

SEAT BELT SYSTEM

SB

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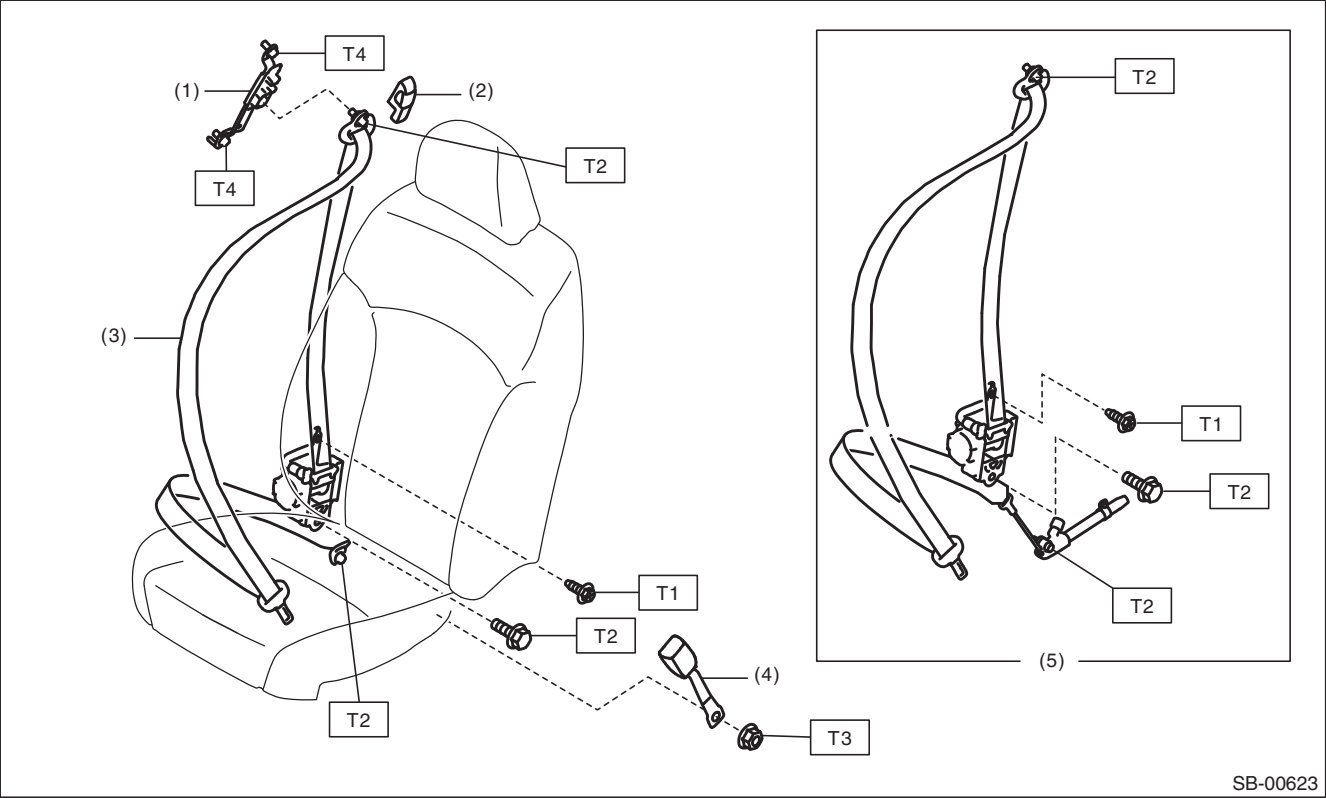
General Description

SEAT BELT SYSTEM

1. General Description

A: COMPONENT

1. FRONT SEAT BELT



- | | |
|-------------------------------|--|
| (1) Adjuster ASSY - seat belt | (4) Seat belt inner - front |
| (2) Cover through | (5) Seat belt outer - front (lap seat belt pretensioner - passenger's side only) |
| (3) Seat belt outer - front | |

Tightening torque: N-m (kgf-m, ft-lb)

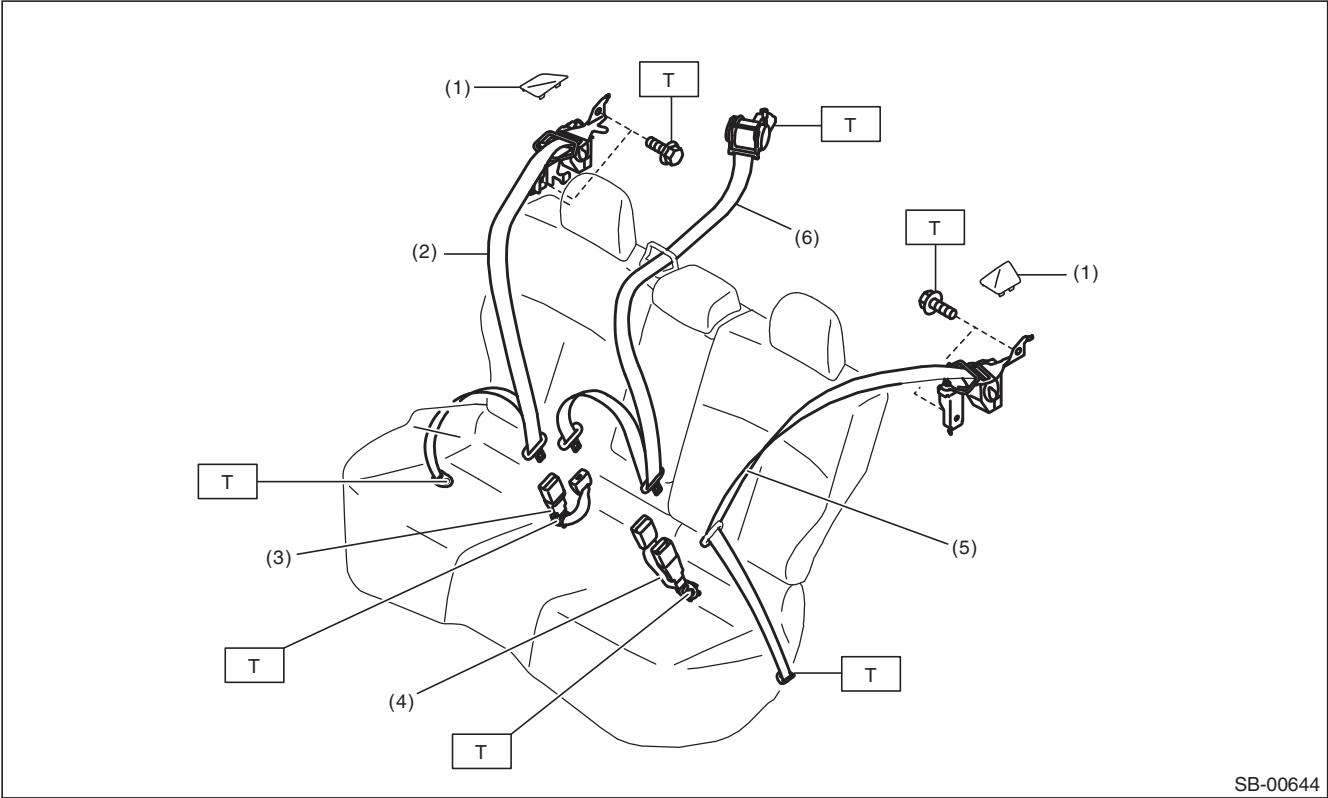
T1: 7.5 (0.76, 5.5)

T2: 30 (3.06, 22.1)

T3: 38 (3.87, 28.0)

T4: 53 (5.40, 39.1)

2. REAR SEAT BELT



- | | |
|-------------------------------|-----------------------------------|
| (1) Cap - belt | (4) Seat belt - CTR LH |
| (2) Seat belt outer - rear RH | (5) Seat belt outer - rear LH |
| (3) Seat belt - CTR RH | (6) Seat belt - rear shoulder CTR |

Tightening torque: N-m (kgf-m, ft-lb)
T: 30 (3.06, 22.1)

General Description

SEAT BELT SYSTEM

B: CAUTION

- Before starting the work, turn the ignition switch to OFF, disconnect the battery ground cable and wait for 60 seconds or more.
- The pretensioner system is fitted with a backup power supply. After disconnecting the battery ground cable, the pretensioner may operate if you do not wait for 60 seconds or more before starting pretensioner system servicing.
- Do not drop or apply any impact to the pretensioner.
- If oil, grease or water gets on the pretensioner, wipe it off immediately with a dry cloth.
- Do not expose the pretensioner to high temperature or flame.
- Do not allow current to flow through or voltage to reach the pretensioner. Do not use a circuit tester to check resistance of the pretensioner.
- Do not disassemble or attempt to repair the pretensioner. If it is dented, cracked or deformed, replace it with a new genuine part.
- Do not use the airbag or pretensioner parts from other vehicles. Always use a new genuine part for replacement.
- When handling a seat belt with deployed pretensioner, wear gloves and goggles. Wash your hands afterwards.
- Do not reuse a seat belt with deployed pretensioner.
- Before disposal, make sure to perform an operation process to the pretensioners.
- If material from the pretensioner enters the eyes or contacts skin during operation process, wash it away with clean water, and then consult a doctor.

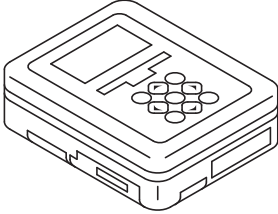
General Description

SEAT BELT SYSTEM

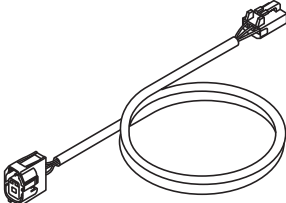
C: PREPARATION TOOL

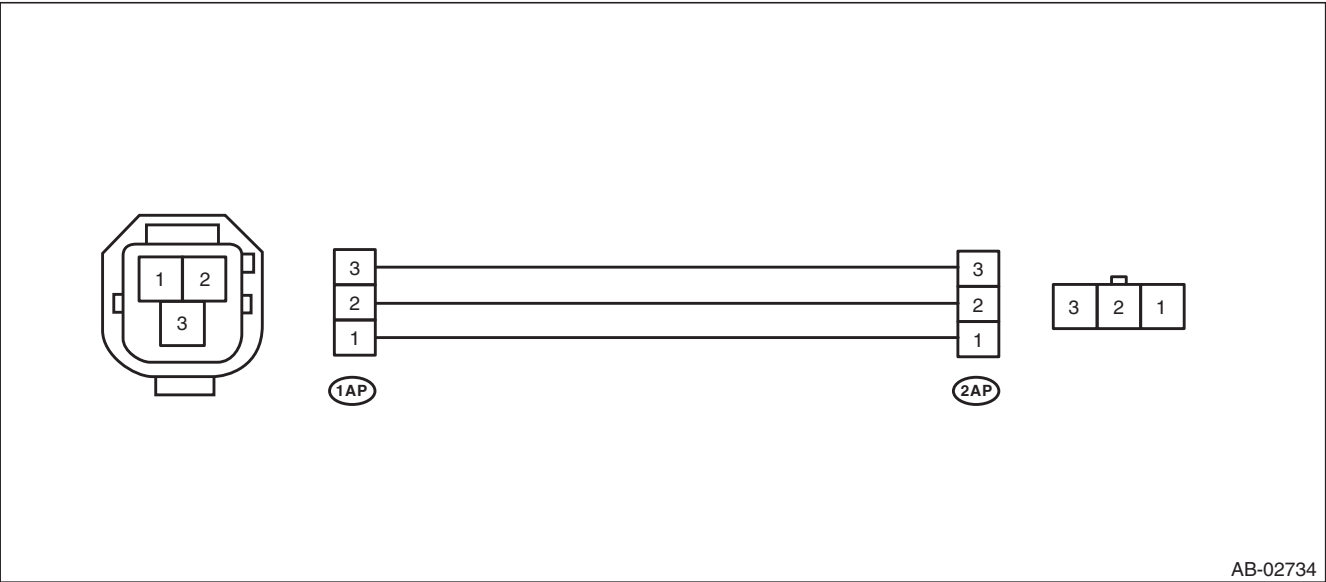
1. SPECIAL TOOL

- Subaru Select Monitor

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for setting of each function and trouble-shooting for electrical system.

- TEST HARNESS AP

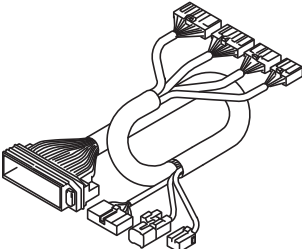
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299FJ030	98299FJ030	TEST HARNESS AP	Used when measuring voltage and resistance of occupant detection system.

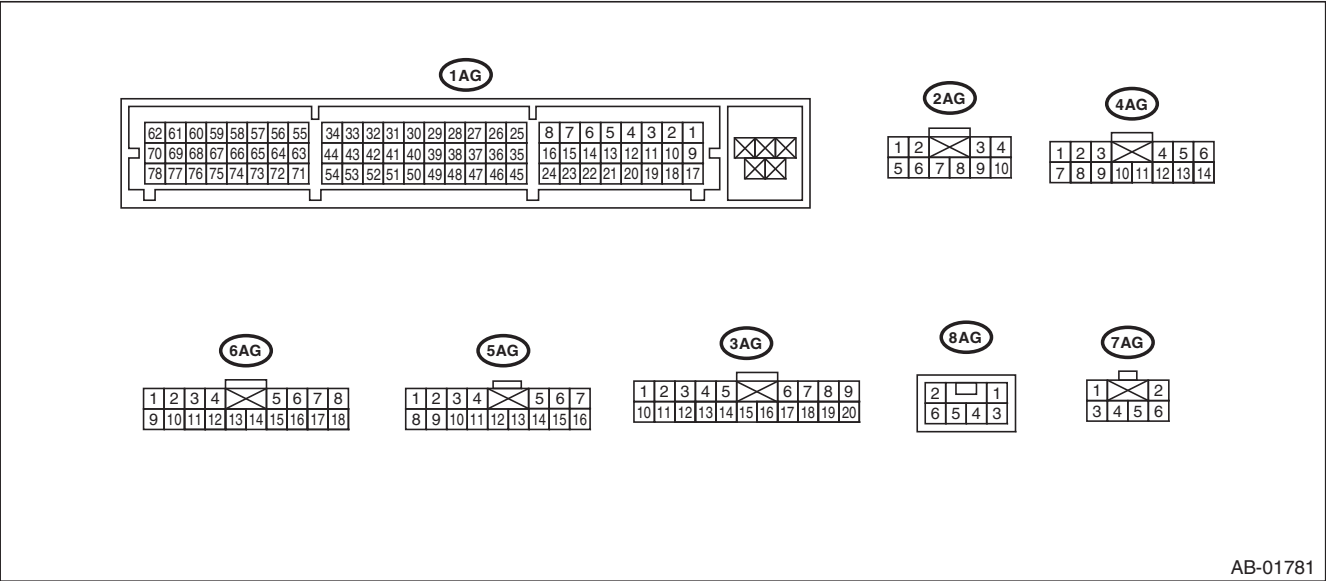


General Description

SEAT BELT SYSTEM

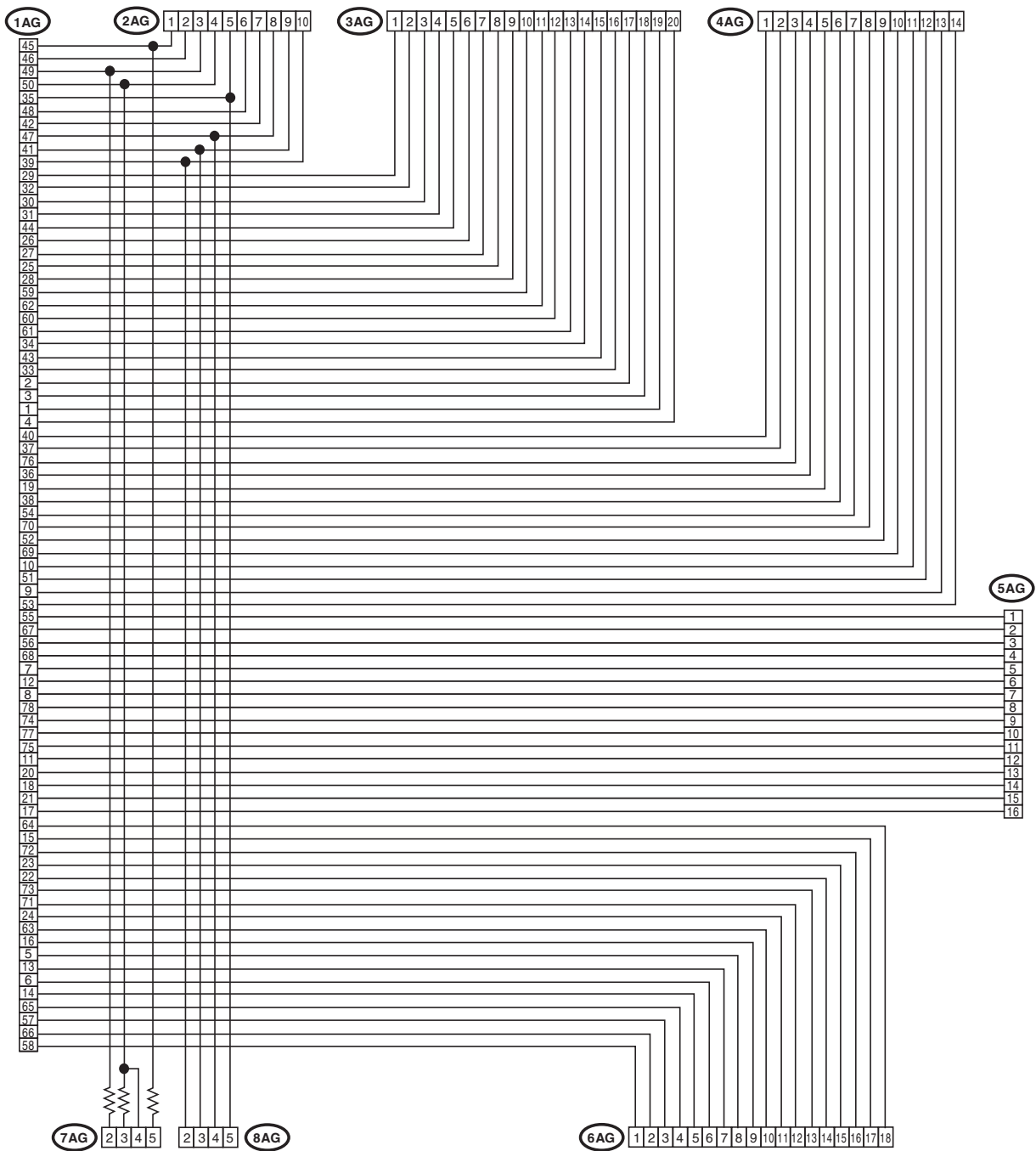
- TEST HARNESS AG

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299AG070	98299AG070	TEST HARNESS AG	Used when measuring voltage and resistance of airbag control module.



General Description

SEAT BELT SYSTEM

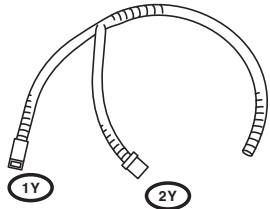


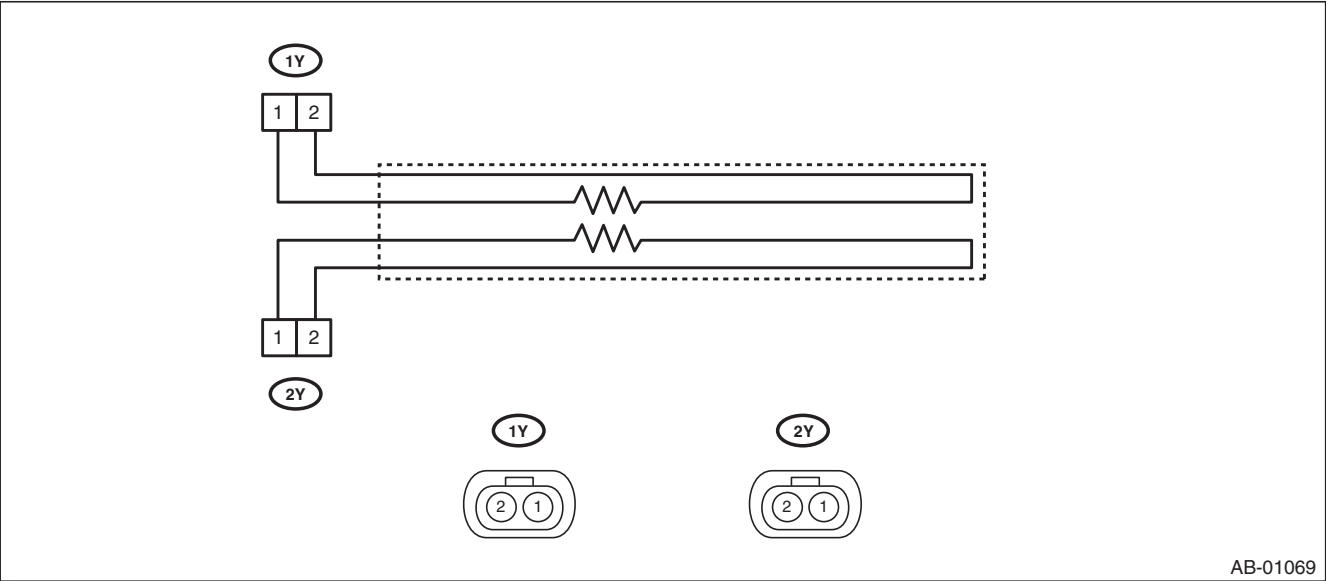
AB-01902

General Description

SEAT BELT SYSTEM

- TEST HARNESS Y

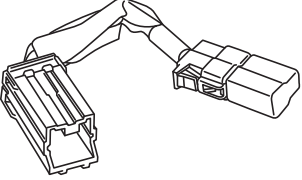
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299AG040	98299AG040	TEST HARNESS Y	Used for troubleshooting seat belt buckle switch.

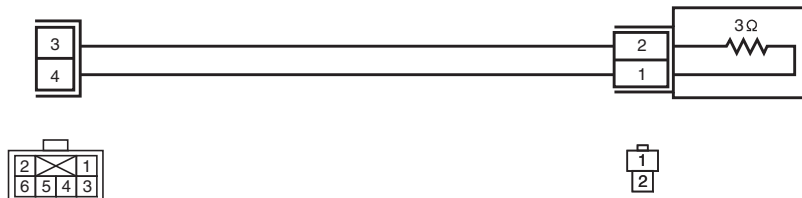


General Description

SEAT BELT SYSTEM

• AIRBAG RESISTOR

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST98299PA040	98299PA040	AIRBAG RESISTOR	Used in replacement of airbag module for which resistance value is same as airbag module.



AB-00433

2. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance and voltage.

Pretensioner Connector

SEAT BELT SYSTEM

2. Pretensioner Connector

A: PROCEDURE

For connectors of seat belt pretensioner, lap seat belt pretensioner and buckle switch RH, refer to "Airbag Connector" of "AIRBAG SYSTEM" section or "OCCUPANT DETECTION SYSTEM" section.

- Airbag system: <Ref. to AB-18, PROCEDURE, Airbag Connector.>
- Occupant detection system: <Ref. to OD(diag)-9, PROCEDURE, Airbag Connector.>

3. Inspection Locations after a Collision

A: INSPECTION

Refer to "Inspection Locations after a Collision" of "AIRBAG SYSTEM" section. <Ref. to AB-29, Inspection Locations after a Collision.>

Seat Belt Warning System

SEAT BELT SYSTEM

4. Seat Belt Warning System

A: WIRING DIAGRAM

Refer to "Seat Belt Warning System" in the wiring diagram. <Ref. to WI-373, WIRING DIAGRAM, Seat Belt Warning System.>

B: INSPECTION

CAUTION:

- Before diagnosing the seat belt warning system and airbag system, always turn the ignition switch to OFF, disconnect the battery ground cable, and then wait for 60 seconds or more.
- When inspecting the airbag main harness, disconnect the connectors of the driver's airbag module, passenger's airbag module and knee airbag module for safety reasons.
- When inspecting the airbag rear harness, disconnect the side airbag module connector, curtain airbag module connector and seat belt pretensioner connector for safety reasons.

Step	Check	Yes	No
1 CHECK FUNCTION. 1) Sit on the driver's seat and passenger's seat and disconnect the seat belts of the both. 2) Turn the ignition switch to ON (engine OFF). 3) Check the illumination of the driver's seat belt warning light in the combination meter, and the passenger's seat belt warning light in the MFD, and the sounding of the buzzer.	Do the driver's and passenger's warning lights illuminate?	Go to step 2.	Go to step 12.
2 CHECK FUNCTION. 1) Connect and disconnect the seat belts of the driver's and passenger's. 2) Check the illumination of the driver's seat belt warning light in the combination meter and the passenger's seat belt warning light in the MFD.	Do the seat belts warning light illuminate $\longleftrightarrow$ go off according to the operation?	Go to step 3.	Go to step 8.
3 CHECK FUNCTION. 1) Start the engine, and set the vehicle speed at 20 km/h (12 MPH) or more. 2) Check the driver's and passenger's seat belt warning lights and warning buzzer.	Do the driver's and passenger's warning lights illuminate?	Go to step 4.	Go to step 14.
4 CHECK HARNESS. 1) Disconnect the negative terminal from the battery, and wait for 60 seconds or more. 2) Disconnect the connectors of the combination meter and the seat belt buckle switch LH. 3) Check for short circuit to battery, open circuit and short circuit to ground between the combination meter and the seat belt buckle switch LH. Connector & terminal (i10) No. 15 — (R107) No. 1:	Is the harness normal?	Go to step 5.	Repair or replace the harness.
5 CHECK HARNESS. Measure the resistance between the seat belt buckle switch LH and chassis ground. Connector & terminal (R107) No. 2 — Chassis ground:	Is the resistance less than 10 Ω ?	Go to step 6.	Repair or replace the harness.
6 CHECK SEAT BELT BUCKLE SWITCH LH. Measure the resistance between the connector terminals of the driver's seat belt switch when the driver's seat belt is fastened and detached. Connector & terminal (R107) No. 1 — (R107) No. 2:	Is the resistance when the belt is fastened 1 M Ω or more, and less than 10 Ω when the belt is detached?	Go to step 7.	Replace the seat belt inner - front LH. <Ref. to SB-15, SEAT BELT OUTER - FRONT, REMOVAL, Front Seat Belt.>

Seat Belt Warning System

SEAT BELT SYSTEM

Step	Check	Yes	No	
7	CHECK COMBINATION METER. Perform the self-diagnosis of combination meter. <Ref. to IDI-7, SELF-DIAGNOSIS DISPLAY MODE, OPERATION, Combination Meter System.>	At the start of combination meter self diagnosis, did the buzzer sound and the seat belt warning light illuminate?	Replace the combination meter.	Replace the combination meter. <Ref. to IDI-18, REMOVAL, Combination Meter.>
8	CHECK CURRENT DATA. 1) Sit in the passenger's seat. 2) Select "Current Data Display" and display the data of "P seatbelt SW input". 3) Fasten and detach the passenger's side seat belt buckle, and read the data of the seat belt switch. <Ref. to OD(diag)-15, OPERATION, Display of Status Information.>	Does the seat belt switch display turn ON ←→ OFF according to the operation of the seat belt buckle?	Go to step 12.	Go to step 9.
9	CHECK AIRBAG SYSTEM AND OCCUPANT DETECTION SYSTEM. Perform the check in accordance with the diagnostic procedure DTC B1650 of the airbag system. <Ref. to OD(diag)-19, DTC B1650 OCCUPANT CLASSIFICATION SYSTEM MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Is the inspection result normal?	Go to step 10.	Repair or replace with new parts according to DTC B1650.
10	CHECK BUCKLE SWITCH RH. Perform the check in accordance with the diagnostic procedure DTC B1655 of the occupant detection system. <Ref. to OD(diag)-21, DTC B1655 FRONT BUCKLE SWITCH RH FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>	Is the inspection result normal?	Go to step 11.	Repair or replace with new parts according to DTC B1655.
11	CHECK AIRBAG CONTROL MODULE AND COMBINATION METER. Check the airbag control module, occupant detection sensor and seat belt buckle switch RH. Perform the check in accordance with the diagnostic procedure DTC B16F1 of the airbag system. <Ref. to AB(diag)-86, DTC B16F1 PASSENGER'S SEAT BELT WARNING FAILURE, Diagnostic Chart with Trouble Code.>	Is the inspection result normal?	Replace the combination meter. <Ref. to IDI-18, REMOVAL, Combination Meter.>	Repair or replace with new parts according to DTC B16F1.
12	CHECK MFD POWER SUPPLY VOLTAGE. 1) Disconnect the MFD connector. 2) Turn the ignition switch to ON. 3) Measure the voltage between the ignition power supply and the MFD. Connector & terminal (i122) No. 3 (+) — Chassis ground (-):	Is the voltage 10 V or more?	Go to step 13.	Check the harness for open or short between the fuse and MFD.
13	CHECK MFD GROUND CIRCUIT. 1) Turn the ignition switch to OFF. 2) Measure the resistance between MFD and chassis ground. Connector & terminal (i122) No. 2 — Chassis ground:	Is the resistance less than 10 Ω?	Go to step 14.	Repair or replace the harness.
14	CHECK HARNESS BETWEEN MFD AND COMBINATION METER. 1) Disconnect the harness of the MFD and the combination meter. 2) Measure the resistance between MFD and combination meter. Connector & terminal (i122) No. 9 — (i10) No. 28:	Is the resistance less than 10 Ω?	Go to step 15.	Repair or replace the harness.



Seat Belt Warning System

SEAT BELT SYSTEM

Step	Check	Yes	No
15 CHECK COMMUNICATION STATUS BETWEEN MFD AND COMBINATION METER. 1) Remove the MFD, and install a properly operating MFD (new MFD). 2) Connect the connector and then turn the ignition switch to ON. Connector & terminal (i122) No. 9 — (i10) No. 28:	Is the MFD properly displayed?	Replace the MFD.	Replace the combination meter case assembly.

5. Front Seat Belt

A: REMOVAL

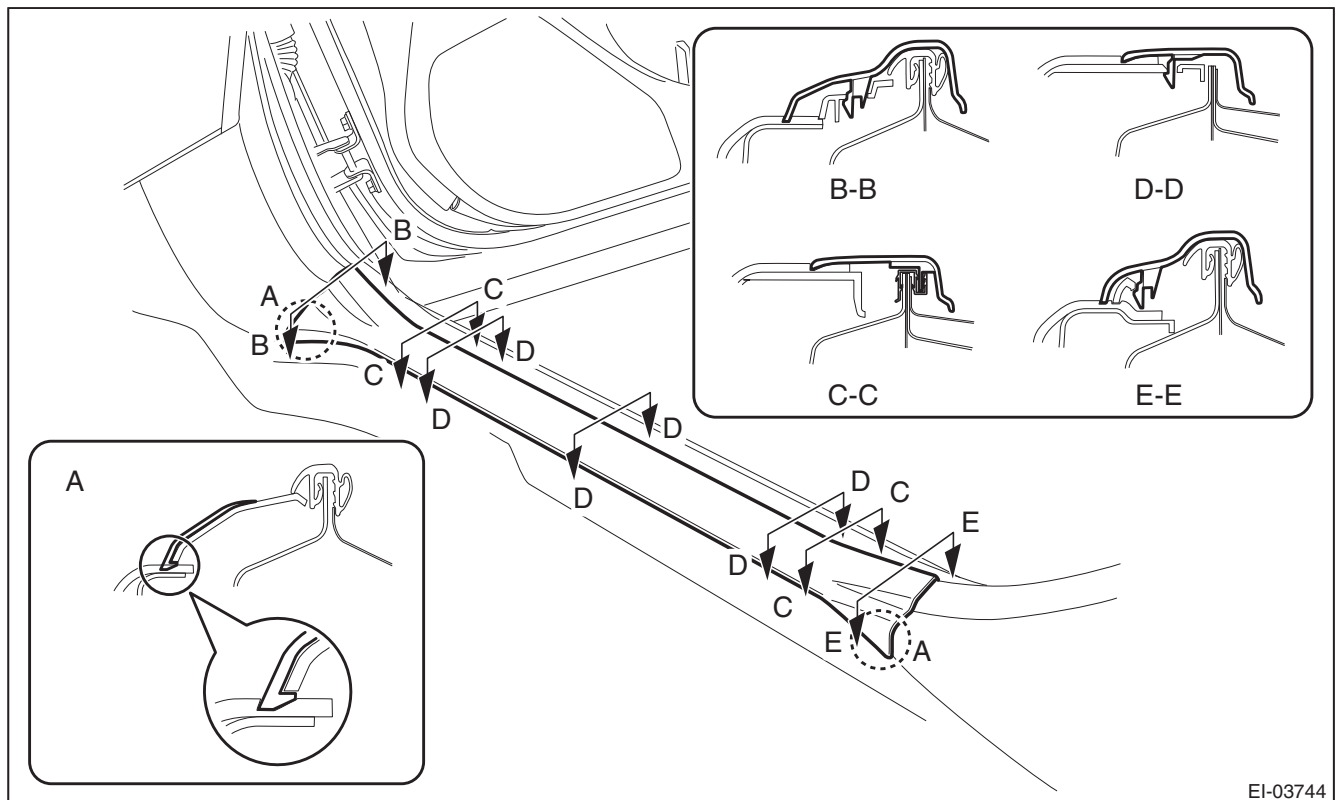
1. SEAT BELT OUTER - FRONT

CAUTION:

- The airbag system is fitted with a backup power supply. After disconnecting the battery ground cable, the airbag may operate if you do not wait for 60 seconds before starting the service of airbag system.
 - Airbag system satellite safing sensor is located in the lower of the rear seat cushion center. Before removing the rear seat, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" section. <Ref. to AB-9, CAUTION, General Description.>
 - Do not drop or subject the pretensioner to any impact.
 - Since the pretensioner and bracket are integrated as a unit, do not disassemble them.
- 1) Before working, turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.
 - 2) Tilt the front seat backrest assembly forward, and move the front seat all the way forward.
 - 3) Release the claws, and then remove the cover side sill - front INN. (On the side where seat belt assembly is removed)

CAUTION:

Do not pull with excessive force. Doing so may damage the claws of the cover side sill - front INN.



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Front Seat Belt

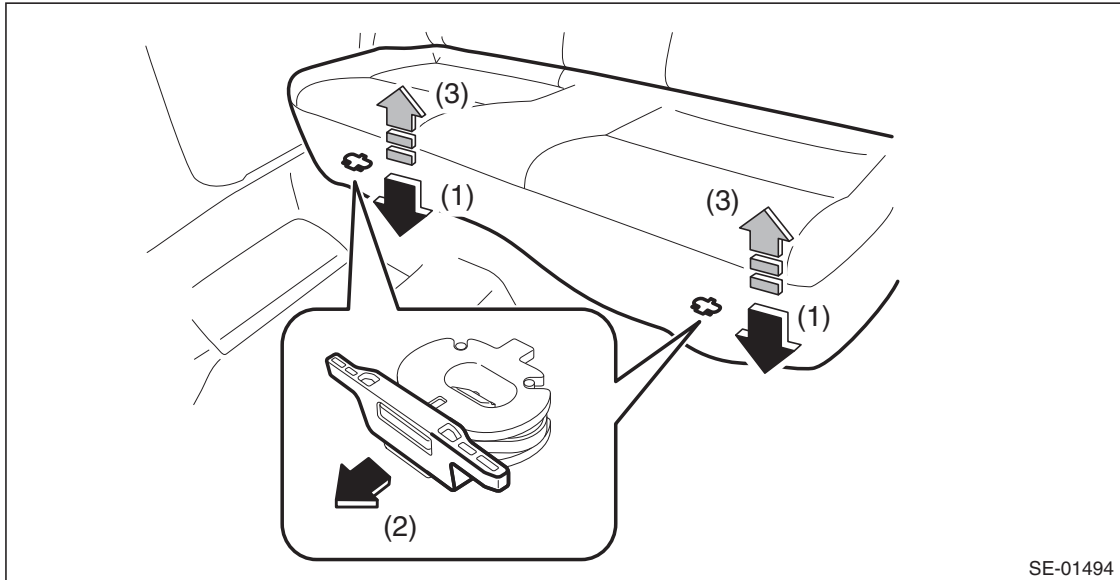
SEAT BELT SYSTEM

4) Remove the rear seat cushion assembly.

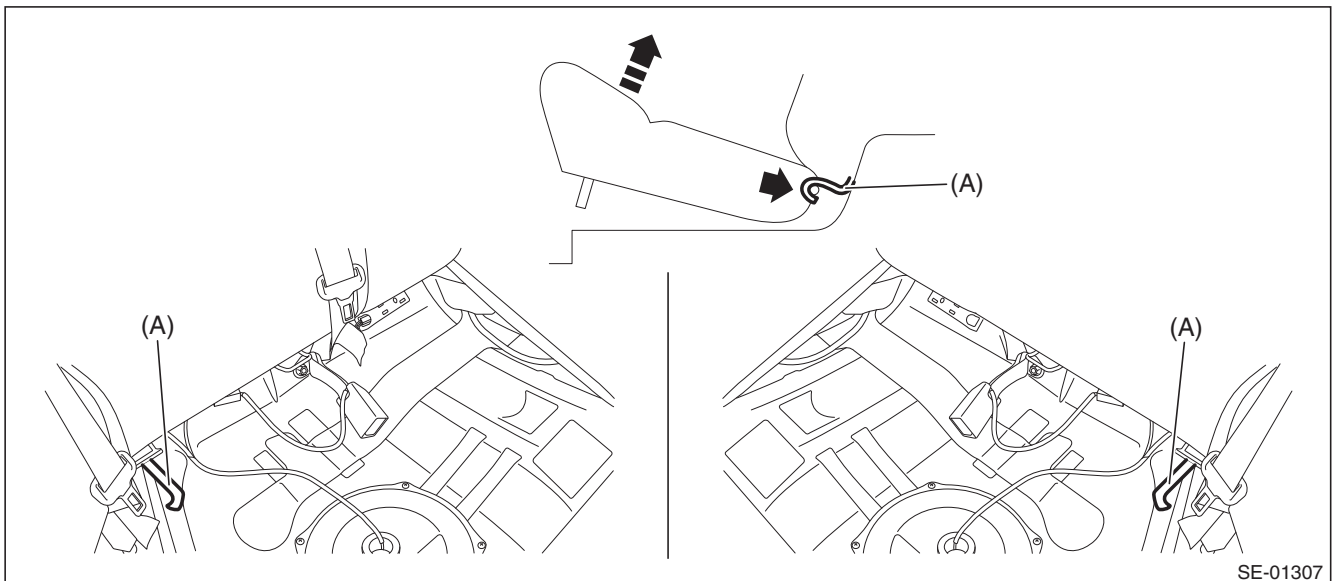
(1) Push the corners of the seat cushion from above.

(2) While pushing the corners of the seat cushion from above, pull the knob of the hook - seat cushion rear towards yourself.

(3) While pulling the knob towards yourself, disconnect the hooks by lifting up the rear seat cushion.



(4) Remove the hook (A) by pushing it back while lifting the front side of the rear seat cushion, and remove the rear seat cushion.



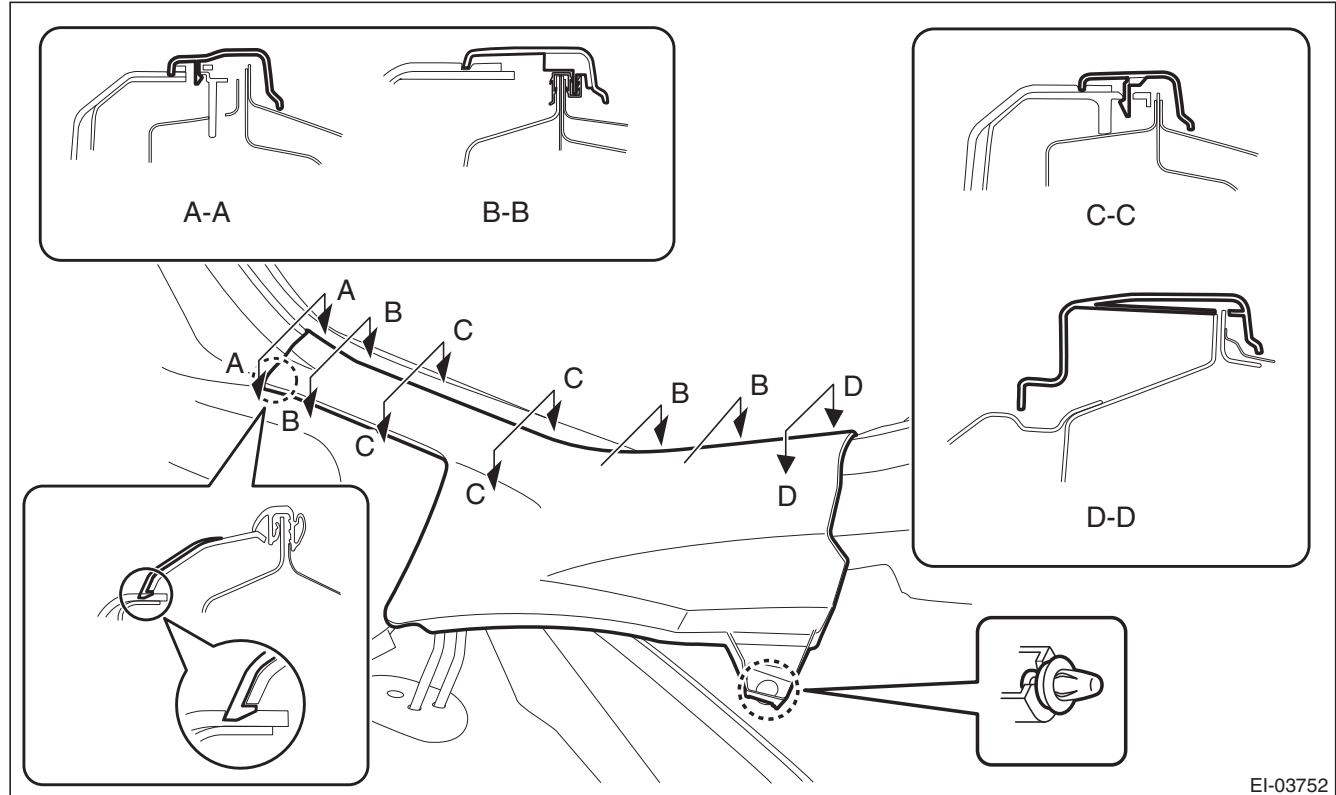
Front Seat Belt

SEAT BELT SYSTEM

5) Release the clips and claws, and then remove the cover side sill - rear INN. (On the side where seat belt assembly is removed)

CAUTION:

Do not pull with excessive force. Doing so may damage the claws of the cover side sill - rear INN.



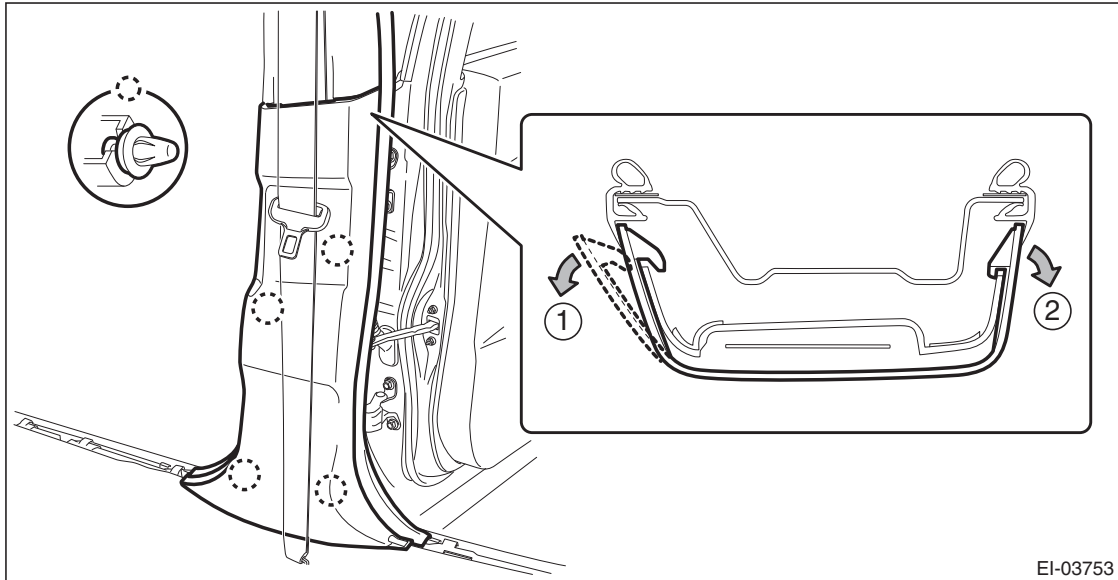
Front Seat Belt

SEAT BELT SYSTEM

- 6) Remove the trim panel - center pillar LWR. (On the side where seat belt assembly is removed)
- (1) Release the clip by pulling the trim panel - center pillar LWR toward you.
 - (2) Expand the claws of the trim panel - center pillar LWR outward, and remove it from the trim panel - center pillar UPR.

CAUTION:

Do not expand the trim panel - center pillar LWR excessively. Doing so may damage the trim.



EI-03753

NOTE:

First release the claw located to the front of the vehicle.

- 7) Remove the adjuster anchor cover and bolts of the trim panel - center pillar UPR, and remove the shoulder anchor. (On the side where seat belt assembly is removed)

Front Seat Belt

SEAT BELT SYSTEM

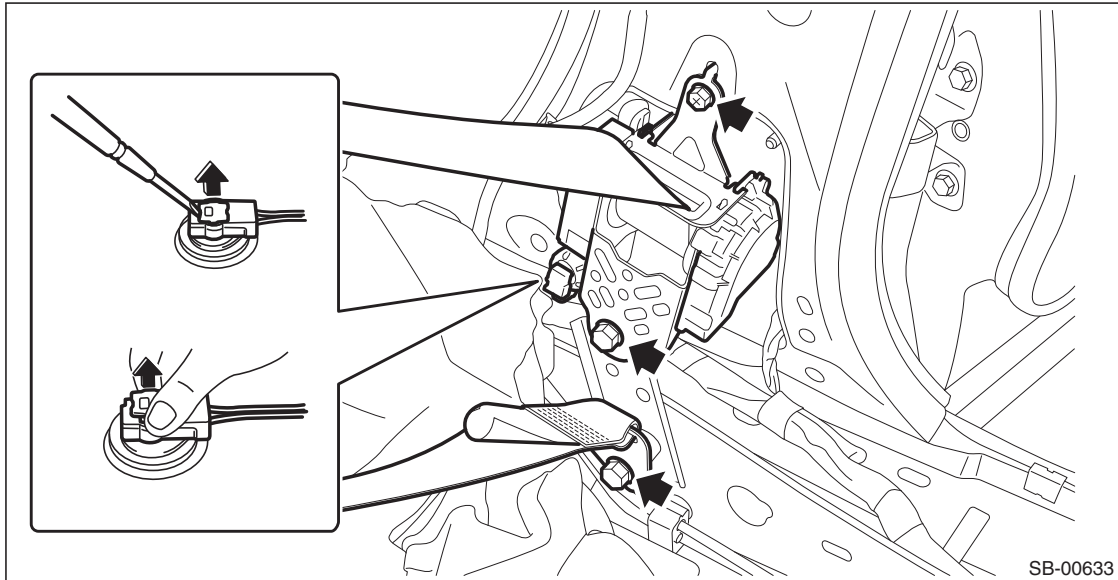
8) Remove the seat belt outer - front.

- (1) Turn over the floor mat to disconnect the belt tension sensor connector. <Ref. to AB-21, DRIVER'S AIRBAG MODULE, KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE AND PRETENSIONER, PROCEDURE, Airbag Connector.>

NOTE:

Also disconnect the connector of the passenger's lap seat belt pretensioner.

- (2) Remove the bolt to remove the seat belt retractor.
- (3) Remove the lower anchor bolt, and remove the seat belt outer - front.



2. SEAT BELT INNER - FRONT

CAUTION:

The airbag system is fitted with a backup power supply. After disconnecting the battery ground cable, the airbag may operate if you do not wait for 60 seconds before starting the service of airbag system.

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.

NOTE:

- For the seat with lifter, set the height to the middle position.
 - For the power seat, remove the slide rail installing bolt before removing the battery ground.
- 3) Remove the front seats.
 - (1) Tilt the backrest assembly forward and move the front seat to the mid point on the slide rail.
 - (2) Remove the bolts on the front side of the front seat.
 - (3) Remove the cover - bolt rear.
 1. While spreading the tip of the cover - bolt rear OUT side to side, pull it out toward you to remove.
 2. Remove the cover - bolt rear INN.

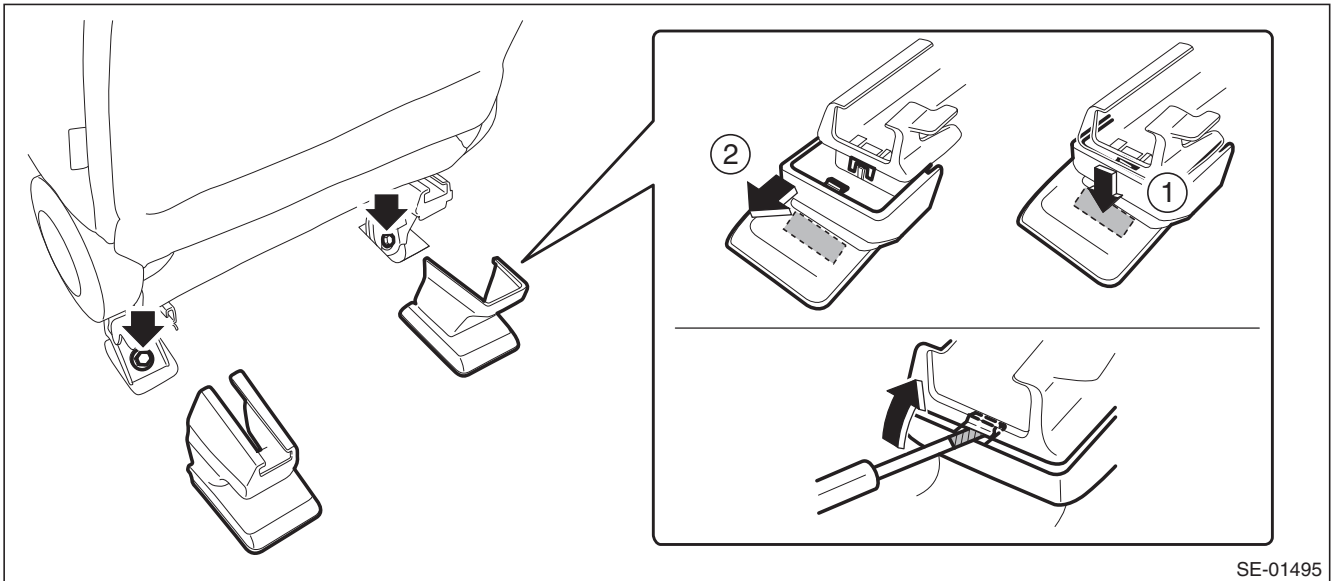
NOTE:

- Firmly push in the cover - bolt rear INN at the point shown in the figure until a clicking sound is heard and remove it.
- If it is difficult to remove, release the claw using a flat tip screwdriver wrapped with protection tape while pushing the point shown in the figure to remove.

Front Seat Belt

SEAT BELT SYSTEM

(4) Remove the bolts on the rear side of the front seat.



(5) Disconnect the connector under the front seat.

CAUTION:

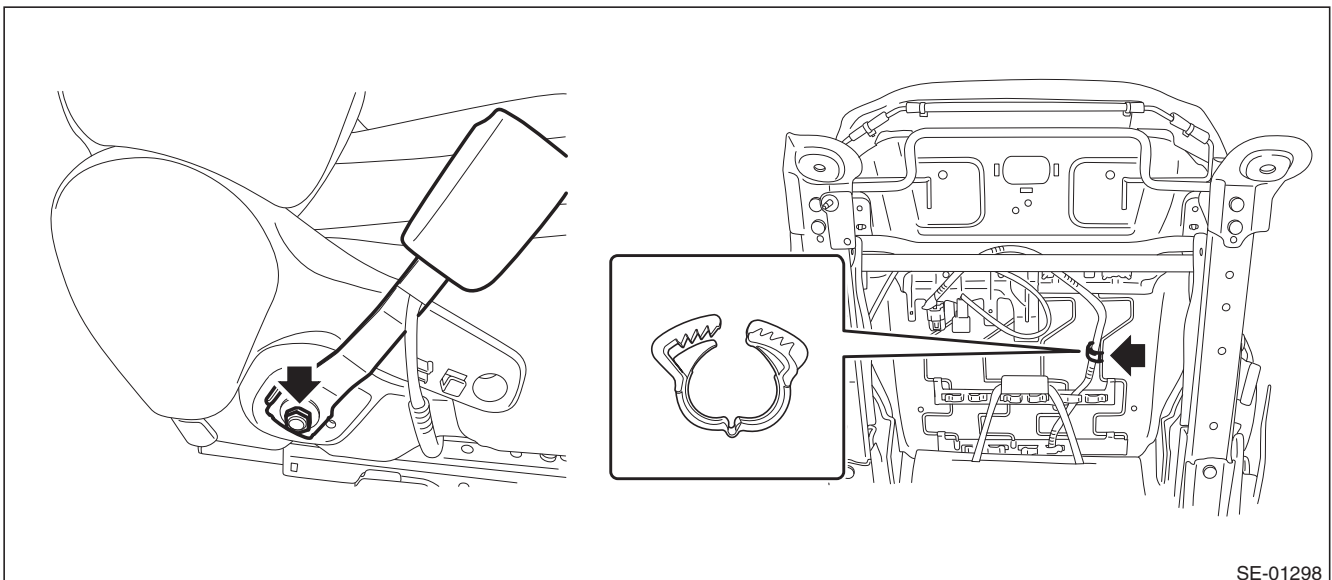
For the power seat, check that the battery ground cable is disconnected. If not, disconnect the battery ground cable and wait for 60 seconds or more.

- Seat belt warning light connector
- Occupant detection system harness connector (passenger's seat) <Ref. to OD(diag)-9, OCCUPANT DETECTION SYSTEM (BETWEEN AIRBAG REAR HARNESS AND SEAT HARNESS), PROCEDURE, Airbag Connector.>
- Side airbag connector <Ref. to AB-26, SIDE AIRBAG MODULE, PROCEDURE, Airbag Connector.>
- Seat heater connector (model with seat heater)
- Power seat connector (model with power seats)

4) Remove the seat belt inner - front.

(1) Remove the nut, and remove the seat belt inner - front.

(2) Remove the clip for the inner seat belt harness located under the seat cushion.



Front Seat Belt

SEAT BELT SYSTEM

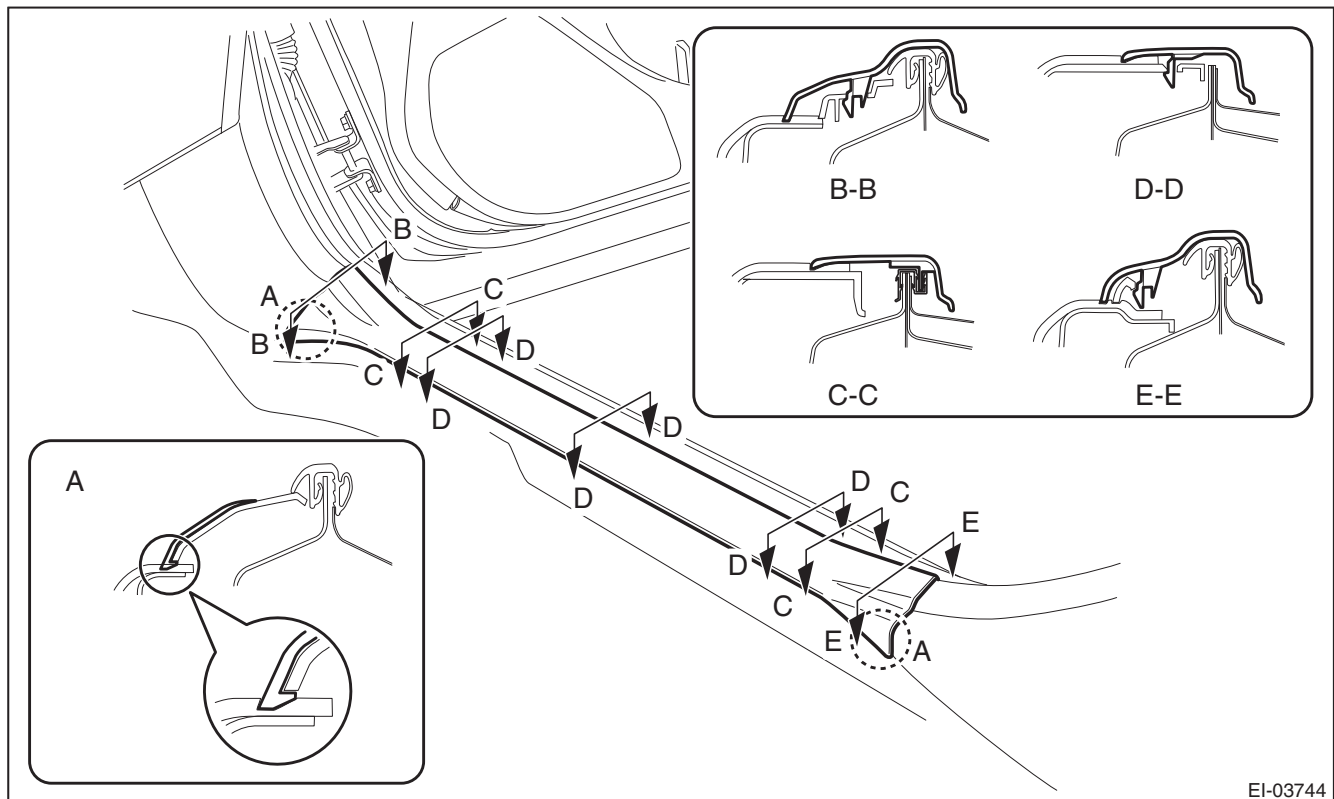
3. ADJUSTER ASSEMBLY - SEAT BELT

CAUTION:

- The airbag system is fitted with a backup power supply. After disconnecting the battery ground cable, the airbag may operate if you do not wait for 60 seconds before starting the service of airbag system.
 - Do not drop or subject the pretensioner to any impact.
 - Since the pretensioner and bracket are integrated as a unit, do not disassemble them.
- 1) Before working, turn the ignition switch to OFF, disconnect the battery ground cable, and wait for 60 seconds or more.
 - 2) Tilt the backrest assembly forward and move the front seat to the front most position.
 - 3) Release the claws, and then remove the cover side sill - front INN.

CAUTION:

Do not pull with excessive force. Doing so may damage the claws of the cover side sill - front INN.



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Front Seat Belt

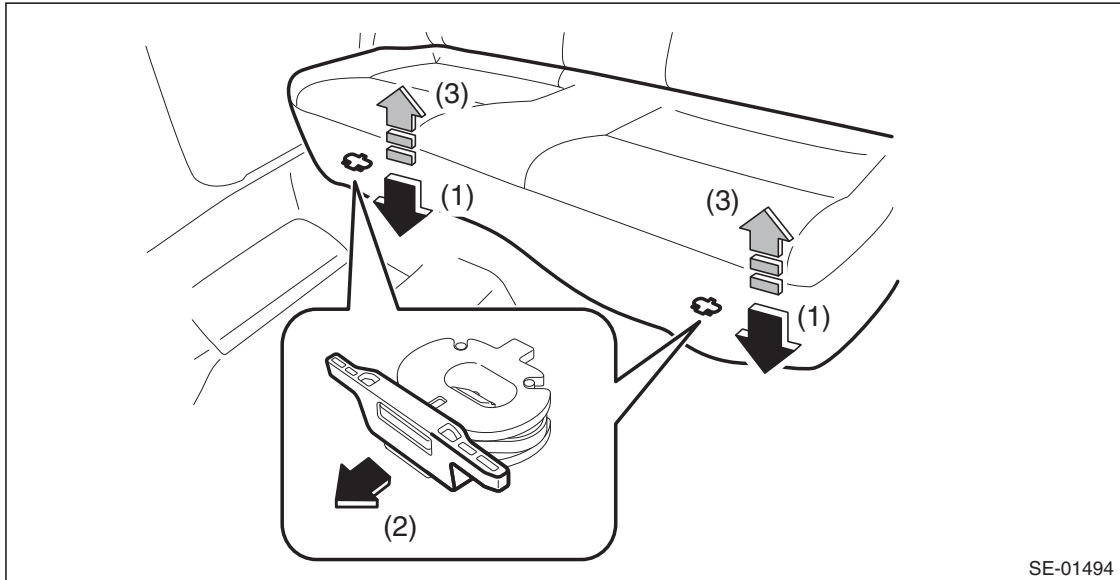
SEAT BELT SYSTEM

4) Remove the rear seat cushion assembly.

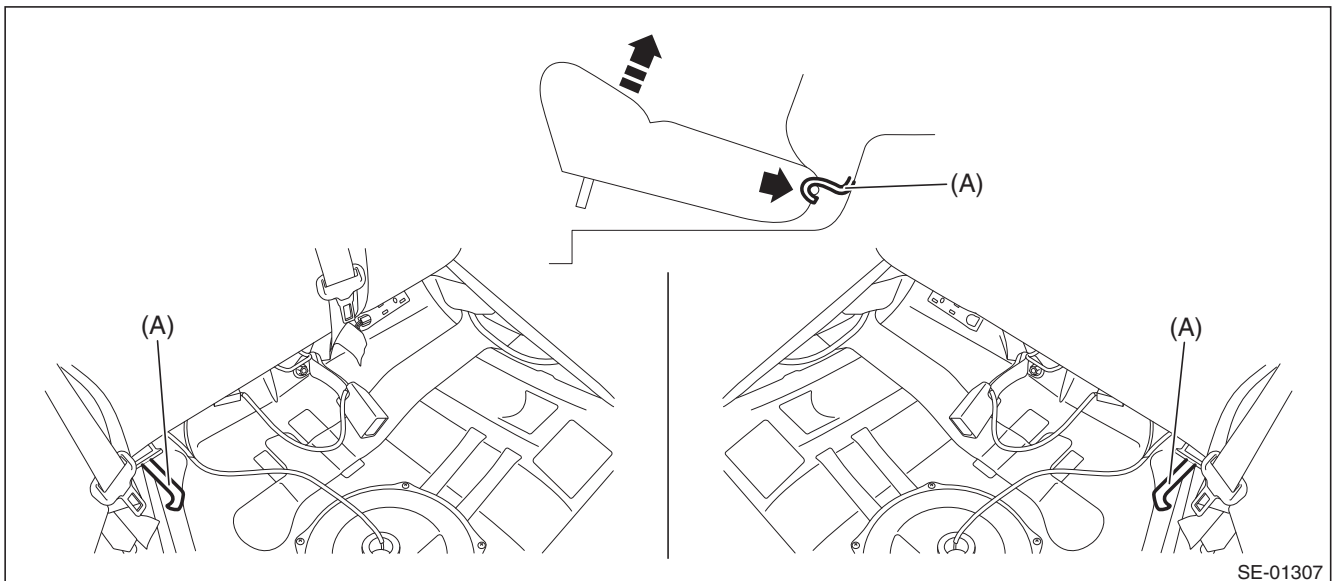
(1) Push the corners of the rear seat cushion from above.

(2) While pushing the corners of the rear seat cushion from above, pull the knob of the hook - seat cushion rear towards yourself.

(3) While pulling the knob towards yourself, disconnect the hooks by lifting up the rear seat cushion.



(4) Remove the hook (A) by pushing it back while lifting the front side of the rear seat cushion, and remove the rear seat cushion.



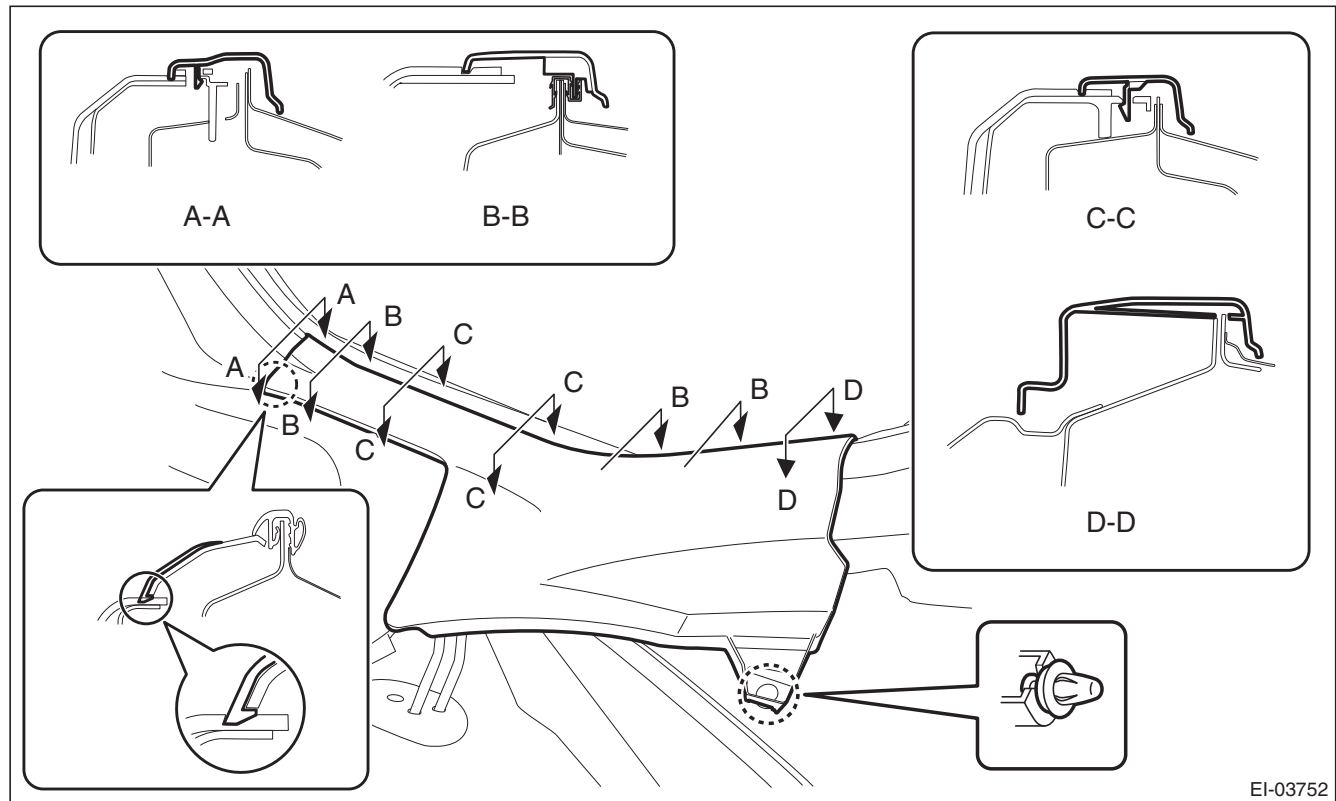
Front Seat Belt

SEAT BELT SYSTEM

5) Release the clips and claws, and then remove the cover side sill - rear INN.

CAUTION:

Do not pull with excessive force. Doing so may damage the claws of the cover side sill - rear INN.



Front Seat Belt

SEAT BELT SYSTEM

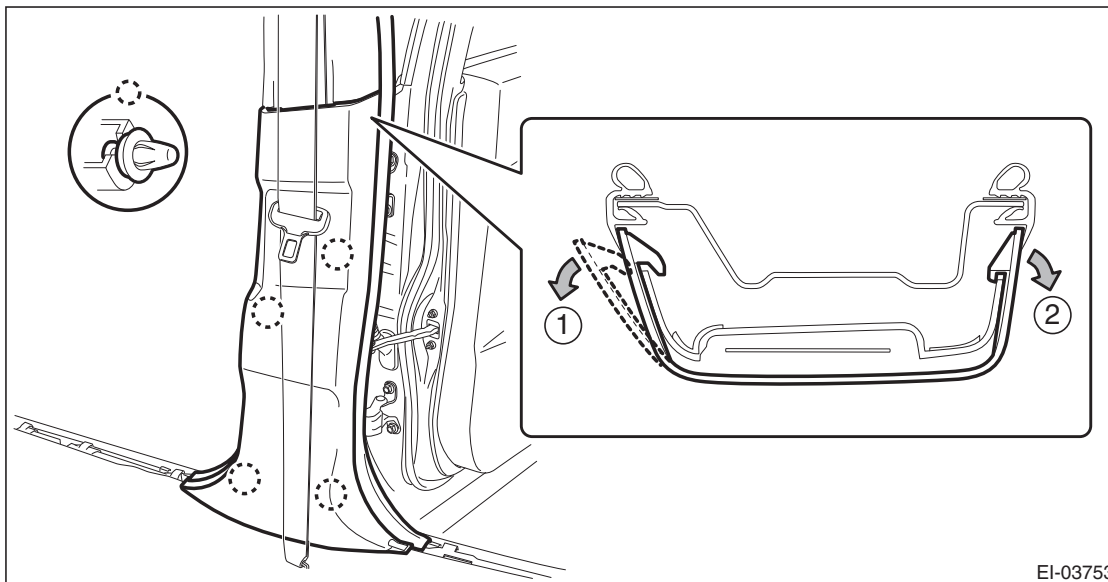
6) Remove the trim panel - center pillar LWR.

(1) Release the clip by pulling the trim panel - center pillar LWR toward you.

(2) Expand the claws of the trim panel - center pillar LWR outward, and remove it from the trim panel - center pillar UPR.

CAUTION:

Do not expand the trim panel - center pillar LWR excessively. Doing so may damage the trim.



NOTE:

First release the claw located to the front of the vehicle.

7) Remove the trim panel - center pillar UPR.

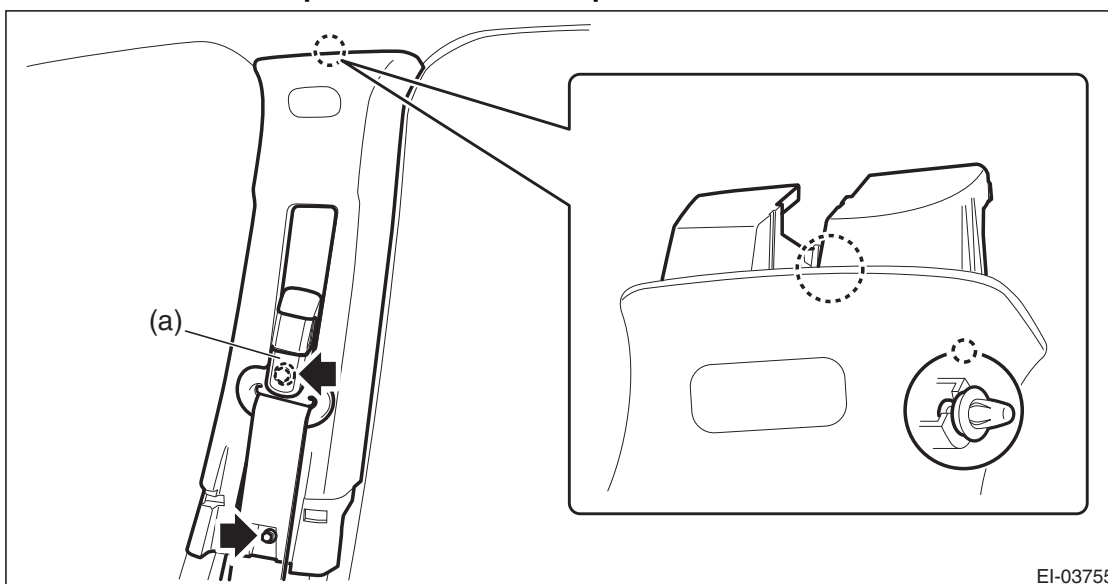
(1) Remove the cover through (a), and remove the seat belt anchor bolt.

(2) Remove the bolt on the lower side of the trim panel - center pillar UPR.

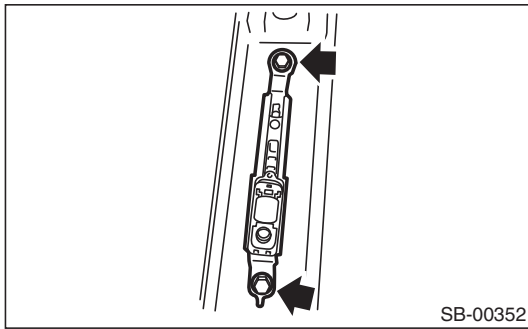
(3) Remove the clip by pulling the upper part of the trim toward you, and while lowering the entire trim, remove the trim panel - center pillar UPR.

CAUTION:

Do not reuse the upper clips of the trim panel - center pillar UPR. Once the clip is removed, its holding force is reduced. Be sure to replace it with a new clip.



8) Remove the bolts, and then remove the adjuster assembly - seat belt.



B: INSTALLATION

1. SEAT BELT OUTER - FRONT

CAUTION:

- The parts of the driver and passenger sides are not the same. Before installation, make sure that the correct part is used.
- During installation, make sure that the seat belts are not twisted.
- After installation, make sure that the seat belt can be pulled out and retracted smoothly.
- Make sure that the seat belt harness is not caught anywhere. Wrong harness routing may cause the harness short from pinch.
- Do not reuse the upper clips of the trim panel - center pillar UPR. Once the clip is removed, its holding force is reduced. Be sure to replace it with a new clip.

- 1) Before installation, perform a unit inspection of retractor. <Ref. to SB-28, INSPECTION, Front Seat Belt.>
- 2) Install the seat belt outer - front.

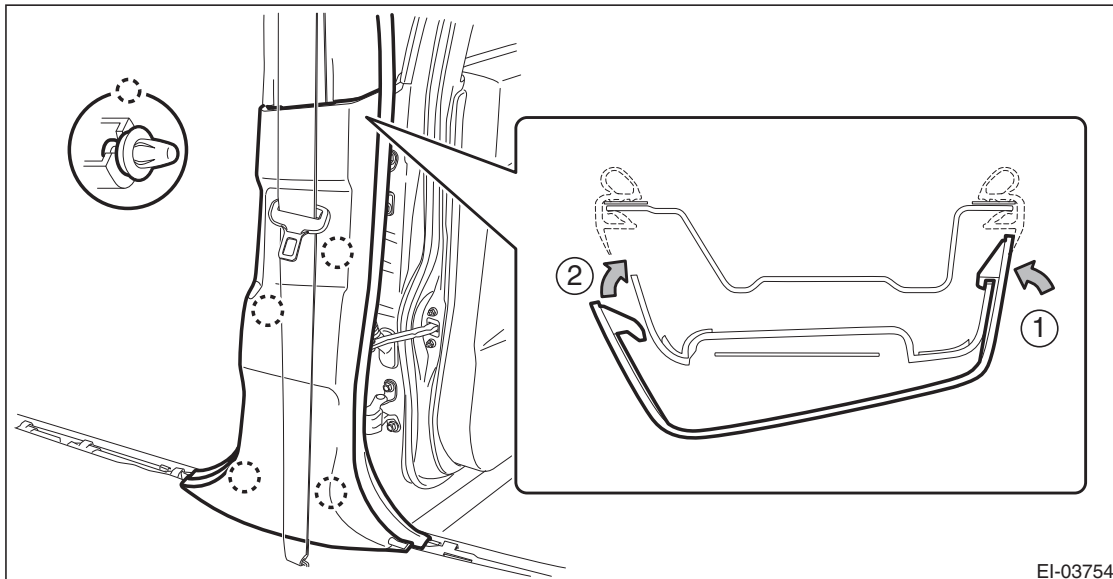
Tightening torque:

Front seat belt: <Ref. to SB-2, FRONT SEAT BELT, COMPONENT, General Description.>

- 3) Install the remaining parts in the reverse order of removal.

NOTE:

Assemble the trim panel - center pillar LWR to the trim panel - center pillar UPR securely.



- 4) After installation, check the following points.

- The seat belt is not twisted.
- The seat belt can be pulled out and retracted smoothly.
- The adjuster assembly - seat belt can be moved smoothly.
- Check that the airbag warning light lights up for approximately 6 seconds and then turns off when connecting the battery ground cable and turning the ignition switch to ON.

Front Seat Belt

SEAT BELT SYSTEM

2. SEAT BELT INNER - FRONT

CAUTION:

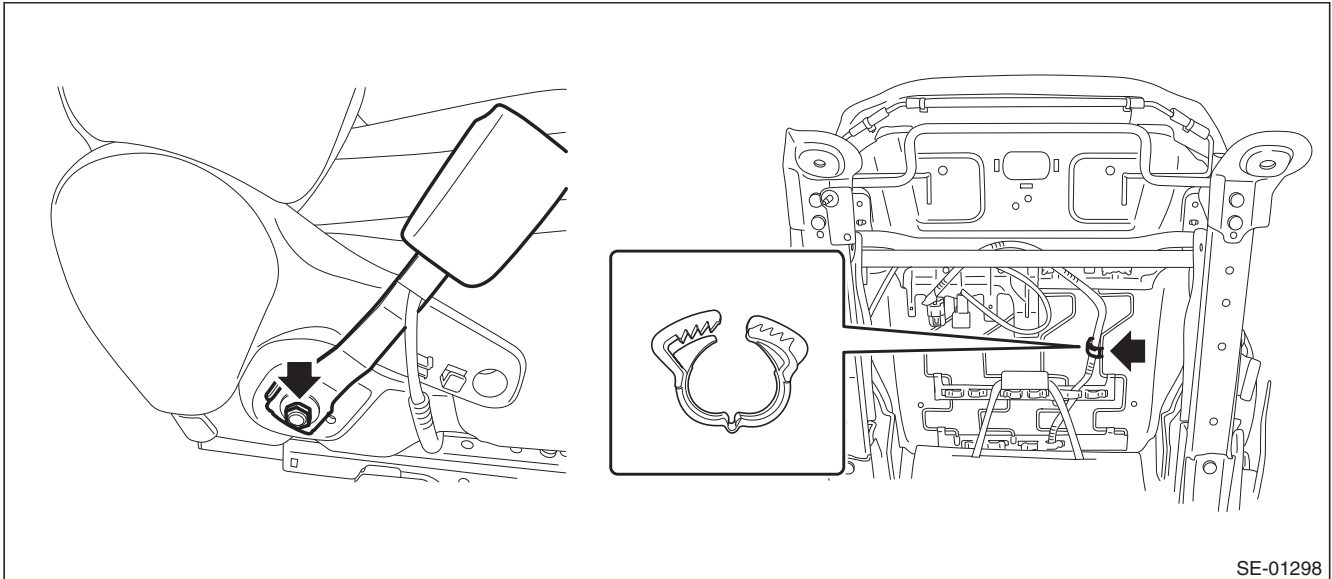
- Before installation, make sure that the correct part is used.
- During installation, make sure that the seat belts are not twisted.
- Check that there is no pinching of the seat belt harness. Wrong harness routing may cause the harness short from pinch.

1) Install the seat belt inner - front.

Tightening torque:

Front seat belt: <Ref. to SB-2, FRONT SEAT BELT, COMPONENT, General Description.>

2) Locate the seat belt harness and retain it with a harness clip.



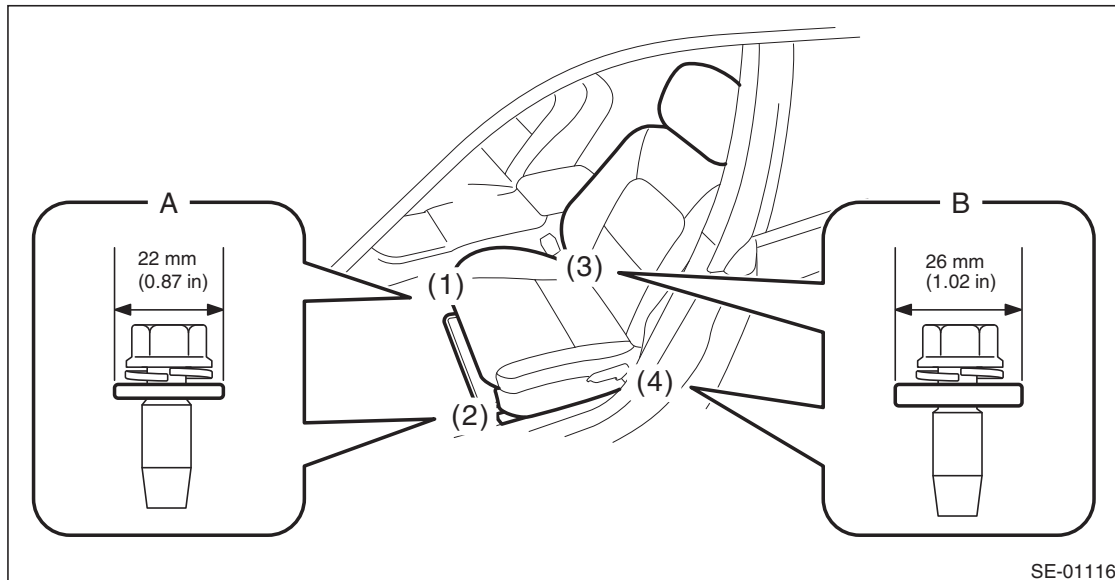
Front Seat Belt

SEAT BELT SYSTEM

3) Install the seat assembly to the body.

CAUTION:

- The seat mounting bolts differ between the front mounting points and the rear mounting points. Make sure that you are using correct bolts at correct positions.
- Tighten the slide rail installing bolts in the order as shown in the figure, in several steps by gradually increasing the torque until they reach the specified torque.



- Front (bolt A): Washer diameter 22 mm (0.87 in)
- Rear (bolt B): Washer diameter 26 mm (1.02 in)

Tightening torque:

Front seat assembly: 53 N·m (5.40 kgf-m, 39.1 ft-lb)

4) Check that no harness is caught by sliding the seat back and forth.

3. ADJUSTABLE ANCHOR ASSY

Referring to the installation procedure for seat belt outer - front, install the parts in the reverse order of removal.

Tightening torque:

Front seat belt: <Ref. to SB-2, FRONT SEAT BELT, COMPONENT, General Description.>

Front Seat Belt

SEAT BELT SYSTEM

C: INSPECTION

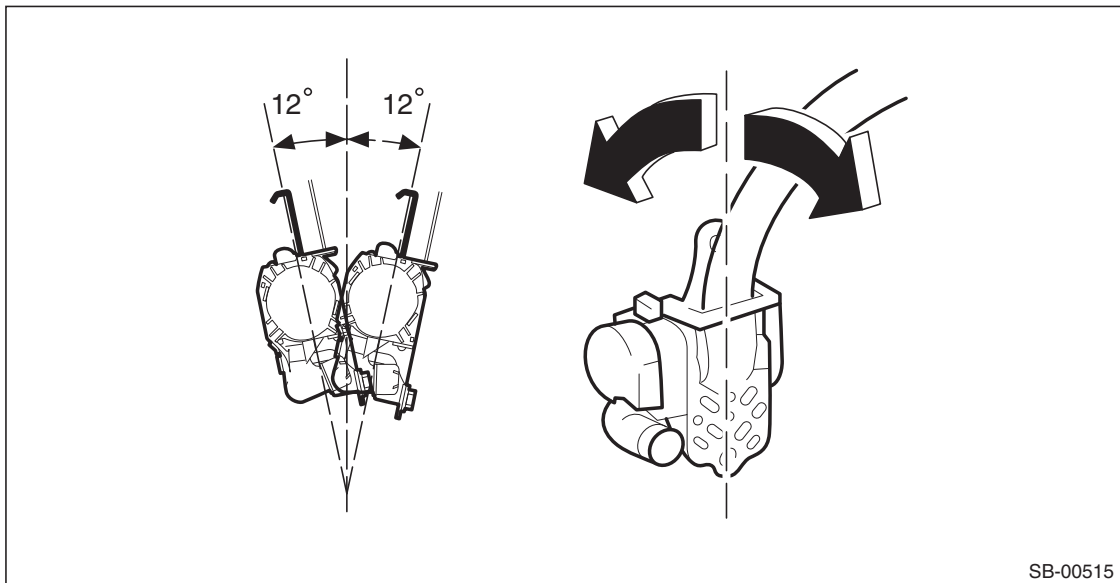
1. VISUAL INSPECTION

Check for the following, and replace with new parts if necessary.

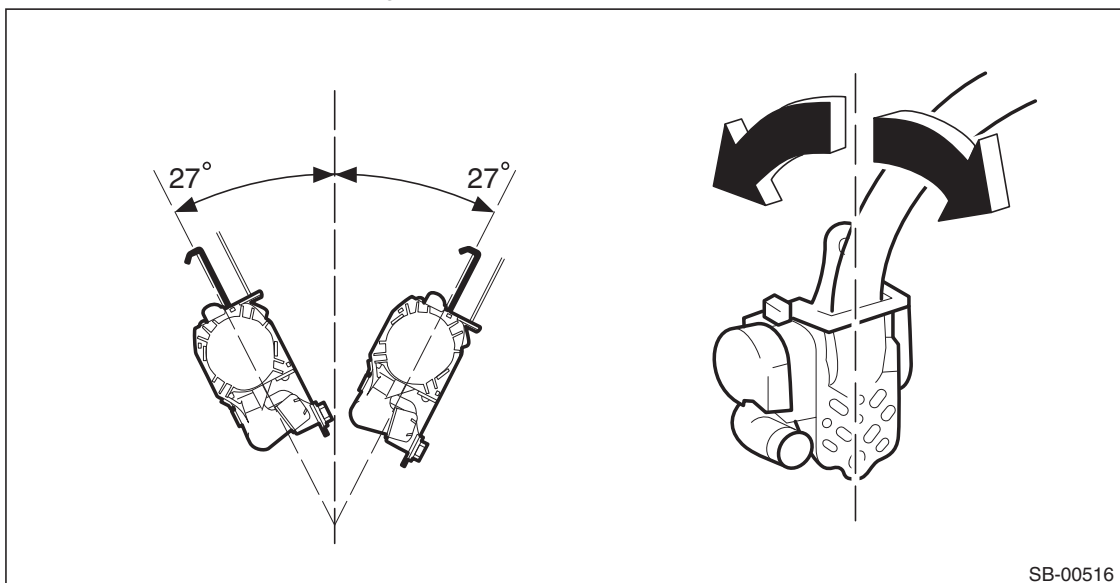
- Pretensioner is cracked or deformed.
- Adjuster assembly - seat belt is cracked or deformed.
- Seat belt is slackened, bent or worn.
- Seat belt is abnormally wound or extended.
- Seat belt inner - front is deformed or damaged.
- Seat belt buckle cannot be engaged properly.

2. ELR LOCK MECHANISM INSPECTION

- 1) Hold the retractor upright (as installed in the vehicle) and check the ELR lock mechanism.
 - 2) Tilt the retractor from the upright posture and check the following points.
- It does not lock if the inclination angle is 12° or less.



- It remains locked if the inclination angle is 27° or more.



- 3) If the ELR lock mechanism does not operate properly, replace the seat belt outer - front with a new part.

Front Seat Belt

SEAT BELT SYSTEM

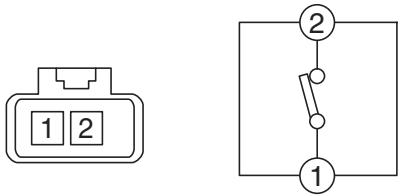
3. SEAT BELT SWITCH INSPECTION

Preparation tool:

Circuit tester

- Driver's seat

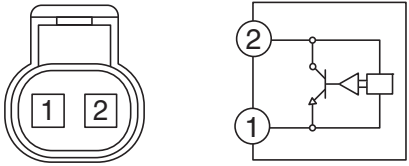
Check the resistance between the terminals when the seat belt inner - front is in each of the following operation conditions.

Terminal No.	Inspection conditions	Standard	Circuit
2 — 1	Tongue plate inserted	Less than 1 Ω	 SB-00609
2 — 1	Tongue plate detached	10 k Ω or more	

Replace the seat belt inner - front if the inspection result is not within the standard.

- Passenger's seat

Check the current between the terminals when the seat belt inner - front is in each of the following operation conditions.

Terminal No.	Inspection conditions	Standard	Circuit
1 — 2	Tongue plate inserted	12 — 18 mA	 SB-00608
1 — 2	Tongue plate detached	4 — 7 mA	

Replace the seat belt inner - front if the inspection result is not within the standard.

Rear Seat Belt

SEAT BELT SYSTEM

6. Rear Seat Belt

A: REMOVAL

1. SEAT BELT OUTER - REAR RH & LH

CAUTION:

- Airbag system satellite safing sensor is located in the lower of the rear seat cushion center. Before removing the rear seat, refer to “CAUTION” of “General Description” in “AIRBAG SYSTEM” section. <Ref. to AB-9, CAUTION, General Description.>

- The airbag system is fitted with a backup power supply. After disconnecting the battery ground cable, the airbag may operate if you do not wait for 60 seconds before starting the service of airbag system.

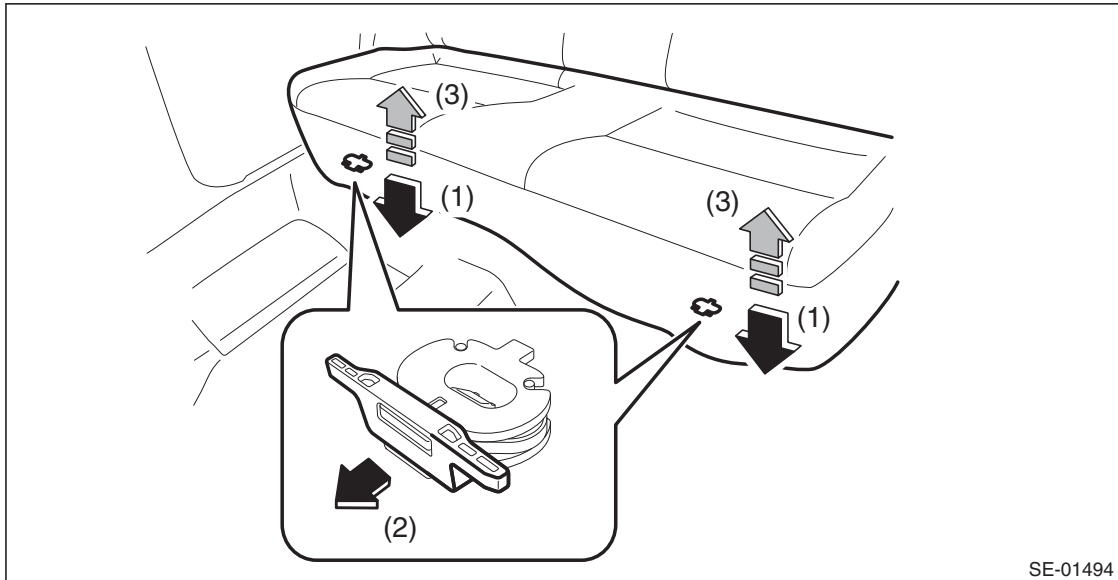
1) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.

2) Remove the rear seat cushion assembly.

(1) Push the corners of the rear seat cushion from above.

(2) While pushing the corners of the rear seat cushion from above, pull the knob of the hook - seat cushion rear towards yourself.

(3) While pulling the knob towards yourself, disconnect the hooks by lifting up the rear seat cushion.

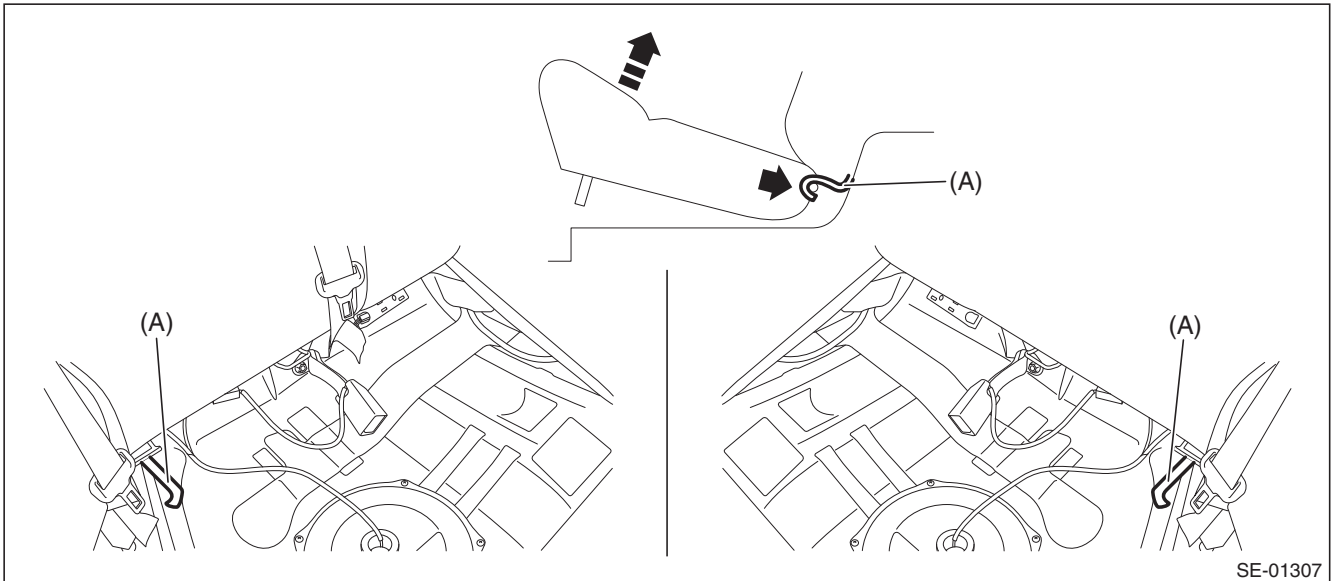


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Rear Seat Belt

SEAT BELT SYSTEM

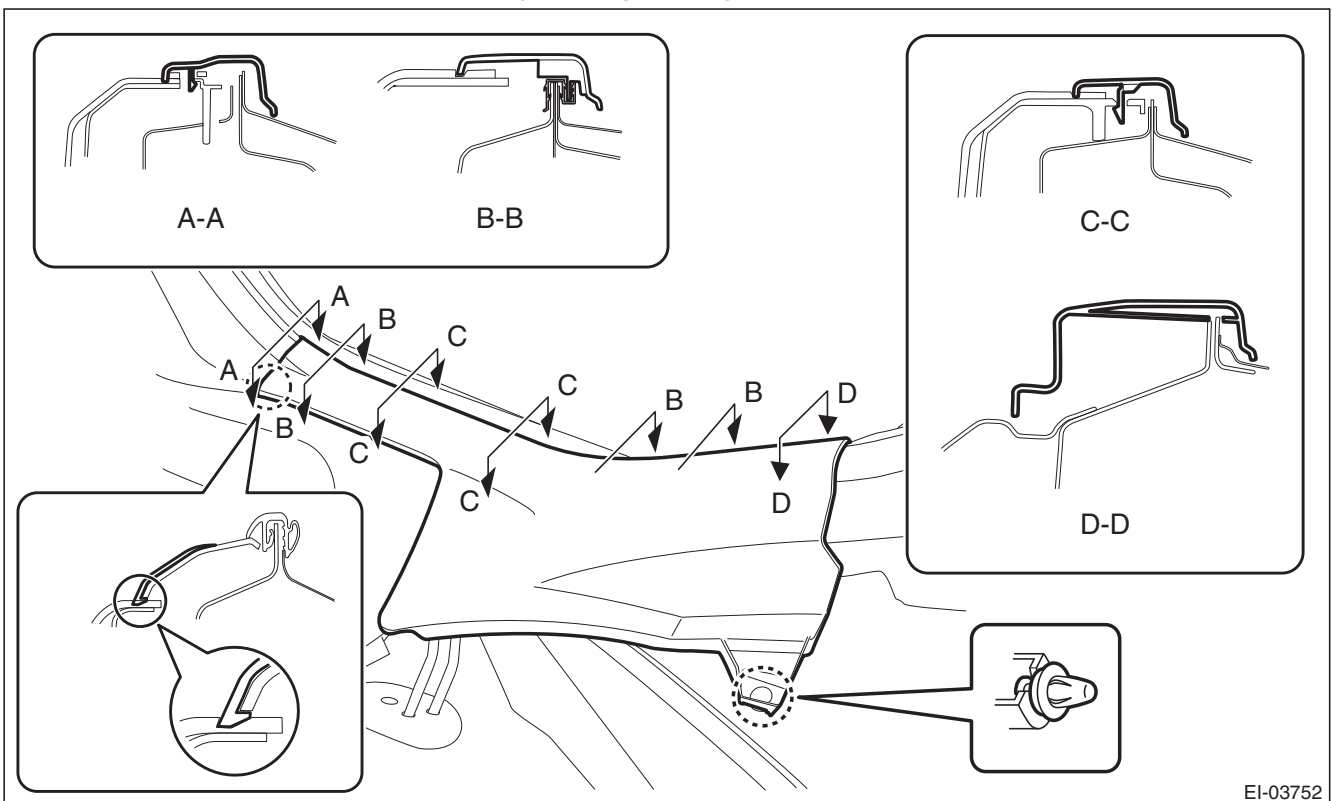
- (4) Remove the hook (A) by pushing it back while lifting the front side of the rear seat cushion, and remove the rear seat cushion.



- 3) Release the clips and claws, and then remove the cover side sill - rear INN.

CAUTION:

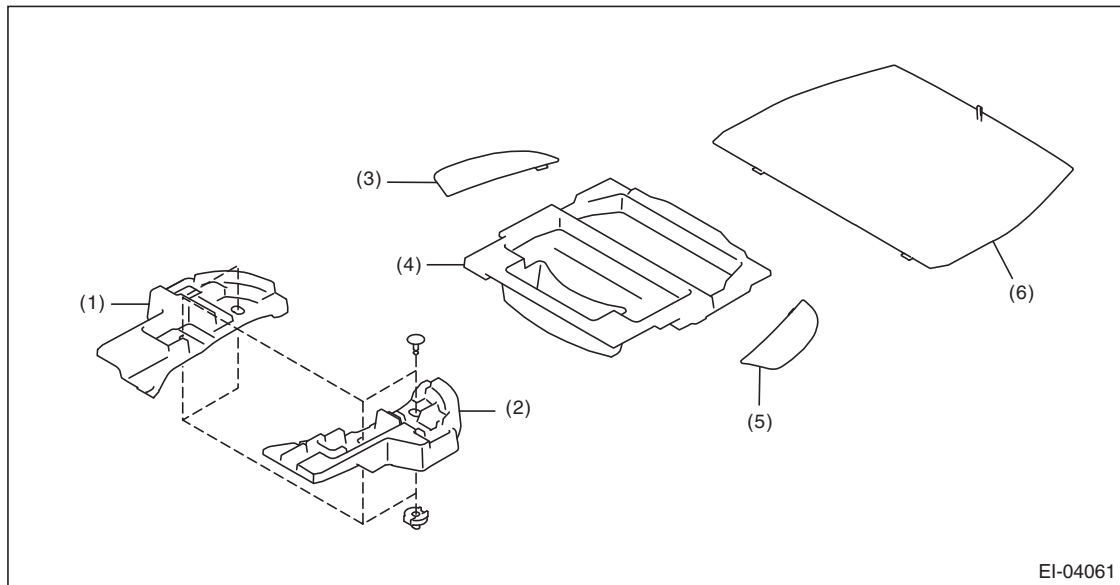
Do not pull with excessive force. Doing so may damage the claws of the cover side sill - rear INN.



Rear Seat Belt

SEAT BELT SYSTEM

4) Remove the mat - rear floor, spacer - rear floor, and cover - trunk.

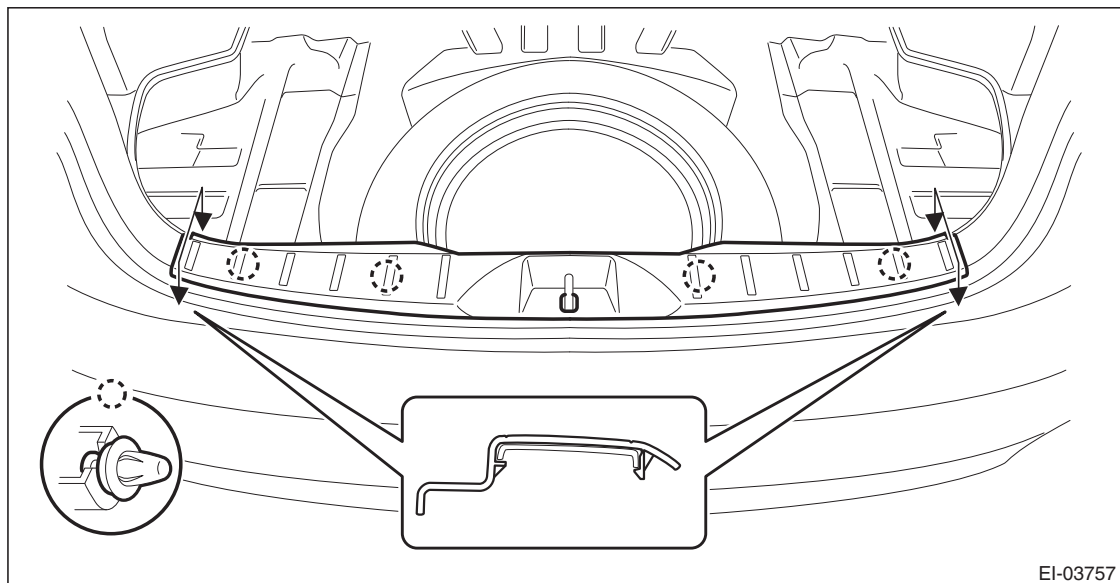


- (1) Spacer - rear floor side RH
- (2) Spacer - rear floor side LH

- (3) Mat - rear floor RH
- (4) Cover - trunk

- (5) Mat - rear floor LH
- (6) Mat - rear floor CTR

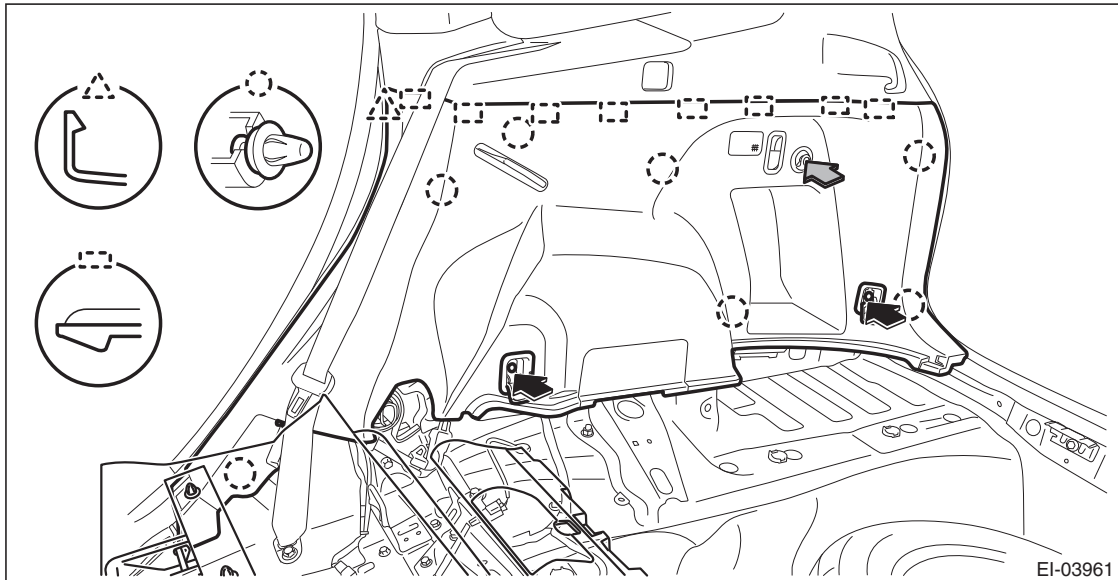
5) Remove the clips, and remove the trim panel - rear skirt.



Rear Seat Belt

SEAT BELT SYSTEM

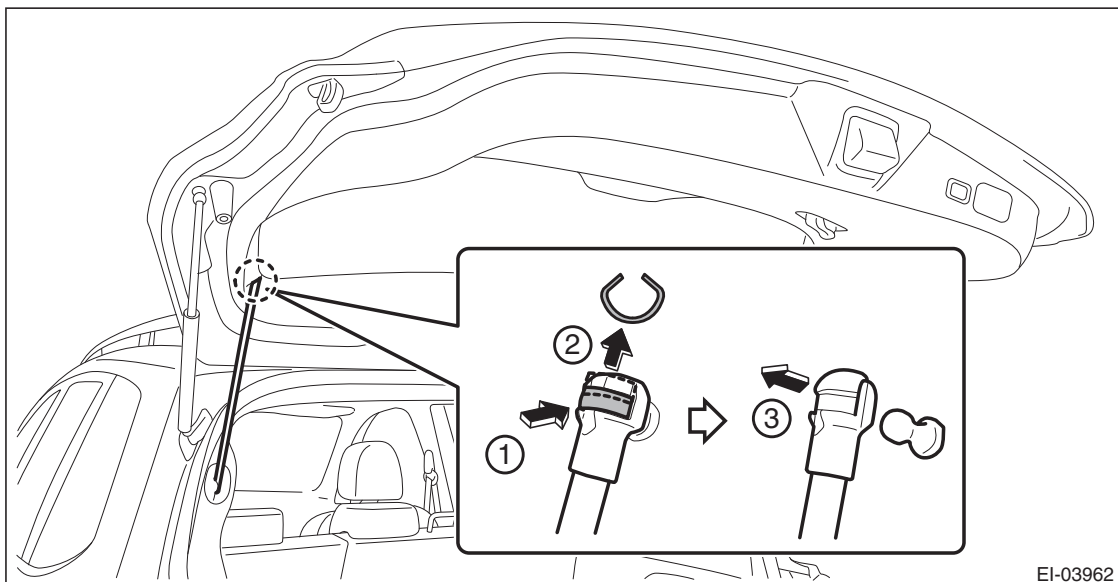
- 6) Remove the trim panel - rear apron.
- (1) Open the cover, remove the bolts, and remove the hook - luggage. (2 places)
 - (2) Remove the screws, and release the clips.
 - (3) Disconnect the connectors and remove the trim panel - rear apron.



- 7) Remove the trim panel - rear quarter pillar UPR.
- (1) Disconnect the rod - power rear gate before removing the trim panel - rear quarter pillar UPR LH. (Only for models with power rear gate)

CAUTION:

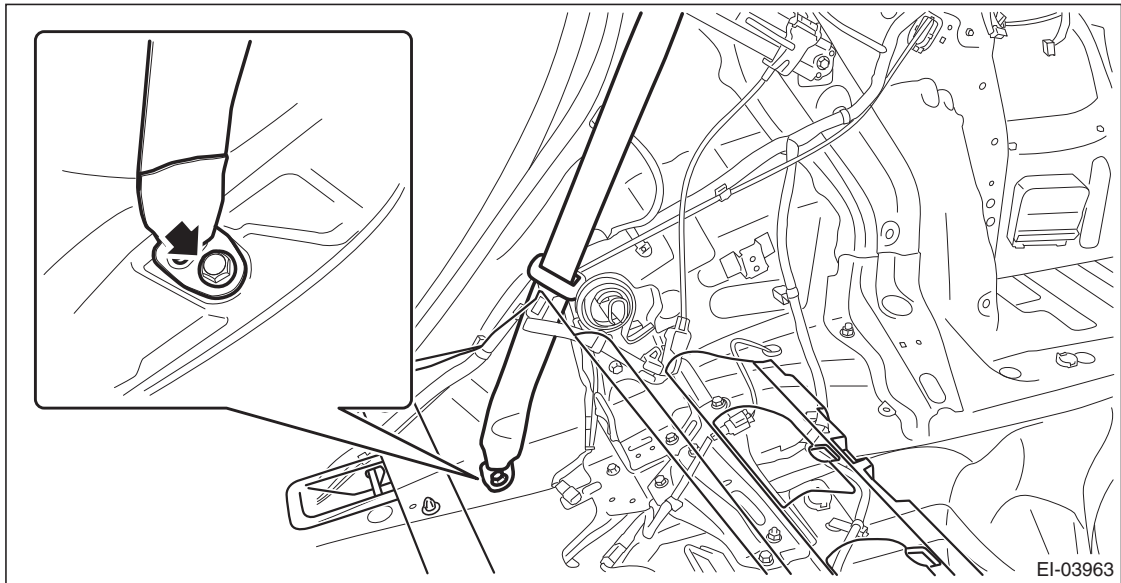
For the disconnection procedure of the rod - power rear gate, refer to "REMOVAL", "Power Rear Gate Rod" in the "POWER REAR GATE" section and observe the precautions for removal. <Ref. to PRG-13, REMOVAL, Power Rear Gate Rod.>



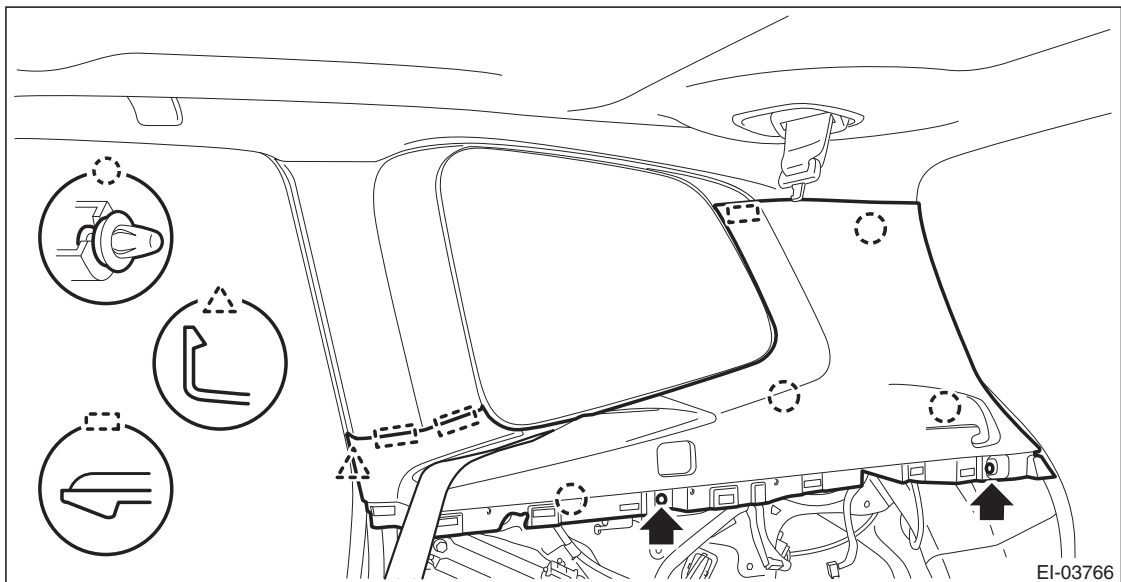
Rear Seat Belt

SEAT BELT SYSTEM

- (2) Remove the lower anchor bolts of rear seat belts.



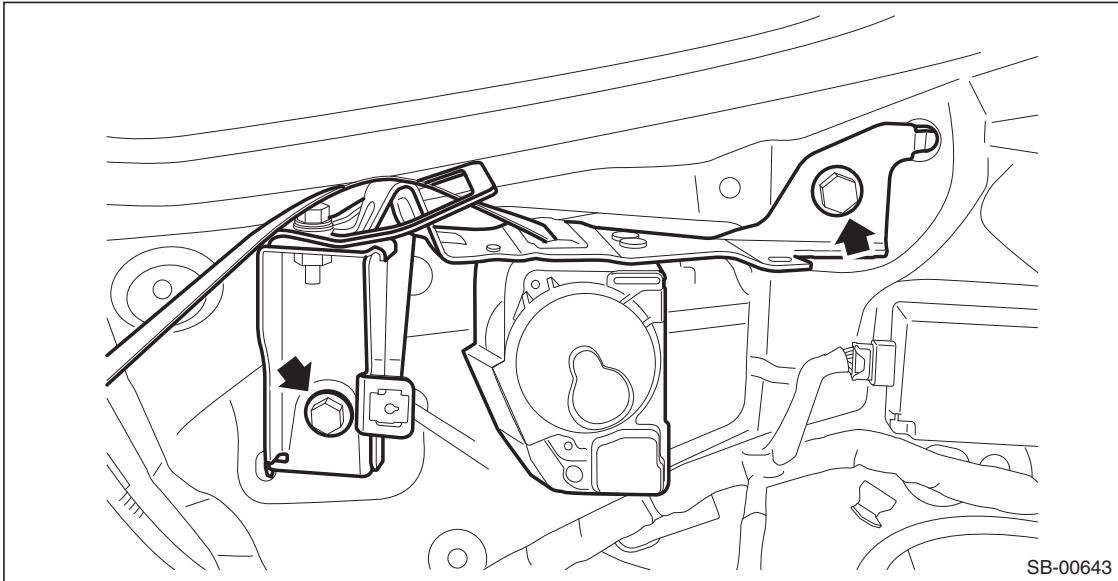
- (3) Remove the screws and clips, and remove the trim panel - rear quarter pillar UPR.



Rear Seat Belt

SEAT BELT SYSTEM

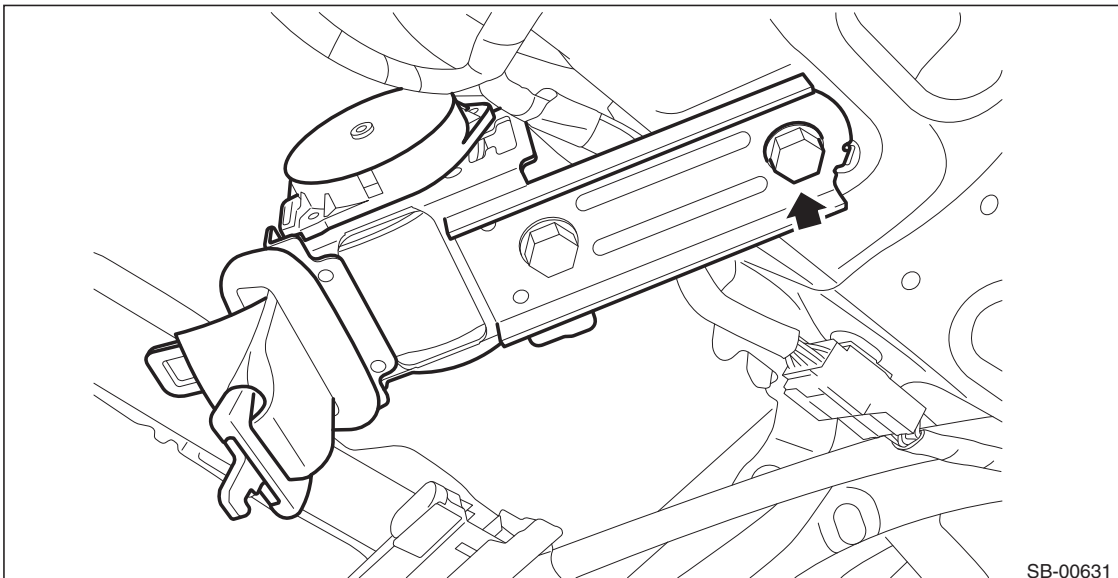
8) Remove the bolts, and remove the seat belt outer - rear.



2. SEAT BELT - REAR SHOULDER CTR

CAUTION:

- Airbag system satellite safing sensor is located in the lower of the rear seat cushion center. Before removing the rear seat, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" section. <Ref. to AB-9, CAUTION, General Description.>
 - The airbag system is fitted with a backup power supply. After disconnecting the battery ground cable, the airbag may operate if you do not wait for 60 seconds before starting the service of airbag system.
- 1) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.
 - 2) Remove the trim panel - roof assembly. <Ref. to EI-109, REMOVAL, Roof Trim.>
 - 3) Remove the bolts, and remove the seat belt - rear shoulder CTR.



Rear Seat Belt

SEAT BELT SYSTEM

3. SEAT BELT - CTR RH AND LH

CAUTION:

- Airbag system satellite safing sensor is located in the lower of the rear seat cushion center. Before removing the rear seat, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" section. <Ref. to AB-9, CAUTION, General Description.>

- The airbag system is fitted with a backup power supply. After disconnecting the battery ground cable, the airbag may operate if you do not wait for 60 seconds before starting the service of airbag system.

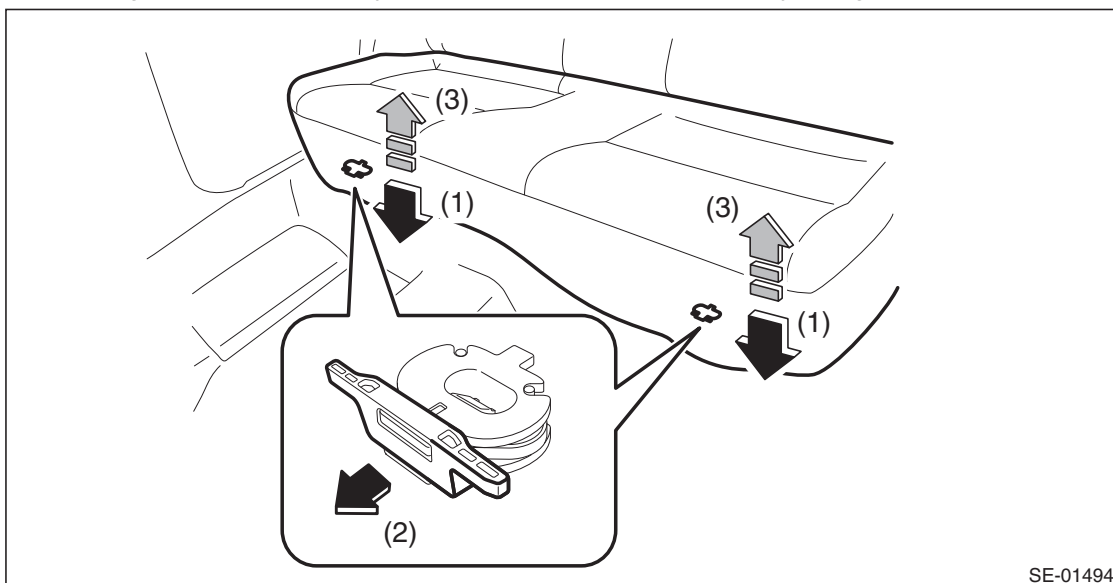
1) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.

2) Remove the rear seat cushion assembly.

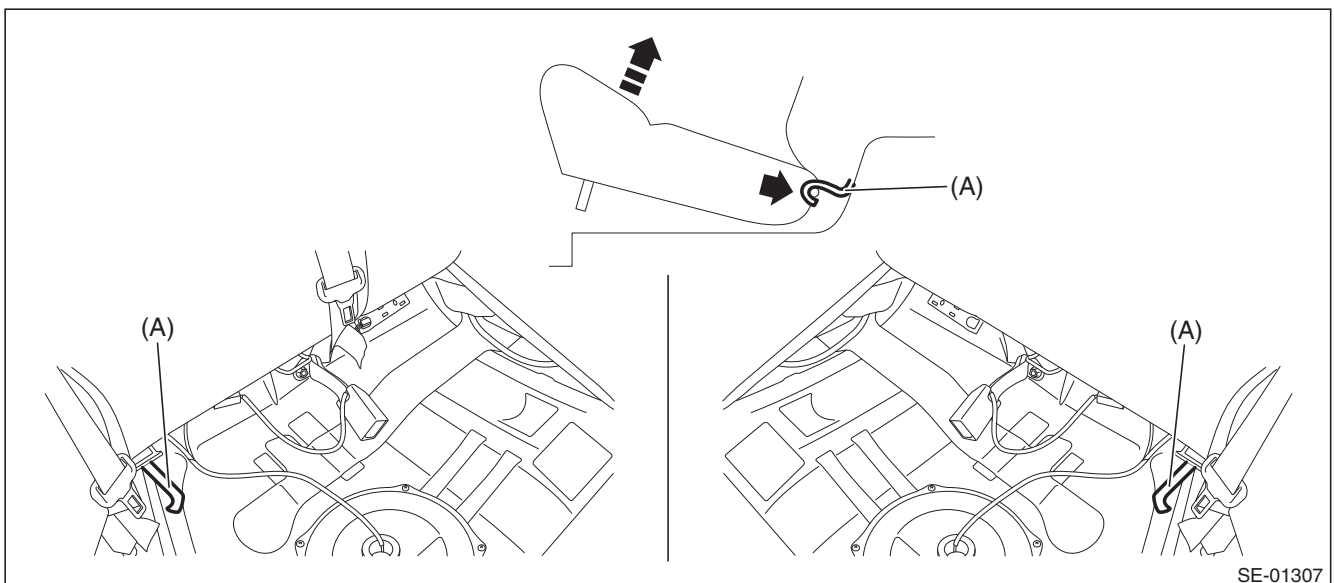
(1) Push the corners of the rear seat cushion from above.

(2) While pushing the corners of the rear seat cushion from above, pull the knob of the hook - seat cushion rear towards yourself.

(3) While pulling the knob towards yourself, disconnect the hooks by lifting up the rear seat cushion.



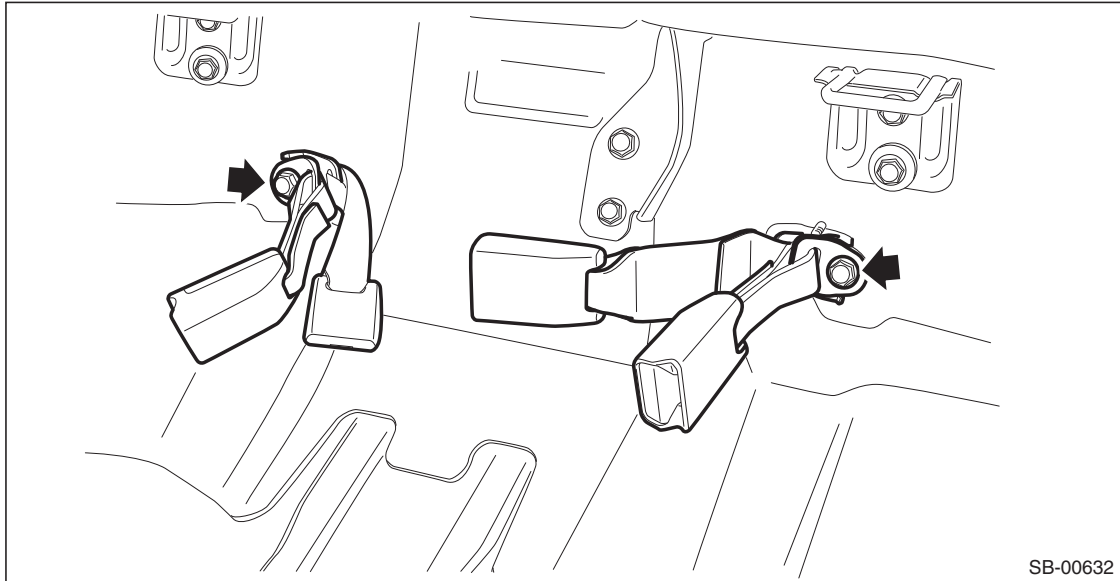
(4) Remove the hook (A) by pushing it back while lifting the front side of the rear seat cushion, and remove the rear seat cushion.



Rear Seat Belt

SEAT BELT SYSTEM

3) Remove the bolts, and remove the seat belt - CTR RH and LH.



B: INSTALLATION

1. SEAT BELT OUTER - REAR RH & LH

- 1) Before installation, perform a unit inspection of retractor. <Ref. to SB-39, INSPECTION, Rear Seat Belt.>
- 2) Install the seat belt outer - rear.

CAUTION:

- During installation, make sure that the seat belts are not twisted.
- After installation, make sure that the seat belts are smoothly extended and wound.

Tightening torque:

Refer to "COMPONENT" of "General Description". <Ref. to SB-3, REAR SEAT BELT, COMPONENT, General Description.>

- 3) Install the trim panel - rear quarter trim UPR.
- 4) Install the remaining parts in the reverse order of removal.
- 5) After installation, check the following points.
 - The seat belt is not twisted.
 - The seat belt can be pulled out and retracted smoothly.

Rear Seat Belt

SEAT BELT SYSTEM

2. SEAT BELT - REAR SHOULDER CTR

1) Install the seat belt - rear shoulder CTR.

Tightening torque:

Refer to “COMPONENT” of “General Description”. <Ref. to SB-3, REAR SEAT BELT, COMPONENT, General Description.>

2) Install the remaining parts in the reverse order of removal.

CAUTION:

- For installation of the stereo camera cover, refer to “INSTALLATION”, “Stereo Camera Cover” in the “EyeSight” section and observe the precautions for installation. <Ref. to ES-15, INSTALLATION, Stereo Camera.>
- For installation of the rod - power rear gate, refer to “INSTALLATION”, “Power Rear Gate Rod” in the “POWER REAR GATE” section and observe the precautions for installation. <Ref. to PRG-14, INSTALLATION, Power Rear Gate Rod.>
- Check that there is no damage to the tether clip on the upper part of the trim panel - front pillar UPR. If the tether clip is damaged, always replace it with a new tether clip.
- Do not reuse the tether clip removed from the upper part of the trim panel - front pillar UPR. Always replace with a new part.
- Do not reuse the upper clips of the trim panel - center pillar UPR. Once the clip is removed, its holding force is reduced. Be sure to replace it with a new clip.
- Before installing the trim panel - front pillar UPR, check the condition of protective non-woven fabric (white) of the curtain airbag. If it is damaged (airbag module cloth is exposed), replace the curtain airbag module assembly with a new part.

NOTE:

For installation of the trim panel - front pillar UPR, refer to “Upper Inner Trim”. <Ref. to EI-101, INSTALLATION, Upper Inner Trim.>

3) After installation, check the following points.

- The seat belt is not twisted.
- The seat belt can be pulled out and retracted smoothly.

3. SEAT BELT - CTR RH AND LH

1) Install the seat belt - CTR RH/LH.

Tightening torque:

Refer to “COMPONENT” of “General Description”. <Ref. to SB-3, REAR SEAT BELT, COMPONENT, General Description.>

2) Install the rear seat cushion.

3) Install the remaining parts in the reverse order of removal.

4) After installation, check the following points.

- The seat belt is not twisted.
- Check that the airbag warning light lights up for approximately 6 seconds and then turns off when connecting the battery ground cable and turning the ignition switch to ON.



C: INSPECTION

1. VISUAL INSPECTION

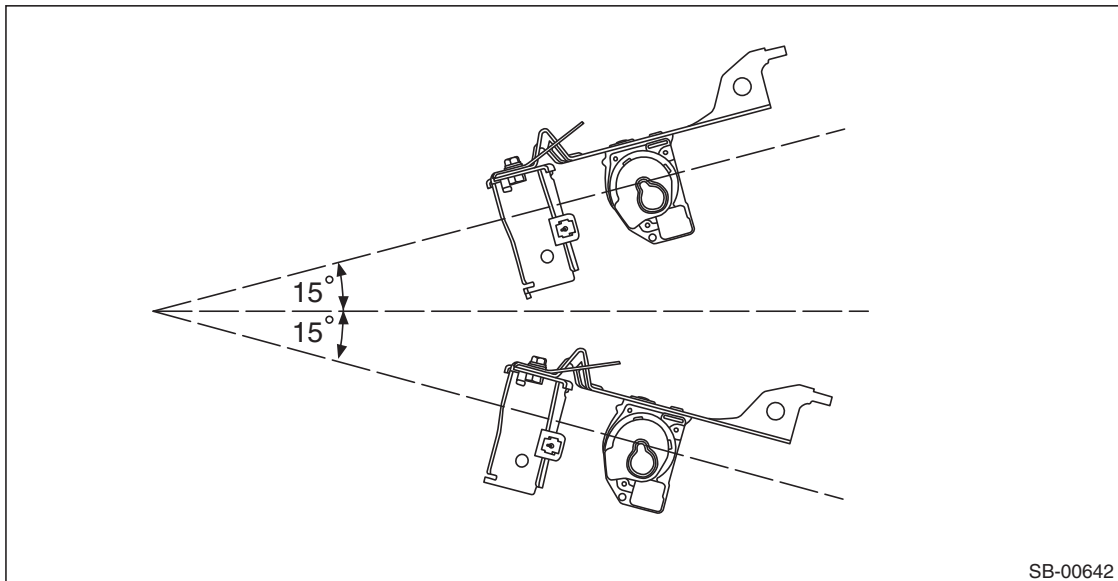
Check for the following, and replace with new parts if necessary.

- Seat belt is slackened, bent or worn.
- Seat belt is abnormally wound or extended.
- Seat belt inner - rear is deformed or damaged.
- Seat belt buckle cannot be engaged properly.

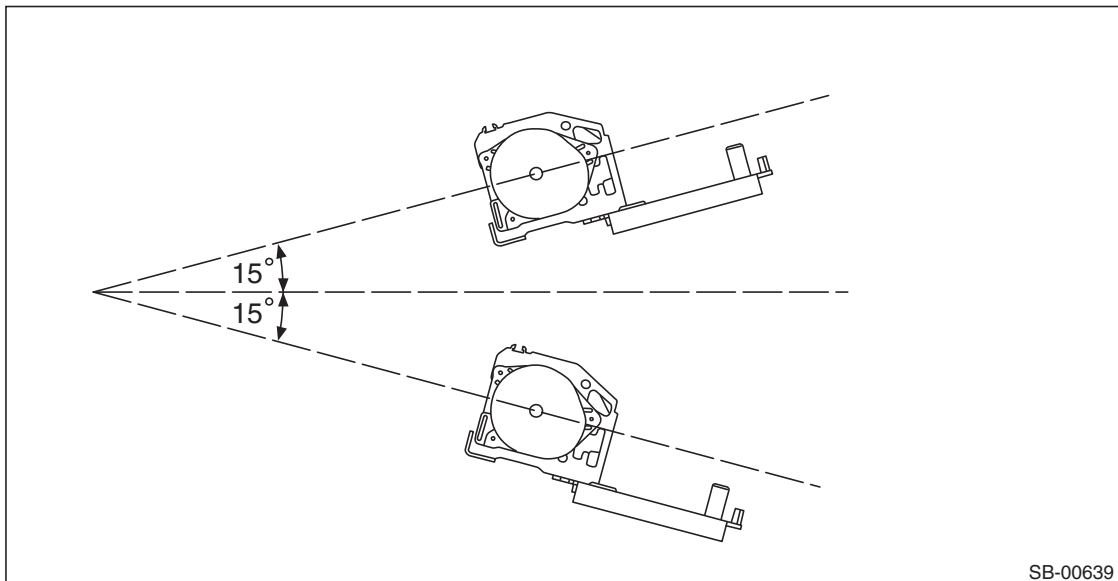
2. ELR LOCK MECHANISM INSPECTION

- 1) Hold the retractor in horizontal position (as installed in the vehicle) and check the ELR lock mechanism.
- 2) Tilt the retractor from the horizontal position and make sure it does not lock within the tilting angle of 15° or less.

- Seat belt outer - rear RH & LH



- Seat belt - rear shoulder CTR



- 3) If the ELR lock mechanism does not operate properly, replace the seat belt outer - rear with a new part.

Rear Seat Belt

SEAT BELT SYSTEM

SEATS

SE

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1. General Description	2
2. Front Seat	8
3. Rear Seat	32
4. Power Seat System	44
5. Seat Heater System	51
6. Rear Seat Reclining System	57
7. Remote Control Back Rest System	59



General Description

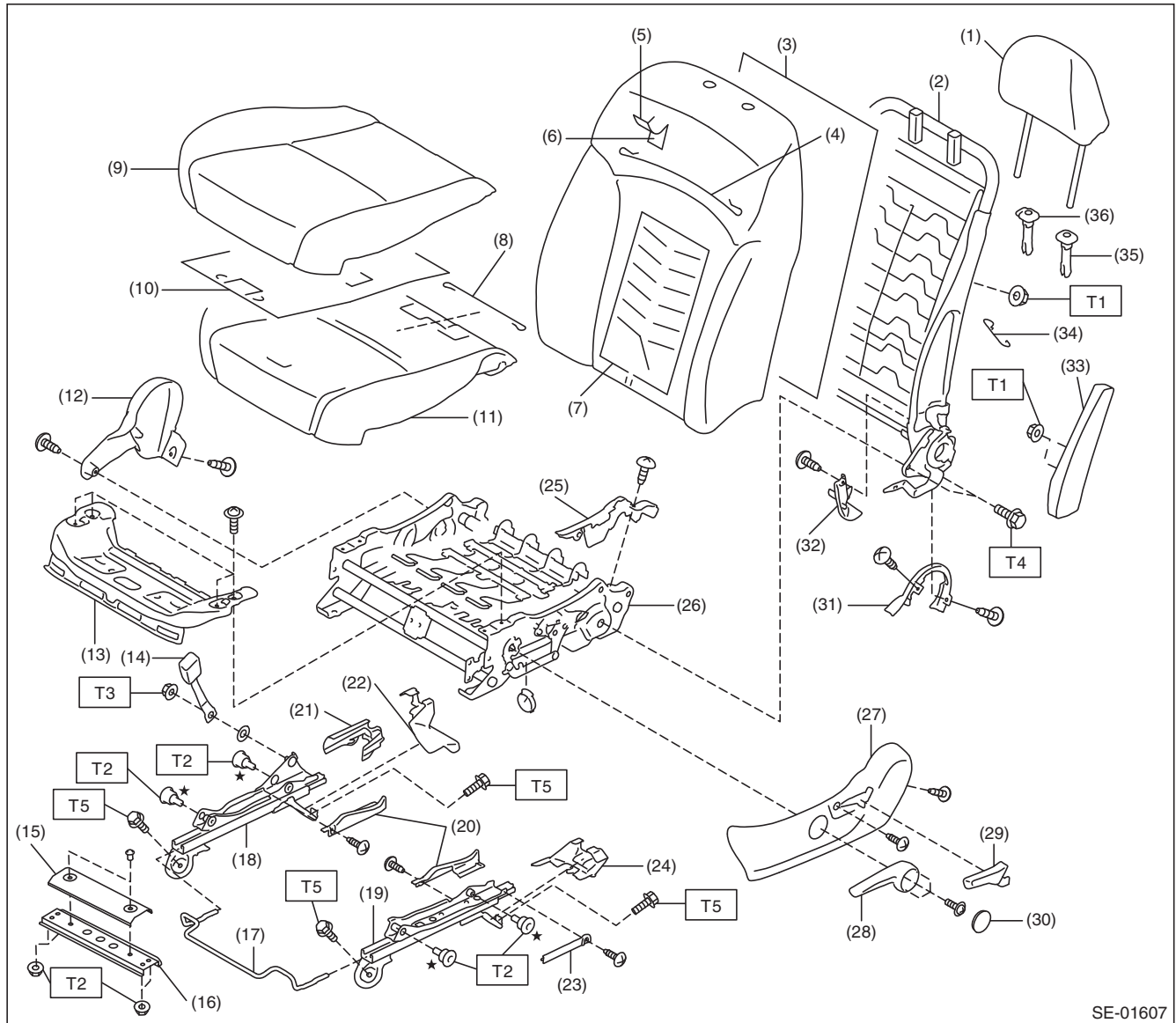
SEATS

1. General Description

A: COMPONENT

1. FRONT SEAT

- Manual seat LH



SE-01607

General Description

SEATS

(1) Headrest ASSY - front	(16) Member - bracket	(31) Cover - hinge base front seat
(2) Frame ASSY - front backrest	(17) Lever - towel bar	(32) Cover - inner front
(3) Cover - silencer front seat backrest	(18) Slide rail ASSY - INN	(33) Side airbag module
(4) Wire set - front seat backrest	(19) Slide rail ASSY - OUT	(34) Hook - backrest front
(5) Cover COMPL - front backrest	(20) Cover - slide rail INN	(35) Bushing - free headrest
(6) Pad ASSY - front seat backrest	(21) Leg cover UPR	(36) Bushing - lock headrest
(7) Heater unit - front seat backrest	(22) Cover - bolt rear INN	
(8) Wire set - front seat cushion	(23) Cover - slide rail OUT	
(9) Cover - front cushion	(24) Cover - bolt rear OUT	
(10) Heater unit - front seat cushion	(25) Cover - frame front cushion	
(11) Pad ASSY - front seat cushion	(26) Frame ASSY - front cushion	
(12) Cover - hinge front seat INN	(27) Cover - hinge front seat OUT	
(13) Panel - front seat	(28) Knob - lifter	
(14) Seat belt inner - front	(29) Lever - reclining	
(15) Member - cover	(30) Cap - lifter lever	

Tightening torque: N·m (kgf-m, ft-lb)

T1: 6 (0.61, 4.4)

T2: 18 (1.84, 13.3)

T3: 38 (3.87, 28.0)

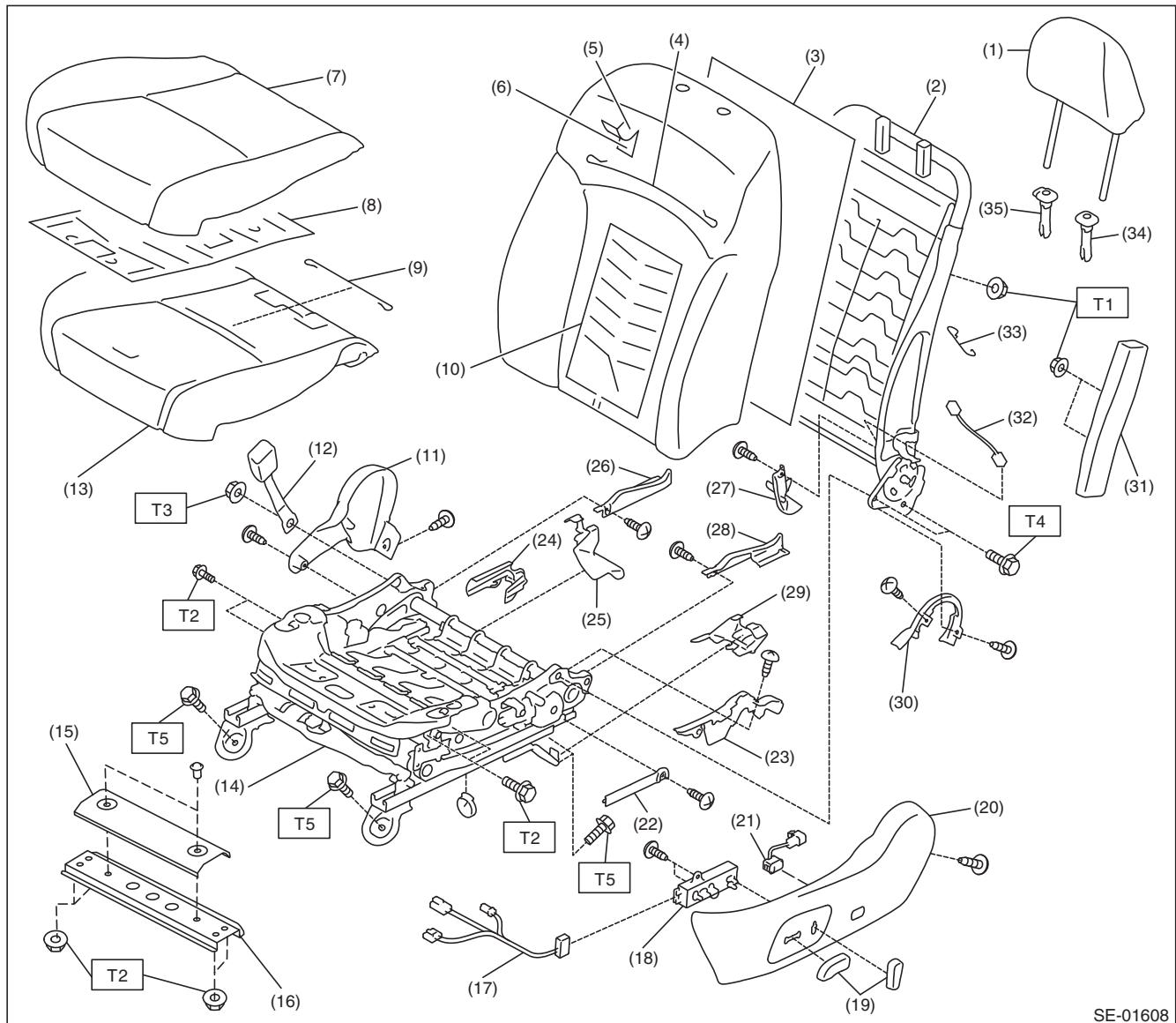
T4: 52 (5.30, 38.4)

T5: 53 (5.40, 39.1)

General Description

SEATS

• Power seat LH



SE-01608

- | | | |
|--|---------------------------------------|--------------------------------|
| (1) Headrest ASSY - front | (16) Member - bracket | (31) Side airbag module |
| (2) Frame ASSY - front backrest | (17) Harness ASSY - power seat | (32) Harness ASSY - power seat |
| (3) Cover - silencer front seat backrest | (18) Switch ASSY - power seat | (33) Hook - backrest front |
| (4) Wire set - front seat backrest | (19) Knob - power seat | (34) Bushing - free headrest |
| (5) Cover COMPL - front backrest | (20) Switch ASSY - lumbar | (35) Bushing - lock headrest |
| (6) Pad ASSY - front seat backrest | (21) Cover - hinge front seat OUT | |
| (7) Cover - front cushion | (22) Cover - slide rail OUT | |
| (8) Heater unit - front cushion | (23) Cover - frame front seat cushion | |
| (9) Wire set - front seat cushion | (24) Leg cover UPR | |
| (10) Heater unit - front seat backrest | (25) Cover - bolt rear INN | |
| (11) Cover - hinge front seat INN | (26) Cover - slide rail INN | |
| (12) Seat belt inner - front | (27) Cover - inner front | |
| (13) Pad ASSY - front seat cushion | (28) Cover - slide rail OUT | |
| (14) Frame ASSY - front cushion | (29) Cover - bolt rear OUT | |
| (15) Member - cover | (30) Cover - hinge base front seat | |

Tightening torque: N-m (kgf-m, ft-lb)

T1: 6 (0.61, 4.4)

T2: 18 (1.84, 13.3)

T3: 38 (3.87, 28.0)

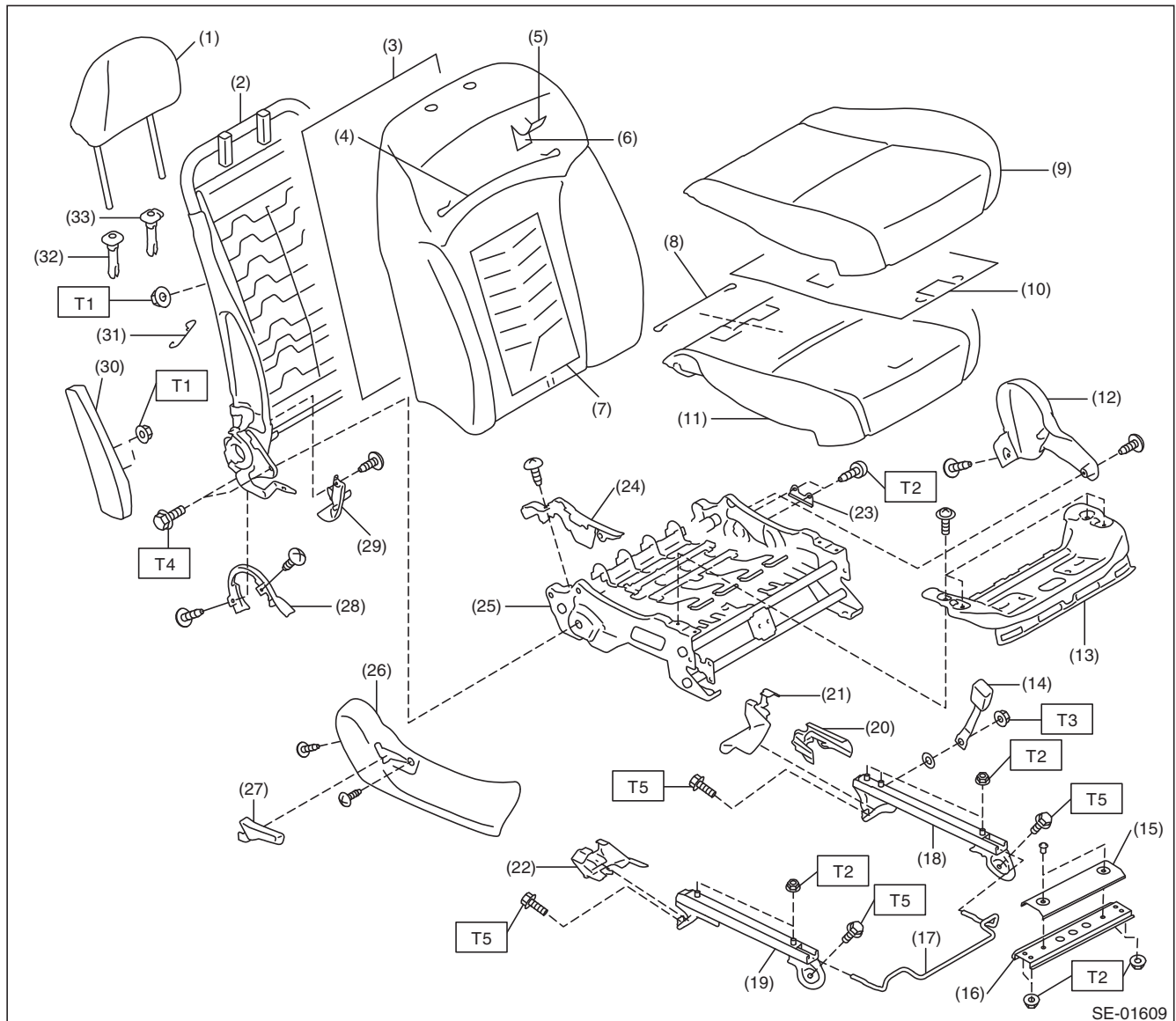
T4: 52 (5.30, 38.4)

T5: 53 (5.40, 39.1)

General Description

SEATS

• Manual seat RH



- | | | |
|--|------------------------------------|------------------------------|
| (1) Headrest ASSY - front | (15) Member - cover | (29) Cover - inner front |
| (2) Frame ASSY - front backrest | (16) Member - bracket | (30) Side airbag module |
| (3) Cover - silencer front seat backrest | (17) Lever - towel bar | (31) Hook - backrest front |
| (4) Wire set - front seat backrest | (18) Slide rail ASSY - INN | (32) Bushing - free headrest |
| (5) Cover COMPL - front backrest | (19) Slide rail ASSY - OUT | (33) Bushing - lock headrest |
| (6) Pad ASSY - front seat backrest | (20) Leg cover UPR | |
| (7) Heater unit - front seat backrest | (21) Cover - bolt rear INN | |
| (8) Wire set - front seat cushion | (22) Cover - bolt rear OUT | |
| (9) Cover - front cushion | (23) J hook | |
| (10) Heater unit - front seat cushion | (24) Cover - frame front cushion | |
| (11) Pad ASSY - front seat cushion | (25) Frame ASSY - front cushion | |
| (12) Cover - hinge front seat INN | (26) Cover - hinge front seat OUT | |
| (13) Panel - front seat | (27) Lever - reclining | |
| (14) Seat belt inner - front | (28) Cover - hinge base front seat | |

Tightening torque: N-m (kgf-m, ft-lb)

T1: 6 (0.61, 4.4)

T2: 18 (1.84, 13.3)

T3: 38 (3.87, 28.0)

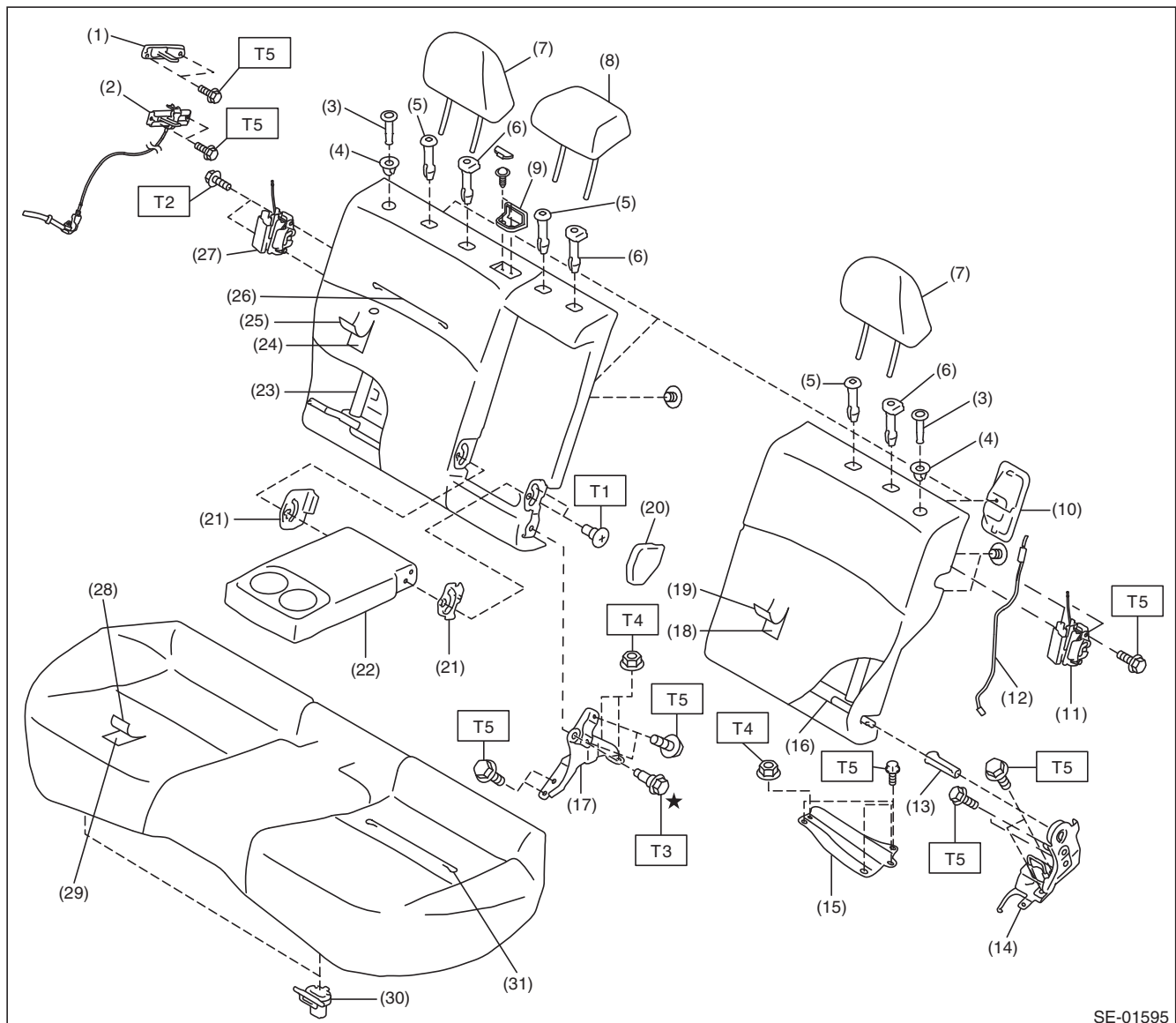
T4: 52 (5.30, 38.4)

T5: 53 (5.40, 39.1)

General Description

SEATS

2. REAR SEAT



SE-01595

- | | | |
|--|---------------------------------------|--|
| (1) Striker - backrest rear RH (except for reclining type) | (14) Hinge ASSY - rear backrest | (27) Lock ASSY - backrest rear RH |
| (2) Striker - backrest rear RH (reclining type) | (15) Hinge ASSY - rear backrest stay | (28) Cover - rear cushion |
| (3) Knob - backrest rear | (16) Frame ASSY - rear backrest LH | (29) Pad and frame ASSY - rear cushion |
| (4) Knob - guide | (17) Hinge ASSY - backrest center | (30) Hook - seat cushion rear |
| (5) Bushing - headrest | (18) Pad ASSY - rear seat backrest LH | (31) Wire set - rear cushion |
| (6) Bushing - lock ASSY | (19) Cover COMPL - rear backrest LH | |
| (7) Pillow ASSY - rear backrest | (20) Cover - armrest | |
| (8) Pillow ASSY - rear center | (21) Bushing - rear armrest | |
| (9) Belt guide - rear seat | (22) Armrest ASSY - rear center | |
| (10) Tether anchor cover | (23) Frame ASSY - rear backrest RH | |
| (11) Lock ASSY - backrest rear LH | (24) Pad ASSY - rear seat backrest RH | |
| (12) Remote control back rest actuator ASSY | (25) Cover COMPL - rear backrest RH | |
| (13) Bushing - backrest hinge | (26) Wire set - rear backrest | |

Tightening torque: N·m (kgf-m, ft-lb)

T1: 9.8 (1.0, 7.2)

T2: 17.6 (1.79, 13.0)

T3: 22.5 (2.29, 16.6)

T4: 24.5 (2.50, 18.1)

T5: 33 (3.36, 24.3)

General Description

SEATS

B: CAUTION

When removing the front seat from the vehicle, refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" section. <Ref. to AB-9, CAUTION, General Description.>

C: PREPARATION TOOL

1. GENERAL TOOL

TOOL NAME	REMARKS
Long nose plier	Used for removing the hog ring.
Hog ring pliers	Used for installing the hog ring.
Circuit tester	Used for measuring resistance and voltage.

Front Seat

SEATS

2. Front Seat

A: REMOVAL

CAUTION:

The airbag system is fitted with a backup power supply. After disconnecting the battery ground cable, the airbag may operate if you do not wait for 60 seconds before starting the service of airbag system.

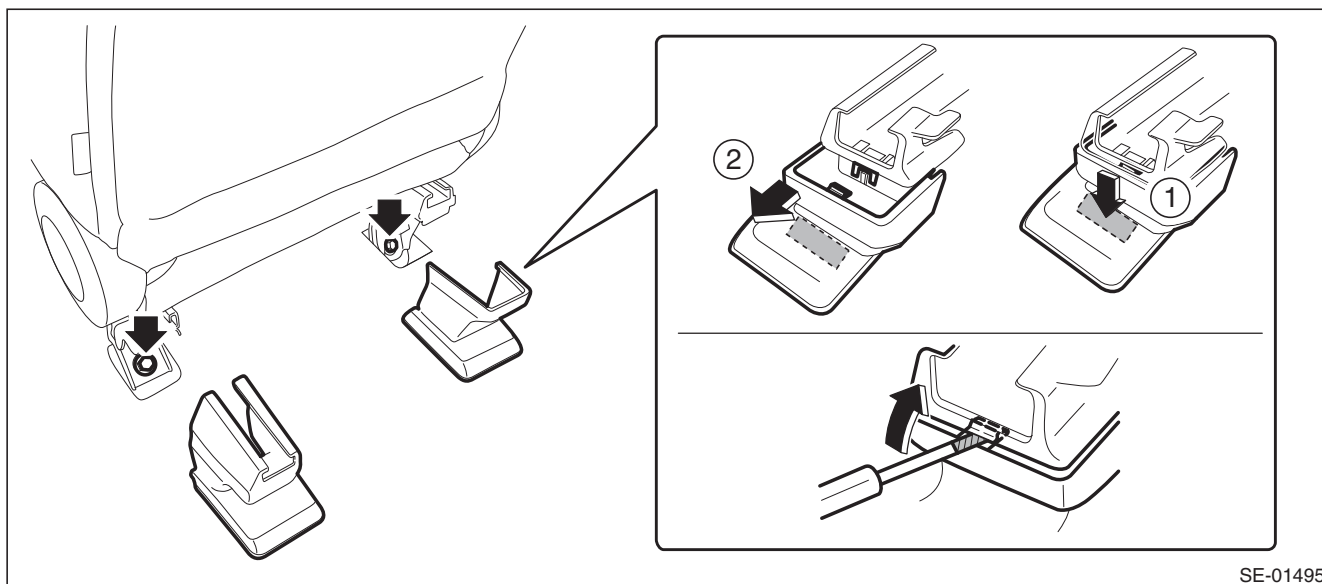
- 1) Turn the ignition switch to OFF.
- 2) Disconnect the ground cable from battery and wait for at least 60 seconds before starting work.

NOTE:

- Before removing the seat, raise the seating face.
 - For the power seat, remove the slide rail installing bolt before removing the battery ground.
- 3) Remove the headrest assembly - front.
 - 4) Remove the slide rail assembly installing bolt.
 - (1) Tilt the backrest assembly forward and move the front seat to the mid point on the slide rail.
 - (2) Remove the bolts on the front side of the front seat.
 - (3) Remove the cover - bolt rear.
 1. While spreading the tip of the cover - bolt rear OUT side to side, pull it out toward you to remove.
 2. Remove the cover - bolt rear INN.

NOTE:

- Firmly push in the cover - bolt rear INN at the point shown in the figure until a clicking sound is heard and remove it.
 - If it is difficult to remove, release the claw using a flat tip screwdriver wrapped with protection tape while pushing the point shown in the figure to remove.
- (4) Remove the bolts on the rear side of the front seat.



SE-01495

- (5) Disconnect the connector under the front seat.

CAUTION:

For the power seat, check that the battery ground cable is disconnected. If not, disconnect the battery ground cable and wait for 60 seconds or more.

- Seat belt warning light connector
- Occupant detection system harness connector (passenger's seat) <Ref. to OD(diag)-9, OCCUPANT DETECTION SYSTEM (BETWEEN AIRBAG REAR HARNESS AND SEAT HARNESS), PROCEDURE, Airbag Connector.>
- Side airbag connector <Ref. to AB-26, SIDE AIRBAG MODULE, PROCEDURE, Airbag Connector.>
- Seat heater connector (model with seat heater)
- Power seat connector (model with power seats)

- 5) Take out the front seat from the vehicle.

CAUTION:

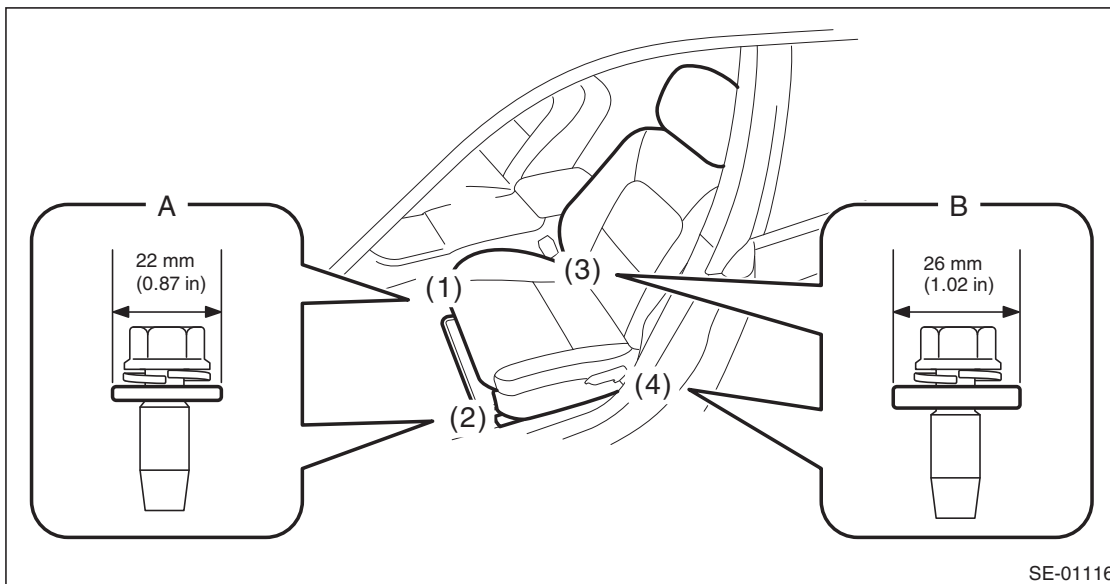
Be careful not to damage the body.

B: INSTALLATION

Install each part in the reverse order of removal.

CAUTION:

- The front seat mounting bolts differ between the front mounting points and the rear mounting points. When installing the front seat, make sure that you are using correct bolts at correct positions.
- Tighten the slide rail assembly installing bolts in the order as shown in the figure, in several steps by gradually increasing the torque until they reach the specified torque.



- Front (bolt A): Washer diameter 22 mm (0.87 in)
- Rear (bolt B): Washer diameter 26 mm (1.02 in)

Tightening torque:

Front seat assembly: 53 N·m (5.40 kgf·m, 39.1 ft·lb)

Front Seat

SEATS

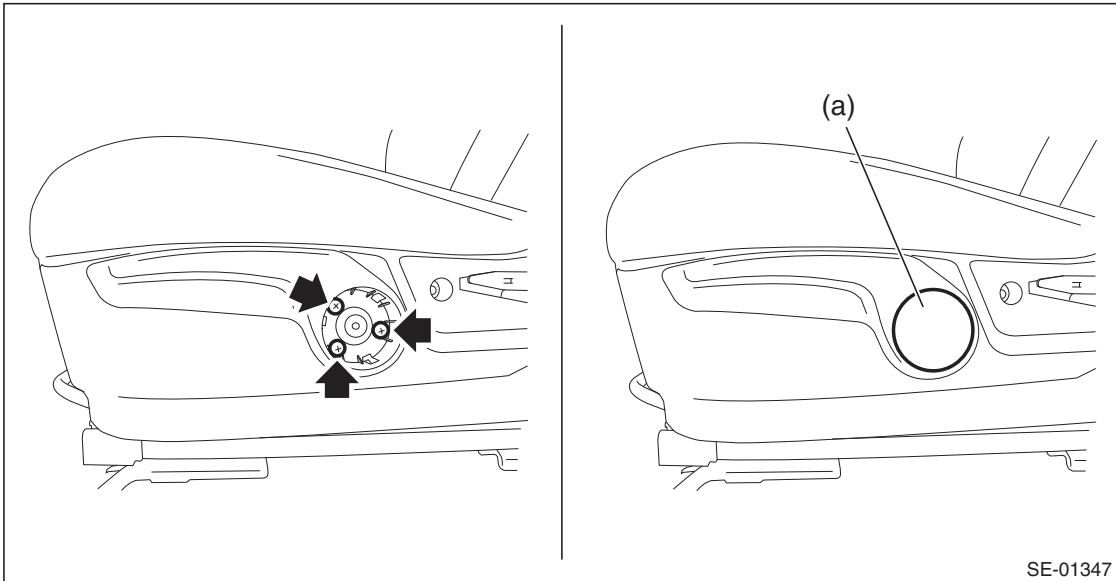
C: DISASSEMBLY

1. DRIVER SEAT (MANUAL SEAT)

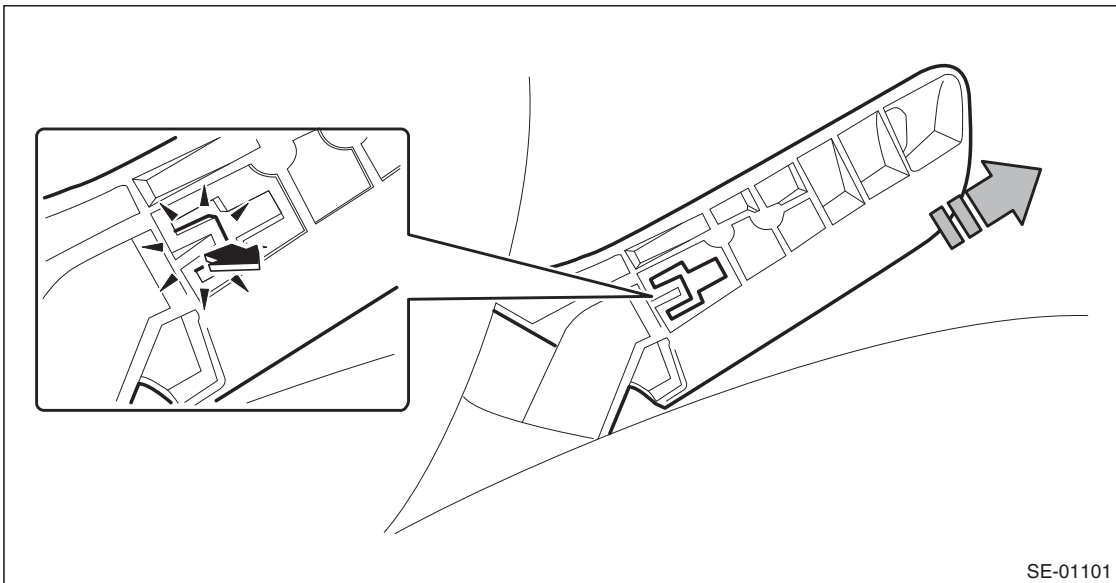
CAUTION:

Before assembling, make sure how the harnesses such as the side airbag harness and the seat belt inner - front harness are routed in order to avoid misarranging. Assembling with harnesses improperly routed may cause the harness to get caught and short out.

- 1) Remove the front seat from vehicle. <Ref. to SE-8, REMOVAL, Front Seat.>
- 2) Remove the knob - lifter.
 - (1) Using a flat tip screwdriver, remove the cap - lifter lever (a).
 - (2) Remove the screws and remove the knob - lifter.



- 3) Remove the lever - reclining.
 - (1) Pull up the lever - reclining and release the claws on the back.
 - (2) Pull out the lever - reclining.

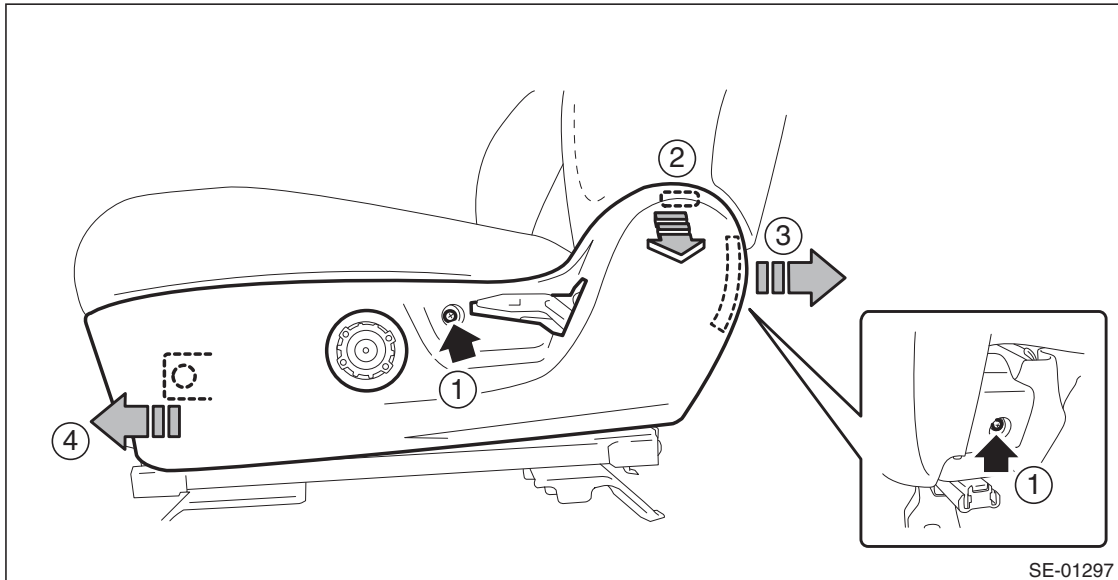


Front Seat

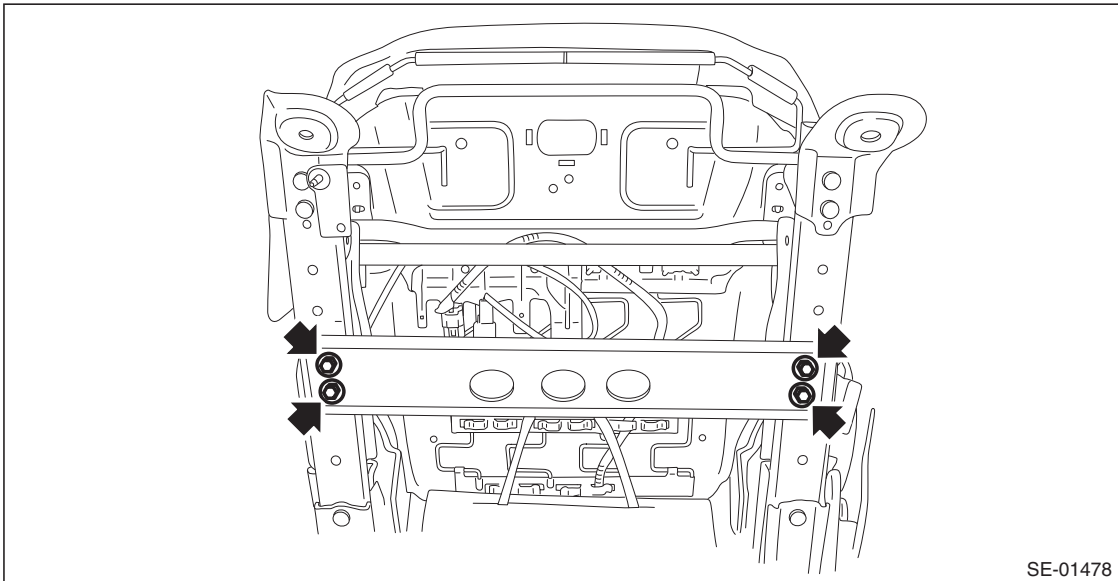
SEATS

4) Remove the cover - hinge front seat OUT.

- (1) Remove the screws.
- (2) Release the claw in the upper section of the cover - hinge front seat OUT.
- (3) Release the claw in the rear section of the cover - hinge front seat OUT.
- (4) Release the claw in the front section of the cover - hinge front seat OUT, then remove the cover - hinge front seat OUT.



5) Remove the nuts, and remove the member - bracket.

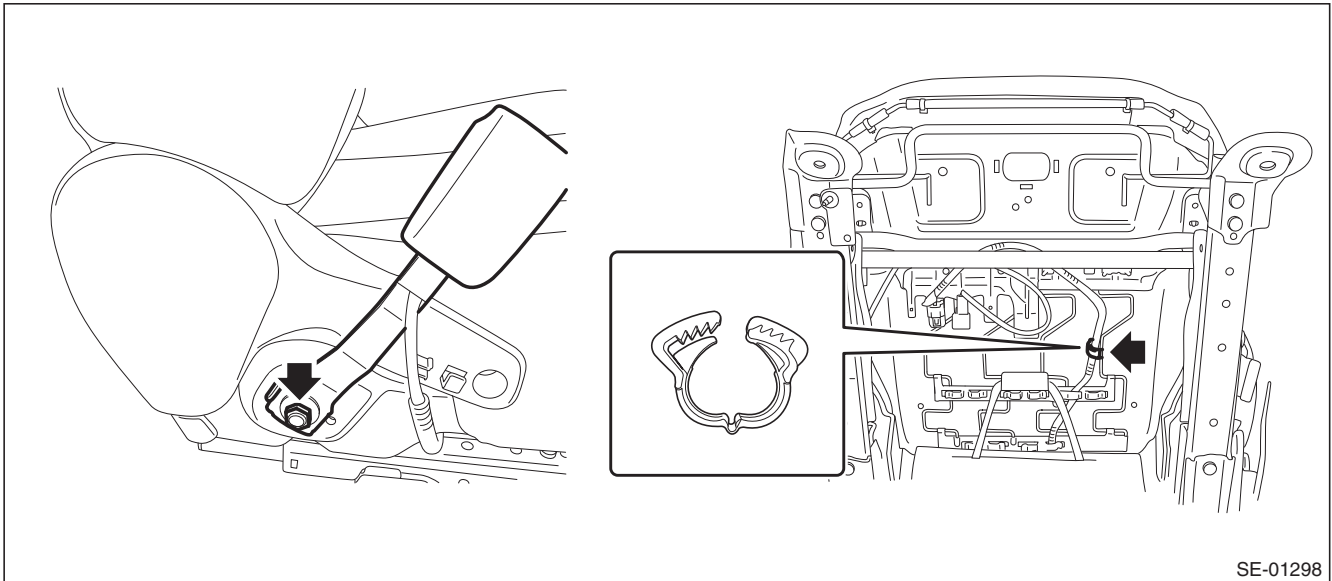


Front Seat

SEATS

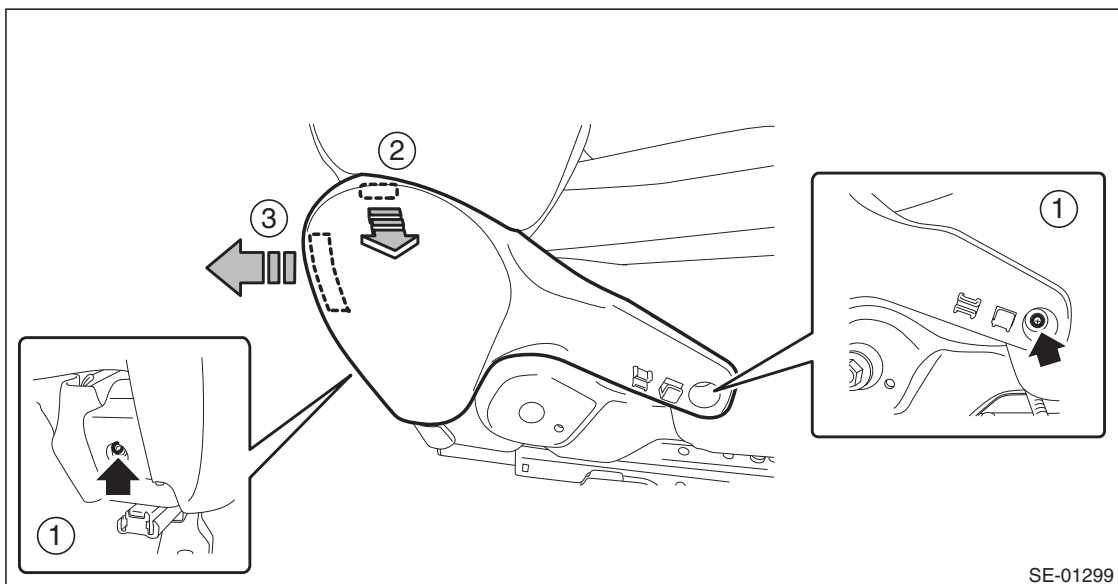
6) Remove the seat belt inner - front.

- (1) Remove the nut, and remove the seat belt inner - front.
- (2) Remove the clip for the seat belt inner - front located under the seat cushion assembly.



7) Remove the cover - hinge front seat INN.

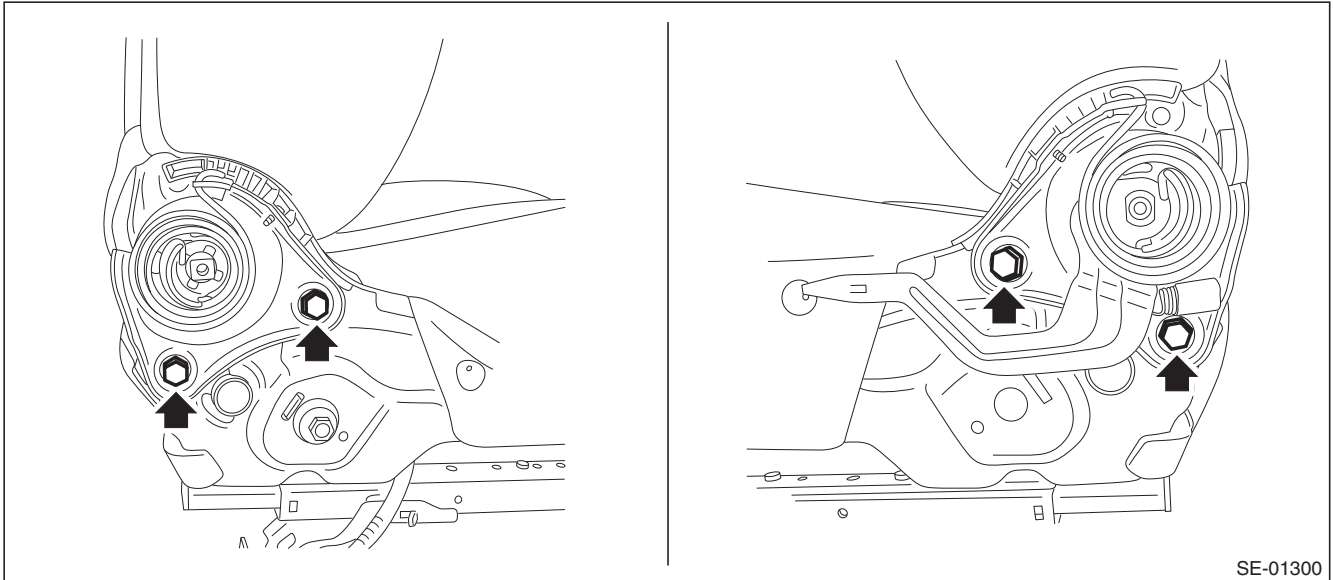
- (1) Remove the screws.
- (2) Release the claw in the upper section of the cover - hinge front seat INN.
- (3) Release the claw in the rear section of the cover - hinge front seat INN, then remove the cover - hinge front seat INN.



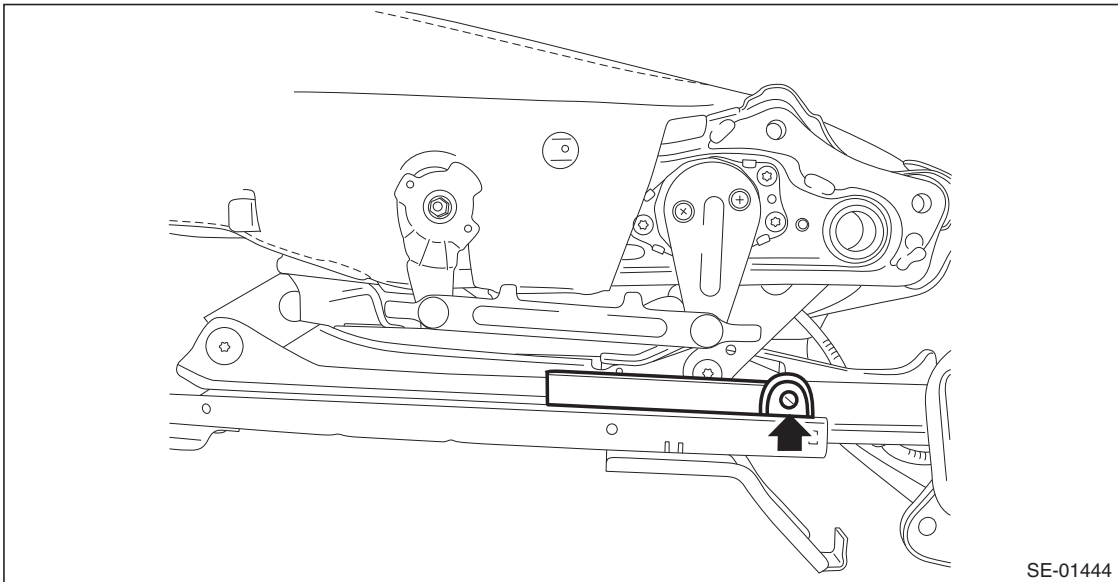
Front Seat

SEATS

- 8) Separate the backrest assembly and the seat cushion assembly.
- (1) Remove the clip for the side airbag harness located under the seat cushion assembly.
 - (2) Disconnect the seat heater harness. (Seat with seat heater)
 - (3) Remove the bolts from reclining hinge of both sides.
 - (4) While taking care not to damage the harness, separate the backrest assembly and the seat cushion assembly.



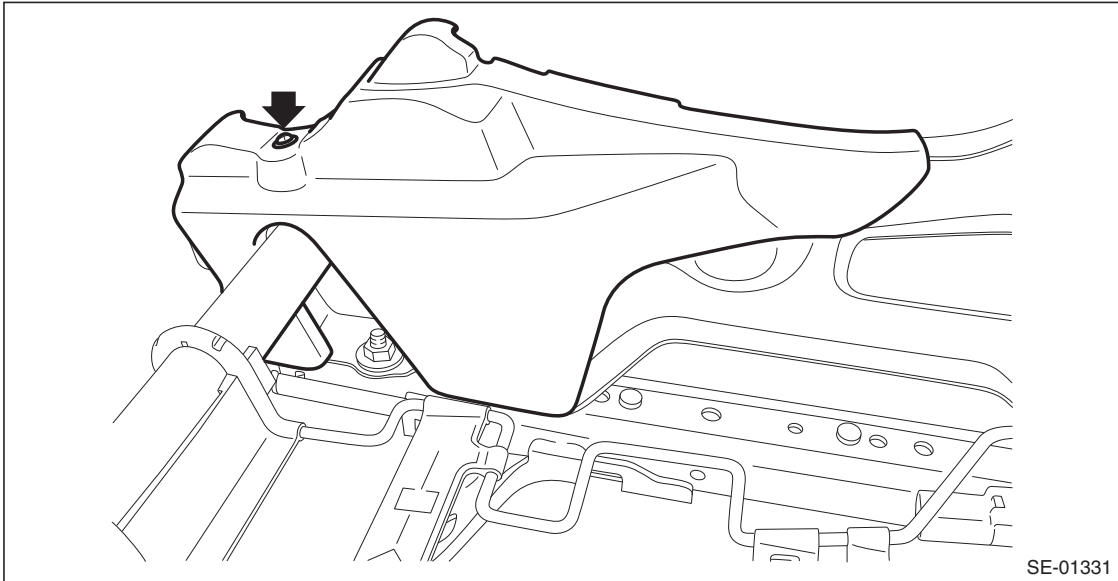
- 9) Remove the cover - slide rail OUT.
- (1) Remove the clip.
 - (2) Remove the hook, and detach the cover - slide rail OUT.



Front Seat

SEATS

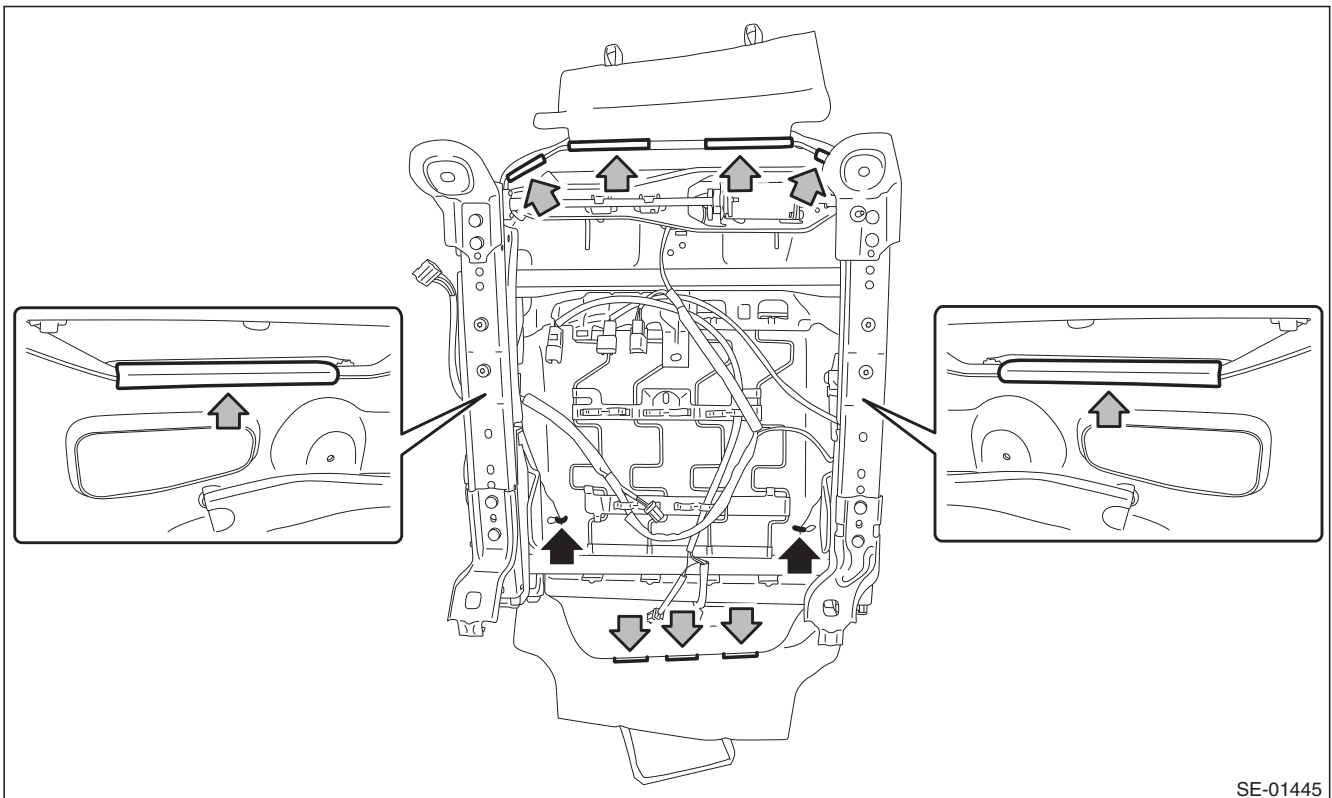
10) Remove the screws and detach the cover - slide rail INN.



11) Remove the pad assembly - front seat cushion and the cover - front cushion.

(1) Remove the hooks and hog rings.

(2) Remove the pad assembly - front seat cushion and the cover - front cushion from the seat cushion assembly.

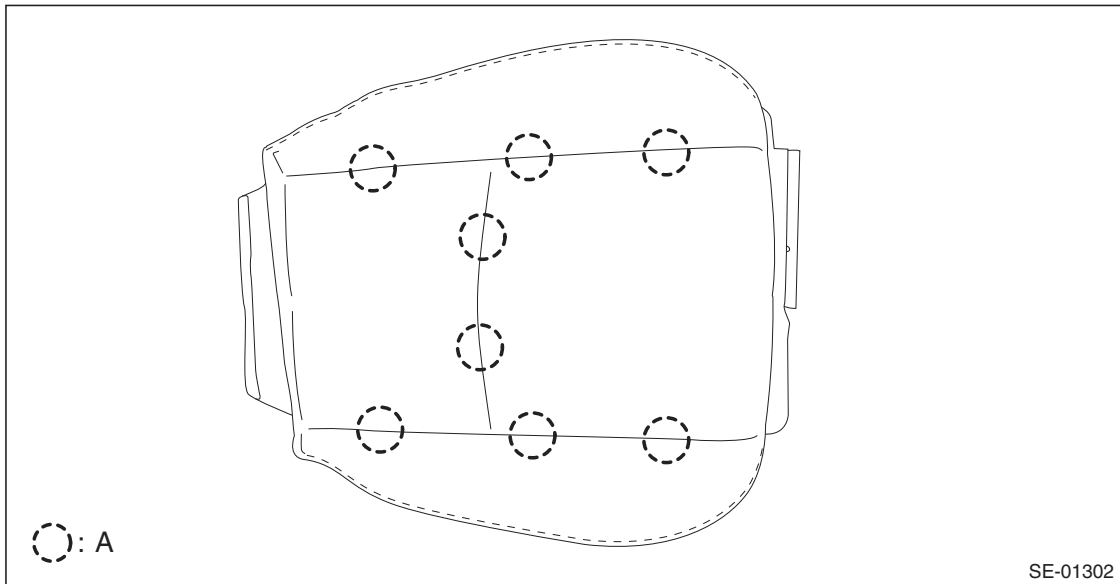


Front Seat

SEATS

12) Remove the cover - front cushion.

(1) Remove the hog ring (A).

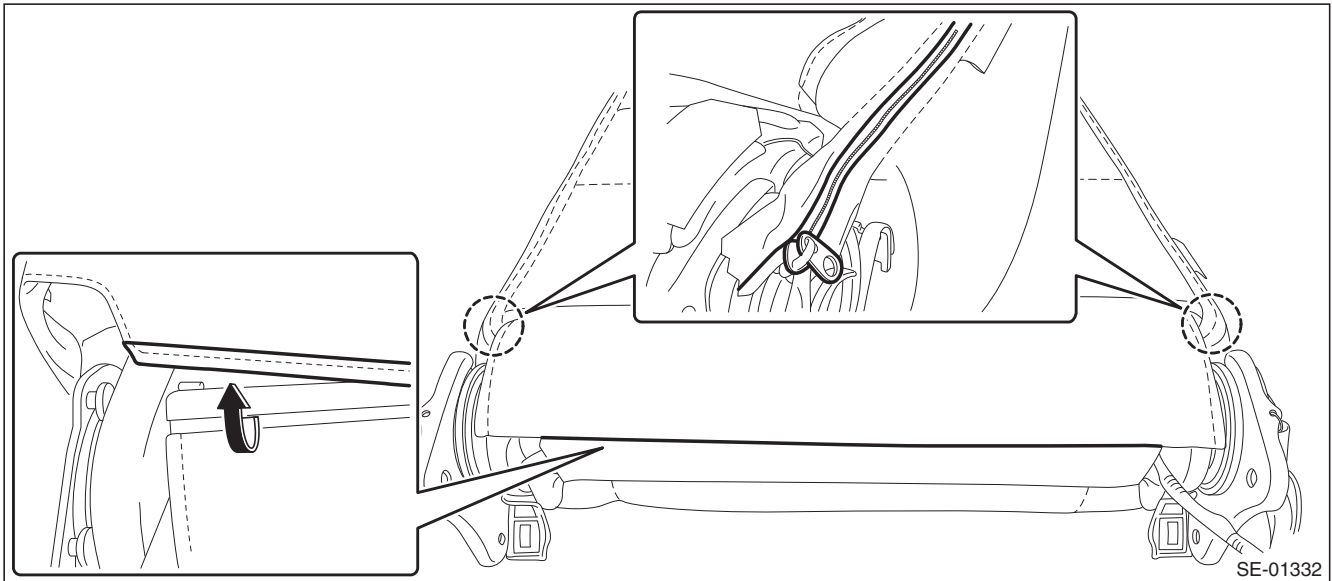


(2) Pull out the pad assembly - front seat cushion from the cover - front cushion.

13) Remove the pad assembly - front seat backrest and the cover COMPL - front backrest.

(1) Remove the plastic fastener at the back side (bottom) of backrest assembly.

(2) Open the fastener at the rear side of backrest assembly.



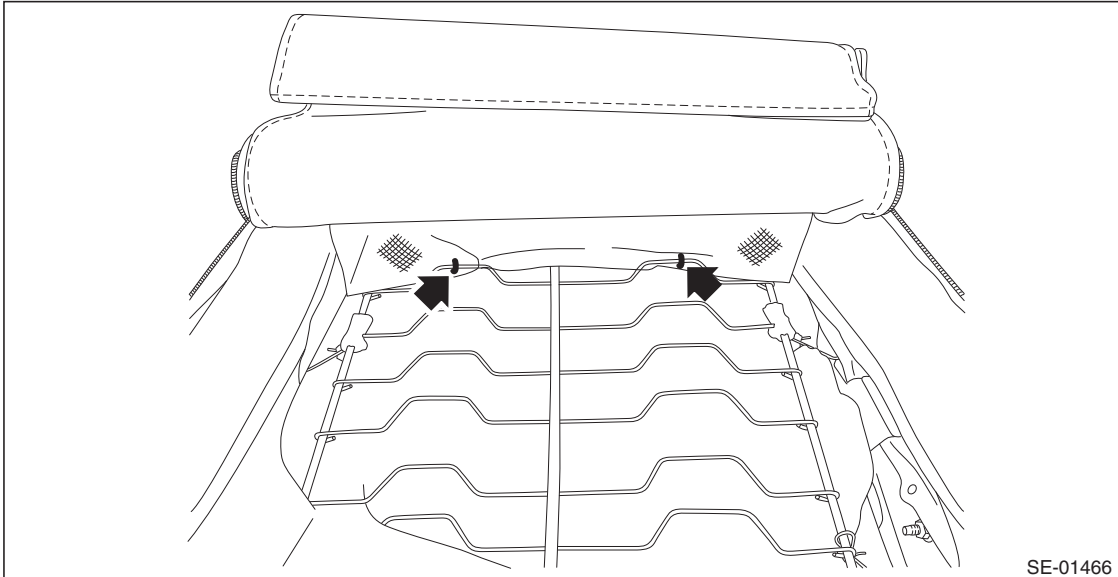
Front Seat

SEATS

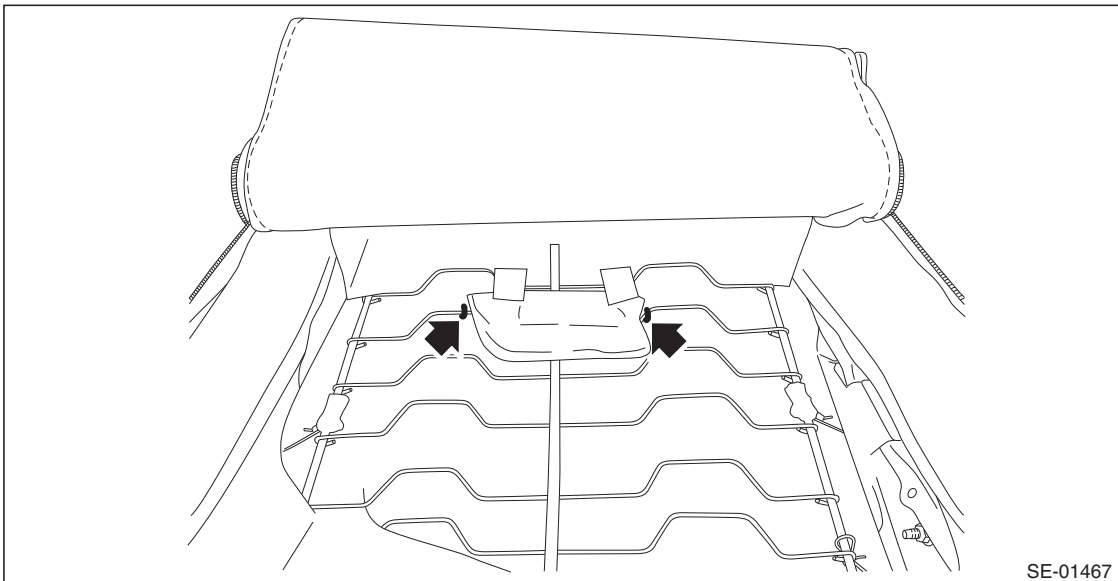
- (3) Remove the hog ring.

CAUTION:

Be careful not to tear the vinyl inside the seat when removing the hog rings.
If torn, replace with a new part.



- (4) Turn over the backrest pad & cover, and remove the hog rings.



Front Seat

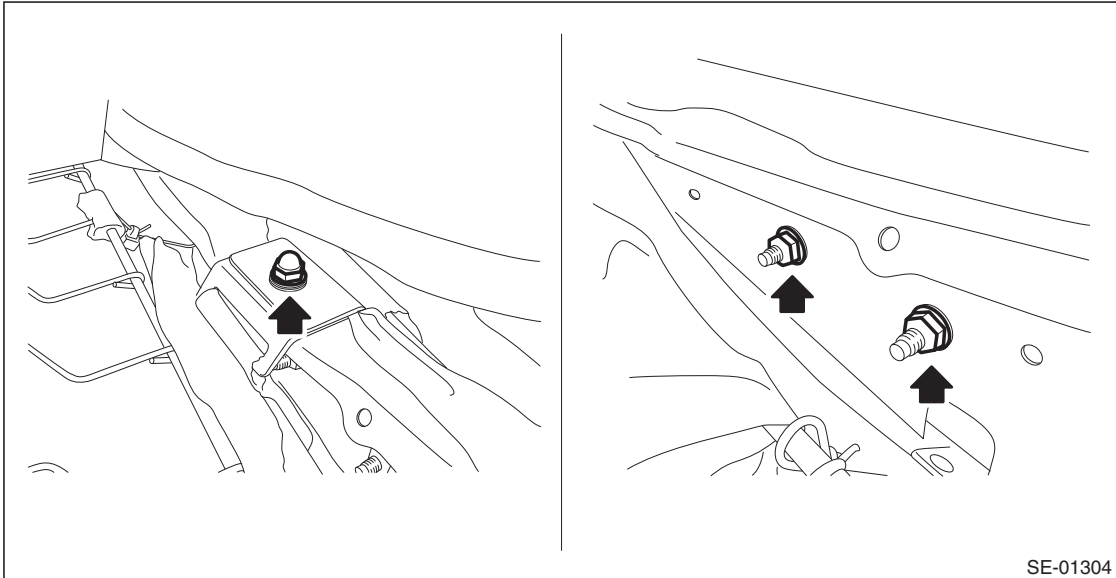
SEATS

14) Remove the side airbag module.

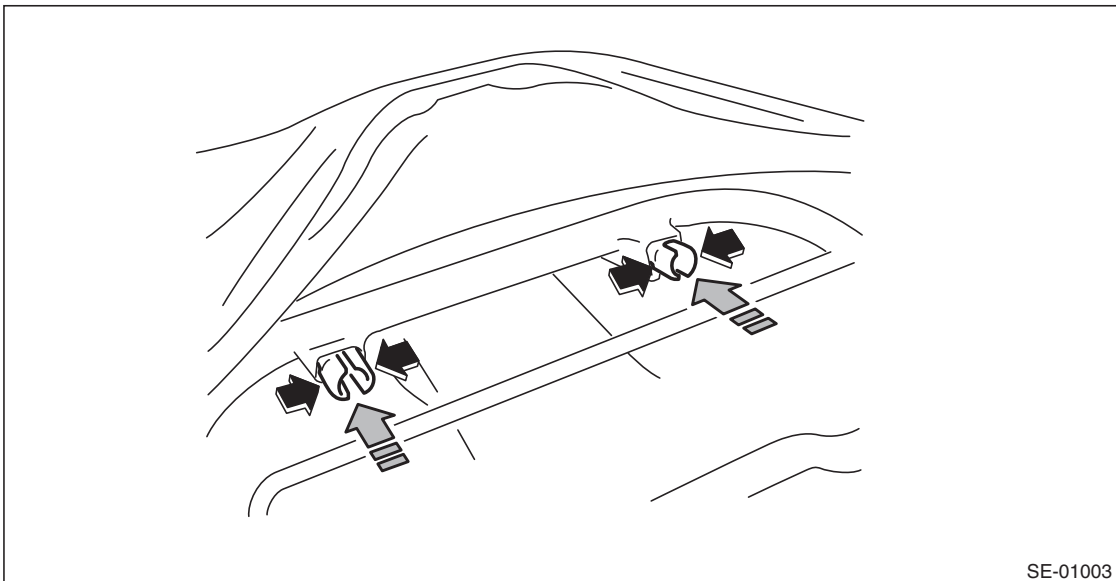
CAUTION:

Do not open the protective cover of the side airbag. If any damage is present in the protective cover or the cloth of side airbag module comes out from the protective cover slit, replace the side airbag module with a new part.

- (1) Remove the hexagon cap nut and nuts.
- (2) While taking care not to damage the airbag protective cover, remove the side airbag module.



15) Remove the bushing - headrest.



NOTE:

Catch the tip of the bushing - headrest with pliers and push it outward from the inside of seat to remove it.

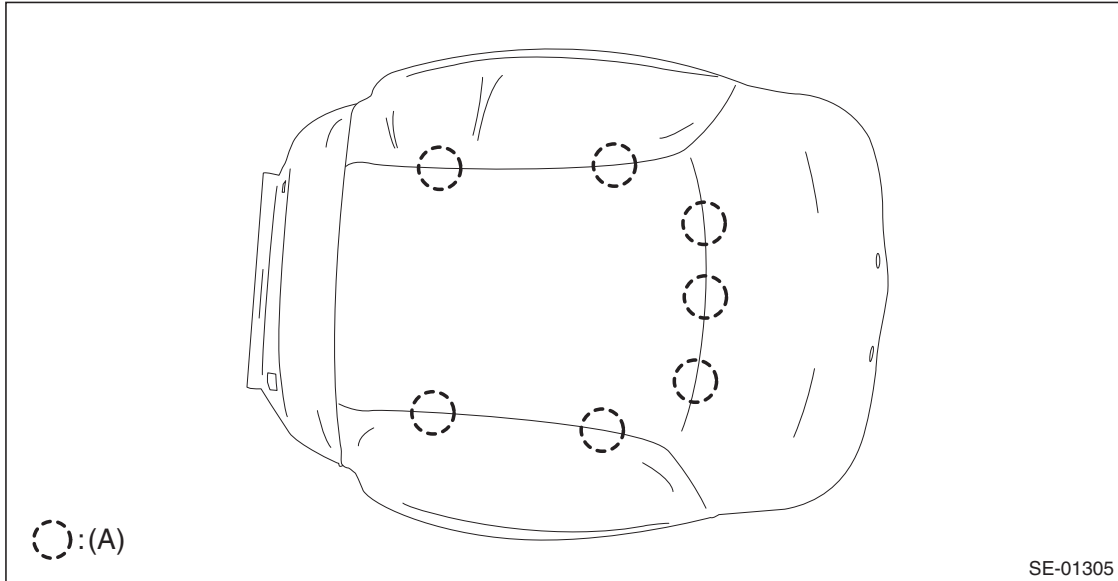
16) Pull out the frame assembly - front backrest.

Front Seat

SEATS

17) Remove the cover COMPL - front backrest.

(1) Remove the hog ring (A).



(2) Pull out the pad assembly - front seat backrest from the cover COMPL - front backrest.

2. DRIVER SEAT (POWER SEAT MODEL)

CAUTION:

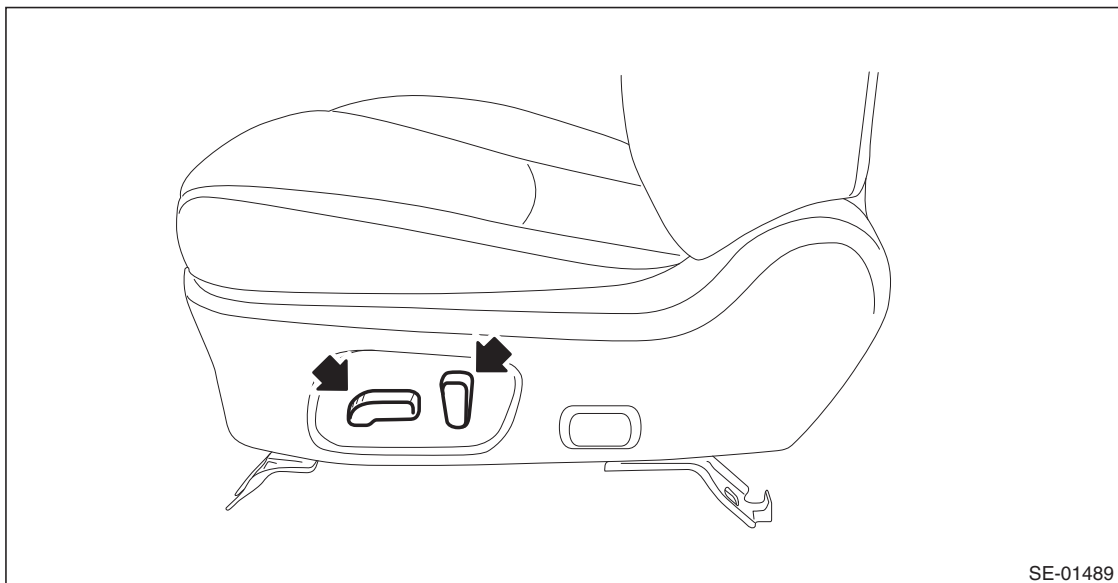
- Before assembling, make sure how the harnesses such as the side airbag harness and the seat belt inner - front harness are routed in order to avoid misarranging. Assembling with harnesses improperly routed may cause the harness to get caught and short out.
- Do not disassemble the backrest assembly and seat cushion frame and slide rail assembly.

1) Remove the seat from vehicle. <Ref. to SE-8, REMOVAL, Front Seat.>

NOTE:

Before removing the seat, raise the seating face.

2) Remove the knob - power seat.

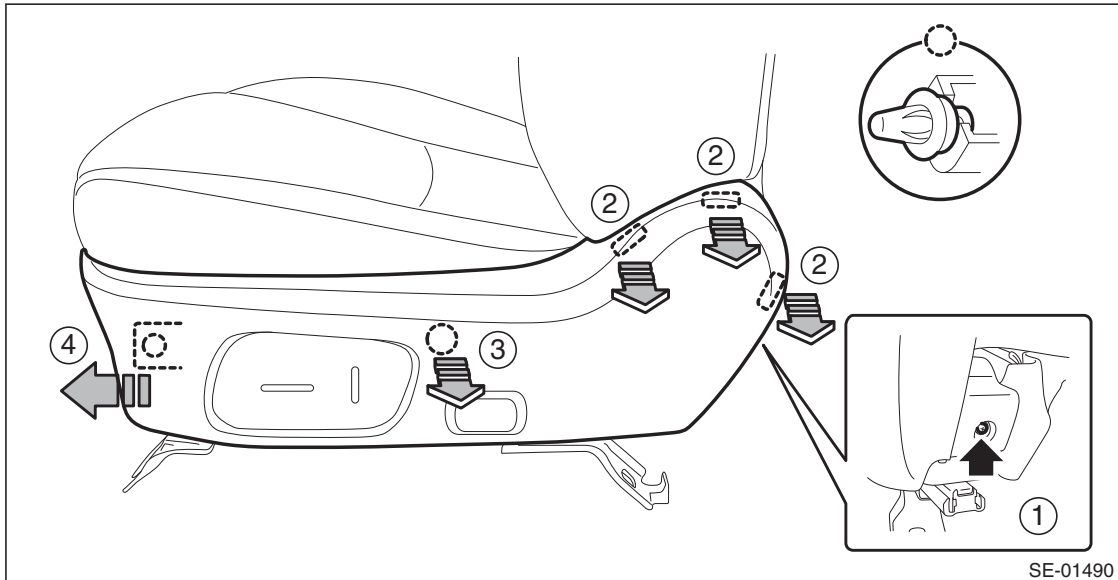


Front Seat

SEATS

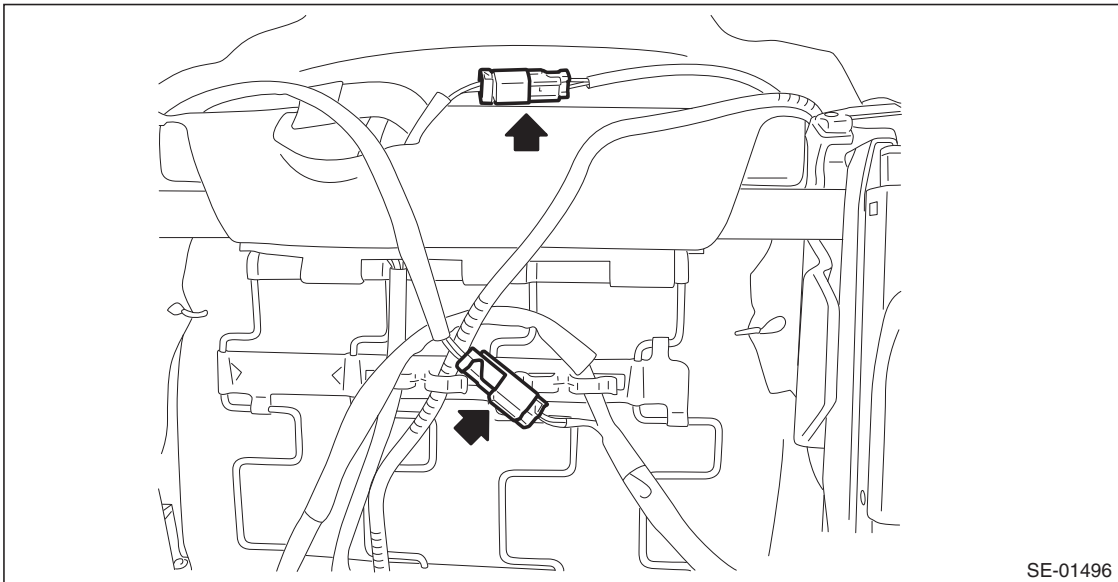
3) Remove the cover - hinge front seat OUT.

- (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 and lumbar switch connector and remove the cover - hinge front seat OUT.



4) Disconnect the connectors from the backside of seat cushion.

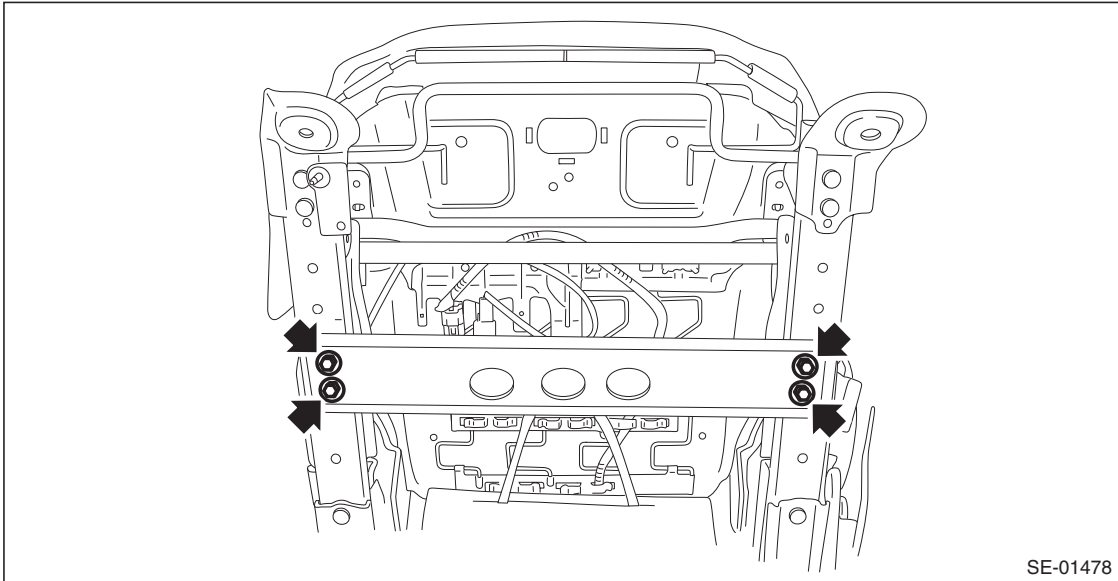
- (1) Disconnect the connector for reclining motor.
- (2) Disconnect the connector of seat heater harness. (Seat with seat heater)



Front Seat

SEATS

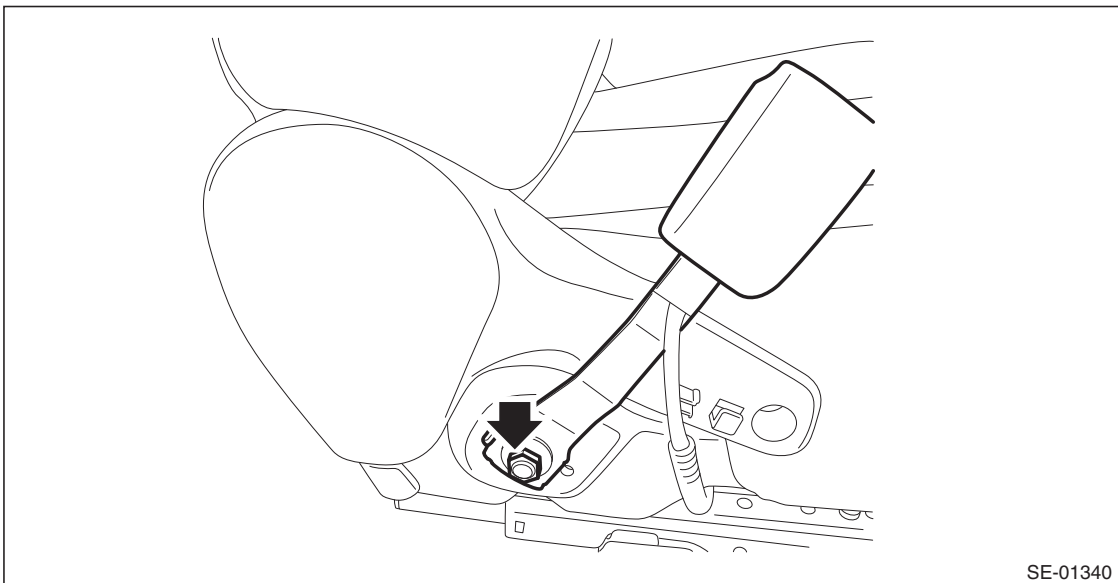
5) Remove the nuts, and remove the member - bracket.



6) Remove the seat belt inner - front.

(1) Remove the nut, and remove the seat belt inner - front.

(2) Disconnect the connector for the seat belt inner - front harness located under the seat cushion assembly.

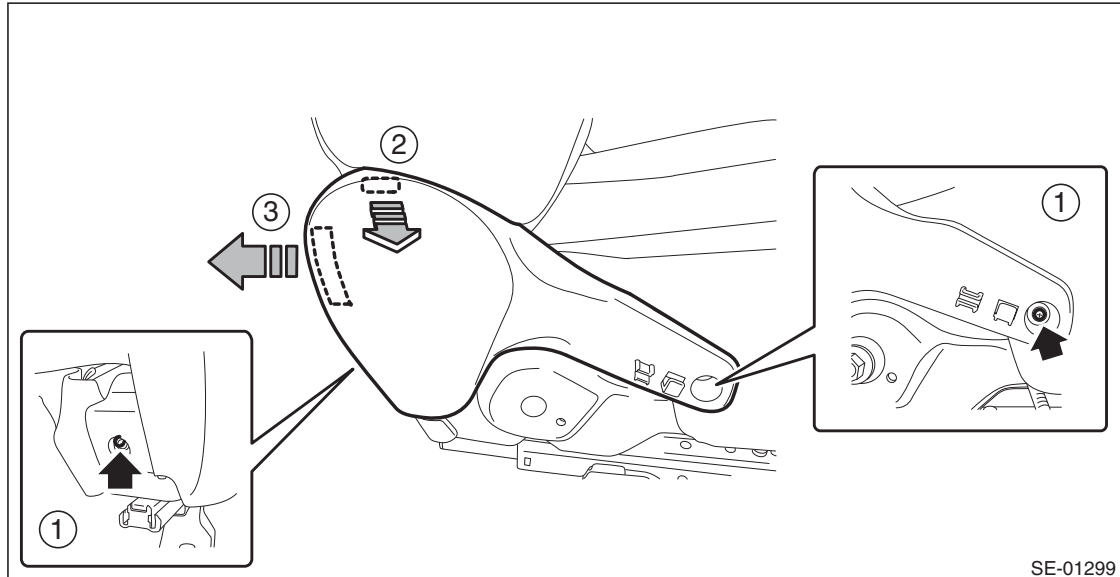


Front Seat

SEATS

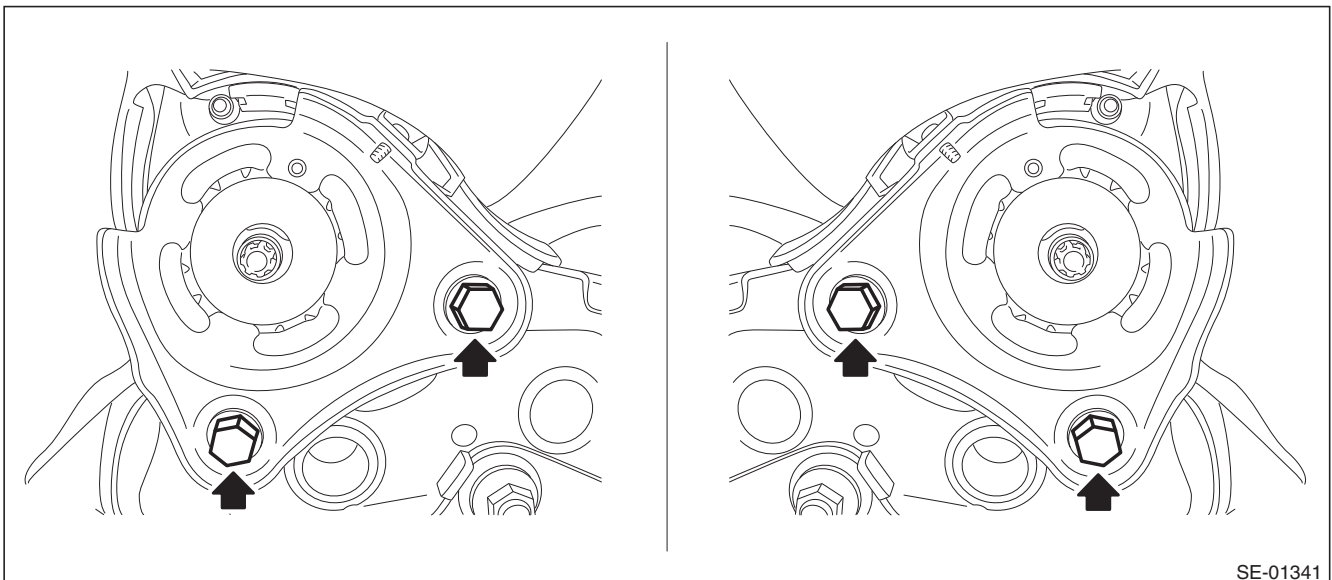
7) Remove the cover - hinge front seat INN.

- (1) Remove the screws.
- (2) Release the claw in the upper section of the cover - hinge front seat INN.
- (3) Release the claw in the rear section of the cover - hinge front seat INN, then remove the cover - hinge front seat INN.



8) Separate the backrest assembly and the seat cushion assembly.

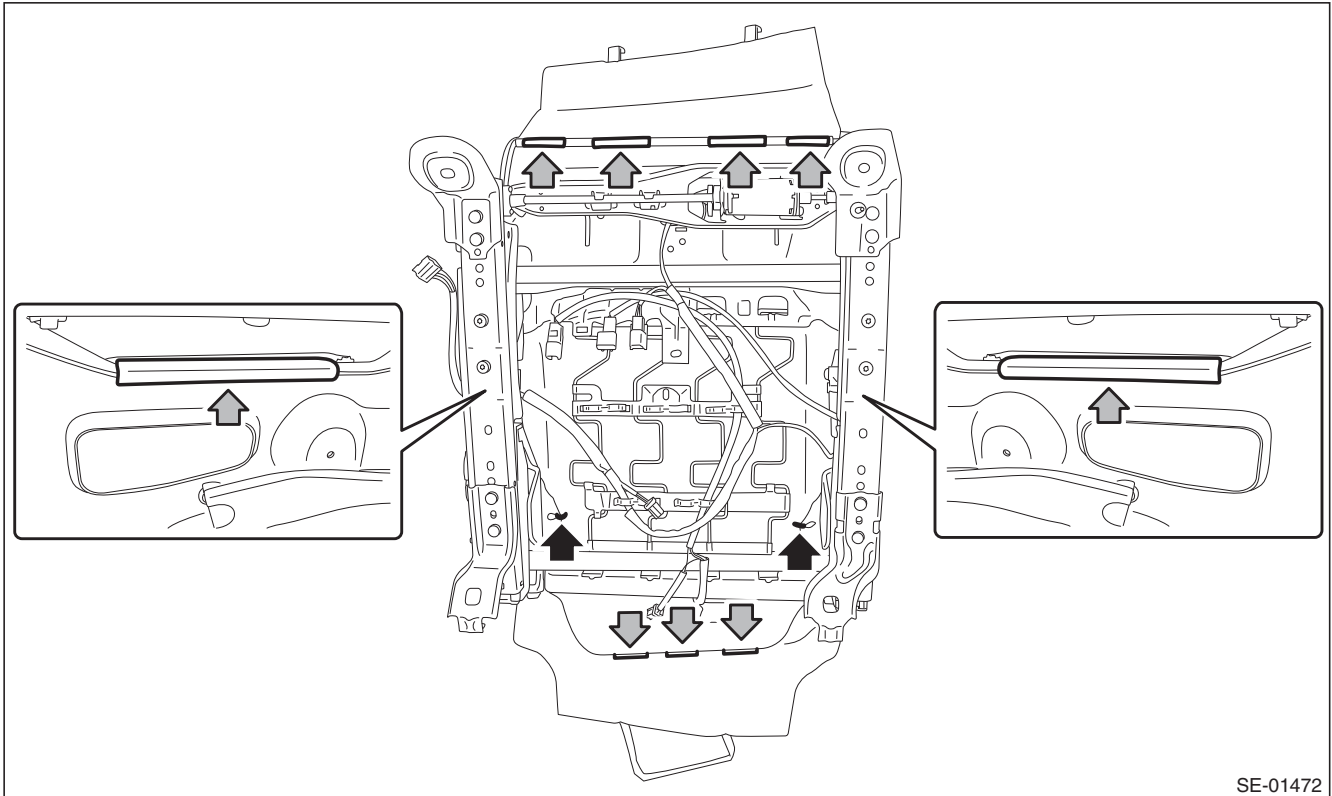
- (1) Remove the clip for the side airbag harness located under the seat cushion assembly.
- (2) Remove the bolts from reclining hinge of both sides.
- (3) While taking care not to damage the harness, separate the backrest assembly and the seat cushion assembly.



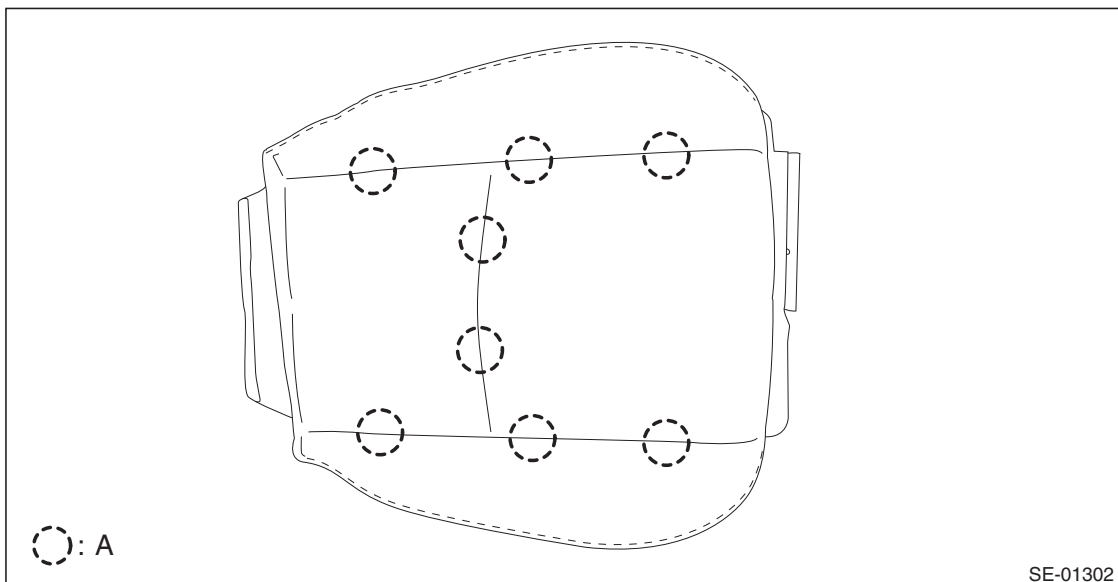
Front Seat

SEATS

- 9) Remove the pad assembly - front seat cushion and the cover - front cushion.
- (1) Remove the hooks and hog rings.
 - (2) Remove the pad assembly - front seat cushion and the cover - front cushion from the seat cushion assembly.



- 10) Remove the cover - front cushion.
- (1) Remove the hog ring (A).

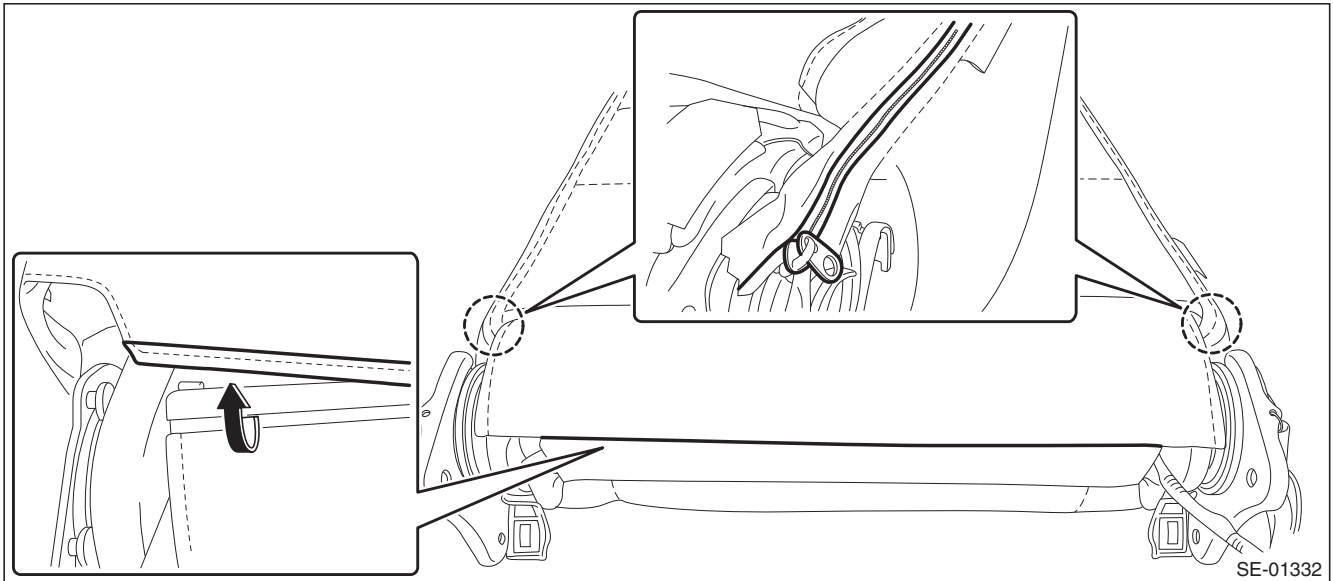


- (2) Pull out the pad assembly - front seat cushion from the cover - front cushion.

Front Seat

SEATS

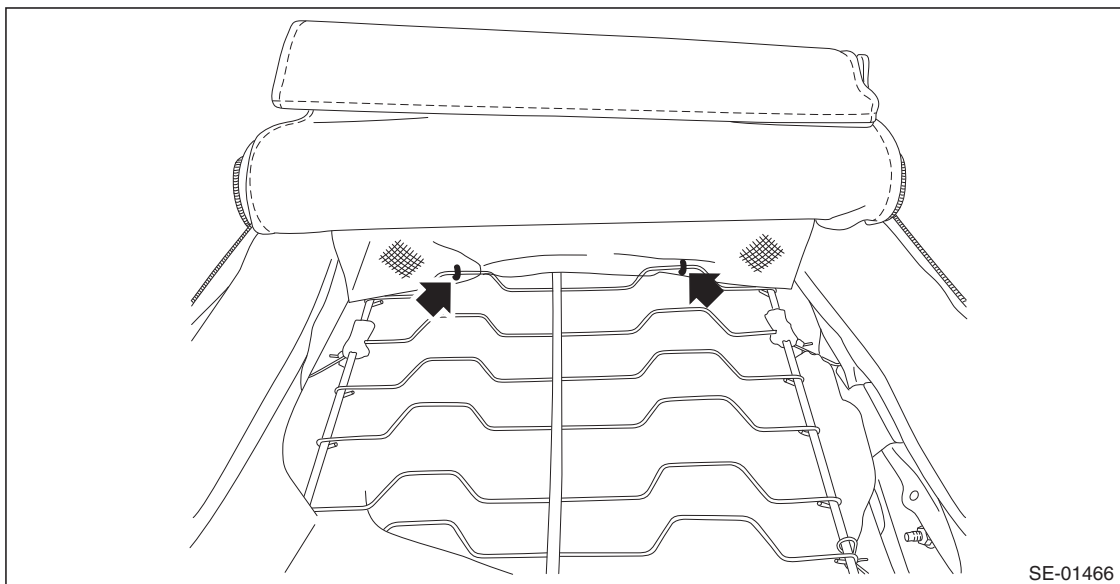
- 11) Remove the pad assembly - front seat backrest and the cover COMPL - front backrest.
(1) Remove the plastic fastener at the back side (bottom) of backrest assembly.
(2) Open the fastener at the rear side of backrest assembly.



- (3) Remove the hog ring.

CAUTION:

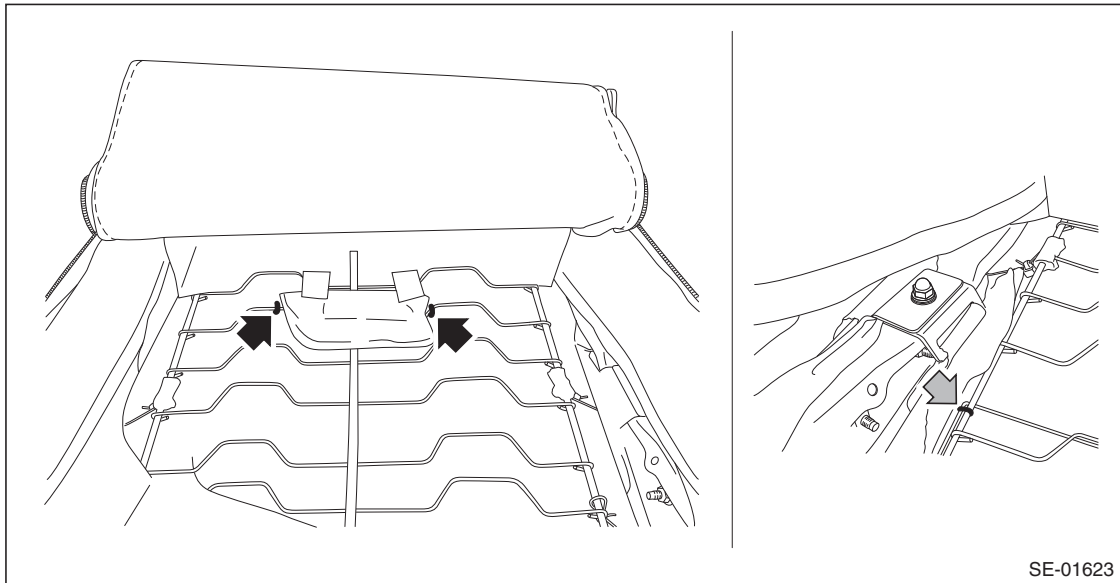
Be careful not to tear the vinyl inside the seat when removing the hog rings.
If torn, replace with a new part.



Front Seat

SEATS

- (4) Turn over the backrest pad & cover, and remove the hog rings.



NOTE:

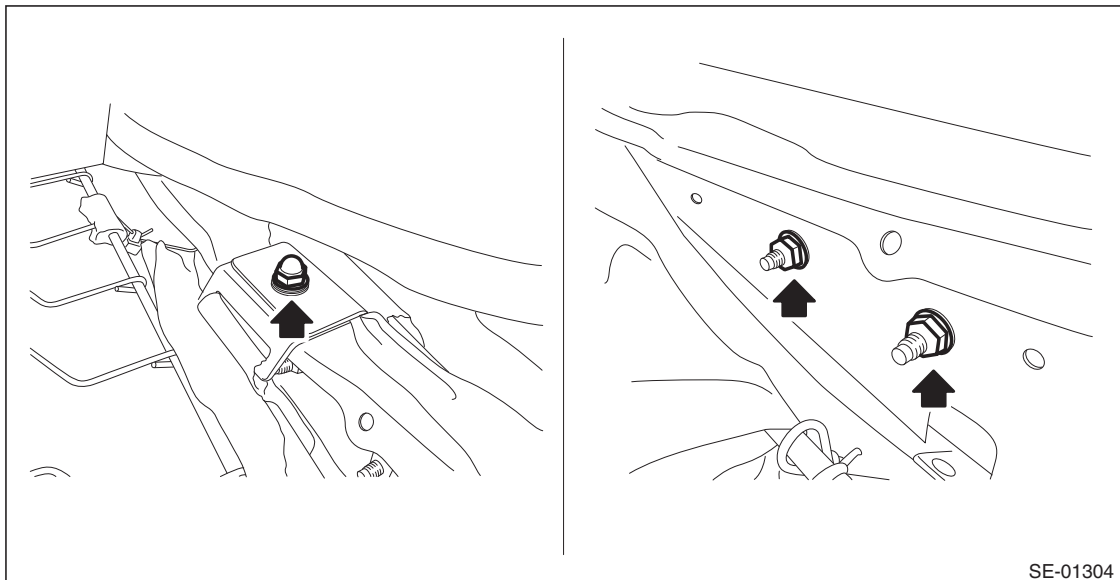
The gray arrow section only applies to 10-WAY model.

- 12) Remove the side airbag module.

CAUTION:

Do not open the protective cover of the side airbag. If any damage is present in the protective cover or the cloth of side airbag module comes out from the protective cover slit, replace the side airbag module with a new part.

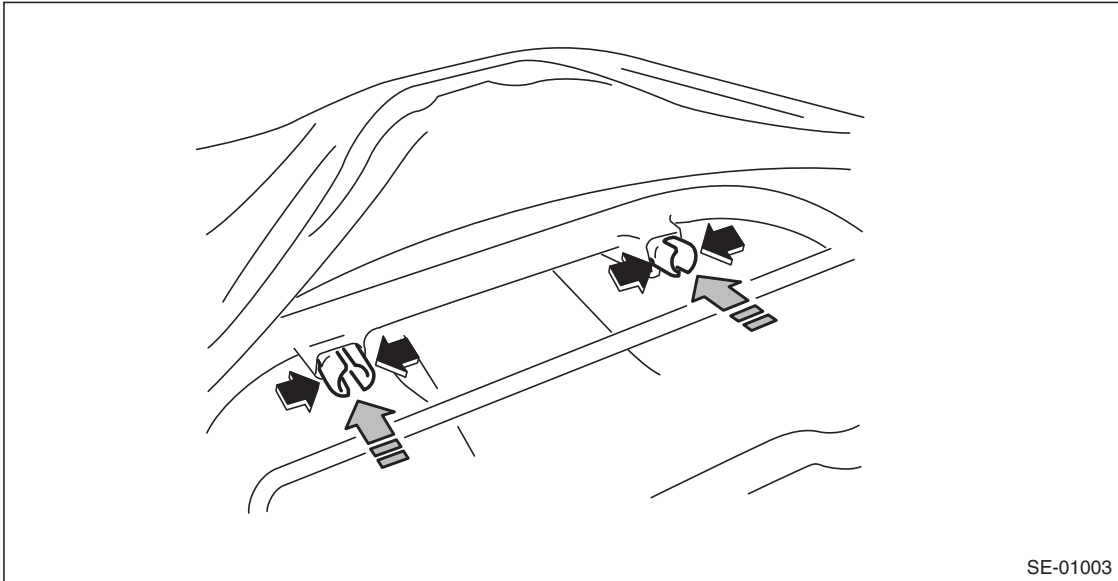
- (1) Remove the hexagon cap nut and nuts.
(2) While taking care not to damage the airbag protective cover, remove the side airbag module.



Front Seat

SEATS

- 13) Remove the headrest bushing.



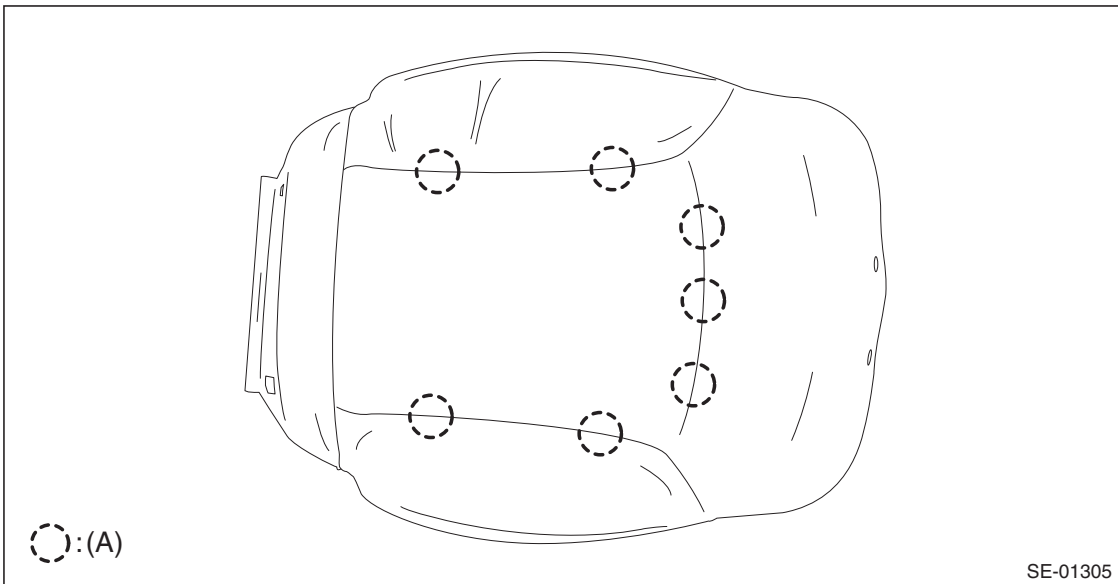
NOTE:

Catch the tip of headrest bushing with pliers and push it from inside seat to outside to remove it.

- 14) Pull out the frame assembly - front backrest.

- 15) Remove the cover COMPL - front backrest.

- (1) Remove the hog ring (A).



- (2) Pull out the pad assembly - front seat backrest from the cover COMPL - front backrest.

Front Seat

SEATS

3. PASSENGER'S SEAT

CAUTION:

- The occupant detection system (passenger's seat only) control module, the occupant detection sensor, the pad assembly - front seat cushion, the frame assembly - front cushion and the cover assembly - front cushion are considered as a single seat cushion pad & frame assembly. Never remove the occupant detection control module or the occupant detection sensor from the frame assembly - front cushion.

- Never remove the occupant detection sensor connector from the occupant detection control module.

1) Remove the front seat (passenger's side) from vehicle. <Ref. to SE-8, REMOVAL, Front Seat.>

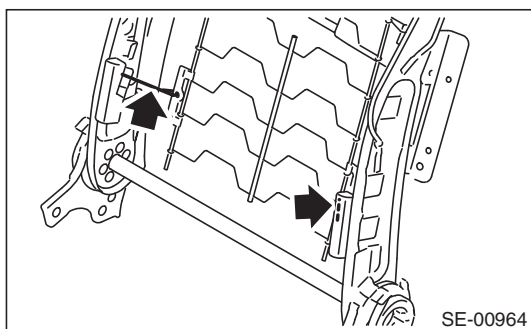
2) Refer to the disassembly procedures for the driver's seat. <Ref. to SE-10, DRIVER SEAT (MANUAL SEAT), DISASSEMBLY, Front Seat.>

D: ASSEMBLY

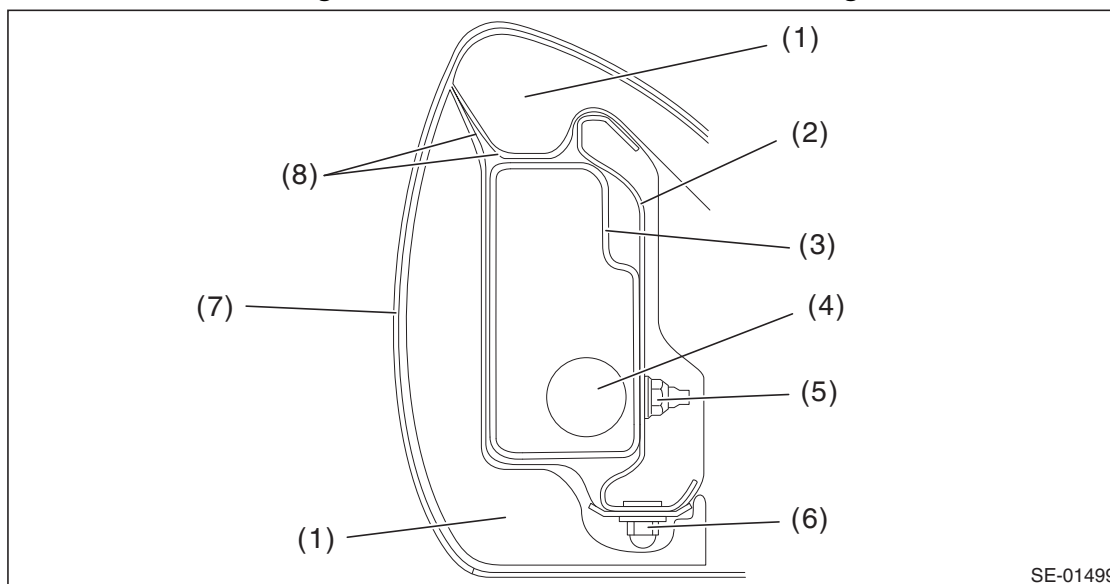
CAUTION:

- Do not confuse the harness routing of the side airbag harness and the seat belt inner - front harness, etc. Assembling with harnesses improperly routed may cause the harness to get caught and short out.

- If the flat mat hook of the frame assembly - front backrest is deformed or comes off due to the deformation, replace the hook with a new part.



- Make sure that the side airbag module is installed as shown in the figure.



- (1) Pad ASSY - front seat backrest
- (2) Frame ASSY - front backrest
- (3) Side airbag module protective cover

- (4) Side airbag module inflator
- (5) Nut
- (6) Hexagon cap nut

- (7) Cover COMPL - front backrest
- (8) Side airbag guide cloth

Front Seat

SEATS

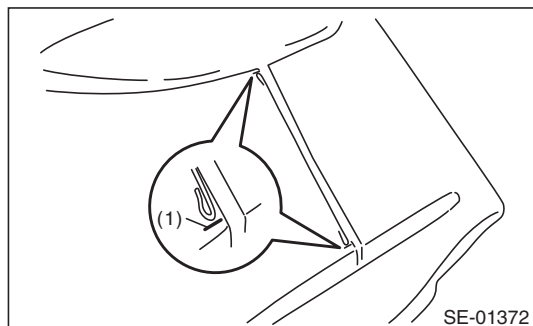
Besides, if the cover COMPL - front backrest is not installed securely, the side airbag may not be activated properly, therefore keep strictly to the following procedures.

- Be careful not to stain or damage the cover COMPL - front backrest during assembly.
- Do not reuse hog rings.
- Secure the hog ring using hog ring pliers.
- Install the hog rings to the specified points securely and make sure that there is no wrinkle or twisting on the cover COMPL - front backrest.

1) Make sure that there is no foreign matter on side airbag module.

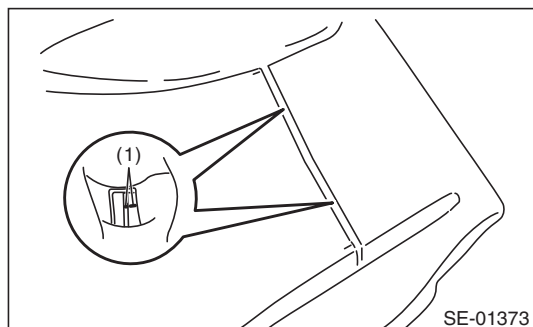
2) Assemble the seat cover.

(1) Adjust so that the left and right clearances between wire and seat pad become equal, and mark the seat pad.



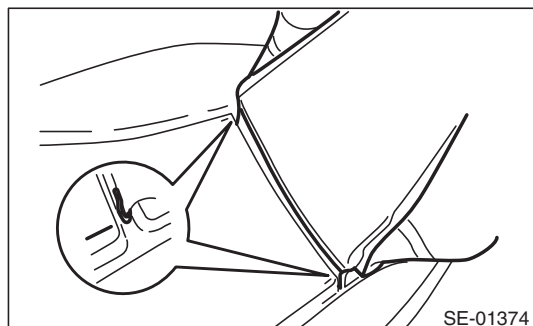
(1) Marking

(2) Mark the center of the wire on the pad side to which the hog ring is attached.



(1) Marking

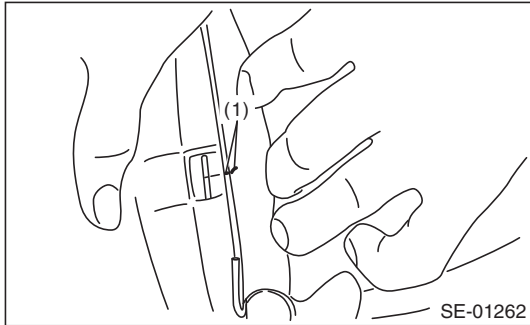
(3) Insert the wire into the seat cover, and align the wire with the position marked in step 1).



Front Seat

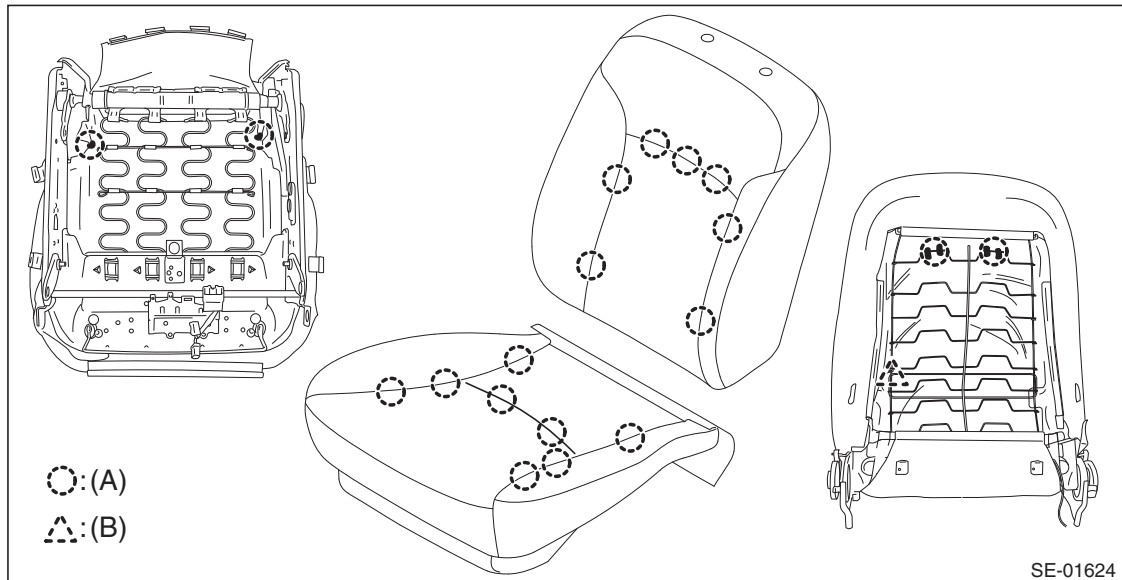
SEATS

- (4) Mark the wire on the seat cover side according to the markings on the seat pad.



- (1) Marking

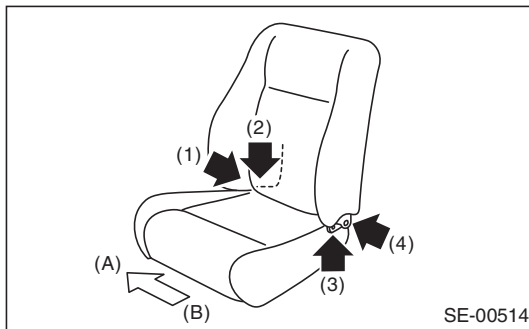
- (5) Perform steps 1) — 4) to all sections to which the hog rings are attached.
(6) Make sure that all hog rings (A) are attached securely.
(7) Make sure that the hog ring (B) (10-WAY model) is attached securely.



3) Assemble remaining parts in the reverse order of disassemble.

NOTE:

- When installing the seat belt inner - front, follow the procedures described in the seat belt section. <Ref. to SB-25, INSTALLATION, Front Seat Belt.>
- Install the backrest assembly and seat cushion assembly in the following procedure.
 1. Temporarily tighten the four reclining hinge bolts.
 2. Place the backrest in the most upright position.
 3. Tighten the reclining hinge bolts in order from (1) to (4) two or three times, until they reach the specified torque.



- (A) Vehicle inside
(B) Vehicle outside

Tightening torque:

Refer to “COMPONENT” of “General Description”. <Ref. to SE-2, FRONT SEAT, COMPONENT, General Description.>

- 4) If any wrinkles are found after the assembly of the seat cover, finish the seat cover with iron.
- (1) Place the wet towel on wrinkles.



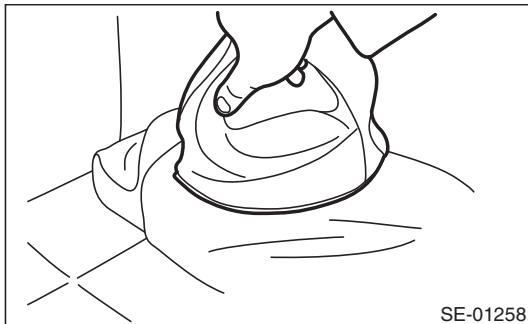
- (2) Touch up with warm iron.

CAUTION:

Keep moving the iron, otherwise the seat cover surface can be damaged.

NOTE:

This method is available for genuine leather, synthetic leather, cloth, etc.



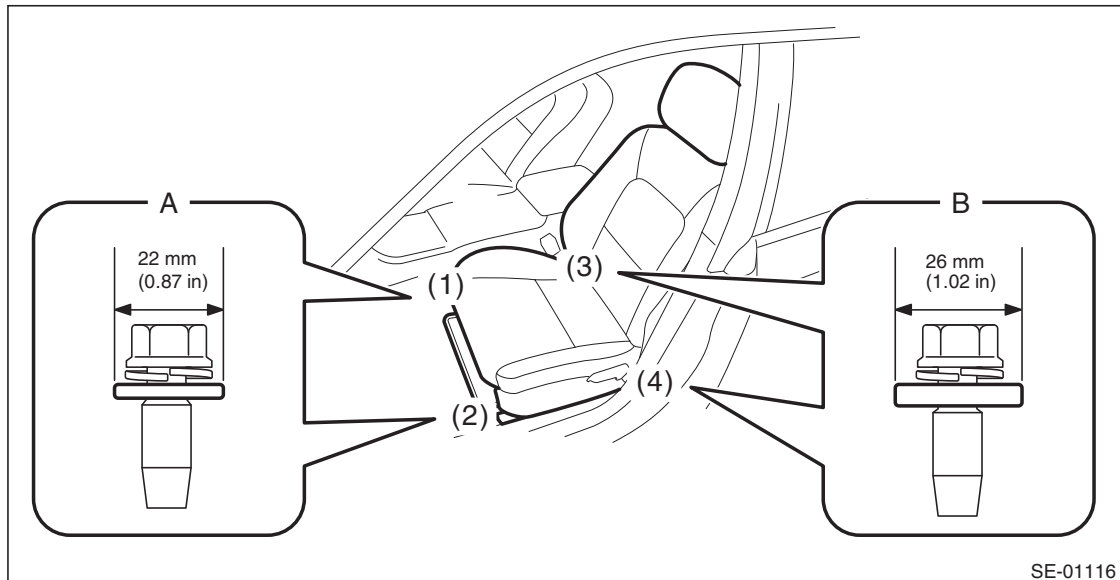
Front Seat

SEATS

5) Install the seat assembly.

CAUTION:

- The seat mounting bolts differ between the front mounting points and the rear mounting points. Make sure that you are using correct bolts at correct positions.
- Tighten the slide rail installing bolts in the order as shown in the figure, in several steps by gradually increasing the torque until they reach the specified torque.



- Front (bolt A): Washer diameter 22 mm (0.87 in)
- Rear (bolt B): Washer diameter 26 mm (1.02 in)

Tightening torque: 53 N·m (5.40 kgf·m, 39.1 ft·lb)



E: INSPECTION

1. SEAT COVER

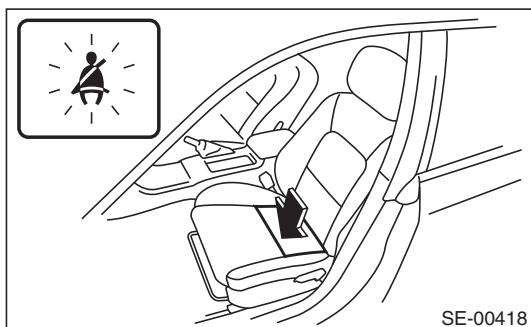
Check that there is no tear or fray on the cover COMPL - front backrest and the cover - front cushion.

NOTE:

If the door side of the cover COMPL - front backrest is torn or frayed, the side airbag may not be deployed properly. In this case, replace the cover COMPL - front backrest with a new part.

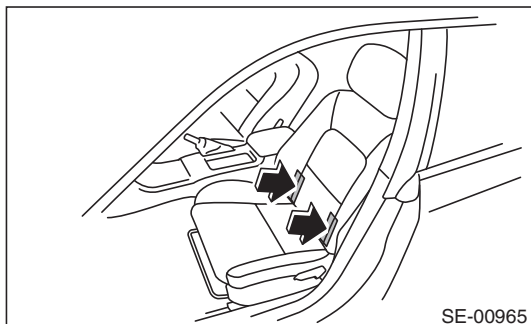
2. SEATING SWITCH (PASSENGER'S SEAT BELT WARNING LIGHT)

Apply weight to rear part of passenger's seat cushion and check if passenger's seat belt warning light illuminates. If it does not, replace the pad assembly - front seat cushion and the frame assembly - front cushion with new parts.



3. FLAT MAT HOOK

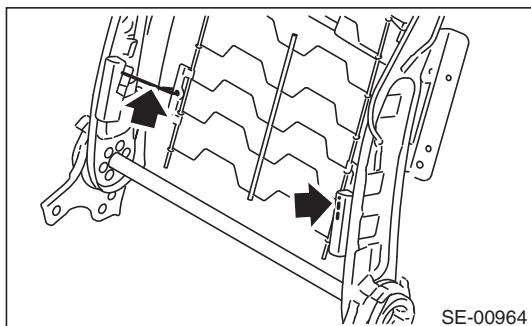
Check the flat mat hook by applying weight to the backrest assembly.



NOTE:

If the appropriate stiffness is not obtained by applying weight to the backrest assembly, the hook may be disengaged.

If it is due to the deformation of the hook, replace the hook with a new part.



Rear Seat

SEATS

3. Rear Seat

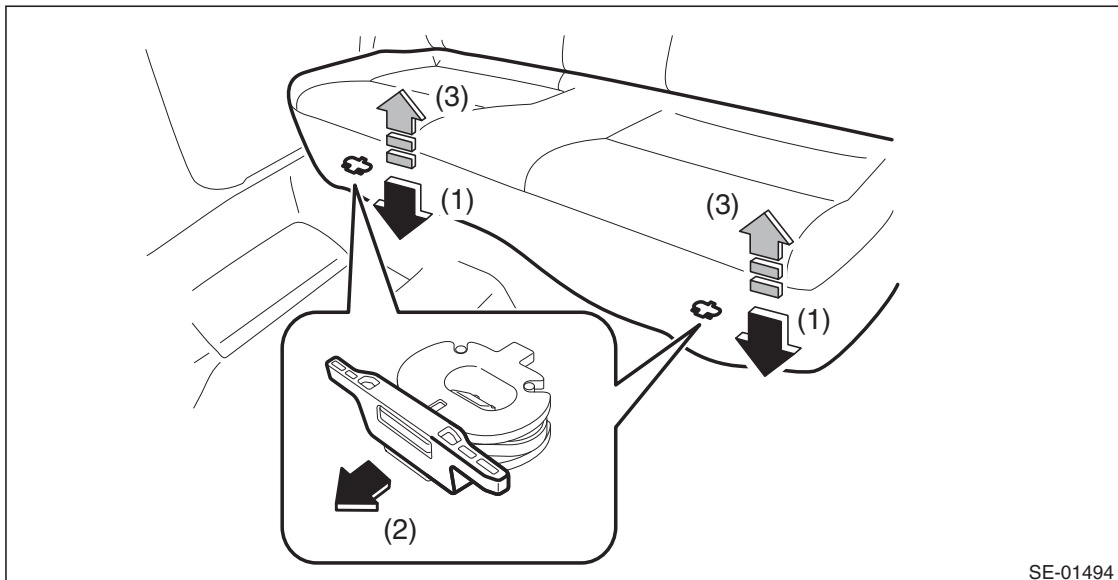
A: REMOVAL

1) Remove the rear seat cushion assembly.

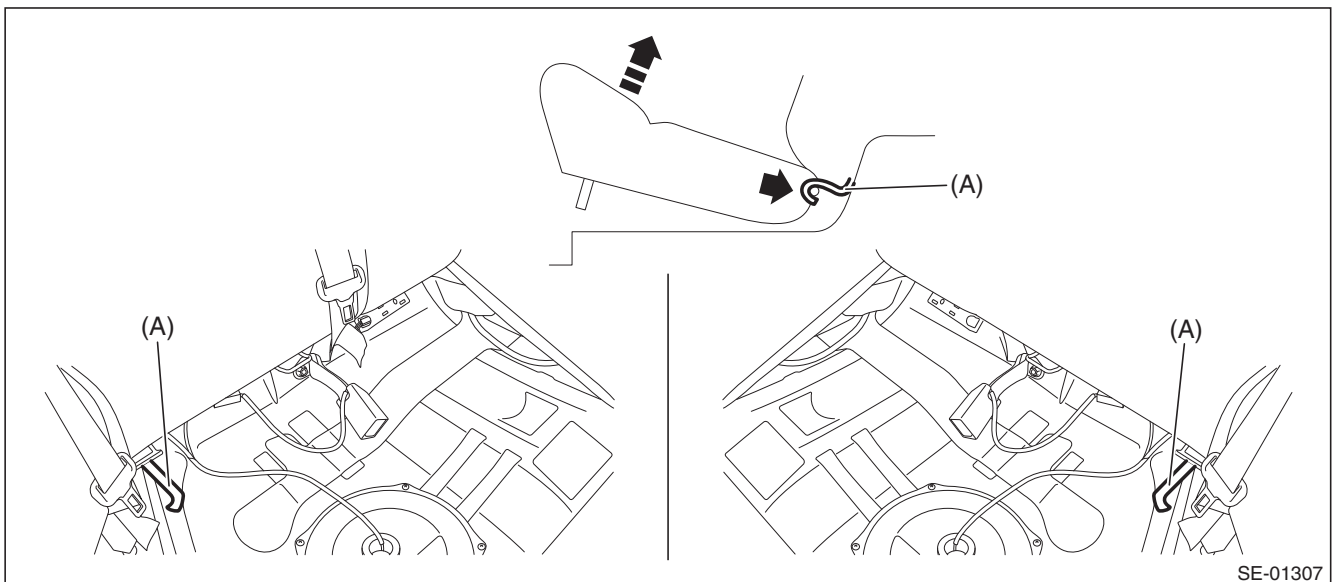
(1) Push the corners of the rear seat cushion from above.

(2) While pushing the corners of the rear seat cushion from above, pull the knob of the hook - seat cushion rear towards yourself.

(3) While pulling the knob towards yourself, disconnect the hooks by lifting up the rear seat cushion.



(4) Remove the hook (A) by pushing it back while lifting the front side of the rear seat cushion, and remove the rear seat cushion.



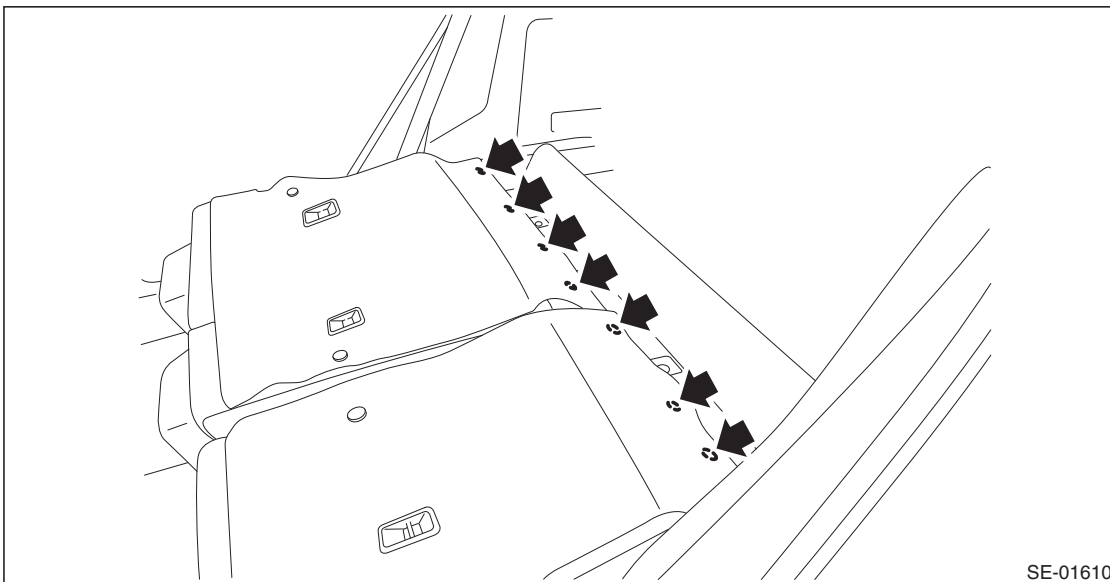
Rear Seat

SEATS

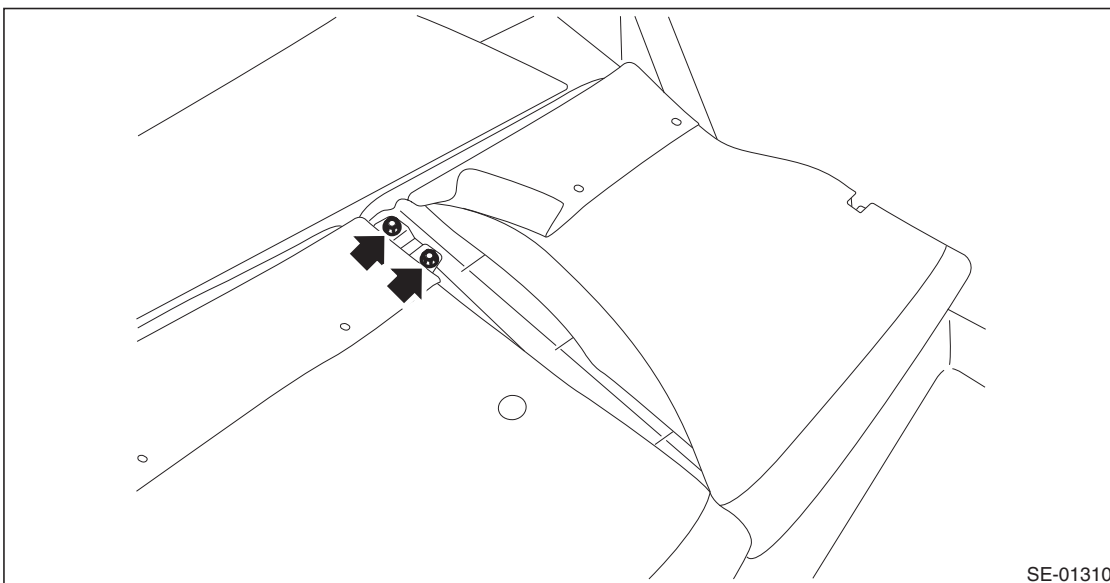
2) Remove the backrest assembly LH.

(1) Tilt the backrest assembly LH forward.

(2) Remove the clips located at the bottom of the cover COMPL - rear backrest LH and RH of the rear seat back.



(3) Turn over the cover COMPL - rear backrest LH to remove the bolts.



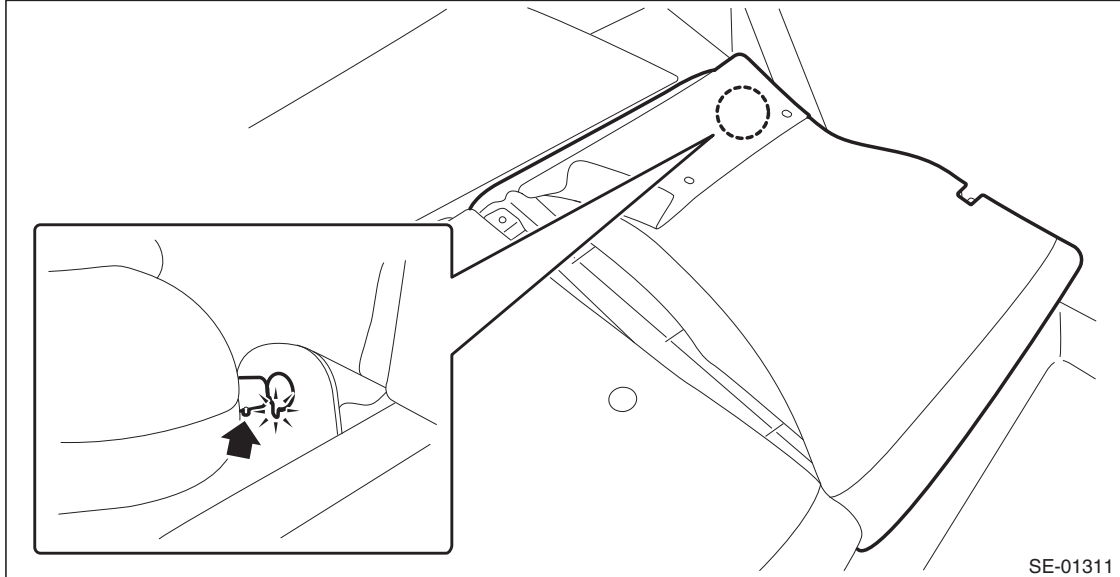
Rear Seat

SEATS

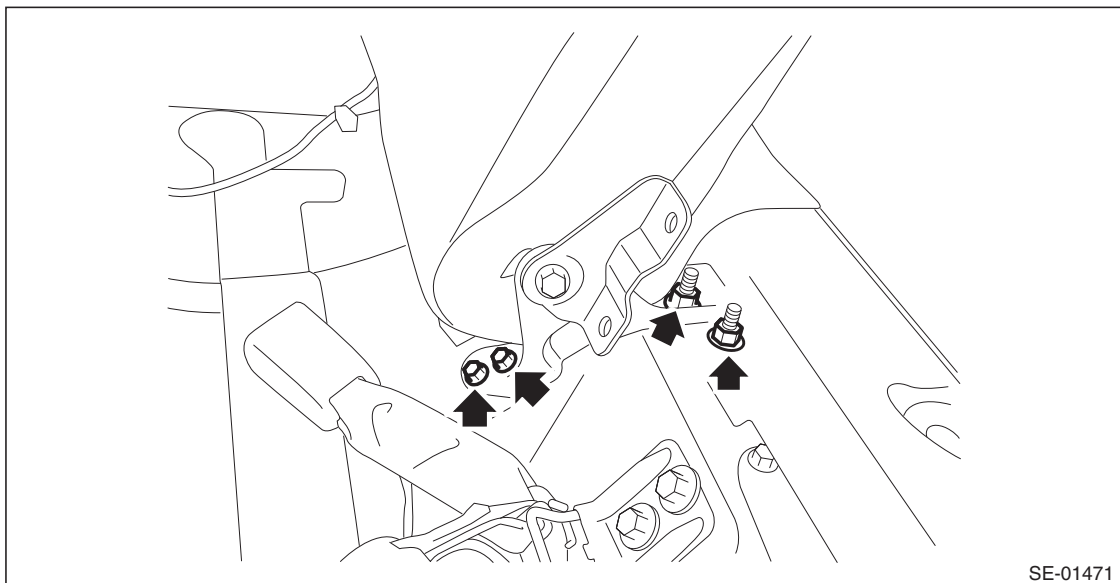
- (4) Remove the backrest assembly LH from the hinge assembly.

NOTE:

The backrest assembly cannot be removed unless pin positions on the hinge assembly side and backrest assembly side are aligned.



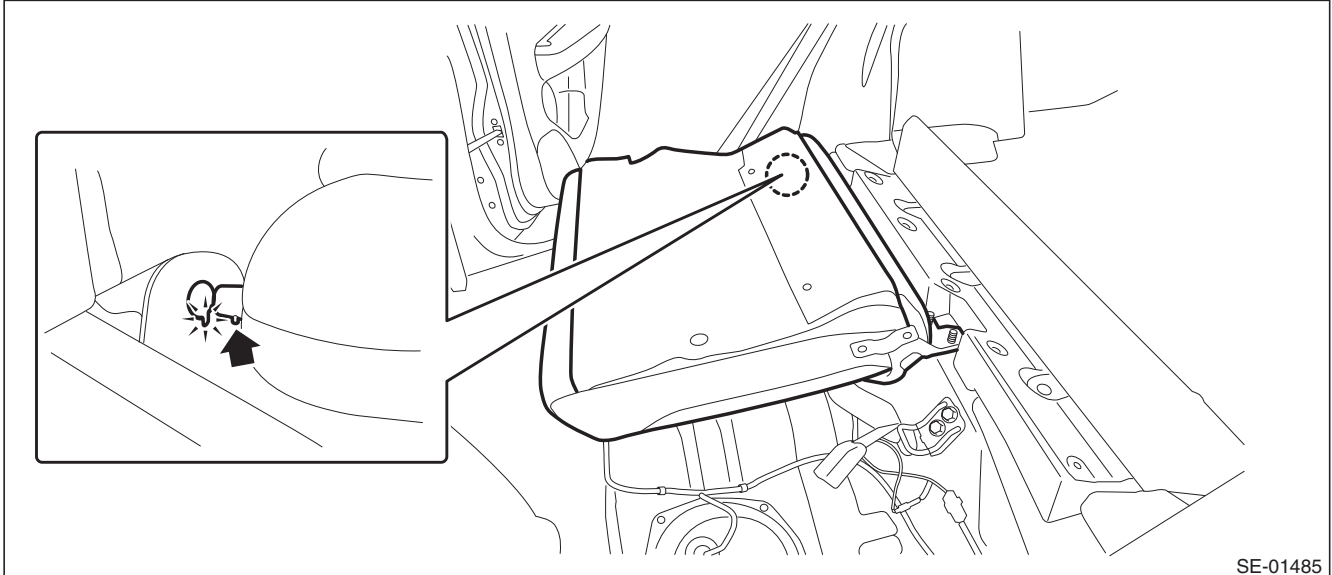
- 3) Remove the backrest assembly RH.
(1) Remove the bolts and nuts.



- (2) Remove the backrest assembly RH from the hinge assembly.

NOTE:

The backrest assembly cannot be removed unless pin positions on the hinge assembly side and backrest assembly side are aligned.



B: INSTALLATION

Install each part in the reverse order of removal.

NOTE:

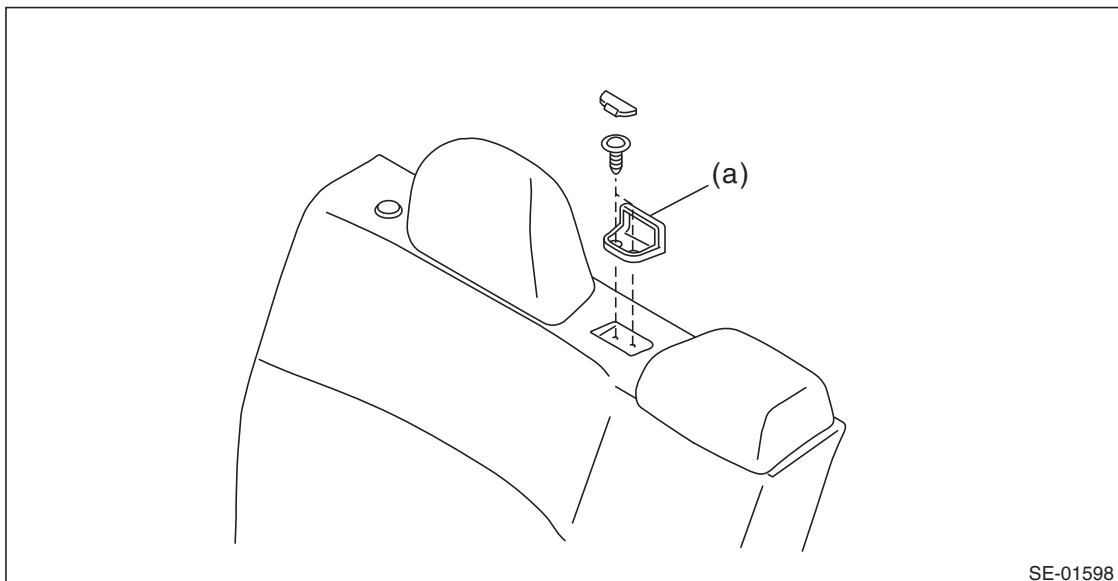
- After installing the backrest assembly, make sure that each seat belt operates normally.
- Make sure that they are properly secured on each hook on the vehicle side.

Tightening torque:

Refer to "COMPONENT" of "General Description". <Ref. to SE-6, REAR SEAT, COMPONENT, General Description.>

C: DISASSEMBLY

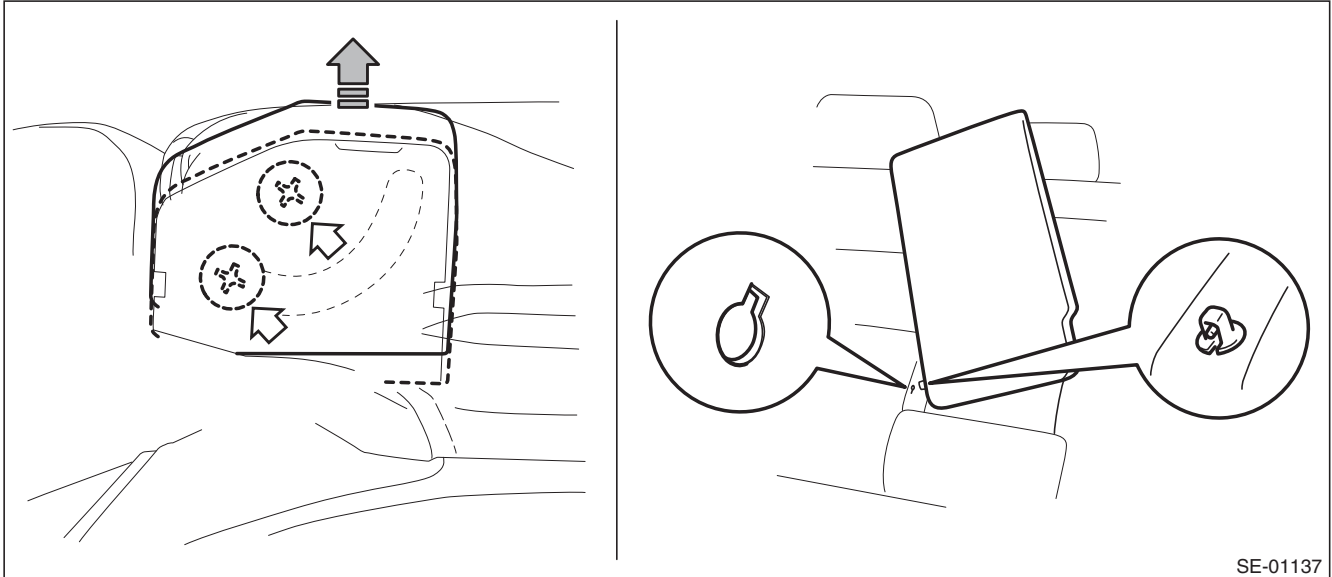
- 1) Remove the rear seat. <Ref. to SE-32, REMOVAL, Rear Seat.>
- 2) Remove the pillow assembly - rear center.
- 3) Remove the caps and screws, then remove the belt guide - rear seat (a).



Rear Seat

SEATS

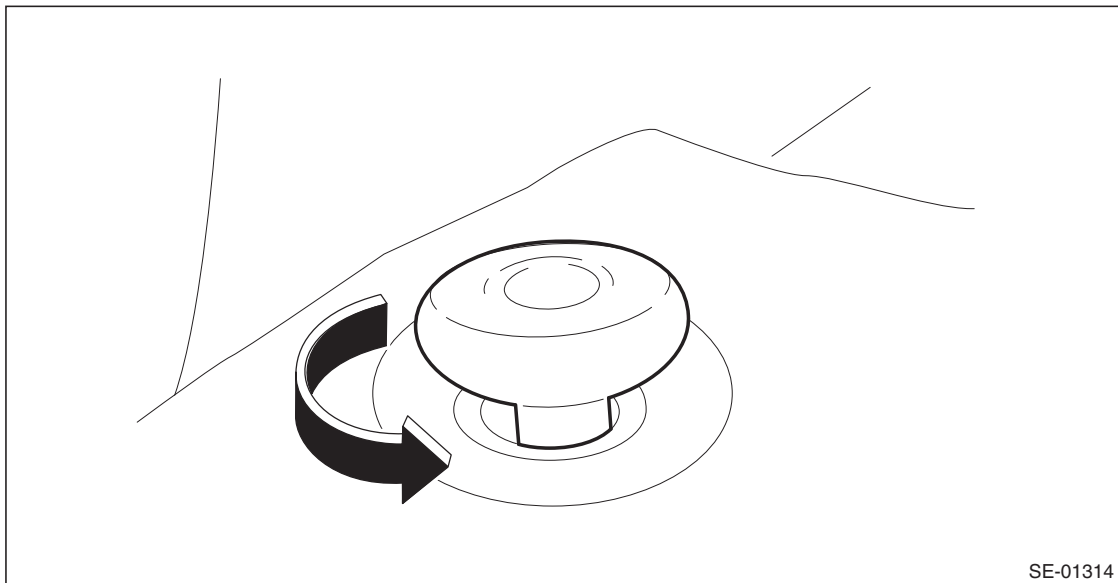
- 4) Remove the pillow assembly - rear backrest.
- 5) Remove the armrest assembly - rear center. (Models with armrest)
 - (1) Remove the cover - armrest by pulling it in the direction of the arrow (black).
 - (2) Remove the screws and remove the armrest assembly - rear center.



NOTE:

The armrest assembly - rear center cannot be detached unless pin positions on the RH side of the backrest assembly and on the center side of the armrest assembly - rear are aligned.

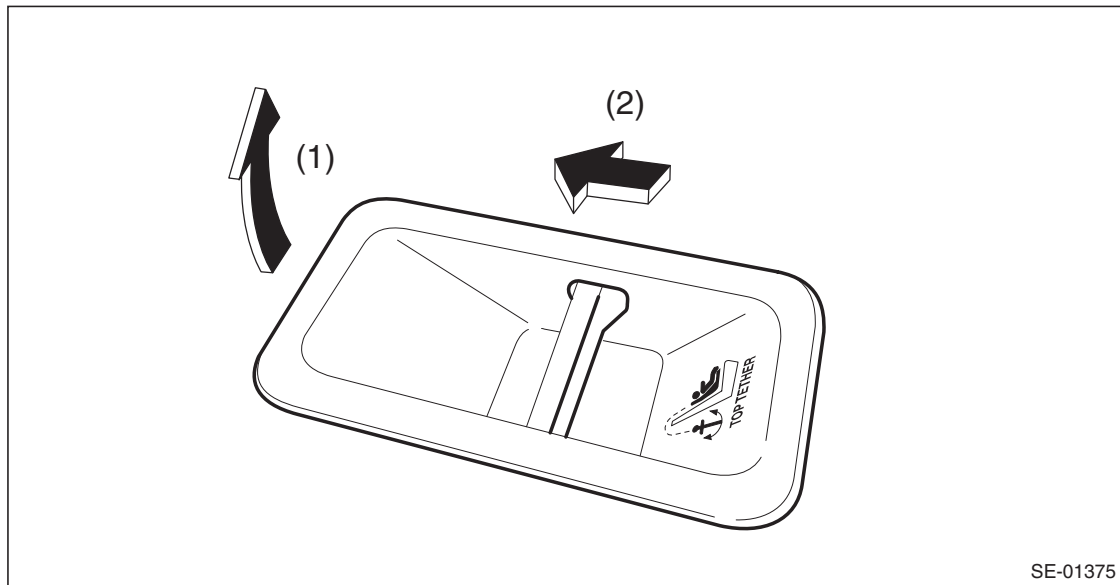
- 6) Remove the knob - backrest. (Screw-in type)



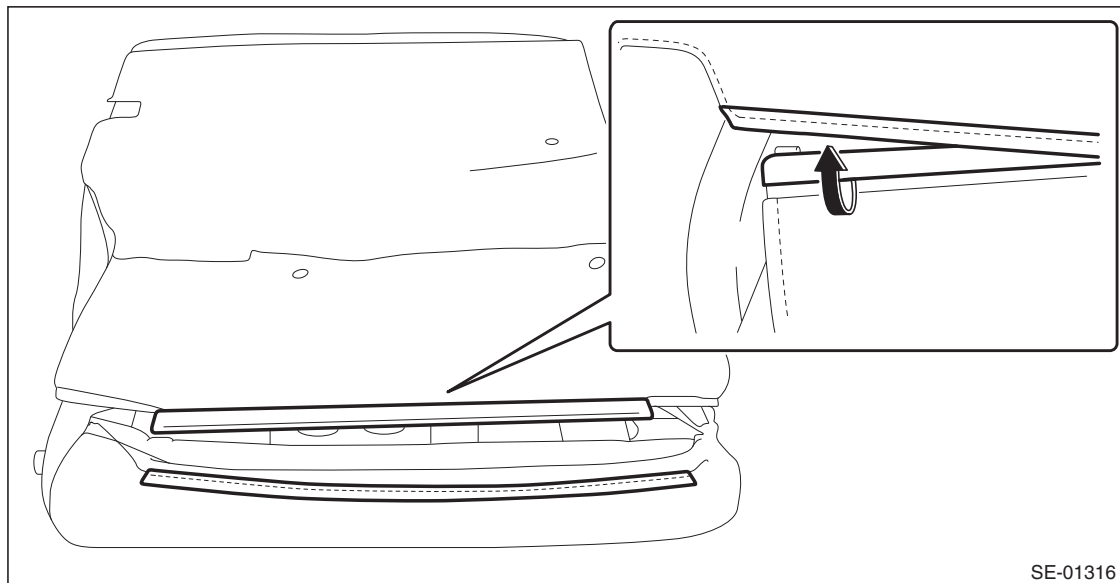
Rear Seat

SEATS

7) Remove the tether anchor cover.



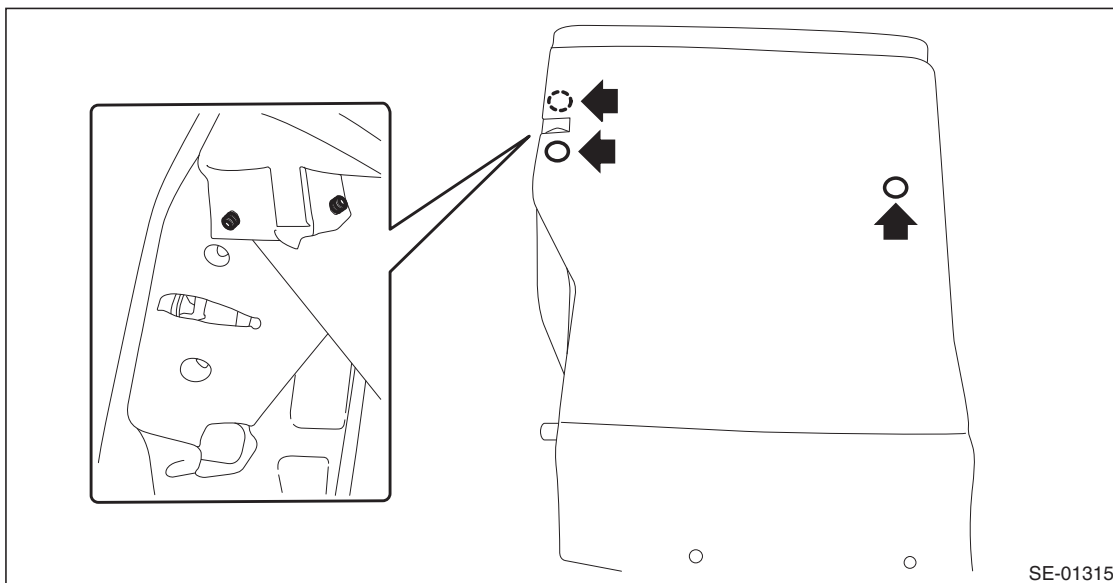
8) Detach the plastic fastener at the bottom of backrest assembly LH and turn over the cover COMPL - rear backrest LH.



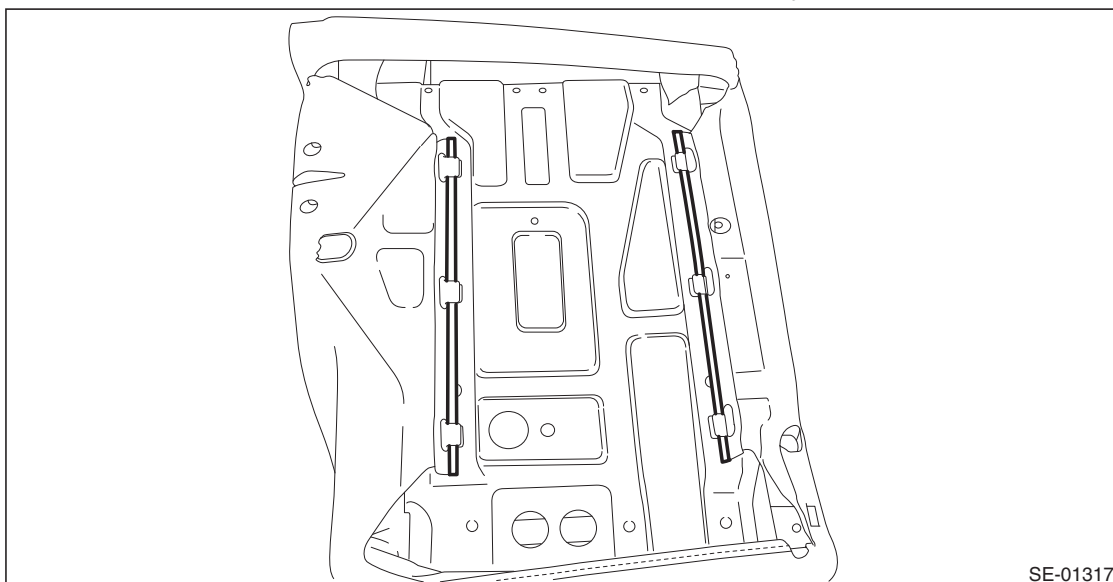
Rear Seat

SEATS

- 9) Remove the clips on the backside of the cover COMPL - rear backrest LH.



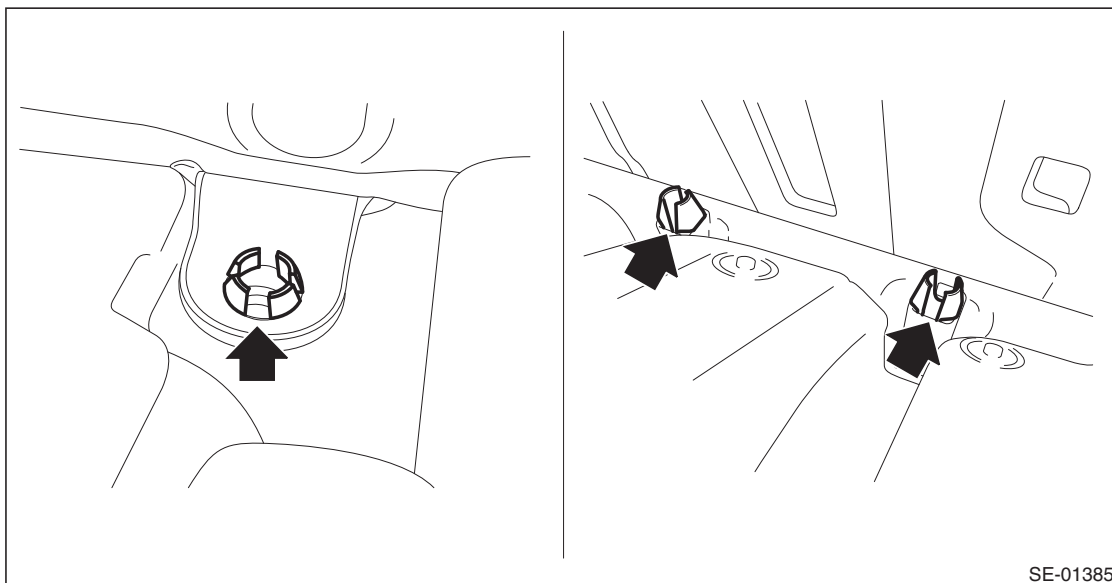
- 10) Remove the plastic hooks on the back side of the backrest assembly LH.



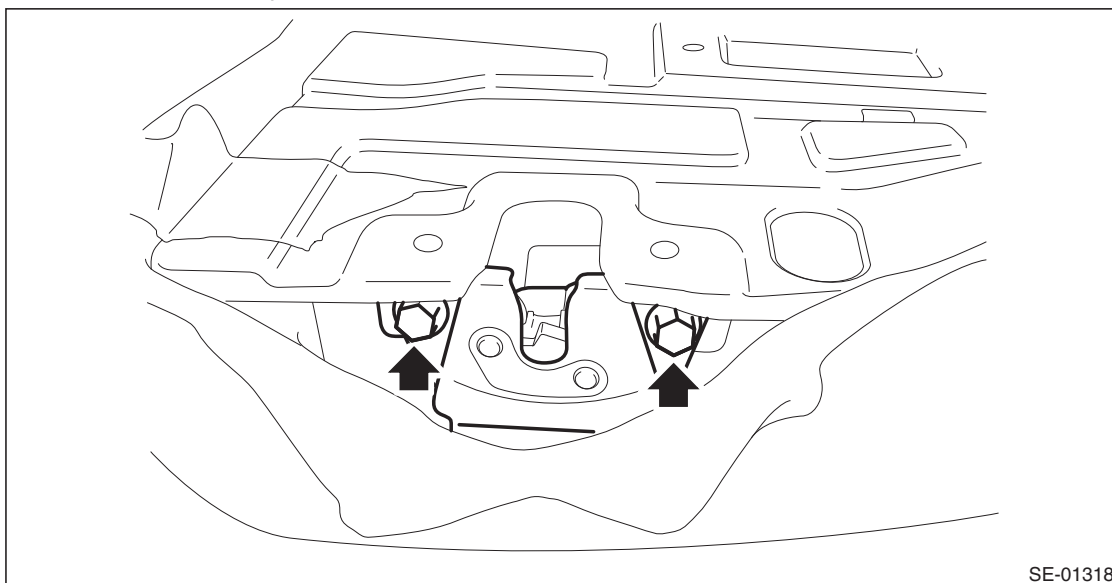
Rear Seat

SEATS

11) Detach the bushing - headrest and the bushing - lock assembly, and remove the frame assembly - rear backrest LH from the pad assembly - main LH.



12) Remove the lock assembly - rear backrest rear LH.

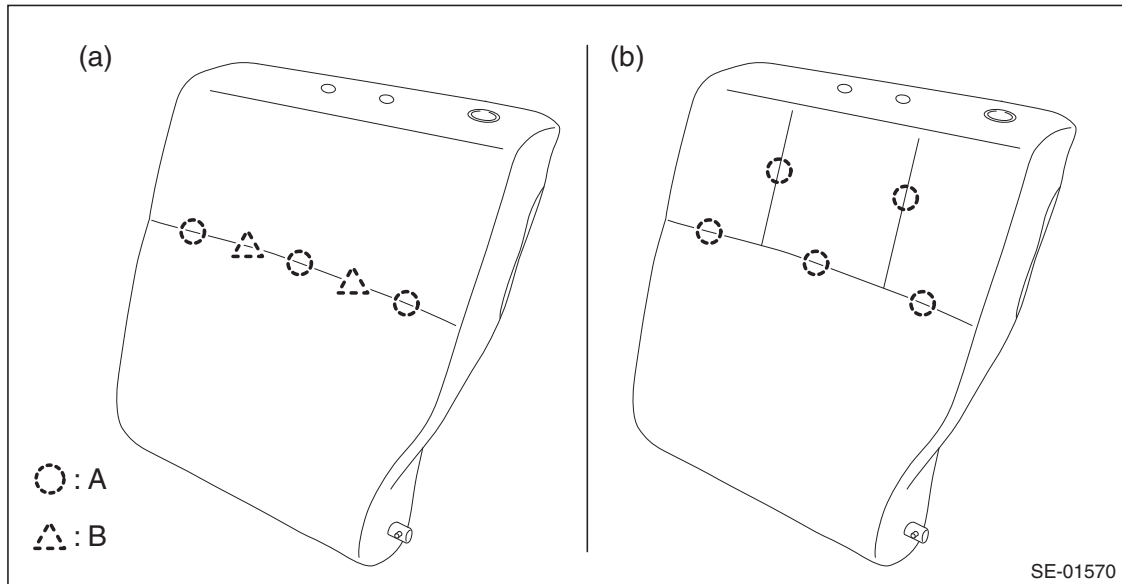


Rear Seat

SEATS

13) Remove the hog rings (A) and wire clip (B), then remove the cover COMPL - rear backrest.

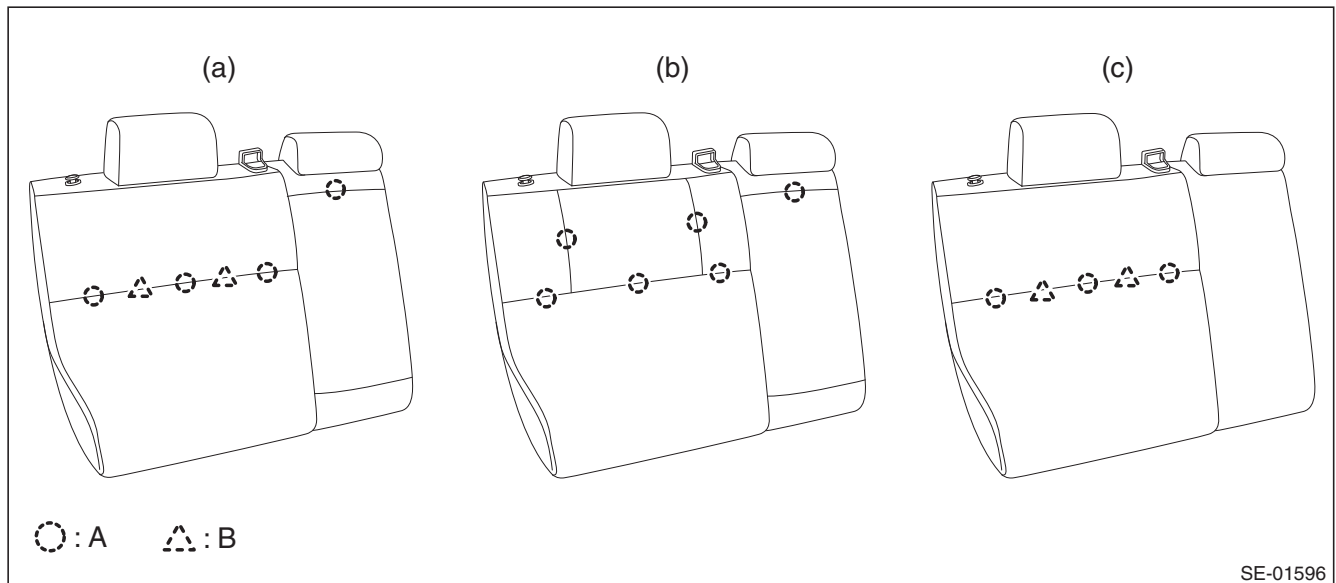
- LH side



(a) Normal seat type

(b) Leather seat type

- RH side



(a) Model with armrest ASSY - rear center (normal seat type)

(b) Model with armrest ASSY - rear center (leather seat type)

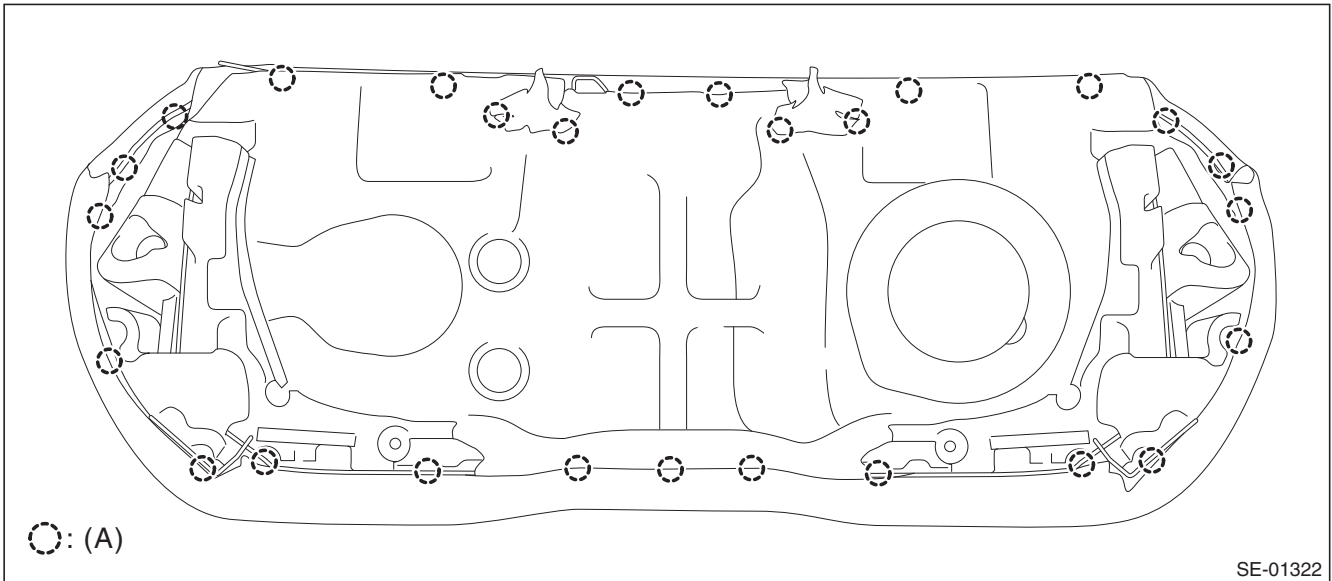
(c) Model without armrest ASSY - rear center

14) Referring to the procedures after step 2), disassemble the backrest assembly RH.

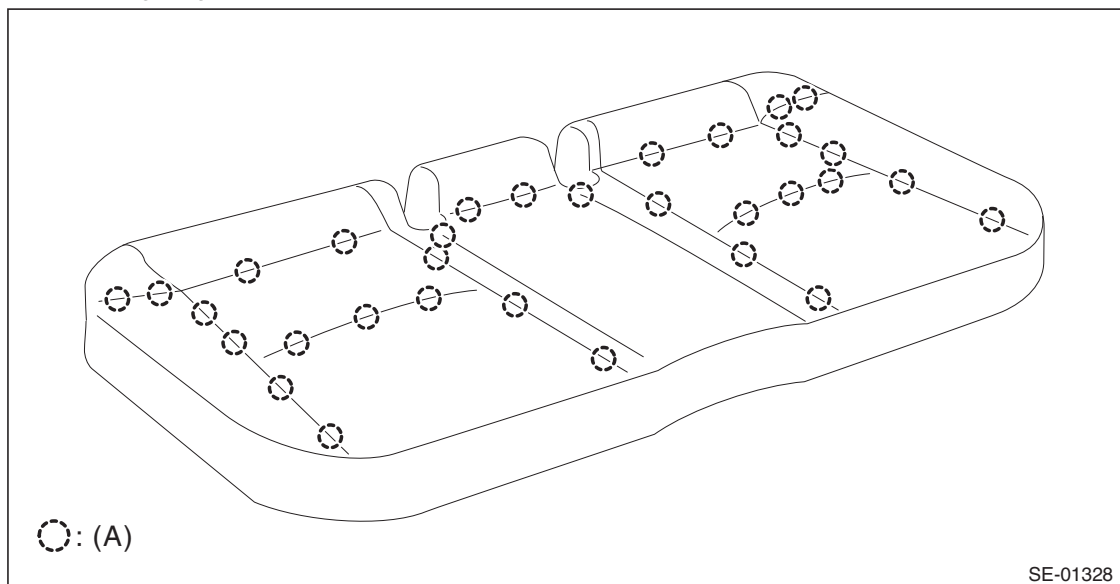
Rear Seat

SEATS

15) Remove the hog rings (A) on the back side of the seat cushion assembly.



16) Remove the hog rings (A), then remove the cover - rear cushion.



Rear Seat

SEATS

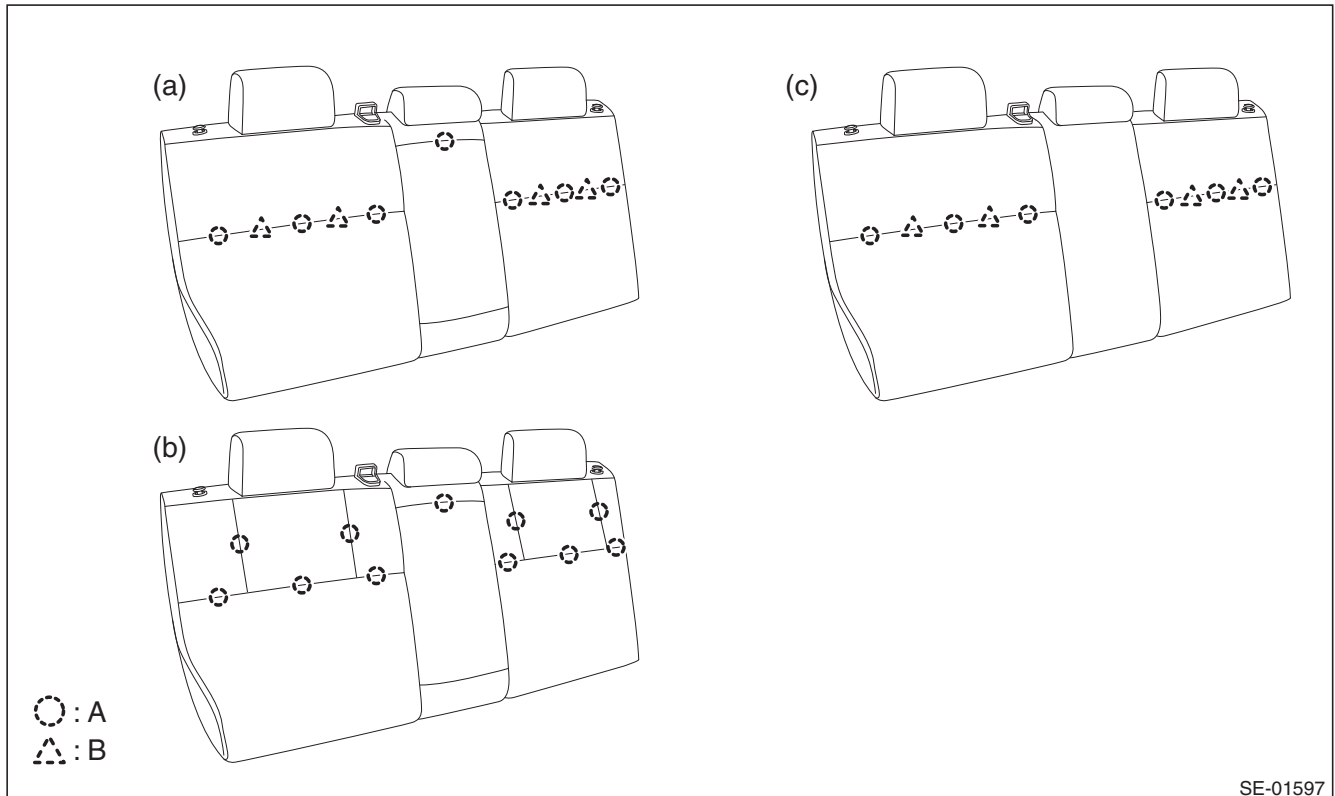
D: ASSEMBLY

CAUTION:

- Do not reuse hog rings.
- Secure the hog ring using hog ring pliers.
- Install the hog rings to the specified points securely and make sure that there is no wrinkle or twisting on the cover COMPL - rear backrest.

1) Assemble the cover COMPL - rear backrest and the cover - rear cushion in the same manner as for the front seat. <Ref. to SE-26, ASSEMBLY, Front Seat.>

2) Make sure that all hog rings (A) and wire clips (B) are attached securely.



(a) Model with armrest ASSY - rear center (normal seat type)

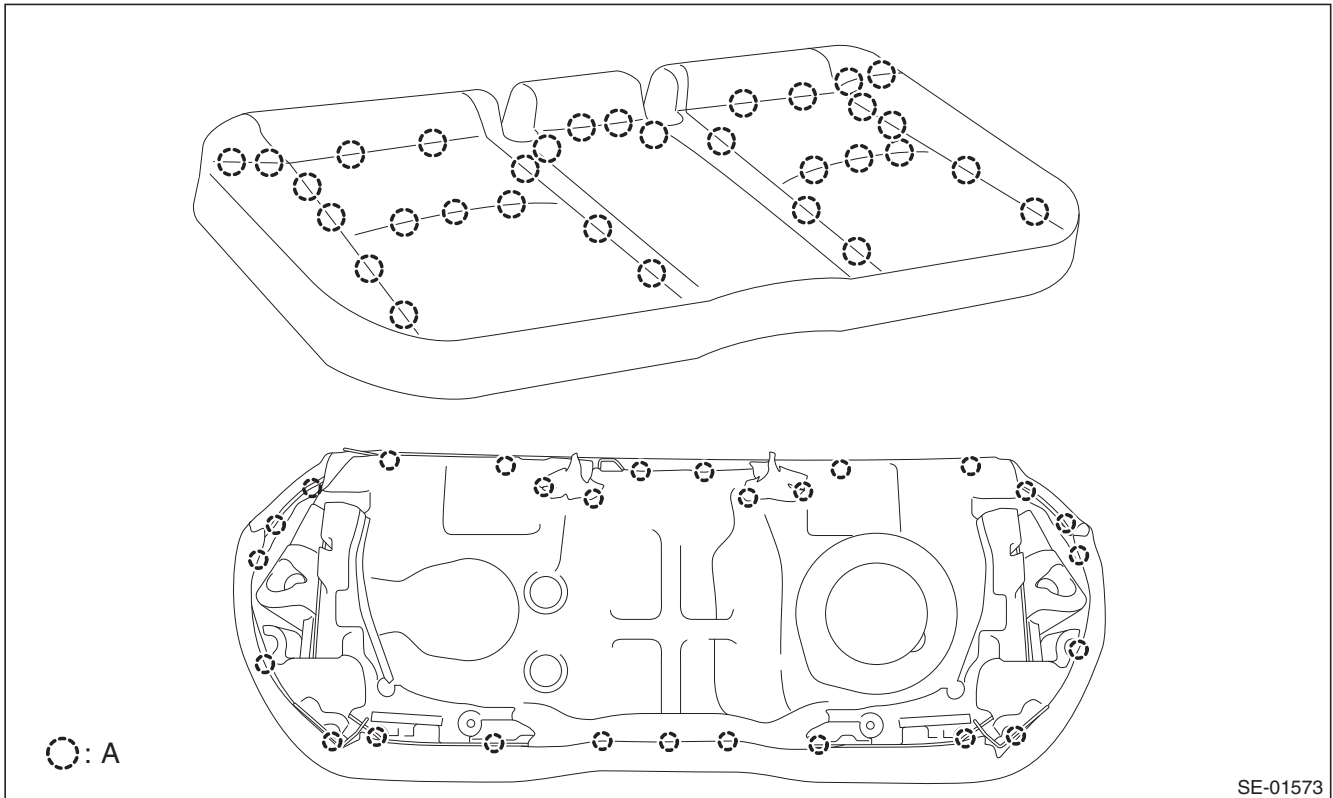
(b) Model with armrest ASSY - rear center (leather seat type)

(c) Model without armrest ASSY - rear center

Rear Seat

SEATS

3) Make sure that all hog rings (A) are attached securely.



4) Before installation, check the following items.

- No tear and fray on the cover COMPL - rear backrest and the cover - rear cushion.
- No fray or deformation on each wire cable.

5) Install each part in the reverse order of removal.

Power Seat System

SEATS

4. Power Seat System

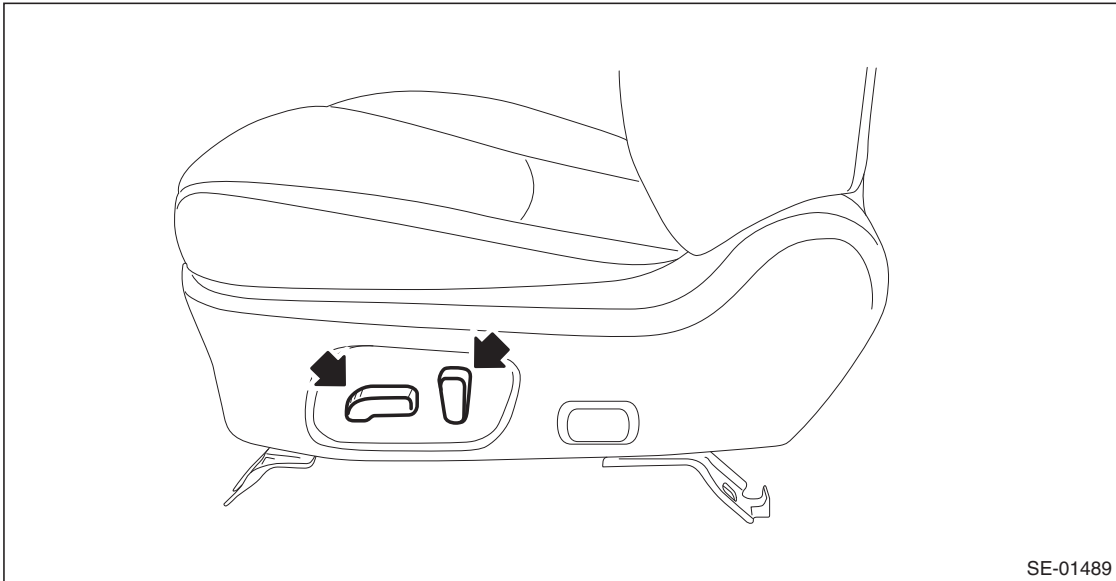
A: REMOVAL

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

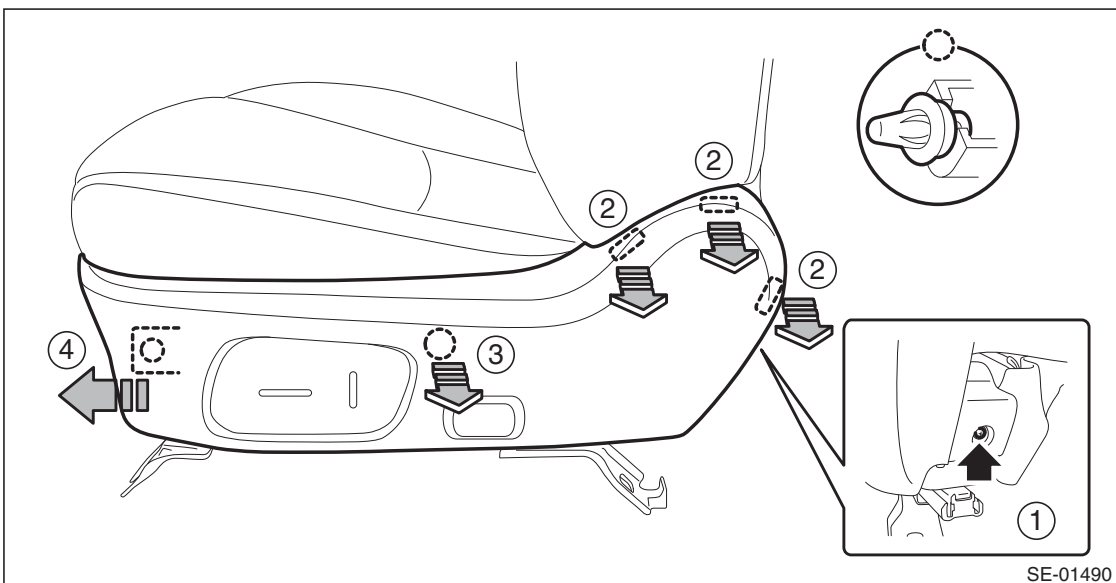
- 1) Remove the seat from vehicle. <Ref. to SE-8, REMOVAL, Front Seat.>
- 2) Remove the knob - power seat.



SE-01489

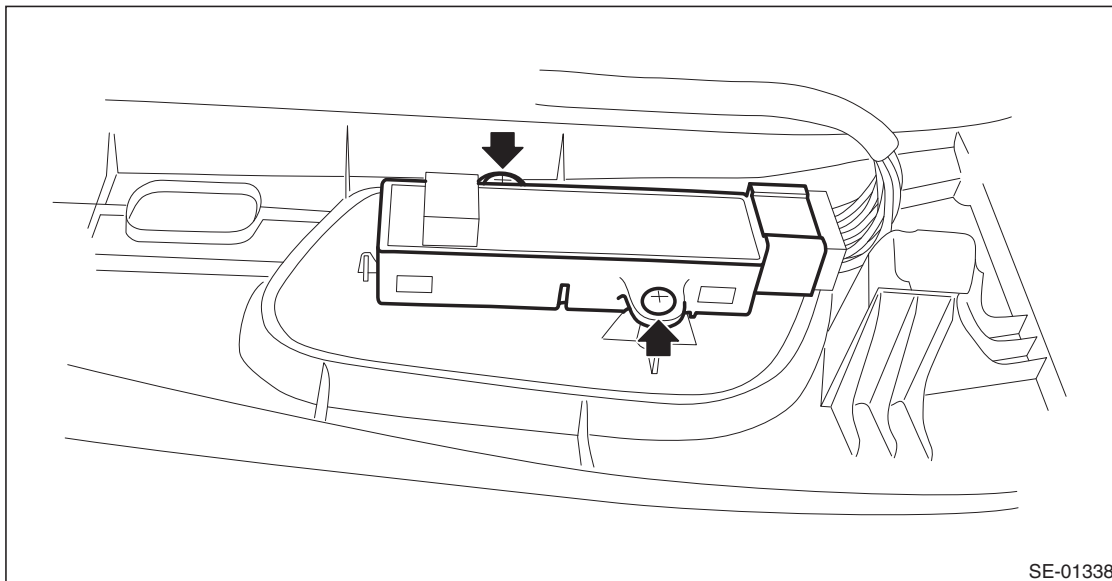
3) Remove the cover - hinge front seat OUT.

- (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 and lumbar switch connector and remove the cover - hinge front seat OUT.



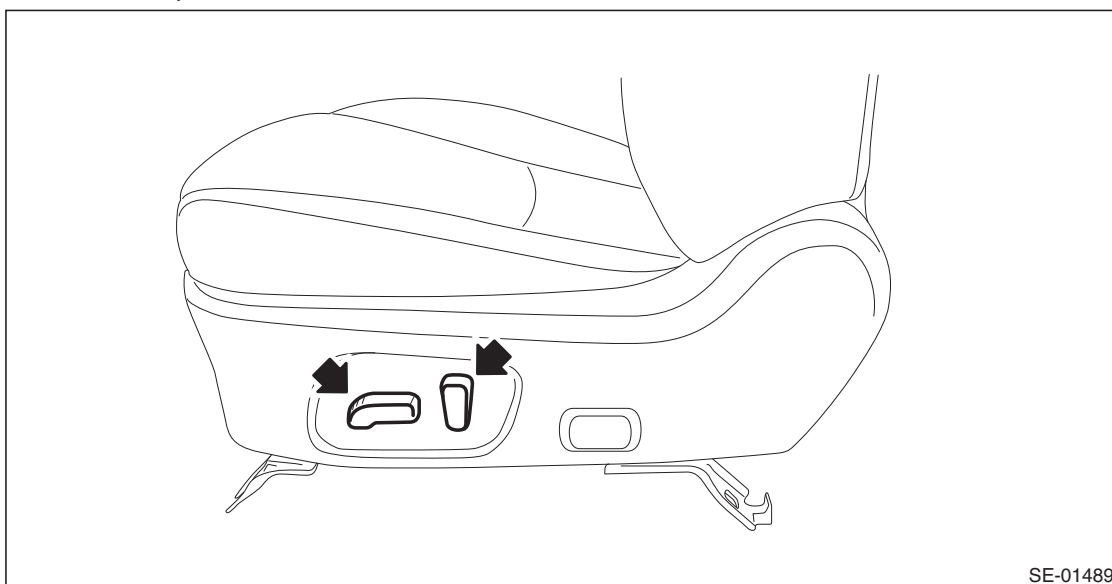
SE-01490

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



2. LUMBAR SWITCH

- 1) Remove the seat from vehicle. <Ref. to SE-8, REMOVAL, Front Seat.>
- 2) Remove the knob - power seat.

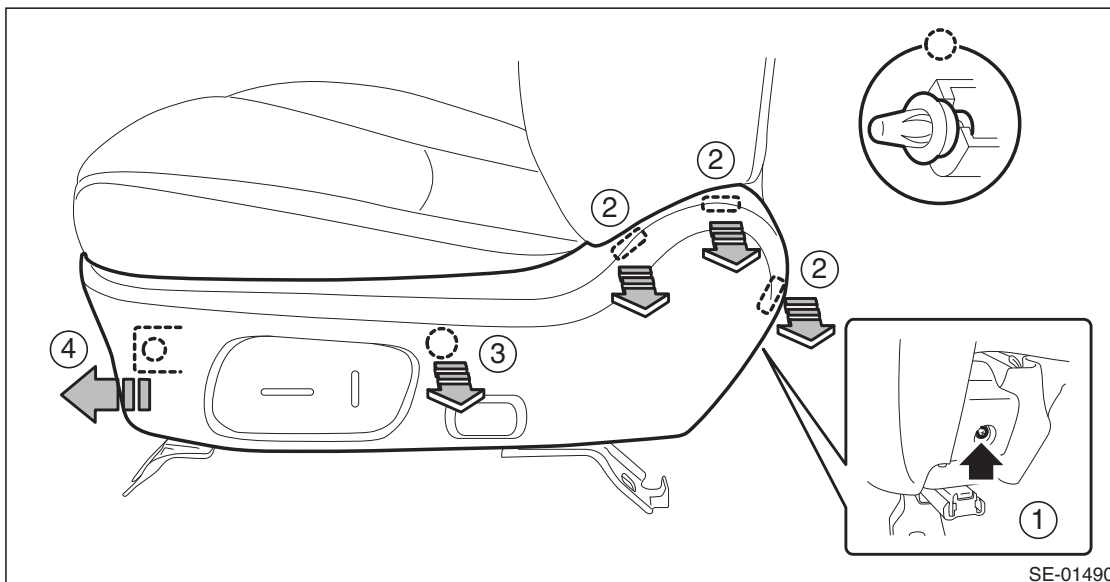


Power Seat System

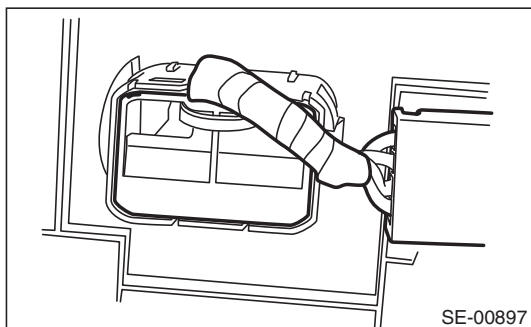
SEATS

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 and lumbar switch connector and remove the cover - hinge front seat OUT.



4) Disconnect the connector and remove the lumbar switch assembly.



B: INSTALLATION

Install each part in the reverse order of removal.

C: INSPECTION

1. WIRING DIAGRAM

Refer to "Power Seat" in WI section. <Ref. to WI-319, WIRING DIAGRAM, Power Seat System.>

2. TROUBLE SYMPTOM

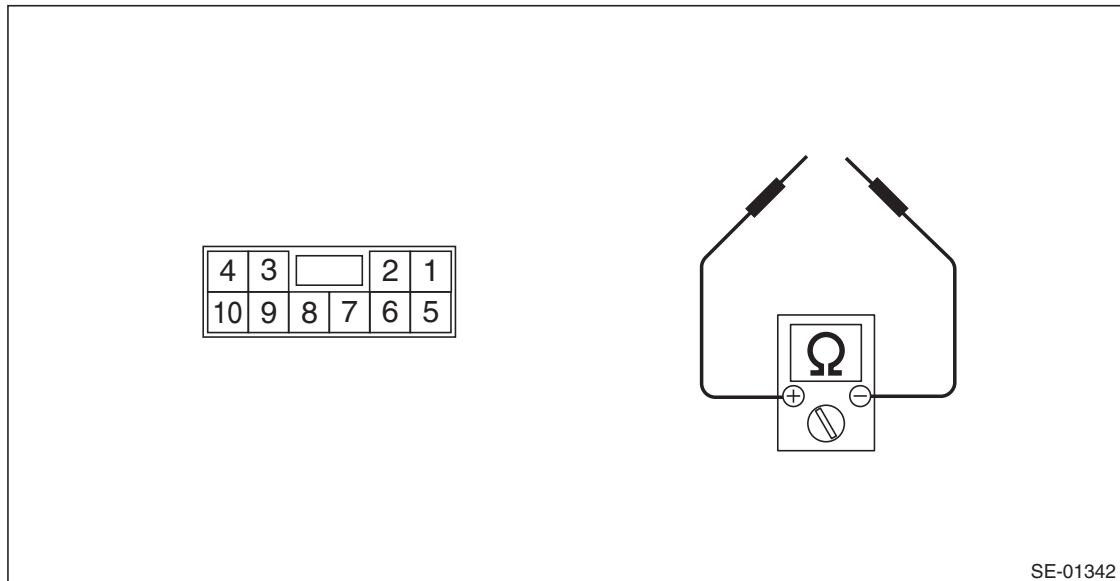
Symptoms	Criteria
All functions do not operate. <Ref. to SE-48, ALL FUNCTIONS DO NOT OPERATE, INSPECTION, Power Seat System.>	• Power seat switch • Power seat harness • Body harness
A part of function does not operate. <Ref. to SE-48, SOME MOTORS DO NOT OPERATE, INSPECTION, Power Seat System.>	• Power seat switch • Power seat harness • Relevant motor

Power Seat System

SEATS

3. CHECK POWER SEAT SWITCH

Measure resistance between terminals while operating each switch.



SE-01342

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.

Power Seat System

SEATS

4. 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-48, 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.

5. 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-47, 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.

Power Seat System

SEATS

• 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-47, 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 <i>(R200) No. 3 — (R203) No. 4:</i> <i>(R200) No. 2 — (R203) No. 6:</i>	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 <i>(R203) No. 4 (+) — (R203) No. 6 (-):</i> <i>(R203) No. 6 (+) — (R203) No. 4 (-):</i>	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-47, 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 <i>(R200) No. 6 — (R204) No. 6:</i> <i>(R200) No. 9 — (R204) No. 4:</i>	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 <i>(R204) No. 2 (+) — (R204) No. 1 (-):</i> <i>(R204) No. 1 (+) — (R204) No. 2 (-):</i>	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.

Power Seat System

SEATS

• 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-47, 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.



5. Seat Heater System

A: REMOVAL

1. SEAT HEATER UNIT

- 1) Remove the front seats. <Ref. to SE-8, REMOVAL, Front Seat.>
- 2) Remove the backrest cover of front seat and seat cushion cover. <Ref. to SE-10, DISASSEMBLY, Front Seat.>
- 3) Remove the seat heater unit.

2. SEAT HEATER SWITCH

- 1) Disconnect the ground cable from battery.

NOTE:

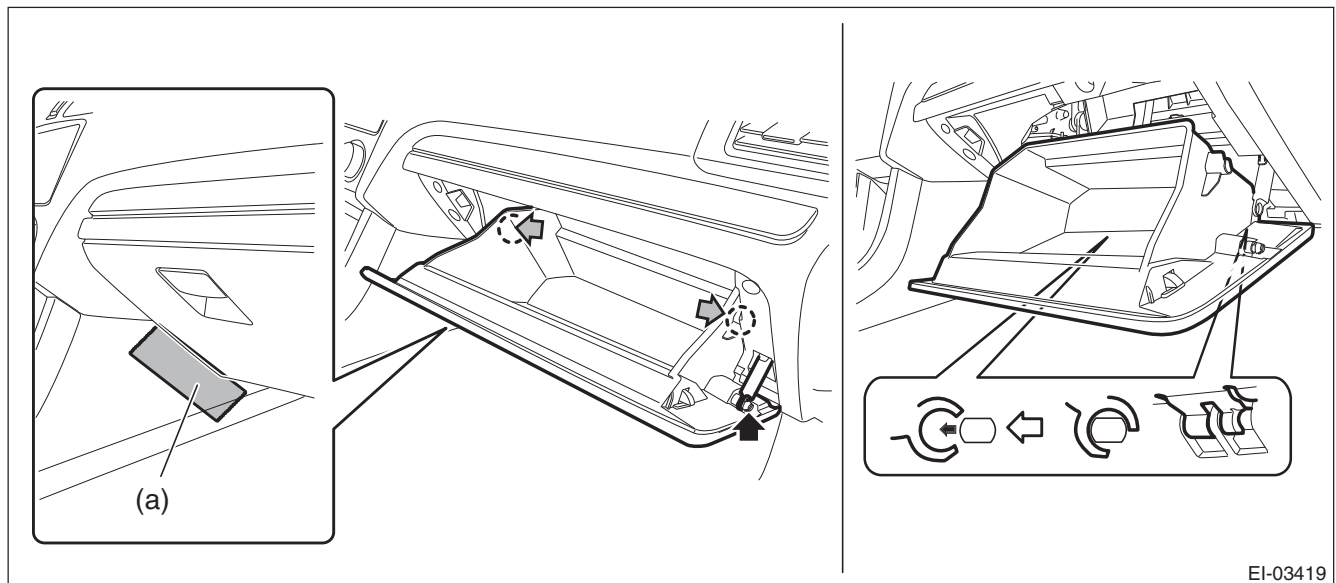
On CVT models, shift the select lever into D before disconnecting the battery ground cable.

Remove the console box assembly. <Ref. to EI-65, REMOVAL, Console Box.>

- 2) Remove the screws and remove the seat heater switch from the backside of the console box assembly.

3. SEAT HEATER RELAY AND FUSE

- 1) Disconnect the ground cable from battery.
- 2) Remove the cover assembly - instrument panel LWR driver. <Ref. to EI-59, REMOVAL, Instrument Panel Lower Cover.>
- 3) Remove the pocket assembly.
 - (1) Attach the protective tape (a) to the panel center LWR.
 - (2) Remove the damper COMPL - pocket.
 - (3) Release the stoppers and remove the pocket assembly by pulling it toward you.



EI-03419

Seat Heater System

SEATS

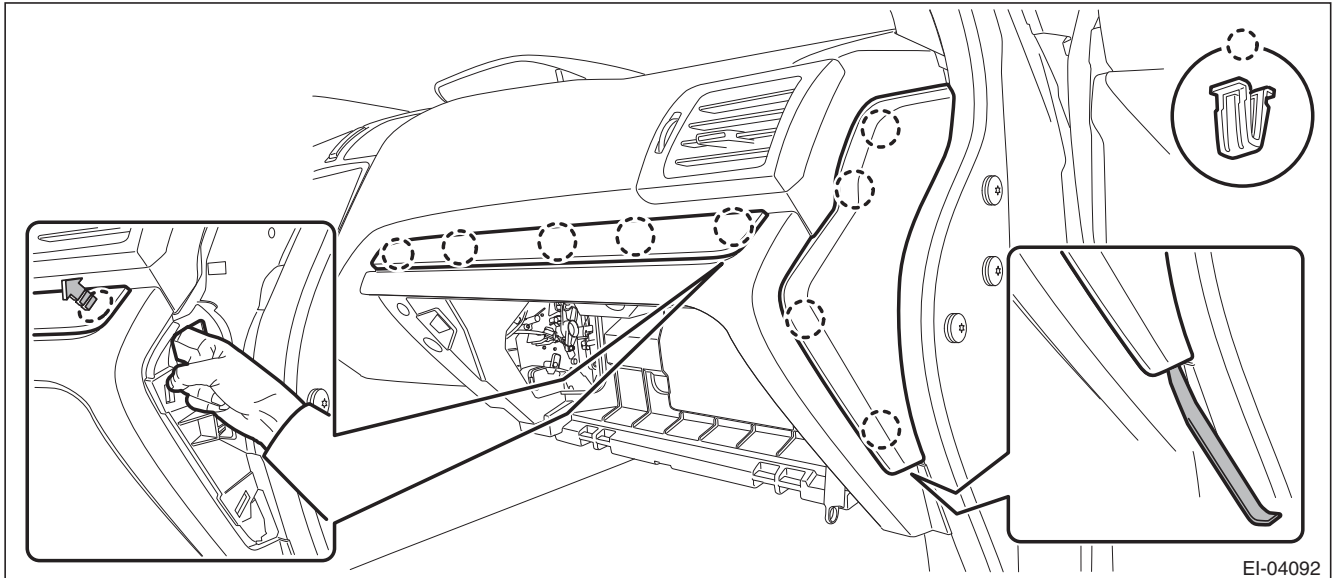
4) Remove the back panel - pocket.

(1) Remove the clips, and remove the cover - instrument panel side RH.

NOTE:

Remove the cover - instrument panel side RH by using a plastic remover.

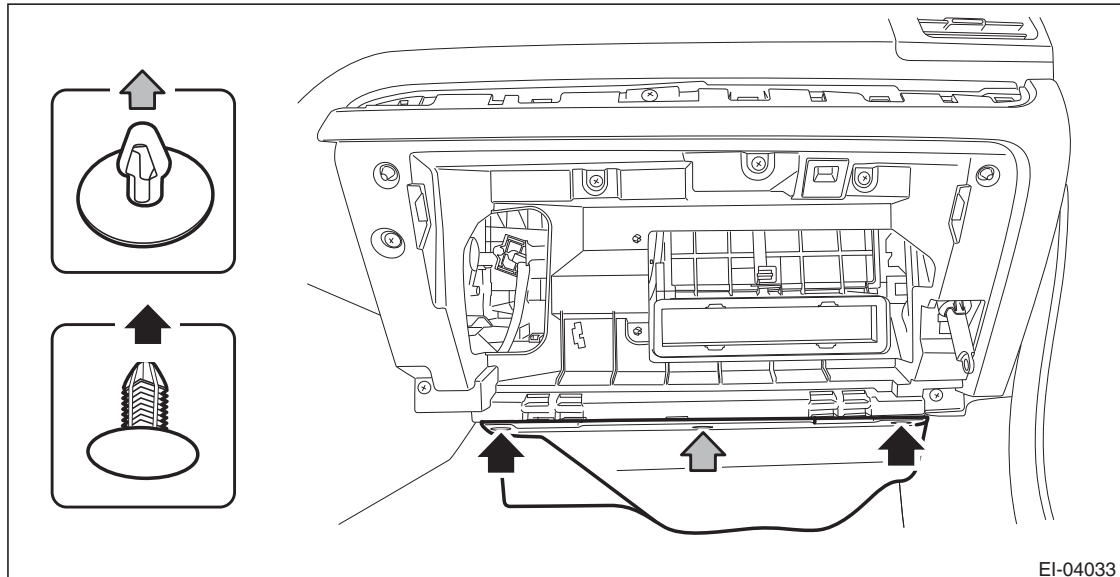
(2) Release the clips, and remove the ornament - panel assembly passenger.



NOTE:

To facilitate the removal, push the clip of the ornament - panel assembly passenger from the backside.

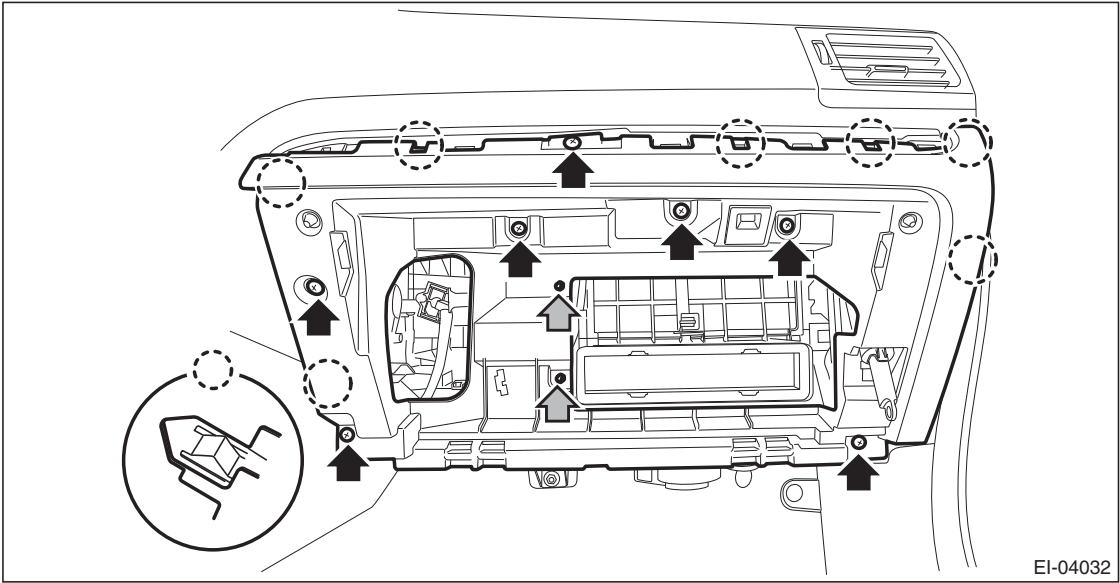
(3) Release the clips, and remove the glove box under cover.



Seat Heater System

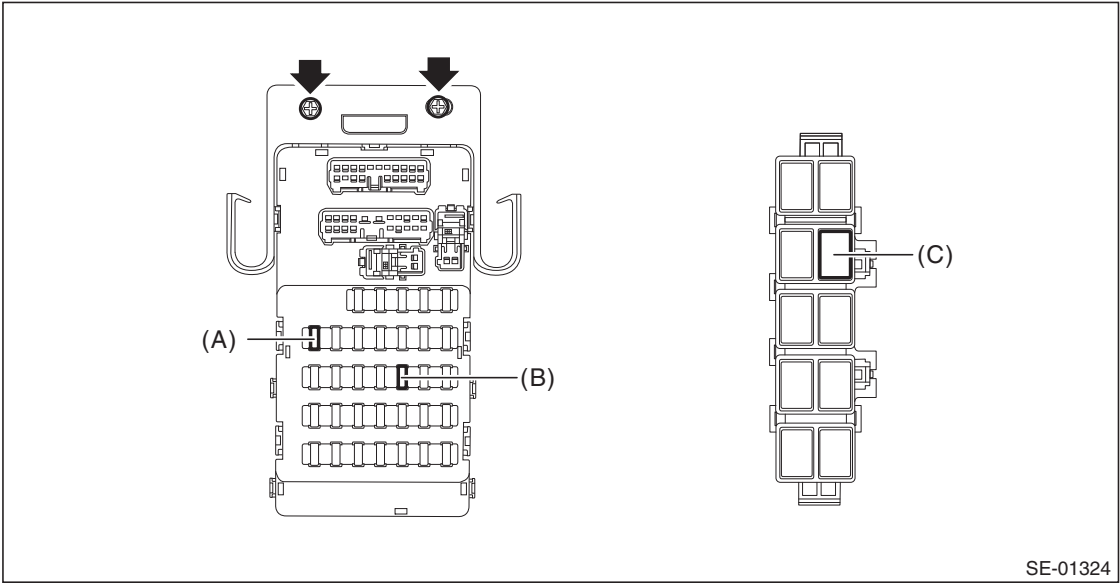
SEATS

(4) Remove the screws, claws and harness clamp, then remove the back panel - pocket.



EI-04032

- 5) Remove the seat heater relay and fuse.
- (1) Remove the relay & fuse box bolts.
 - (2) Remove the seat heater relay from the relay holder.



SE-01324

Relay & fuse box	Fuse 7.5 A (remote control mirror)	(A)
	Fuse 15 A (seat heater)	(B)
Relay holder	Seat heater relay	(C)

B: INSTALLATION

Install each part in the reverse order of removal.

Seat Heater System

SEATS

C: INSPECTION

1. WIRING DIAGRAM

Refer to "Seat Heater System" in the wiring diagram. <Ref. to WI-376, WIRING DIAGRAM, Seat Heater System.>

2. DIAGNOSTIC CHART

Symptoms	Repair order
Seat heater does not operate.	1. Check the fuse. <Ref. to SE-54, CHECK SEAT HEATER FUSE, INSPECTION, Seat Heater System.>
	2. Check the seat heater relay. <Ref. to SE-54, CHECK SEAT HEATER RELAY, INSPECTION, Seat Heater System.>
	3. Check the seat heater system power supply and ground circuit. <Ref. to SE-55, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Seat Heater System.>
	4. Check the seat heater module. <Ref. to SE-55, SEAT HEATER UNIT, INSPECTION, Seat Heater System.>
	5. Check the seat heater switch circuit. <Ref. to SE-56, SEAT HEATER SWITCH, INSPECTION, Seat Heater System.>

3. CHECK SEAT HEATER FUSE

Remove the seat heater fuse and inspect visually.

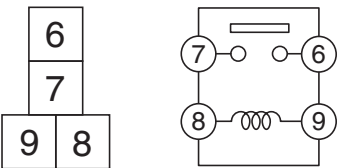
Is the fuse blown out?

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

4. CHECK SEAT HEATER RELAY

- 1) Remove the seat heater relay from the relay holder.
- 2) Measure the resistance between seat heater relay terminals.

Preparation tool: Circuit tester

Terminal No.	Inspection conditions	Standard	Circuit
6 — 7	Always	1 MΩ or more	
6 — 7	Apply battery voltage between terminals 8 and 9.	Less than 1 Ω	

- 3) Replace the seat heater relay if the inspection result is not within the standard value.

5. CHECK POWER SUPPLY AND GROUND CIRCUIT

1) Check power supply circuit

- (1) Disconnect the harness 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

(R43) No. 7 (+) — Chassis ground (-):

Is the voltage 12 V or more?

- **Yes** → Go to step 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

(R43) No. 2 — Chassis ground:

Is the resistance less than 10 Ω ?

- **Yes** → Go to step 3.
- **No** → Repair the harness.

3) Check ground circuit

Measure the resistance between seat heater switch terminals.

Connector & terminal

(R43) No. 7 — (R43) No. 2:

Is the resistance less than 10 Ω ?

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

6. SEAT HEATER UNIT

- 1) Disconnect the seat heater unit connector, and check the continuity between terminals of connector.

Connector & terminal

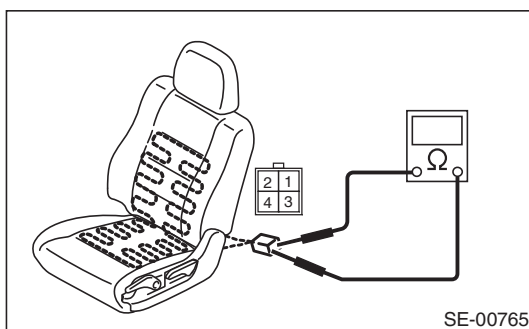
HI

No. 1 — No. 3:

No. 3 — No. 4:

LOW

No. 1 — No. 4:



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

Seat Heater System

SEATS

7. SEAT HEATER SWITCH

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

Connector & terminal

HI

No. 4 — No. 5:

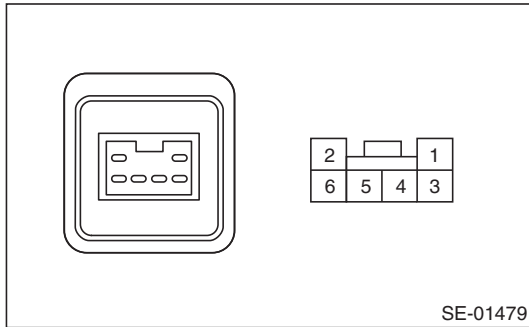
No. 4 — No. 3:

No. 4 — No. 6:

LOW

No. 4 — No. 5:

No. 4 — No. 6:



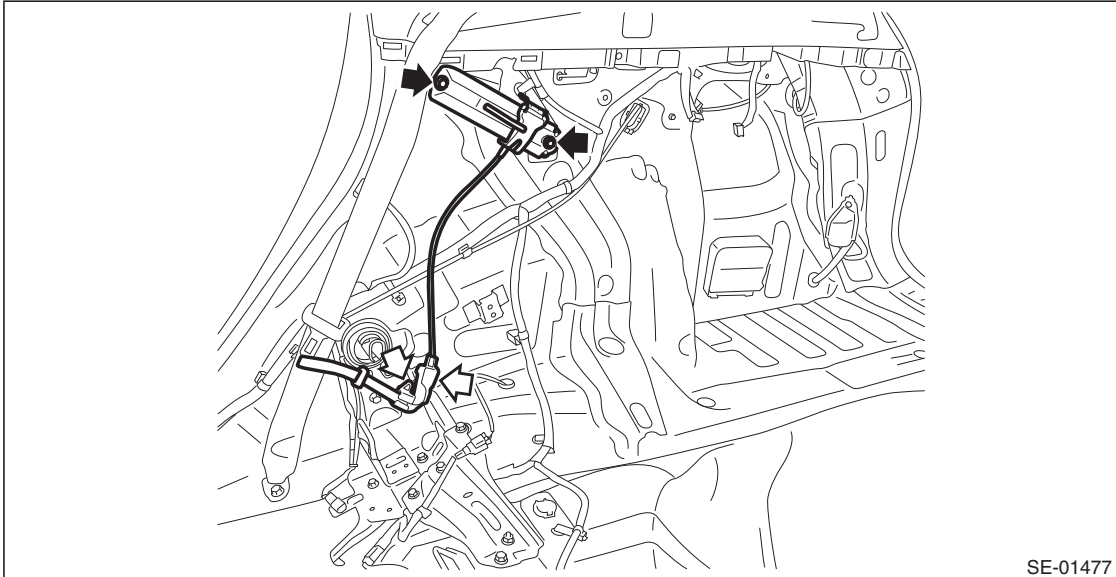
2) If no continuity exists, replace the seat heater switch with a new part.



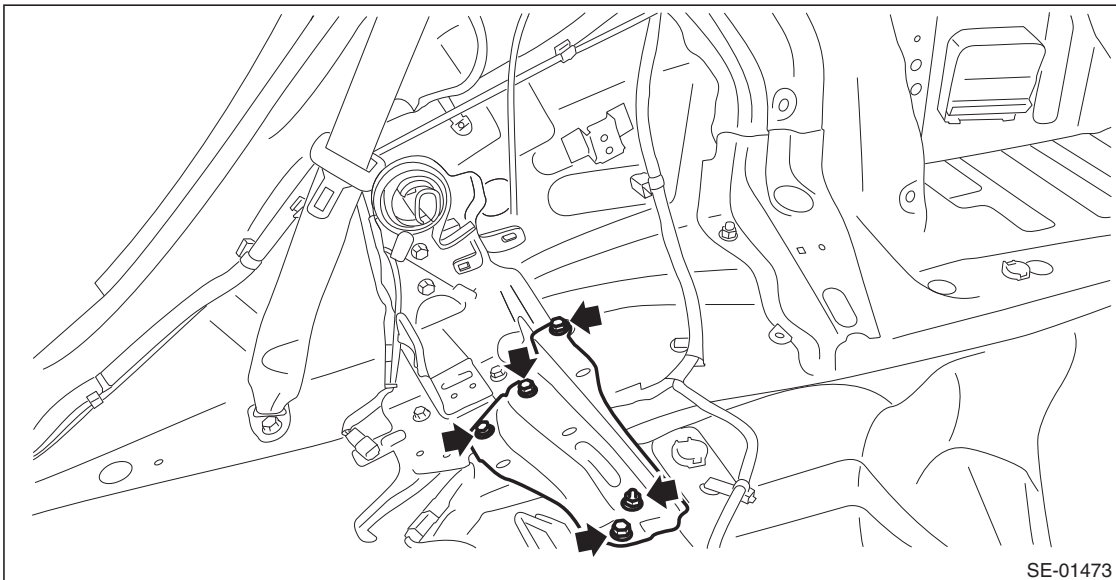
6. Rear Seat Reclining System

A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Remove the rear seat. <Ref. to SE-32, REMOVAL, Rear Seat.>
- 3) Remove the trim panel - rear apron. <Ref. to EI-102, REMOVAL, Rear Quarter Trim.>
- 4) Remove the clips and bolts, then remove the striker - backrest rear.



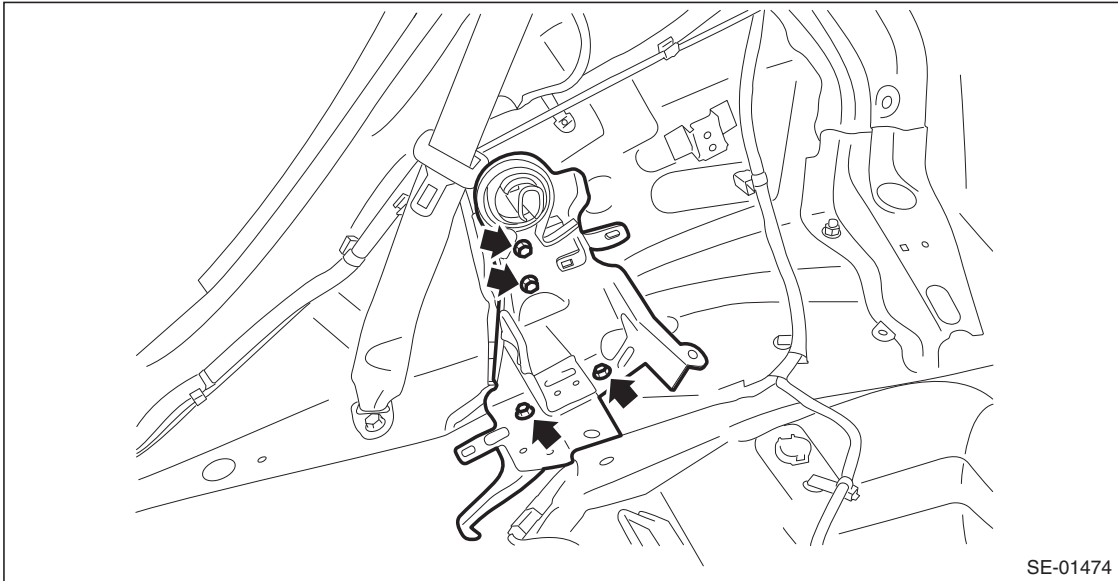
- 5) Remove the bolts and nuts, and remove the hinge assembly - rear backrest stay.



Rear Seat Reclining System

SEATS

6) Remove the bolts, and remove the hinge assembly - rear backrest.



B: INSTALLATION

Install each part in the reverse order of removal.

Tightening torque:

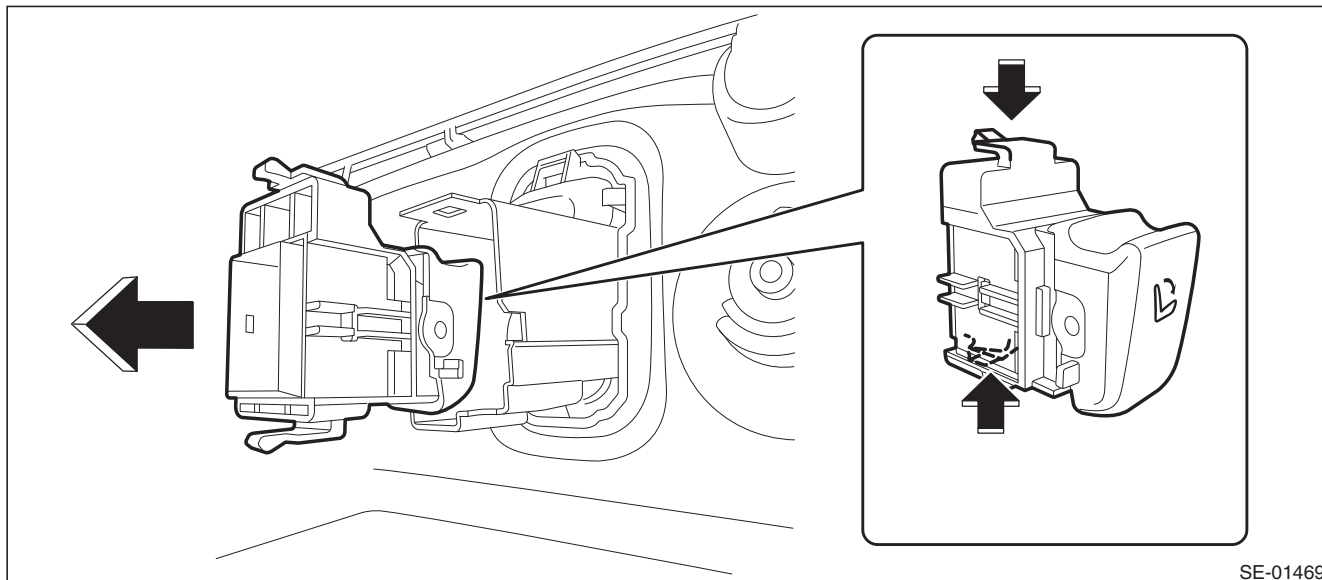
Refer to “**COMPONENT**” of “**General Description**”. <Ref. to SE-6, REAR SEAT, COMPONENT, General Description.>

7. Remote Control Back Rest System

A: REMOVAL

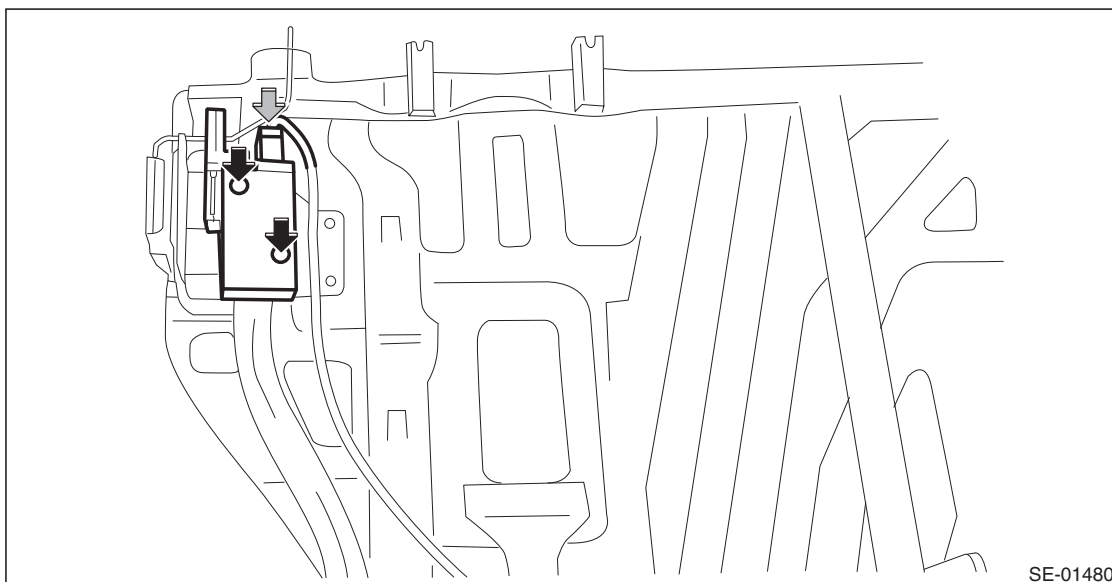
1. REMOTE CONTROL BACK REST SWITCH

- 1) Disconnect the ground cable from battery.
- 2) Remove the rear quarter lower trim. <Ref. to EI-102, REMOVAL, Rear Quarter Trim.>
- 3) Remove the remote control back rest switch from the rear quarter lower trim.



2. REMOTE CONTROL BACK REST ACTUATOR

- 1) Remove the rear seat backrest. <Ref. to SE-32, REMOVAL, Rear Seat.>
- 2) Remove the remote control back rest actuator from the rear seat backrest.
 - (1) Disconnect the connector.
 - (2) Remove the screws to remove the remote control back rest actuator.



B: INSTALLATION

Install each part in the reverse order of removal.

Remote Control Back Rest System

SEATS

C: INSPECTION

1. WIRING DIAGRAM

Refer to "Remote Control Back Rest System" in the wiring diagram. <Ref. to WI-361, Remote Control Back Rest System.>

2. DIAGNOSTIC CHART

Symptoms	Repair order
Remote control back rest system does not operate.	1. Check the fuse. <Ref. to SE-60, CHECK REMOTE CONTROL BACK REST SYSTEM FUSE, INSPECTION, Remote Control Back Rest System.>
	2. Check the power supply and ground circuit for the remote control back rest system. <Ref. to SE-60, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Remote Control Back Rest System.>
	3. Perform the inspection of switch unit. <Ref. to SE-61, INSPECTION OF SWITCH UNIT, INSPECTION, Remote Control Back Rest System.>
	4. Perform the inspection of actuator unit. <Ref. to SE-61, INSPECTION OF ACTUATOR UNIT, INSPECTION, Remote Control Back Rest System.>

3. CHECK REMOTE CONTROL BACK REST SYSTEM FUSE

Remove the fuse (FB-6) of remote control back rest system, and visually check.

Is the fuse blown out?

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

4. CHECK POWER SUPPLY AND GROUND CIRCUIT

1) Check power supply circuit

- (1) Disconnect the remote control back rest switch.
- (2) Turn the ignition switch to ON.
- (3) Measure the voltage between harness connector terminal and chassis ground.

Connector & terminal

RH side:

(R172) No. 5 (+) — Chassis ground (-):

LH side:

(R173) No. 5 (+) — Chassis ground (-):

Is the voltage 12 V or more?

- **Yes** → Go to step 2.
- **No** → Check the harness between the remote control back rest switch and fuse.

2) Check ground circuit

Measure the resistance between harness connector terminal and chassis ground.

Connector & terminal

RH side:

(R172) No. 1 — Chassis ground:

LH side:

(R173) No. 1 — Chassis ground:

Is the resistance less than 10 Ω when the switch is ON?

- **Yes** → Go to step 3.
- **No** → Check the switch.

3) Check power supply circuit

- (1) Connect the remote control back rest switch.
- (2) Disconnect the remote control back rest actuator.
- (3) Turn the ignition switch to ON.
- (4) Measure the voltage between harness connector terminal and chassis ground.

Connector & terminal

RH side:

(R170) No. 1 (+) — Chassis ground (-):

LH side:

(R171) No. 1 (+) — Chassis ground (-):

Is the voltage 12 V or more when the switch is ON?

- **Yes** → Go to step 4.
- **No** → Check the harness between the remote control back rest switch and actuator.

4) Check ground circuit

Measure the resistance between harness connector terminal and chassis ground.

Connector & terminal

RH side:

(R170) No. 2 — Chassis ground:

LH side:

(R171) No. 2 — Chassis ground:

Is the resistance 1 MΩ or more when the switch is ON?

- **Yes** → Perform the inspection of actuator unit.
- **No** → Repair the harness of ground circuit.

5. INSPECTION OF SWITCH UNIT

- 1) Disconnect the remote control back rest switch connector.
- 2) Measure the resistance between terminals of remote control back rest switch connector.

Connector & terminal

RH side:

(R172) No. 5 — (R172) No. 1:

LH side:

(R173) No. 5 — (R173) No. 1:

Is the resistance less than 10 Ω when the switch is ON?

- **Yes** → Normal operation.
- **No** → Replace the switch.

6. INSPECTION OF ACTUATOR UNIT

- 1) Disconnect the connector of actuator.
- 2) Connect the battery to the actuator connector.

Connector & terminal

RH side:

(R170) No. 1 (+) — (R170) No. 2 (-):

LH side:

(R171) No. 1 (+) — (R171) No. 2 (-):

Does the actuator operate?

- **Yes** → Normal operation.
- **No** → Replace the actuator.

Remote Control Back Rest System

SEATS
