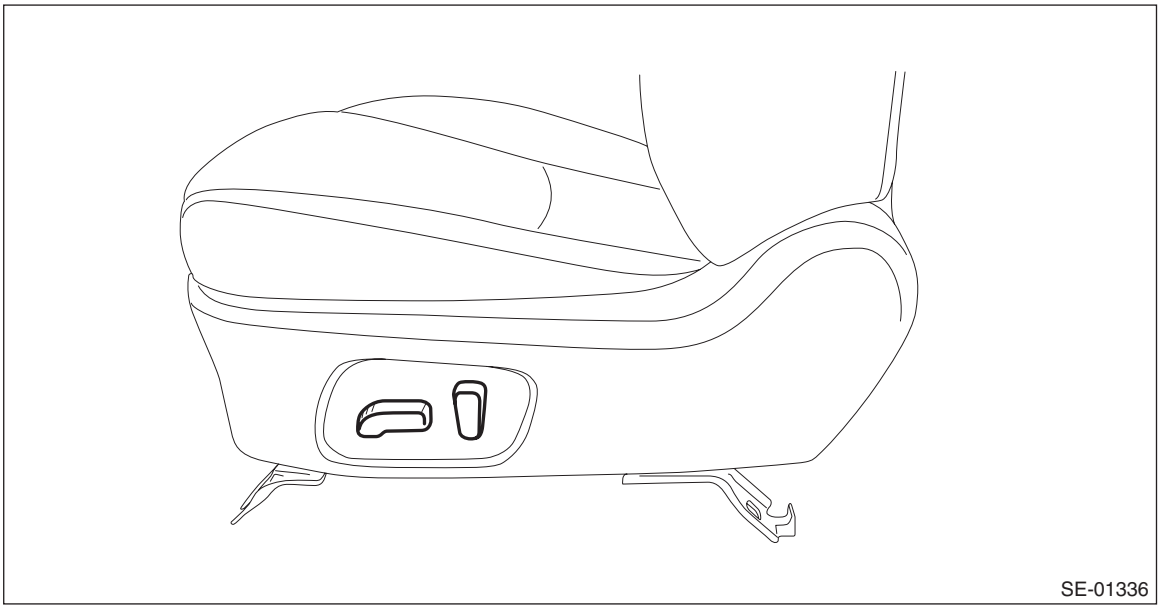
4. Power Seat System

A: REMOVAL

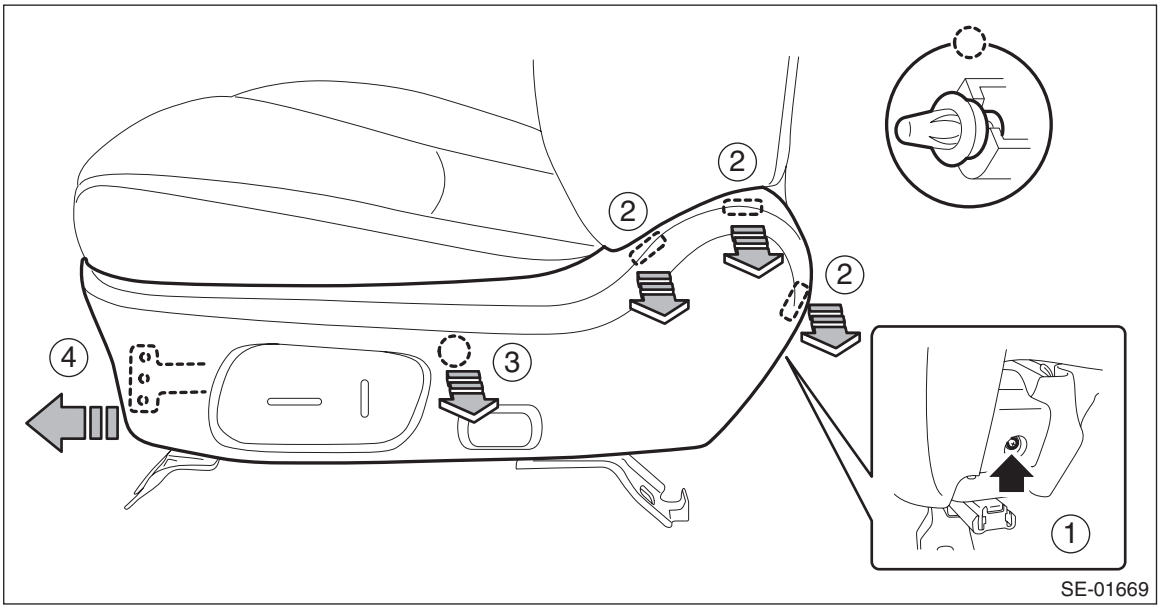
CAUTION:
When removing the front seat, disconnect the ground cable from the battery before disconnecting the side airbag module harness connector, and wait for 60 seconds before starting the operation.

1. POWER SEAT SWITCH

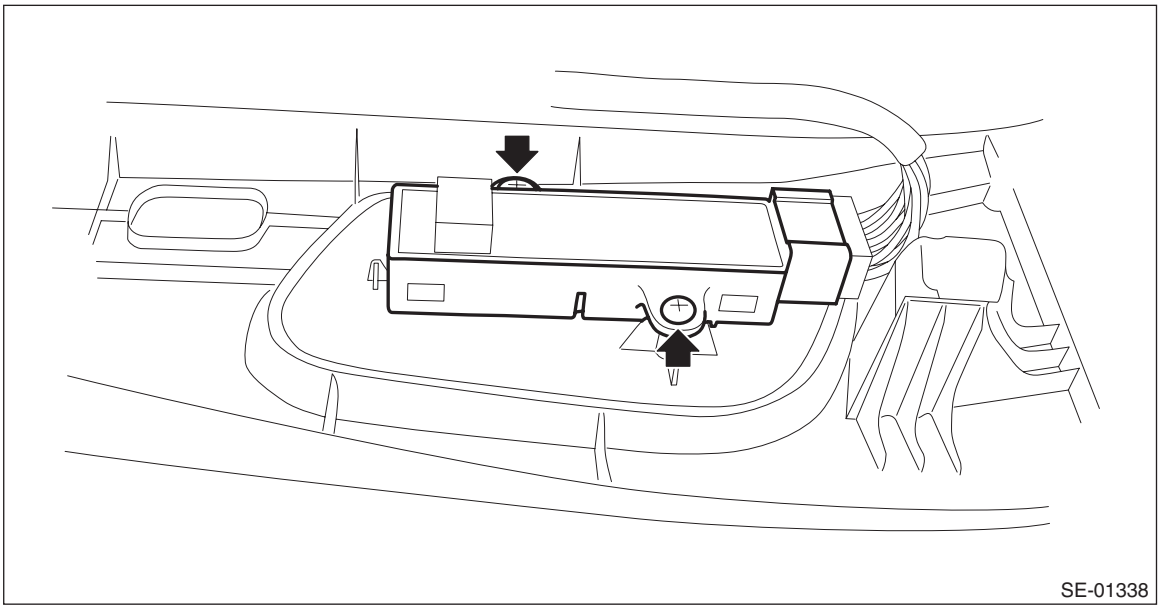
1) Remove the seat from vehicle. <Ref. to SE-9, REMOVAL, Front Seat.>
2) Remove the knob - power seat.



3) Remove the cover - hinge front seat OUT.
   (1) Remove the screws in the rear section of the cover - hinge front seat OUT.
   (2) Release the claw in the upper section of the cover - hinge front seat OUT.
   (3) Remove the clip, and release the claws in the front section of the cover - hinge front seat OUT.
   (4) Disconnect the power seat switch connector, and remove the cover - hinge front seat OUT.



4) Remove the screws to remove the power seat switch assembly.



B: INSTALLATION

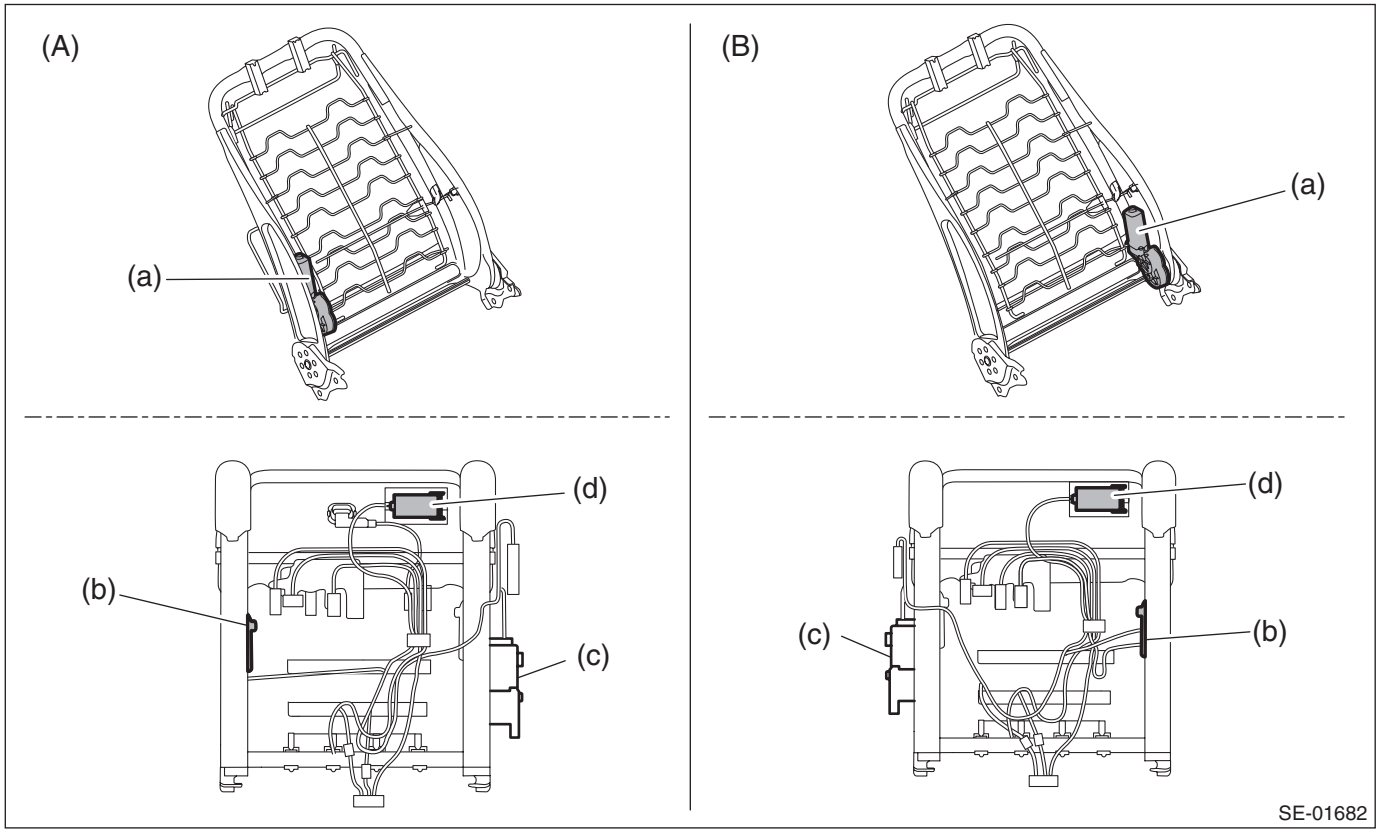
1) Install the power seat switch assembly.
2) Install the cover - hinge front seat OUT.
3) Install the knob - power seat.
4) Install the seat assembly. <Ref. to SE-10, INSTALLATION, Front Seat.>

C: INSPECTION

1. WIRING DIAGRAM

Refer to “Power Seat” in WI section. <Ref. to WI-322, WIRING DIAGRAM, Power Seat System.>

2. NOTE



(A) Driver's seat
(B) Passenger's seat

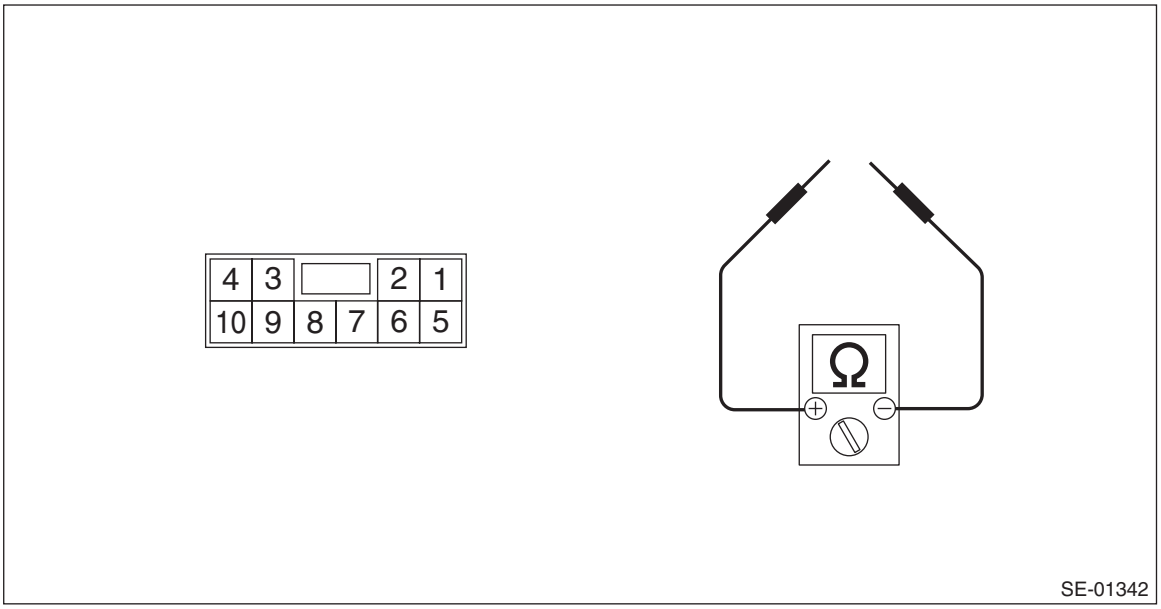
(a) Reclining motor
(b) Lifter motor
(c) Tilt motor
(d) Slide motor

3. TROUBLE SYMPTOM

Symptoms	Criteria
All functions do not operate. <Ref. to SE-43, ALL FUNCTIONS DO NOT OPERATE, INSPECTION, Power Seat System.>	• Power seat switch • Power seat harness • Body harness
A part of function does not operate. <Ref. to SE-43, SOME MOTORS DO NOT OPERATE, INSPECTION, Power Seat System.>	• Power seat switch • Power seat harness • Relevant motor

4. CHECK POWER SEAT SWITCH

Measure resistance between terminals while operating each switch.



Switch position	Terminal No.	Standard
Slide forward	1 and 8 4 and 7	Less than 10 Ω
Slide rearward	1 and 7 4 and 8	Less than 10 Ω
Tilt up	1 and 3 2 and 4	Less than 10 Ω
Tilt down	1 and 2 3 and 4	Less than 10 Ω
Lifter up	1 and 6 4 and 9	Less than 10 Ω
Lifter down	1 and 9 4 and 6	Less than 10 Ω
Reclining forward	1 and 10 4 and 5	Less than 10 Ω
Reclining rearward	1 and 5 4 and 10	Less than 10 Ω

Replace the power seat switch if the inspection result is not within the standard value.

5. ALL FUNCTIONS DO NOT OPERATE

	Step	Check	Yes	No
1	**CHECK SEAT FUNCTIONS.** Operate each power seat switch and check that each power seat function operates normally.	Does all function fail to operate?	Go to step **2**.	Check the motor which does not operate. <Ref. to SE-43, SOME MOTORS DO NOT OPERATE, INSPECTION, Power Seat System.>
2	**CHECK FUSE.** Check the power seat fuse inside the fuse box.	Is the fuse blown out?	Replace the appropriate fuse.	Go to step **3**.
3	**CHECK POWER SUPPLY CIRCUIT.** 1) Disconnect the connector of power seat switch assembly. 2) Measure the voltage between harness connector and chassis ground. ***Connector & terminal*** ***(R200) No. 1 (+) — Chassis ground (–):***	Is the voltage 10 V or more?	Go to step **4**.	Check body harness.
4	**CHECK POWER SUPPLY CIRCUIT.** Measure the resistance between power seat switch harness connector and chassis ground. ***Connector & terminal*** ***(R200) No. 1 — Chassis ground:***	Is the resistance less than 10 Ω?	Replace the power seat switch assembly.	Check body harness.

6. SOME MOTORS DO NOT OPERATE

- **Slide operation failure**

	Step	Check	Yes	No
1	**CHECK SWITCH.** 1) Disconnect the connector of power seat switch assembly. 2) Measure the resistance between connector terminals when moving the switch to slide forward and slide backward. <Ref. to SE-42, CHECK POWER SEAT SWITCH, INSPECTION, Power Seat System.>	Is the inspection result normal?	Go to step **2**.	Replace the power seat switch assembly.
2	**CHECK HARNESS.** 1) Disconnect the power seat switch connector and slide motor connector. 2) Measure the resistance between power seat switch connector and slide motor connector. ***Connector & terminal*** ***(R200) No. 8 — (R202) No. 5:*** ***(R200) No. 7 — (R202) No. 1:***	Is the resistance less than 10 Ω?	Go to step **3**.	Check power seat harness.
3	**CHECK SLIDE MOTOR.** 1) Connect the power seat switch connector and slide motor connector. 2) Apply 12 V to the slide motor and check the motor rotation. ***Connector & terminal*** ***(R202) No. 5 (+) — (R202) No. 1 (–):*** ***(R202) No. 1 (+) — (R202) No. 5 (–):***	Does the motor rotate normally?	Check for temporary poor contact or mechanical trouble in slide rail.	Slide motor problem. Replace the seat cushion frame assembly.

- **Malfunction of tilt operation**

	Step	Check	Yes	No
1	**CHECK SWITCH.** 1) Disconnect the connector of power seat switch assembly. 2) Measure the resistance between connector terminals when moving the switch to tilt up and tilt down. <Ref. to SE-42, CHECK POWER SEAT SWITCH, INSPECTION, Power Seat System.>	Is the inspection result normal?	Go to step **2**.	Replace the power seat switch assembly.
2	**CHECK HARNESS.** 1) Disconnect the power seat switch connector and tilt motor connector. 2) Measure the resistance between power seat switch connector and tilt motor connector. ***Connector & terminal*** ***(R200) No. 3 — (R203) No. 4:*** ***(R200) No. 2 — (R203) No. 6:***	Is the resistance less than 10 Ω?	Go to step **3**.	Check power seat harness.
3	**CHECK TILT MOTOR.** 1) Connect the power seat switch connector and tilt motor connector. 2) Apply 12 V to the tilt motor and check the motor rotation. ***Connector & terminal*** ***(R203) No. 4 (+) — (R203) No. 6 (–):*** ***(R203) No. 6 (+) — (R203) No. 4 (–):***	Does the motor rotate normally?	Check for temporary poor contact or mechanical trouble in tilt mechanism.	Tilt motor problem. Replace the seat cushion frame assembly.

- **Malfunction of lifter operation**

	Step	Check	Yes	No
1	**CHECK SWITCH.** 1) Disconnect the connector of power seat switch assembly. 2) Measure the resistance between connector terminals when moving the switch to lifter up and lifter down. <Ref. to SE-42, CHECK POWER SEAT SWITCH, INSPECTION, Power Seat System.>	Is the inspection result normal?	Go to step **2**.	Replace the power seat switch assembly.
2	**CHECK HARNESS.** 1) Disconnect the power seat switch connector and lifter motor connector. 2) Measure the resistance between power seat switch connector and lifter motor connector. ***Connector & terminal*** ***(R200) No. 6 — (R204) No. 6:*** ***(R200) No. 9 — (R204) No. 4:***	Is the resistance less than 10 Ω?	Go to step **3**.	Check power seat harness.
3	**CHECK LIFTER MOTOR.** 1) Connect the power seat switch connector and lifter motor connector. 2) Apply 12 V voltage to the lifter motor and check the motor rotation. ***Connector & terminal*** ***(R204) No. 2 (+) — (R204) No. 1 (–):*** ***(R204) No. 1 (+) — (R204) No. 2 (–):***	Does the motor rotate normally?	Check for temporary poor contact or mechanical trouble in lifter mechanism.	Lifter motor problem. Replace the seat cushion frame assembly.

- **Malfunction of reclining operation**

	Step	Check	Yes	No
1	**CHECK SWITCH.** 1) Disconnect the connector of power seat switch assembly. 2) Measure the resistance between connector terminals when moving the switch to reclining forward and reclining backward. <Ref. to SE-42, CHECK POWER SEAT SWITCH, INSPECTION, Power Seat System.>	Is the inspection result normal?	Go to step **2**.	Replace the power seat switch assembly.
2	**CHECK HARNESS.** 1) Disconnect the power seat switch connector and reclining motor connector. 2) Measure the resistance between power seat switch connector and reclining motor connector. ***Connector & terminal*** ***(R200) No. 10 — (R201) No. 6:*** ***(R200) No. 5 — (R201) No. 4:***	Is the resistance less than 10 Ω?	Go to step **3**.	Check power seat harness.
3	**CHECK RECLINING MOTOR.** 1) Connect the power seat switch connector and reclining motor connector. 2) Apply 12 V voltage to the reclining motor and check the motor rotation. ***Connector & terminal*** ***(R201) No. 6 (+) — (R201) No. 4 (–):*** ***(R201) No. 4 (+) — (R201) No. 6 (–):***	Does the motor rotate normally?	Check for temporary poor contact or mechanical trouble in reclining hinge.	Reclining motor problem. Replace the backrest frame assembly.