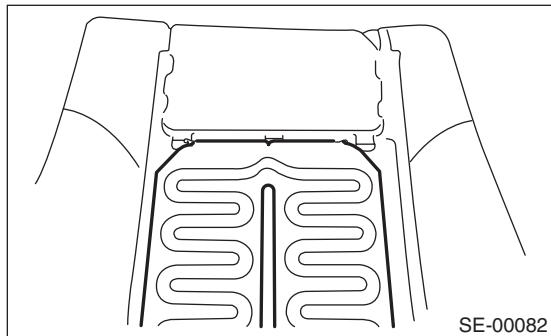


## 4. Seat Heater System

### A: REMOVAL

#### 1. SEAT HEATER MODULE

- 1) Remove the front seats. <Ref. to SE-6, REMOVAL, Front Seat.>
- 2) Remove the backrest cover of front seat and seat cushion cover. <Ref. to SE-6, DISASSEMBLY, Front Seat.>
- 3) Remove the seat heater module.



#### 2. SEAT HEATER SWITCH

- 1) Remove the console box. <Ref. to EI-51, REMOVAL, Console Box.>
- 2) Remove the seat heater switch from the console box.

### B: INSTALLATION

Install each part in the reverse order of removal.

### C: INSPECTION

#### 1. WIRING DIAGRAM

Refer to "Seat Heater System" in the wiring diagram. <Ref. to WI-88, WIRING DIAGRAM, Seat Heater System.>

### 2. DIAGNOSTIC CHART

- Models with SI-DRIVE

Symptoms	Repair order
	1. Check the fuse. <Ref. to SE-17, CHECK SEAT HEATER FUSE, INSPECTION, Seat Heater System.>
	2. Check the seat heater system power supply and ground circuit. <Ref. to SE-18, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Seat Heater System.>
Seat heater does not operate.	3. Check the thermistor circuit. <Ref. to SE-18, CHECK THERMISTOR CIRCUIT, INSPECTION, Seat Heater System.>
	4. Check the seat heater switch circuit. <Ref. to SE-18, CHECK SEAT HEATER SWITCH, INSPECTION, Seat Heater System.>
	5. Check the seat heater module. <Ref. to SE-18, CHECK SEAT HEATER MODULE, INSPECTION, Seat Heater System.>

- Models without SI-DRIVE

Symptoms	Repair order
	1. Check the fuse. <Ref. to SE-17, CHECK SEAT HEATER FUSE, INSPECTION, Seat Heater System.>
	2. Check the seat heater system power supply and ground circuit. <Ref. to SE-19, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Seat Heater System.>
Seat heater does not operate.	3. Check the seat heater switch circuit. <Ref. to SE-19, SEAT HEATER SWITCH, INSPECTION, Seat Heater System.>
	4. Check the seat heater module. <Ref. to SE-18, CHECK SEAT HEATER MODULE, INSPECTION, Seat Heater System.>

### 3. CHECK SEAT HEATER FUSE

Remove the seat heater fuse, and then visually check.

Is the fuse blown out?

- Yes → Replace the fuse.
- No → Check the power supply and ground circuit.

### 4. CHECK POWER SUPPLY AND GROUND CIRCUIT

#### 1) CHECK POWER SUPPLY CIRCUIT.

- (1) Disconnect the connector of seat heater switch.
- (2) Turn the ignition switch to ON.
- (3) Measure the voltage between harness connector terminal and chassis ground.

#### Connector & terminal

##### (AD8) No. 12 (+) — Chassis ground (-):

Is the voltage 12 V or more?

- Yes → Go to symptom 2.
- No → Check the harness between the seat heater switch and fuse.

#### 2) Check ground circuit

Measure the resistance between harness connector terminal and chassis ground.

#### Connector & terminal

##### (AD8) No. 2 — Chassis ground:

Is the resistance less than 10 Ω?

- Yes → Go to symptom 3.
- No → Repair the harness.

#### 3) Check ground circuit

Measure the resistance between seat heater switch terminals.

#### Connector & terminal

##### (AD8) No. 1 — (AD8) No. 2:

##### (AD8) No. 3 — (AD8) No. 2:

Is the resistance less than 10 Ω?

- Yes → The power supply and ground circuit are normal.
- No → Replace the seat heater switch.

### 5. CHECK THERMISTOR CIRCUIT

Measure the resistance between harness connector terminals.

#### Connector & terminal

##### Check LHD side

##### (AD8) No. 8 — (AD8) No. 3:

##### Check RHD side

##### (AD8) No. 6 — (AD8) No. 1:

Is the resistance between 1 kΩ and 200 kΩ?

- Yes → Thermistor circuit is normal
- No → Harness faulty or thermistor faulty

### 6. CHECK SEAT HEATER SWITCH

#### 1) Check thermistor output voltage.

- (1) Connect the seat heater switch connector.
- (2) Turn the ignition switch to ON.
- (3) Measure the voltage between the seat heater switch and chassis ground.

#### Connector & terminal:

##### LHD side seat

##### (AD8) No. 8 (+) — Chassis ground (-):

##### RHD side seat

##### (AD8) No. 6 (+) — Chassis ground (-):

Is the voltage 1.5 V or more?

- Yes → Go to symptom 2.
- No → Replace the seat heater switch.

#### 2) Check output voltage.

- (1) Turn the ignition switch to ON.

(2) Measure the voltage between the seat heater switch and chassis ground when turning the switch to a position other than OFF.

#### Connector & terminal:

##### LHD side seat

##### (AD8) No. 9 (+) — Chassis ground (-):

##### RHD side seat

##### (AD8) No. 7 (+) — Chassis ground (-):

Does the voltage repeat 12 V ↔ 0 V?

- Yes → The harness or thermistor is faulty, or the heater has an open circuit.
- No → Replace the seat heater switch.

### 7. CHECK SEAT HEATER MODULE

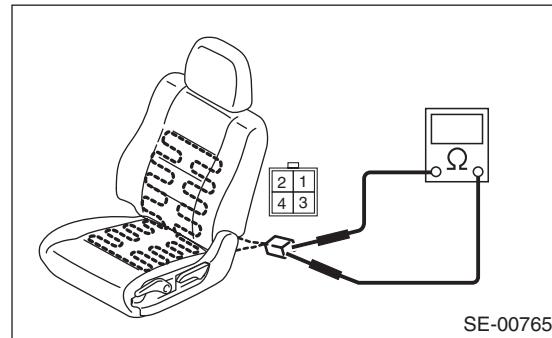
#### 1) Disconnect the seat heater module connector, and check the continuity between terminals of connector.

#### Connector & terminal

##### No. 1 — No. 3:

##### No. 1 — No. 4:

##### No. 3 — No. 4:



Is there continuity between connector terminals?

- **Continuity exists.** →

Seat heater module is normal. If there is a malfunction, check the seat heater switch and vehicle body side harness.

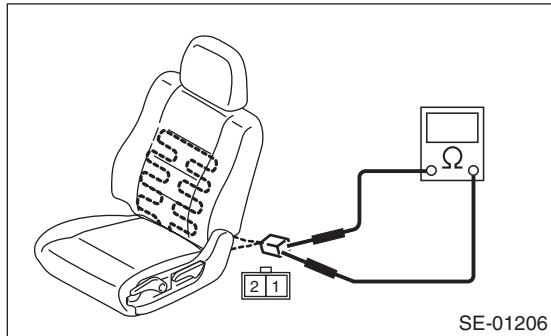
- **Continuity does not exist.** →

**No. 1 — No. 3:** → Go to step 2).

**No. 1 — No. 4:** → Go to step 2).

**No. 3 — No. 4:** → Replace the seat heater module of seat cushion side.

2) Disconnect the seat heater module of backrest side, and check the continuity between connector terminals of the seat heater module unit of backrest side.



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Is there continuity between connector terminals?

- **Continuity exists.** →

Replace the seat heater module of seat cushion side.

- **Continuity does not exist.** →

Replace the seat heater module of backrest side.

## 8. CHECK POWER SUPPLY AND GROUND CIRCUIT

1) Check power supply circuit.

- (1) Disconnect the connector of seat heater switch.
- (2) Turn the ignition switch to ON.
- (3) Measure the voltage between harness connector terminal and chassis ground.

### Connector & terminal

**(R42) No. 2 (+) — Chassis ground (-):**

**(R43) No. 2 (+) — Chassis ground (-):**

Is the voltage 12 V or more?

- Yes → Go to symptom 2.
- No → Check the harness between the seat heater switch and fuse.

2) Check ground circuit.

Measure the resistance between harness connector terminal and chassis ground.

### Connector & terminal

**(R42) No. 3 — Chassis ground:**

**(R43) No. 3 — Chassis ground:**

Is the resistance less than  $10\ \Omega$ ?

- Yes → Go to symptom 3.
- No → Repair the harness.

3) Check ground circuit.

Measure the resistance between seat heater switch terminals.

### Connector & terminal

**(R42) No. 2 — (R42) No. 3:**

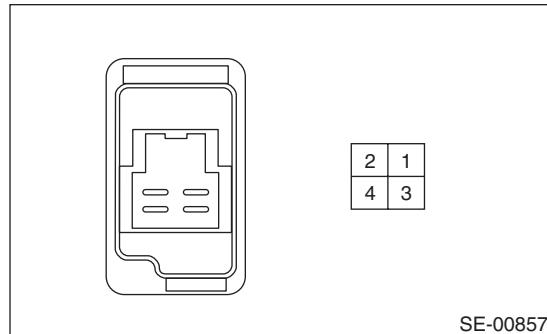
**(R43) No. 2 — (R43) No. 3:**

Is the resistance less than  $10\ \Omega$ ?

- Yes → The power supply and ground circuit are normal.
- No → Replace the seat heater switch.

## 9. SEAT HEATER SWITCH

1) Inspect the continuity between the seat heater switch terminals.



SE-00857

### Connector & terminal

**HI**

**No. 2 — No. 1:**

**No. 2 — No. 3:**

**No. 1 — No. 3:**

**No. 4 — No. 3:**

**LOW**

**No. 2 — No. 4:**

**No. 2 — No. 3:**

**No. 4 — No. 3:**

2) If no continuity exists, replace the seat heater switch with a new part.

## **Seat Heater System**

SEATS

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# SECURITY AND LOCKS

**SL**

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