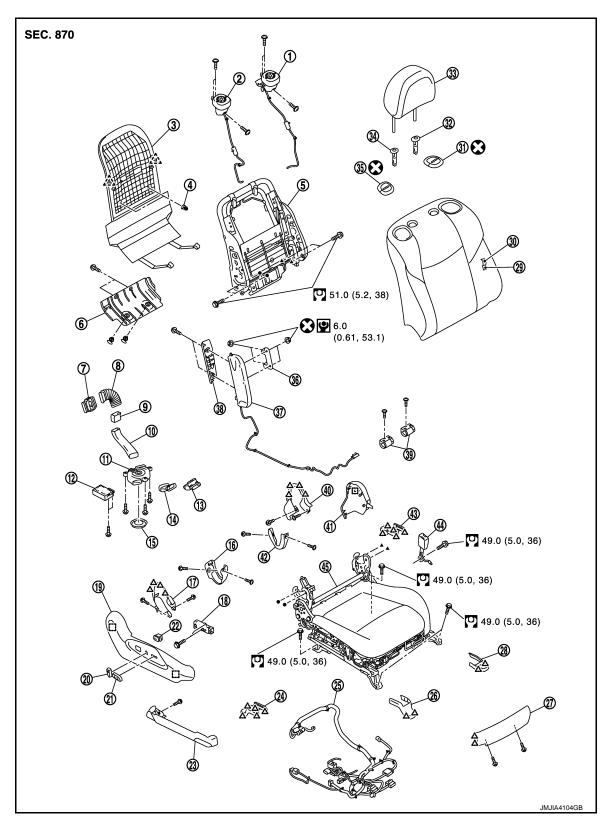
30. Seat cushion rear finisher (LH)

33. Seat cushion assembly

: Metal clip

Refer to $\underline{\mbox{GI-4, "Components"}}$ for symbols in the figure.

PASSENGER SEAT WITH SEAT SPEAKER AND CLIMATE CONTROLLED SEAT



- 1. Seat speaker (LH)
- 4. Seatback board clip
- 7. Seatback thermal electric unit
- 10. Seatback duct
- 13. Seat cushion thermal electric unit
- 16. Seat cushion rear finisher (RH)
- 2. Seat speaker (RH)
- 5. Seatback frame
- 8. Seatback duct
- 11. Climate controlled seat blower motor 12.
- 14. Seat cushion duct
- 17. Seat cushion inner finisher (LH)
- 3. Seatback board
- 6. Seat cushion rear finisher
- 9. Seatback duct
- 12. Climate controlled seat control unit
- 15. Climate controlled seat blower filter
- 18. Seat control switch

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20. Seat cushion outer finisher (RH)

23. Seat cushion lower outer finisher

26. Front leg outer cover

32. Headrest holder (locked)

38. Side air bag module cover

41. Seat cushion outer finisher (RH)

35. Seat speaker grill (RH)

29. Seatback pad

44. Seat belt buckle

< REMOVAL AND INSTALLATION >

- 19. Lumber support switch
- 22. Seat slide and lifter switch knob
- 25. Seat harness
- 28. Front leg inner cover
- 31. Seat speaker grill (LH)
- 34. Headrest holder (free)
- 37. Side air bag module
- 40. Seat cushion inner finisher (LH)
- 43. Rear leg inner cover
- ^` : Pawl
- [] : Metal clip

Refer to GI-4, "Components" for symbols in the figure.

- 21. Seat reclining switch knob
- 24. Rear leg outer cover
- 27. Seat cushion finisher (front)
- 30. Seatback trim
- 33. Headrest
- 36. Side air bag module bracket
- 39. Seat cushion frame bracket
- 42. Seat cushion rear finisher (LH)
- 45. Seat cushion assembly

Removal and Installation

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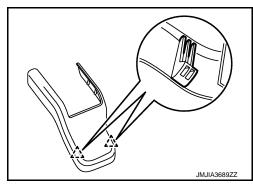
REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

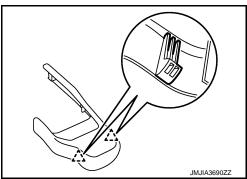
- 1. Remove the headrest.
- 2. Remove the front leg cover.
- a. Front outer leg cover
 - Slide the seat to the rearmost position.
 - Pull front leg cover outer front clips upward to disengage.
 - Slide front leg cover outer foreword to remove.





- b. Front inner leg cover
 - Slide seat to the rearmost position.
 - Pull front leg cover inner front pawls upward to disengage.
 - Slide front leg cover foreword to remove.



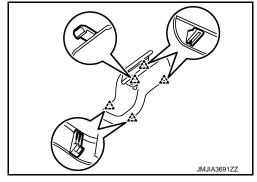


- 3. Remove mounting bolts from the front of front seat.
- Remove rear leg covers.

< REMOVAL AND INSTALLATION >

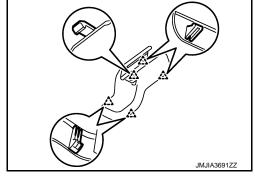
- a. Rear outer leg cover
 - Slide seat to the frontmost position.
 - Pull rear leg cover outer rear pawls upward to disengage and remove.
 - Open rear leg cover inner front, and then disengage and remove pawls.





- b. Rear inner leg cover
 - Slide the seat to the frontmost position.
 - Pull rear leg cover inner rear pawls upward to disengage and remove.
 - Open rear leg cover inner front, and then disengage and remove pawls.





- 5. Remove mounting bolts from the front seat rear side.
- Set the seatback vertically.
- 7. Remove seat cushion lower harness connector and harness clamp.

CAUTION:

Before removal, turn ignition switch OFF, disconnect battery negative terminal and then wait for at lest 3 minutes.

8. Remove the front seat from the vehicle.

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

INSTALLATION

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

CAUTION:

Always fix the harness clamp in position.

NOTE:

Perform "Operation when disconnecting battery cable from negative terminal" after connecting the battery cable to the negative terminal. Refer to <u>ADP-45</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description"</u>.

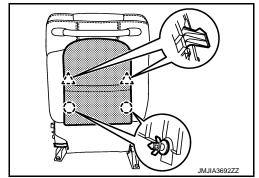
SEATBACK

SEATBACK: Disassembly and Assembly

Disassembly

- 1. Remove the seatback board.
 - 1. Pull seatback board forward. Disengage clips of lower side, and then disengage pawls.
 - 2. Pull seatback board downward. Remove seatback board.

() : Clip : Pawl



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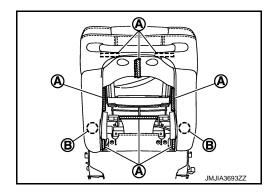
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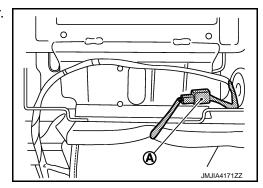
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- 2. Remove seatback trim and seatback pad.
 - 1. Remove seatback retainer (A).
 - 2. Remove mounting clips (B).



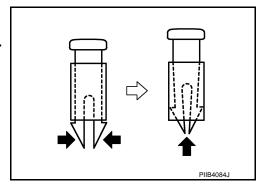
3. Disconnect the seatback heater unit harness connector. (Heated seat model only.)



4. Remove the headrest holder.

CAUTION:

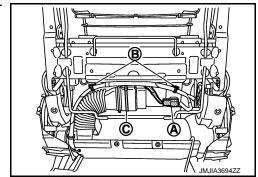
Before installing headrest holder check its orientation. (Front/rear and right/left)



- 5. Remove the side air bag module cover.
- 6. Remove the side air bag module mounting nuts. Refer to SR-17, "Removal and Installation".
- 7. Remove the speaker grill (seat with speaker only). Refer to AV-271, "Removal and Installation".
- 8. Remove the seatback trim and seatback pad from the seatback frame.

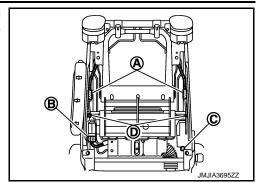
For models with seat heater, remove seatback heater unit, seatback trim, and seatback pad as a set.

- 9. Remove the hog rings, and separate the seatback trim and seatback pad.
- 3. Remove the seatback silencer.
- Remove the seatback thermal electric unit harness connector (A).
- 5. Remove the harness clips (B).
- 6. Cut mounting band (C) of seatback thermal electric unit.



< REMOVAL AND INSTALLATION >

 Disconnect seatback speaker harness connector (A), reclining motor harness connector (B), Lumbar support motor harness connector (C), and harness clip (D).



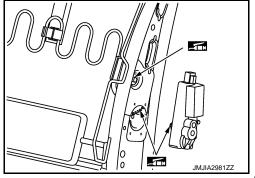
8. Remove mounting bolts, and then remove seatback frame.

Assembly

Note the following item, and then assembly in the reverse order of disassembly.

CAUTION:

- Install the hog rings of seat trim in position, and then securely connect the trim or trim cord with the pad side wire.
- Apply door regulator grease or an equivalent to shaft and gear positions of lumber support unit. (Models with power lumber support only)



SEAT CUSHION

SEAT CUSHION : Disassembly and Assembly

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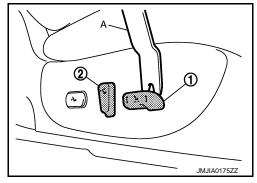
Disassembly

CAUTION:

Do not disassemble front passenger seat cushion assembly (USA/Canada model only). Always replace as an assembly.

For front passenger seat service parts, refer to the service part catalogue.

- Remove the seat cushion outer finisher.
 - 1. Remove the seat slide & lifter switch and seat reclining switch (1) knob (2) using a remover tool.



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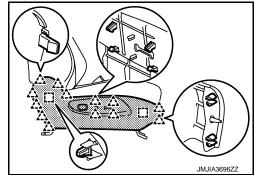
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< REMOVAL AND INSTALLATION >

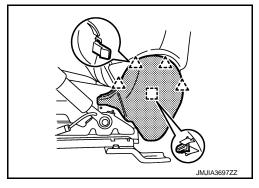
2. Pull seat cushion outer finisher forward. Disengage metal clips and pawls.



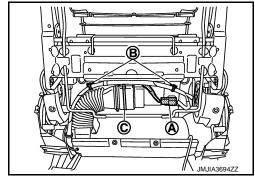


- 3. Remove the lumber support switch harness connector.
- Remove the seat cushion inner finisher.
 Pull seat cushion inner finisher forward. Disengage pawls and metal clips.

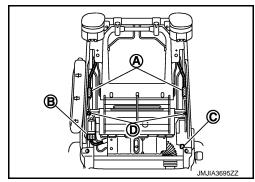




- 3. Remove the seatback trim and seatback pad from the seatback frame. Refer to <u>SE-85</u>, "<u>SEATBACK</u>: <u>Disassembly and Assembly</u>".
- 4. Remove the seatback silencer.
- 5. Remove the seatback thermal electric unit harness connector (A).
- 6. Remove the harness clips (B).
- 7. Cut mounting band (C) of seatback thermal electric unit.

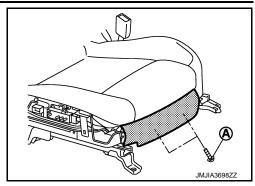


8. Disconnect seatback speaker harness connector (A), reclining motor harness connector (B), lumber support motor harness connector (C), and harness clip (D).

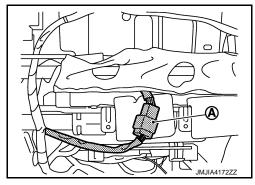


< REMOVAL AND INSTALLATION >

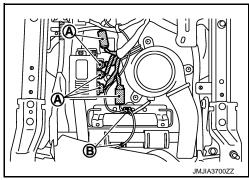
Remove the mounting screw (A). Remove the seat cushion front finisher.



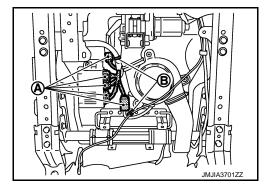
- 10. Remove the seat cushion rear finisher.
- 11. Disconnect the seatback heater unit harness connector. (Heated seat model only.)



- 12. Disconnect harness connector (A) and harness clip (B) of seat cushion frame lower.
 - · Driver's seat



· Passenger's seat



- 13. Remove the mounting nut and screw. Remove seat cushion frame.
- 14. Remove the thermal electric unit from seat cushion frame.
- 15. Remove the seat cushion trim and seat cushion pad.
 - 1. Remove the seat cushion retainer.
 - 2. Remove the seat cushion trim and seat cushion pad from the seat cushion frame. **NOTE:**

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< REMOVAL AND INSTALLATION >

For models with seat heater, remove seat cushion heater unit, seat cushion trim, and seat cushion pad as a set.

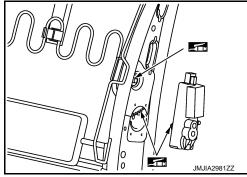
- 3. Remove the hog rings, and separate the seat cushion trim and seat cushion pad.
- 16. Remove the following parts from seat adjuster assembly.
 - Seat cushion inner finisher
 - Seat cushion rear finisher
 - Seat cushion outer finisher lower
 - Seat belt buckle: Refer to SB-10, "SEAT BELT BUCKLE: Removal and Installation".

Assembly

Note the following item, and then assembly in the reverse order of disassembly.

CAUTION:

- Install the hog rings of seat trim in position, and then securely connect the trim or trim cord with the pad side wire.
- Apply door regulator grease or an equivalent to shaft and gear positions of lumber support unit. (Models with power lumber support only)



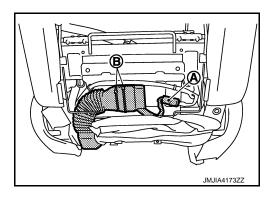
CLIMATE CONTROLLED SEAT UNIT

CLIMATE CONTROLLED SEAT UNIT: Disassembly and Assembly

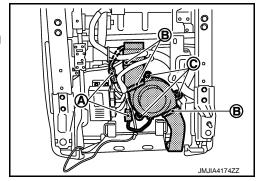
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Disassembly

- 1. Remove the seatback duct and seatback thermal electric unit.
 - 1. Remove the harness connector (A).
 - 2. Remove the band (B).

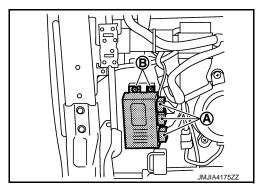


- 2. Remove the seatback duct.
- Remove the seat cushion duct, seat cushion thermal electric unit and climate controlled seat blower motor.
 - 1. Disconnect the harness connectors (A).
 - 2. Remove the band (B)
 - 3. Remove the climate controlled seat blower motor mounting screws (C).



< REMOVAL AND INSTALLATION >

- 4. Remove the seat cushion duct.
- 5. Remove the climate controlled seat control unit.
 - 1. Disconnect the harness connectors (A).
 - 2. Remove the climate controlled seat control unit mounting screws (B).



Assembly

Assemble in the reverse order of disassembly.

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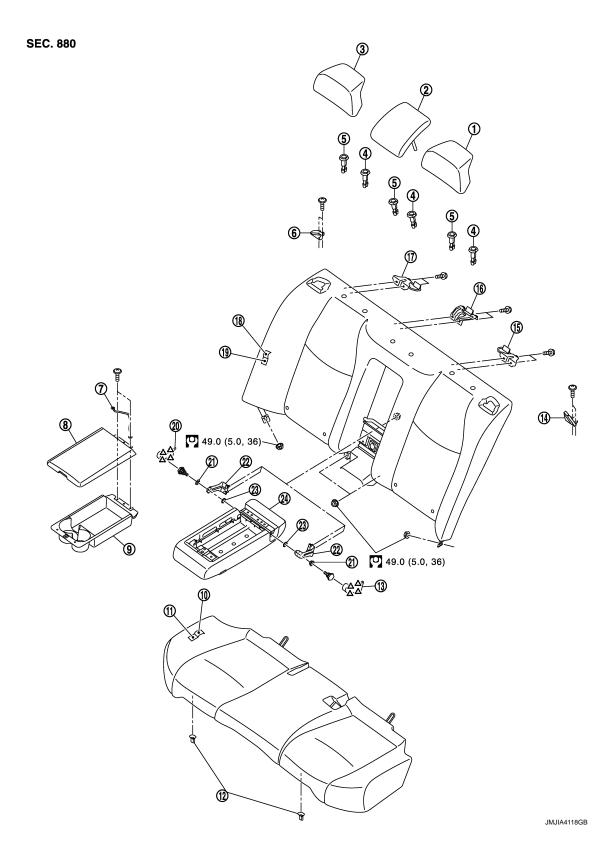
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REAR SEAT

Exploded View



- 1. Headrest (LH)
- 4. Headrest holder (locked)
- 7. Earth wire

- 2. Center headrest
- 5. Headrest holder (free)
- 8. Center armrest lid
- 3. Headrest (RH)
- 6. Seat belt guide (RH)
- 9. Center armrest try & tray

REAR SEAT

< REMOVAL AND INSTALLATION >

						_		
10.	Seat cushion trim	11.	Seat cushion pad	12.	Seat cushion hook	_		
13.	Center armrest hinge escutcheon (LH)	14.	Seat belt guide (LH)	15.	Seatback bracket (LH)	Α		
16.	Center seatback bracket	17.	Seatback bracket (LH)	18.	Seatback trim			
19.	Seatback pad	20.	Center armrest hinge escutcheon (RH)	21.	Center armrest bush	В		
22.	Center armrest hinge	23.	Center armrest washer	24.	Center armrest trim & pad			
<u> </u>	pawl					С		
Refer to GI-4, "Components" for symbols in the figure.								

Removal and Installation

INFOID:0000000006886764

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- Lift up seat cushion. Disengage seat cushion hook. Remove seat cushion.
- Remove all rear headrests.
- Remove mounting nuts of seatback.
- 4. Lift up seatback, release wire on back of seatback from seatback hook and then remove seatback.
- 5. Remove mounting nuts from back of seatback. Remove center armrest.

INSTALLATION

Install in the reverse order of removal.

Disassembly and Assembly

INFOID:0000000006886765

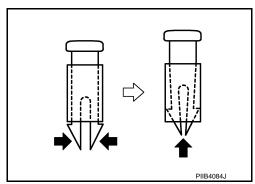
SEATBACK

DISASSEMBLY

- Remove mounting bolts, and then remove seat belt guide LH and RH.
- 2. Remove mounting bolts. Remove seatback bracket (LH), seatback bracket (RH) and center seatback bracket.
- Remove the headrest holder.

CAUTION:

Before installing headrest holder check its orientation. (front/rear and right/left)



4. Remove hog rings and remove seatback trim from seatback pad.

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

Install the hog rings of seat trim in position, and then securely connect the trim or trim cord with the pad side wire.

SEAT CUSHION

DISASSEMBLY

Remove hog rings and remove seat cushion trim from seat cushion pad.

ASSEMBLY

Assemble in the reverse order of disassembly.

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REAR SEAT

< REMOVAL AND INSTALLATION >

CAUTION:

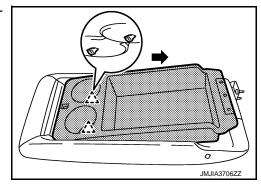
Install the hog rings of seat trim in position, and then securely connect the trim or trim cord with the pad side wire.

ARMREST

DISASSEMBLY

- 1. Remove mounting screws. Remove center armrest lid.
- 2. Slide center armrest tray & box. Disengage pawls. Remove center armrest tray & box.





- 3. Remove center armrest hinge escutcheon.
- 4. Remove mounting bolts. Remove center armrest hinge.

ASSEMBLY

Assemble in the reverse order of disassembly.

POWER SEAT SWITCH

< REMOVAL AND INSTALLATION > POWER SEAT SWITCH Α **Exploded View** INFOID:0000000006886766 Refer to SE-77, "Exploded View". В Removal and Installation INFOID:0000000006886767 **REMOVAL CAUTION:** When removing and installing, use shop cloths to protect parts from damage. D 1. Remove front seat. Refer to SE-84, "Removal and Installation". 2. Remove seat cushion outer finisher. Refer to SE-87, "SEAT CUSHION: Disassembly and Assembly". Е 3. Disconnect power seat switch connector. 4. Remove screws. 5. Remove power seat switch from seat cushion outer finisher. F NOTE: The same procedure is also performed for passenger side. INSTALLATION Install in the reverse order of removal. **CAUTION:** Н Always clamp the harness to the right place. SE L M

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HEATED SEAT SWITCH

< REMOVAL AND INSTALLATION >

HEATED SEAT SWITCH

Exploded View

Refer to IP-23, "Exploded View".

Removal and Installation

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- Remove console finisher assembly from center console assembly. Refer to <u>IP-24, "Removal and Installation"</u>.
- 2. Remove console indicator finisher from console finisher assembly. Refer to IP-27, "Disassembly and Assembly".
- 3. Disconnect heated seat switch connector.
- 4. Remove heated seat switch from switch panel using remover tool.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

CLIMATE CONTROLLED SEAT SWITCH

< REMOVAL AND INSTALLATION >

CLIMATE CONTROLLED SEAT SWITCH

Exploded View INFOID:0000000006886770

Refer to IP-23, "Exploded View".

Removal and Installation INFOID:0000000006886771

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- Remove console finisher assembly from center console assembly. Refer to IP-24, "Removal and Installation".
- 2. Remove console indicator finisher from console finisher assembly. Refer to IP-27, "Disassembly and Assembly".
- Disconnect climate controlled seat switch connector.
- 4. Remove climate controlled seat switch from switch panel using a remover tool.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Always clamp the harness to the right place.

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CLIMATE CONTROLLED SEAT BLOWER FILTER

< REMOVAL AND INSTALLATION >

CLIMATE CONTROLLED SEAT BLOWER FILTER

Exploded View

Refer to SE-77, "Exploded View".

Removal and Installation

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove front seat. Refer to SE-84, "Removal and Installation".
- 2. Turn blower filter counter clockwise and remove it from climate controlled seat cushion blower motor.

NOTE:

The same procedure is also performed for passenger side.

INSTALLATION

Install in the reverse order of removal.