

SEAT

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



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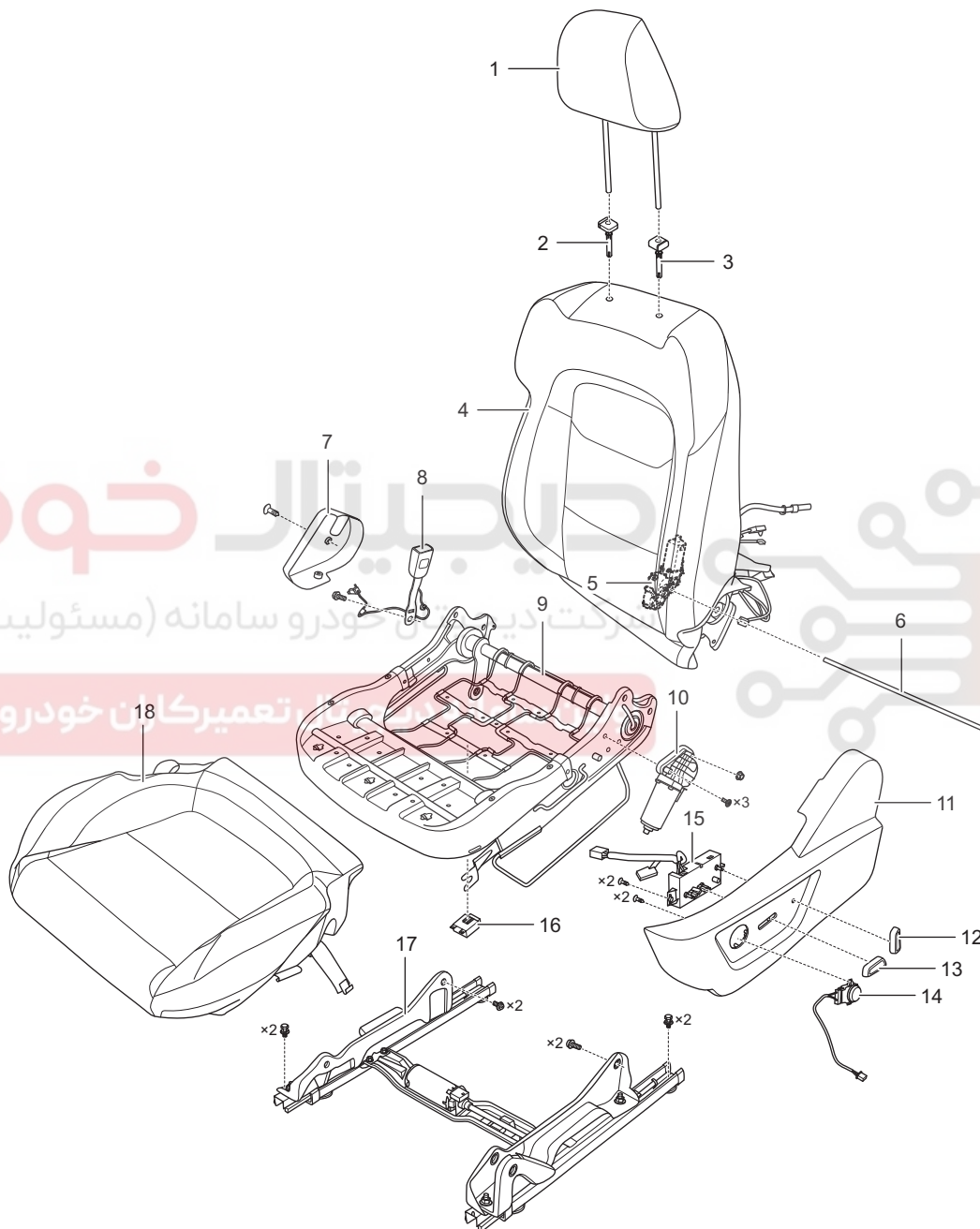


GENERAL INFORMATION

Description

Driver Seat Assembly

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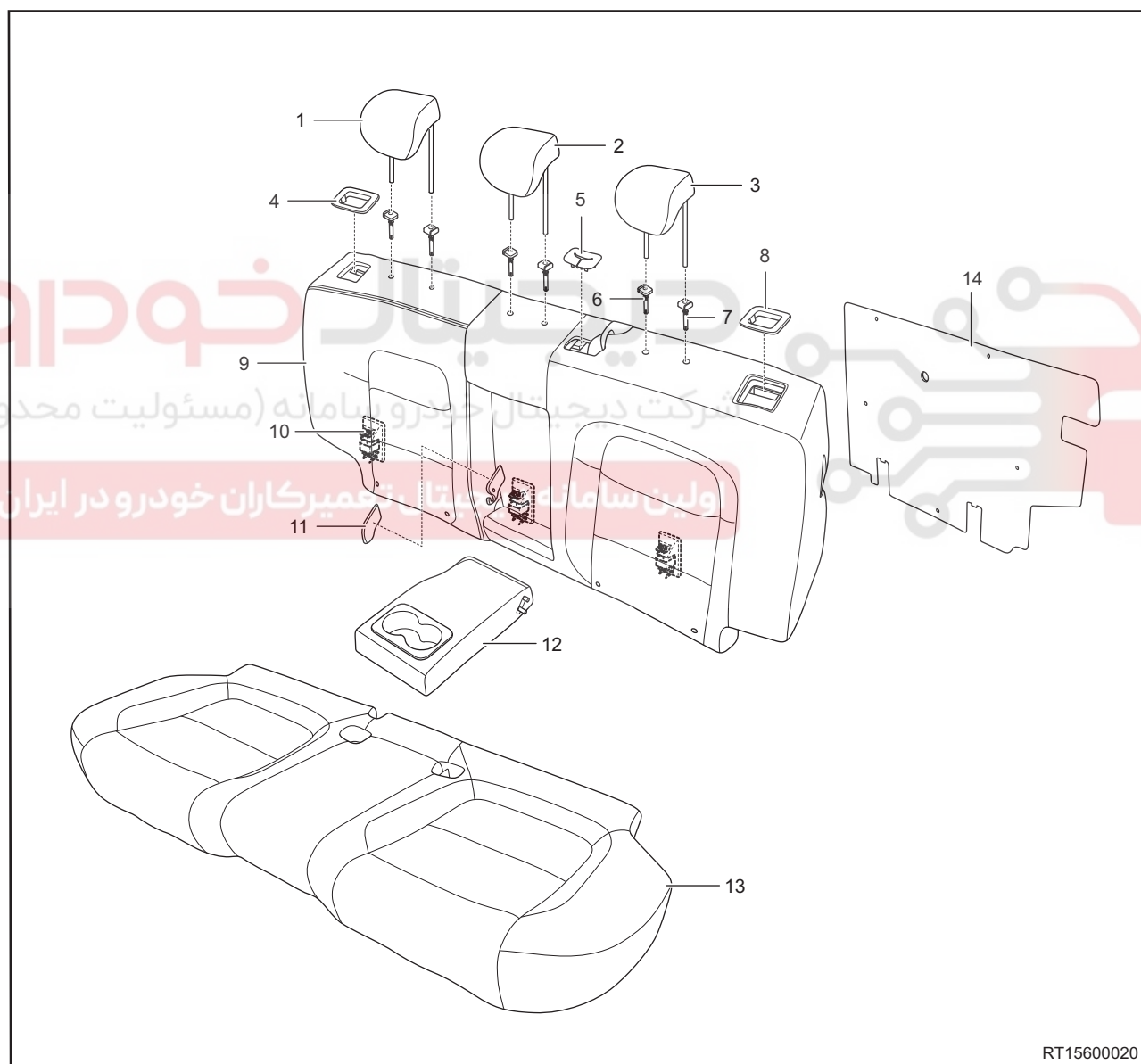
RT15600010

61 - SEAT

1 - Driver Seat Headrest Assembly	2 - Driver Seat Right Headrest Guide (w/Button)
3 - Driver Seat Left Headrest Guide (w/Button)	4 - Driver Seatback Assembly
5 - Driver Seatback Adjusting Motor Assembly	6 - Driver Seatback Adjuster Spindle Assembly
7 - Driver Seat Inner Shield	8 - Driver Seat Belt Buckle Assembly
9 - Driver Seat Cushion Frame	10 - Driver Seat Vertical Motor Assembly
11 - Driver Seat Outer Adjustment Shield	12 - Driver Seatback Adjustment Switch
13 - Driver Seat Front-back Adjustment Switch	14 - Driver Seat Lumbar Support Adjustment Switch
15 - Power Adjustment Switch Assembly	16 - Driver Seat Heating Controller
17 - Driver Seat Track Assembly	18 - Driver Seat Cushion Assembly

Rear Seat Assembly

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1 - Rear Right Seat Headrest Assembly	2 - Rear Center Seat Headrest Assembly
3 - Rear Left Seat Headrest Assembly	4 - Rear Seatback Left Unlock Mechanism Assembly
5 - Rear Seat Center Belt Trim Cover	6 - Rear Seat Headrest Guide (w/Button)
7 - Rear Seat Headrest Guide (w/Button)	8 - Rear Seatback Right Unlock Mechanism Assembly
9 - Rear Right Seatback Assembly	10 - Child Seat Upper Fixing Point Trim Cover
11 - Center Armrest Trim Cover	12 - Center Armrest Assembly
13 - Rear Seat Cushion Assembly	14 - Rear Seatback Plastic Lining Plate

Front seat assembly can be moved forward and backward by power seat front-back adjustment switch, and upward and downward by seat vertical adjustment switch (for driver side seat), and seatback reclining can be adjusted by seatback adjustment switch.

Rear seat position is not adjustable; however, rear seatback can be folded forward by pulling seatback unlock mechanism assembly, to help increase the storage space of luggage compartment.

Specifications

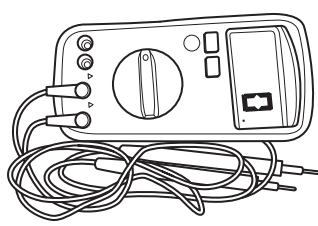
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Torque Specifications

Description	Torque (N·m)
Front Seat Assembly Fixing Bolt	50 ± 5.0
Seat Outer Shield Assembly Fixing Screw	1.5 ± 0.5
Seat Belt Buckle Assembly Fixing Bolt	50 ± 5.0
Seat Inner Shield Assembly Fixing Screw	1.5 ± 0.5
Seatback Adjuster Motor Fixing Bolt	15 ± 2.0
Seat Track Fixing Bolt	25 ± 5.0

Tool

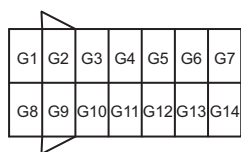
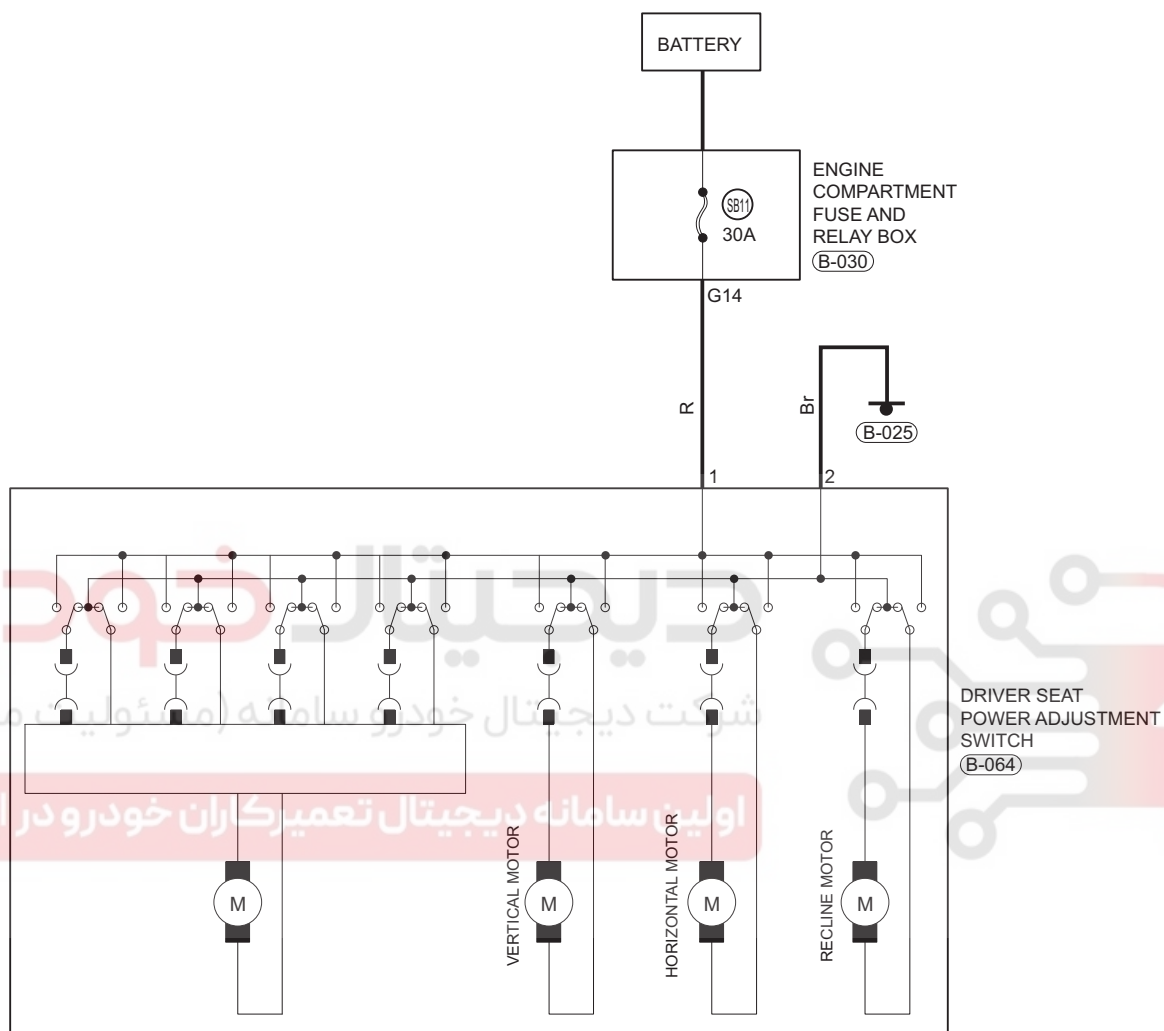
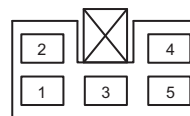
General Tool

Digital Multimeter	 RCH0000002
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Circuit Diagram

Seat System (Page 1 of 2)

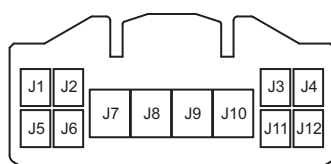
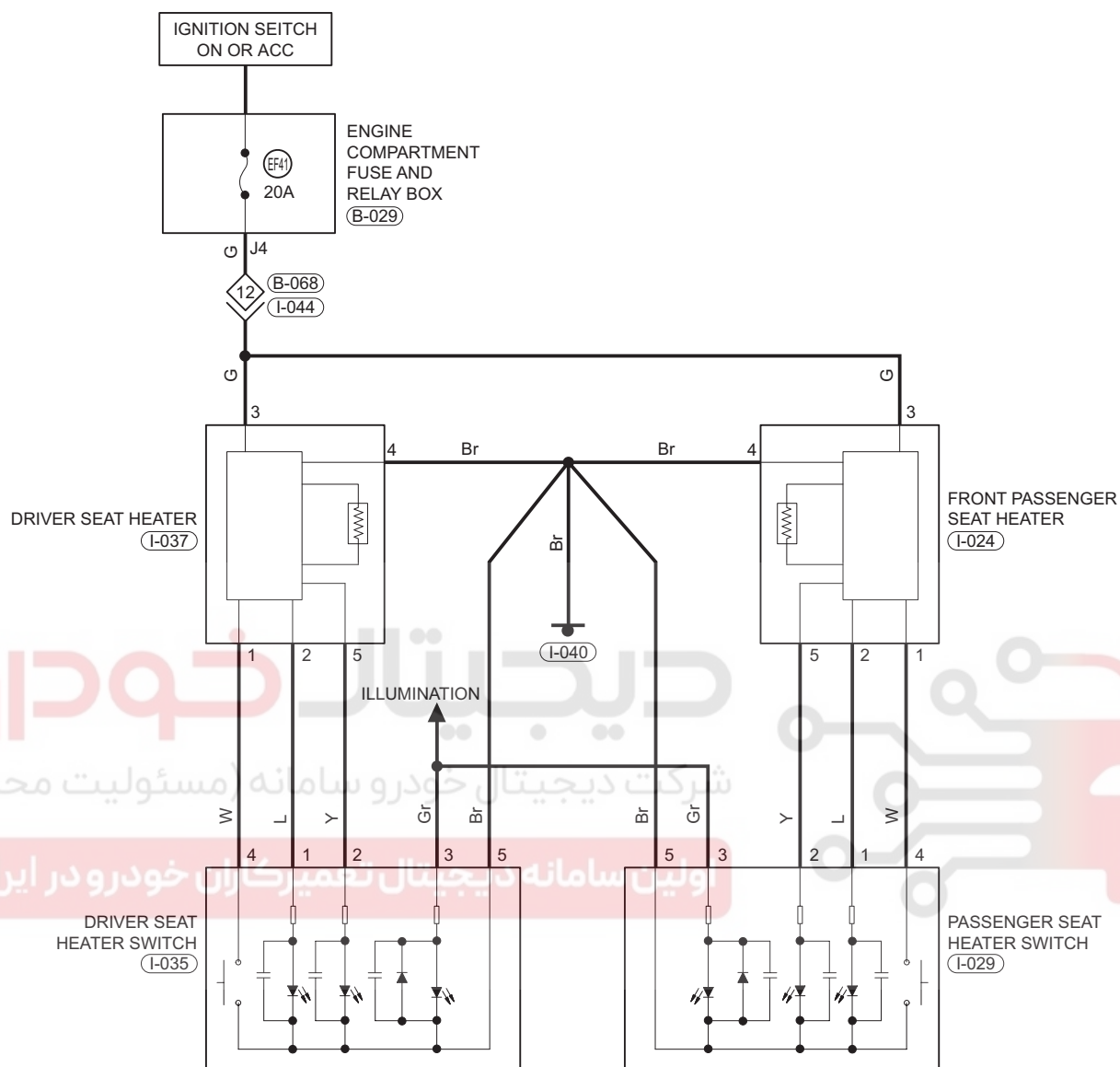
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(B-030)
W(B-064)
Br

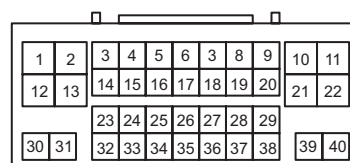
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Seat System (Page 2 of 2)

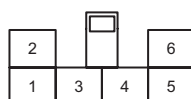
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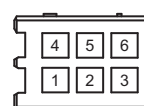
B-029
W



B-068
W



I-037 I-024
W W



I-035 I-029
B O

ET15600020

ON-VEHICLE SERVICE

Front Seat Assembly

Removal

HINT:

- Use same procedures for front passenger seat assembly and driver seat assembly.
- Procedures listed below are for driver seat assembly.

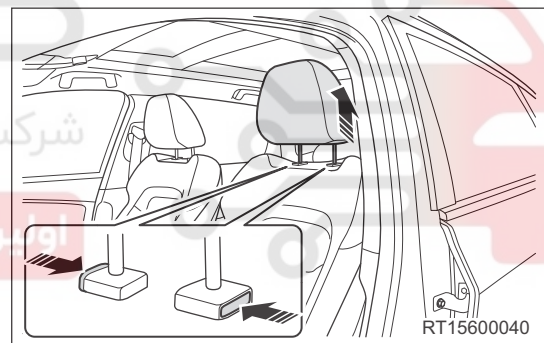
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing driver seat assembly.
- Appropriate force should be applied, when removing the driver seat assembly. Be careful not to operate roughly.
- DO NOT scratch interior and body paint, when removing driver seat assembly.

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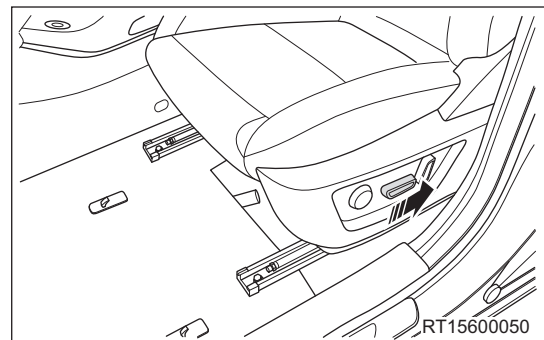
1. Turn off all electrical equipment and turn engine switch to OFF.
2. Disconnect the negative battery cable.
3. Remove the driver seat headrest assembly.

- a. As shown in the illustration, press release button of seat headrest guide (w/button), and remove driver seat headrest assembly.



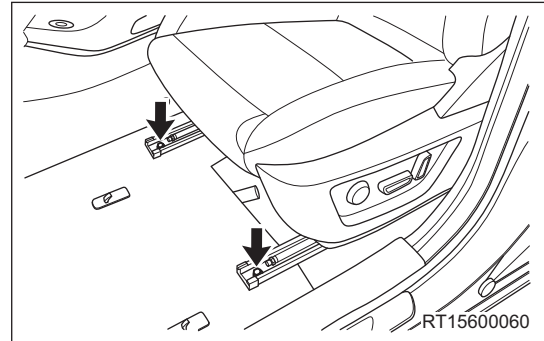
4. Remove the driver seat assembly.

- a. As shown in illustration, press power seat front-back adjustment switch and move seat assembly to the rearmost position.

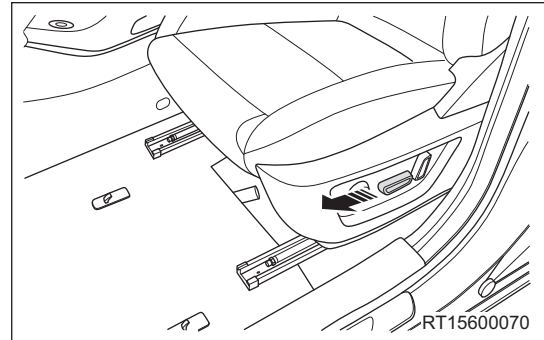


- b. Remove 2 fixing bolts (arrow) from front side of seat assembly.

(Tightening torque: 50 ± 5.0 N·m)

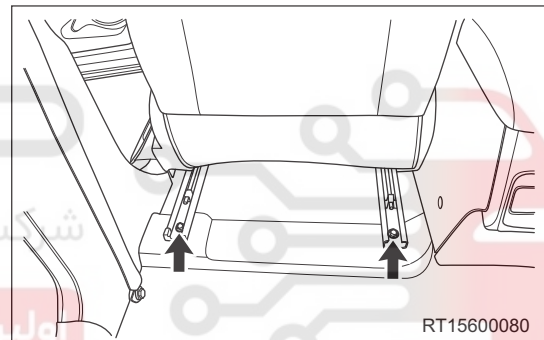


- c. As shown in illustration, press power seat front-back adjustment switch and move seat assembly to the foremost position.

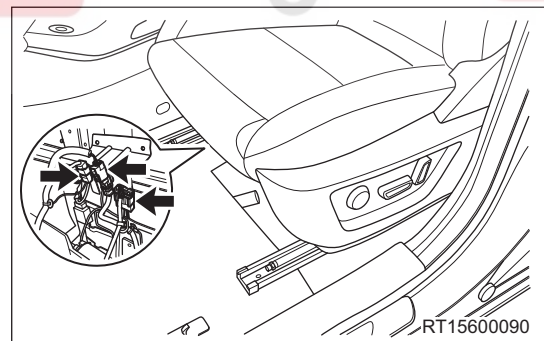


- d. Remove 2 fixing bolts (arrow) from rear side of seat assembly.

(Tightening torque: 50 ± 5 N·m)



- e. Disconnect wire harness connectors (arrow) under seat assembly.



- f. Remove the driver seat assembly.

Disassembly

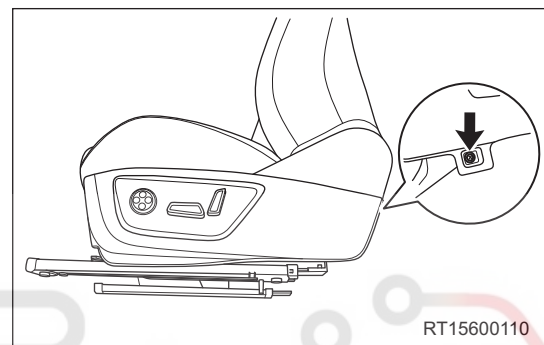
HINT:

- Use same procedures for front passenger seat assembly and driver seat assembly.
- Procedures listed below are for driver seat assembly.

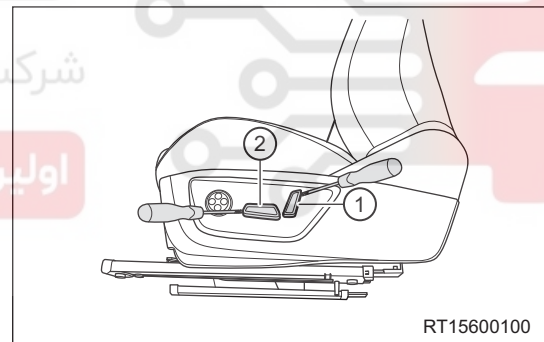
CAUTION

- Be sure to wear safety equipment to prevent accidents, when disassembling driver seat assembly.
- Appropriate force should be applied, when disassembling the driver seat assembly. Be careful not to operate roughly.

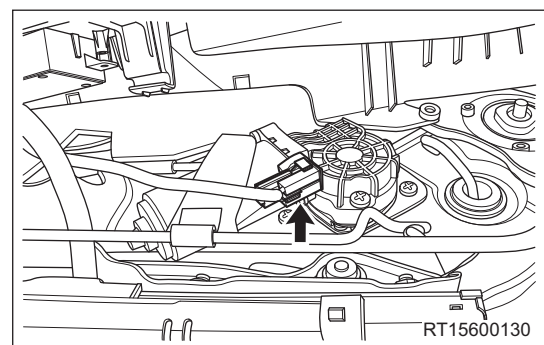
1. Remove the seat outer shield assembly.
 - a. Remove fixing screw (arrow) from seat outer shield.
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



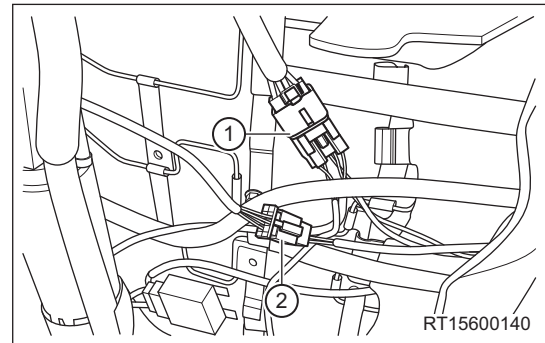
- b. Using an interior crow plate, pry off seatback adjustment switch (1) and seat front-back adjustment switch (2).



- c. Disconnect the motor connector (arrow).



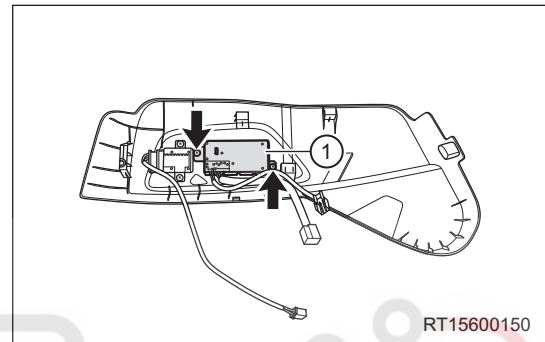
- d. Disconnect seatback adjustment switch wire harness connector (1) and lumbar support wire harness connector (2).



- e. Remove the seat outer shield assembly.

2. Remove the power seat adjustment switch.

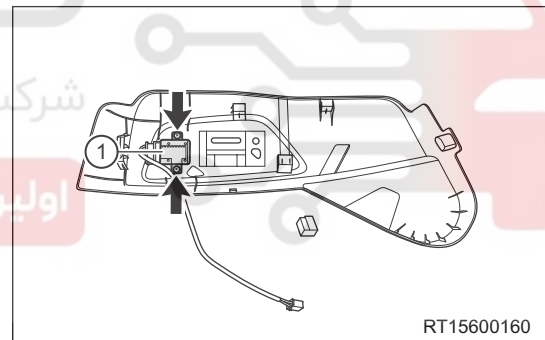
- a. Remove the seat outer shield assembly (See page 61-10).
 b. Remove 2 fixing screws (arrow) from power seat adjustment switch.
 (Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)
 c. Remove the power seat adjustment switch (1).



- d. Remove 2 fixing screws (arrow) from seat lumbar support adjustment switch.

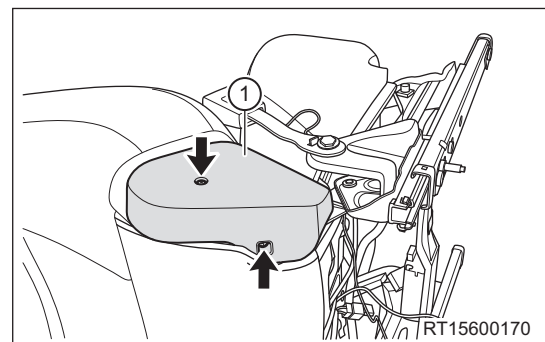
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)

- e. Remove the seat lumbar support adjustment switch (1).



3. Remove the seat inner shield assembly.

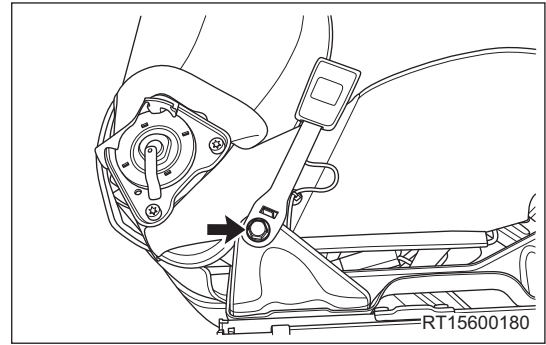
- a. Remove 2 fixing screws (arrow) from seat inner shield.
 (Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)
 b. Remove the seat inner shield assembly (1).



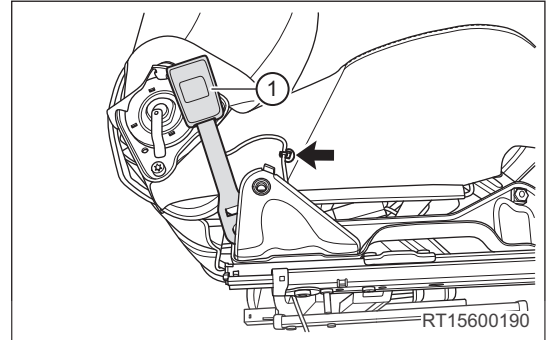
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4. Remove the driver seat belt buckle assembly.
 - a. Remove fixing bolt (arrow) from driver seat belt buckle.

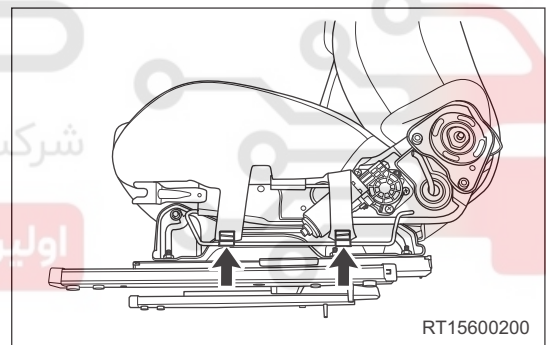
(Tightening torque: $50 \pm 5.0 \text{ N}\cdot\text{m}$)



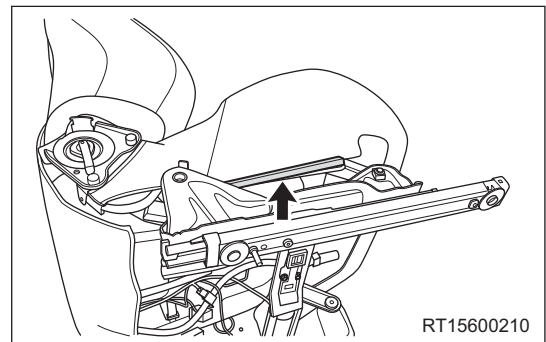
- b. Remove fixing clamp (arrow) from driver seat belt buckle.
 - c. Remove the driver seat belt buckle assembly (1).



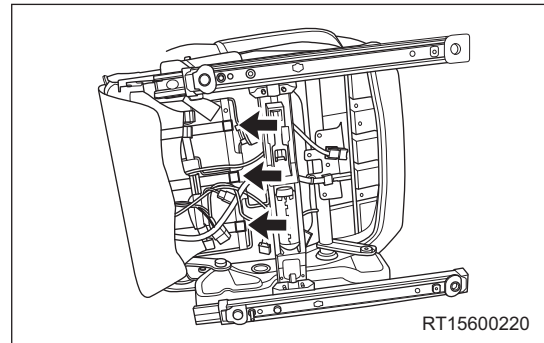
5. Remove the seat cushion assembly.
 - a. Remove fixing clamps (arrow) from left side of seat cushion.



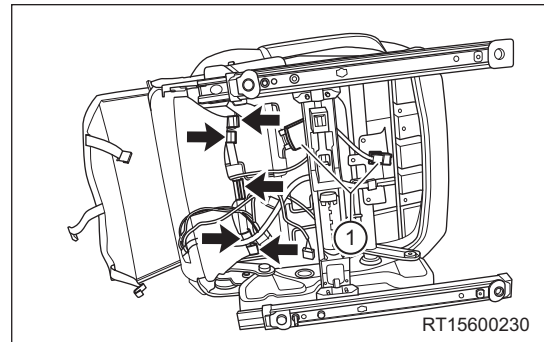
- b. Remove fixing clamps (arrow) from right side of seat cushion.



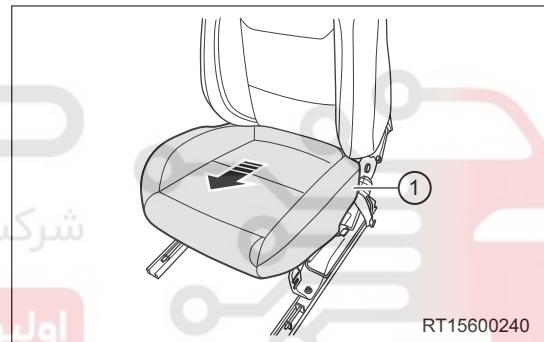
- c. Remove fixing clamps (arrow) from lower side of seatback.



- d. Remove fixing clamps (arrow) from left side of seat cushion, and remove seat occupancy sensor wire harness connectors (1).



- e. Remove seat cushion assembly (1) in direction indicated by arrow.



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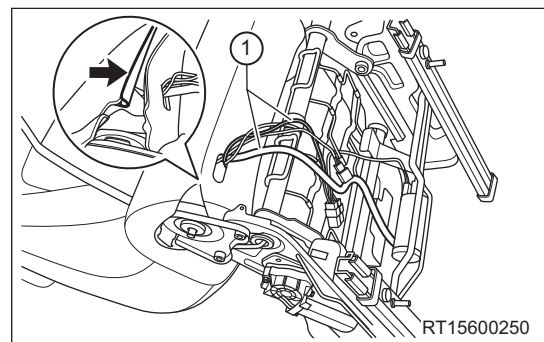
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شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

6. Check the seat heating wire.

7. Remove the power seat track assembly.

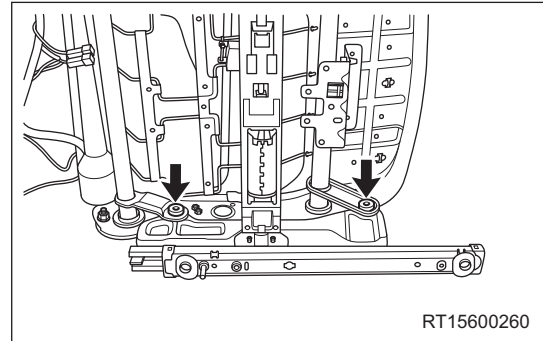
- a. Remove wire harnesses (1) from seat track, and remove fixing clamp (arrow) from lower part of seatback.



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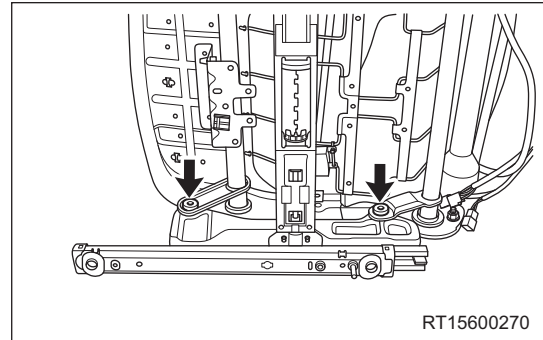
- b. Remove fixing bolts (arrow) from left side of seat track.

(Tightening torque: 25 ± 5 N·m)



- c. Remove fixing bolts (arrow) from right side of seat track.

(Tightening torque: 25 ± 5 N·m)

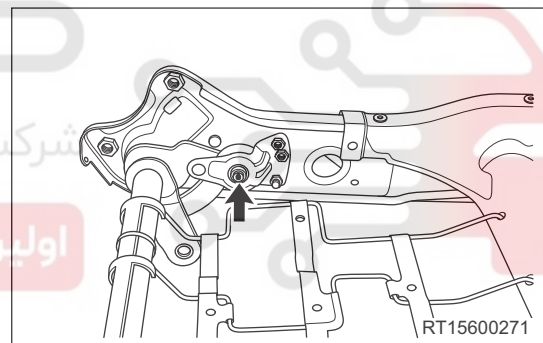


- d. Remove the power seat track assembly.

8. Remove the seat vertical motor assembly.

- a. Remove fixing bolt (arrow) from inside of seat vertical motor.

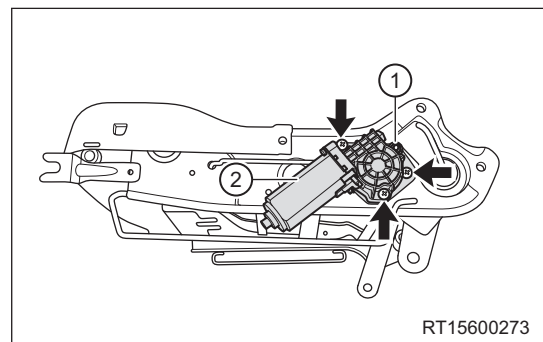
(Tightening torque: 25 ± 5 N·m)



- b. Remove 3 fixing bolts (arrow) and fixing nut (1) from outside of seat vertical motor.

(Tightening torque: 15 ± 2 N·m)

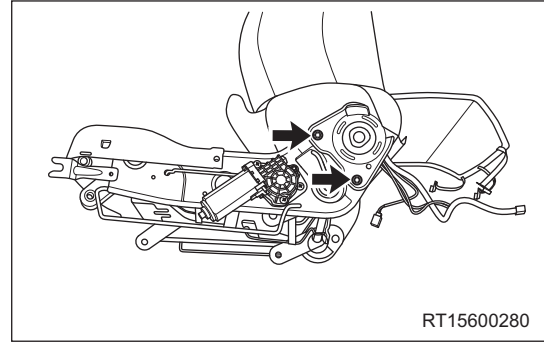
- c. Remove the seat vertical motor assembly (2).



9. Remove the seat cushion frame assembly.

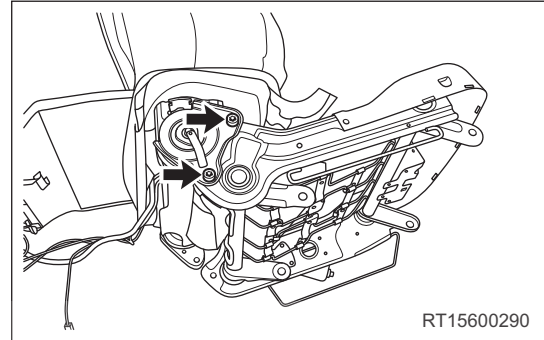
- a. Remove fixing bolts (arrow) from left side of seat cushion frame.

(Tightening torque: $25 \pm 5.0 \text{ N}\cdot\text{m}$)



- b. Remove fixing bolts (arrow) from right side of seat cushion frame.

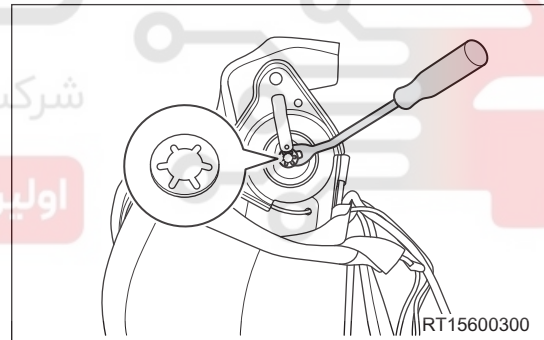
(Tightening torque: $25 \pm 5.0 \text{ N}\cdot\text{m}$)



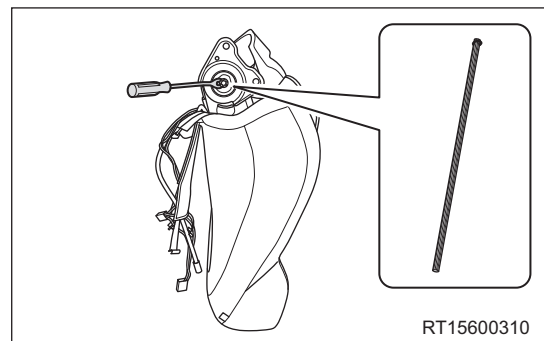
- c. Remove the seat cushion frame assembly.

10. Remove the seatback adjustment motor assembly.

- a. Remove fixing clamping piece from right side of seatback adjuster spindle.

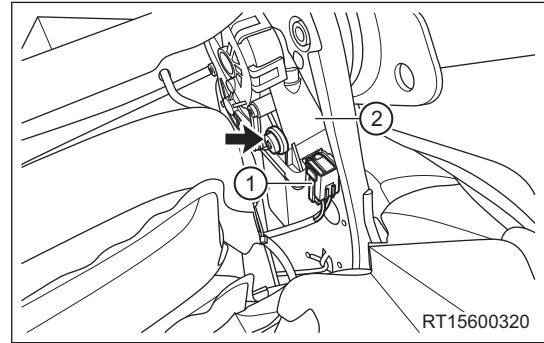


- b. Take out seatback adjustment spindle from left side of seatback.



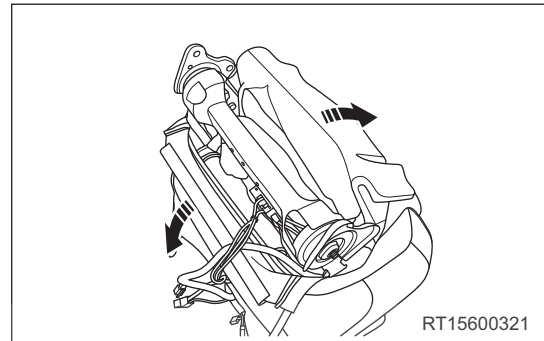
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- c. Remove fixing bolt (arrow) and wire harness connector (1) from seatback adjustment motor.
(Tightening torque: $15 \pm 2.0 \text{ N}\cdot\text{m}$)
- d. Remove the seatback adjustment motor assembly (2).



11. Remove the seat guide.

- a. Remove filling sponge from lower part of seatback, and peel back it in the direction indicated by the arrow as shown in the illustration.

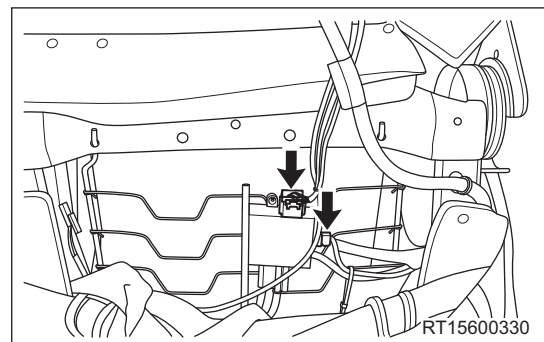


- b. Remove the seatback plastic lining plate.
- c. Press and hold lower part of seat headrest guide as shown in the illustration, and remove driver seat headrest guide.

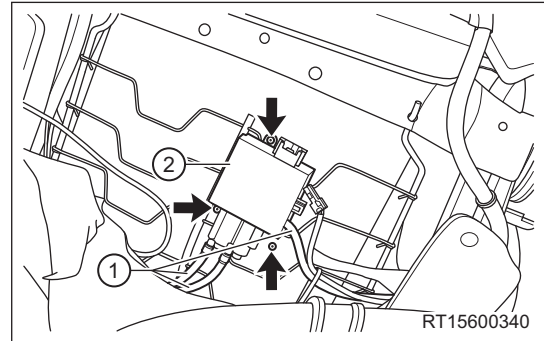


12. Remove the four-way lumbar support adjuster.

- a. Remove wire harness connectors (arrow) from four-way lumbar support assembly.

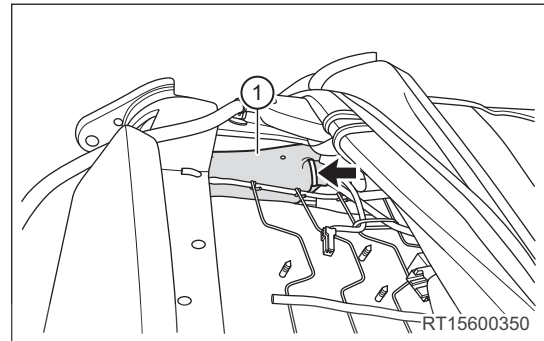


- b. Detach fixing clips (arrow) from four-way lumbar support and disconnect air duct (1) from four-way lumbar support.
- c. Remove the lumbar support assembly (2).



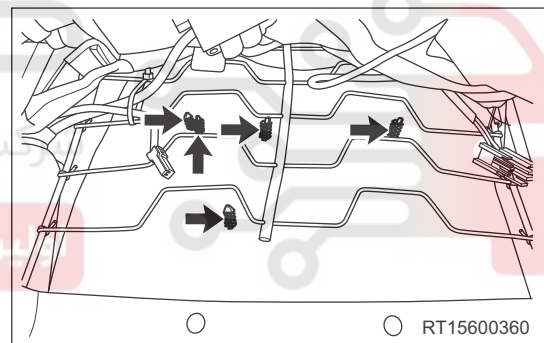
13. Remove the four-way lumbar support air pump assembly.

- a. Detach fixing band (arrow) from four-way lumbar support air pump.
- b. Remove the four-way lumbar support air pump assembly (1).

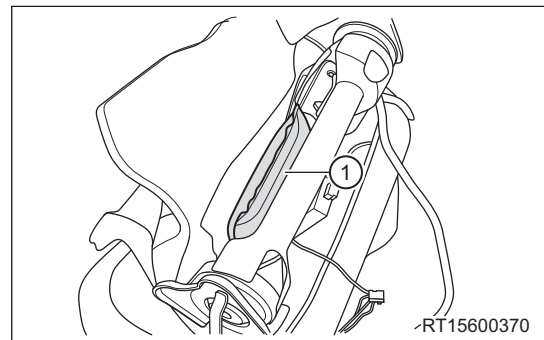


14. Remove the four-way lumbar support airbag assembly.

- a. Detach 5 fixing clips (arrow) from back side of four-way lumbar support airbag.



- b. Remove the four-way lumbar support airbag assembly (1).



Assembly

Assembly is in the reverse order of disassembly.

CAUTION

- Be sure to wear safety equipment to prevent accidents, when assembling seat.
- Be careful not to damage the seat surface, when assembling seat.
- Replace damaged clips and band, when assembling seat.
- Keep seat cover clean and tidy, and try to prevent wrinkles, when assembling seat.

Installation

Installation is in the reverse order of removal.

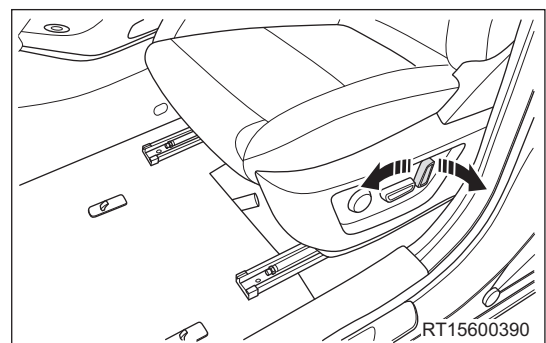
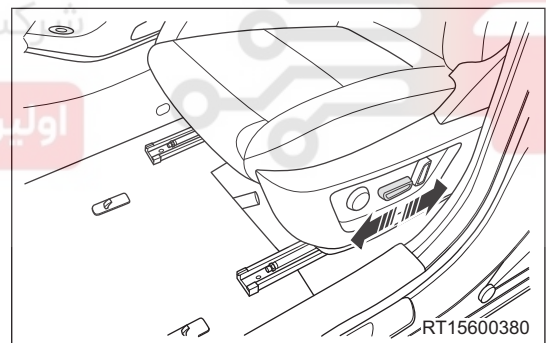
CAUTION

- Be sure to wear safety equipment to prevent accidents, when installing seat assembly.
- Be careful not to damage the body paint surface, when installing seat assembly.
- Try to prevent carpet from being scratched or damaged, when installing seat assembly.

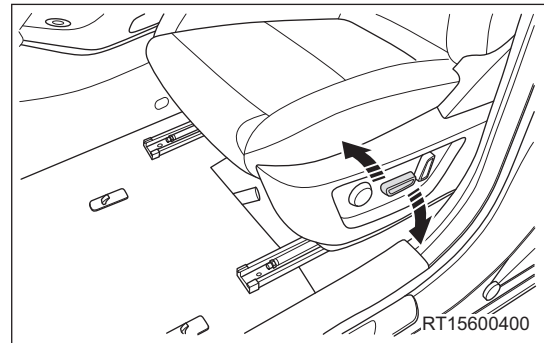
Inspection

After completing installation of seat assembly, check basic functions of seat assembly, and confirm that following functions operate normally:

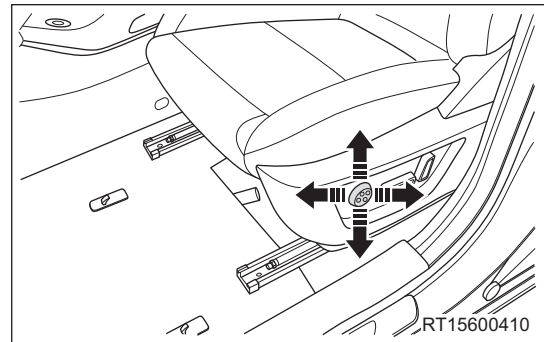
1. When sliding seat to the foremost and rearmost positions by pressing power seat adjustment switch, check if following seat malfunctions occur: heavy operation, high sliding resistance, seizure, motor noise etc. Repair or replace in time if any of these malfunctions occurs.
2. Adjust seat reclining to maximum and minimum angle by pressing power seat adjustment switch, to check if seatback is heavily turned over, stuck and motor noise, etc. Repair or replace in time if any of these malfunctions occurs.



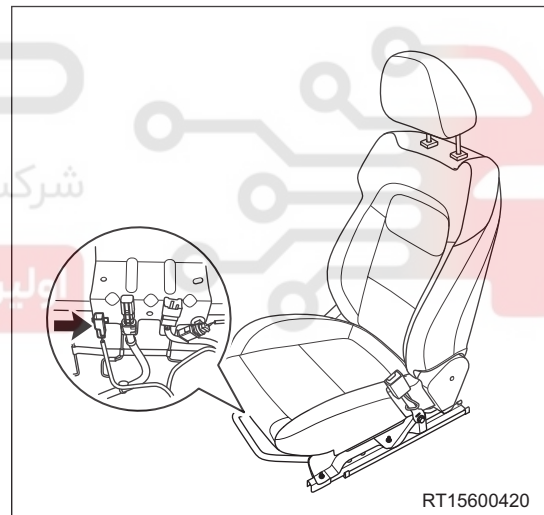
3. Adjust seat to maximum and minimum angle by pressing power seat adjustment switch (for driver side), to check if operation of seat is heavy, stuck, and motor noise etc. Repair or replace in time if any of these malfunctions occurs.



4. Adjust the upper, lower, left and right sides of four-way lumbar support adjustment switch (for driver side) to highest and lowest positions by pressing it, to check if operation of lumbar support airbag is hard to extend and retract, air leakage and air pump noise etc. Repair or replace in time if any of these malfunctions occurs.

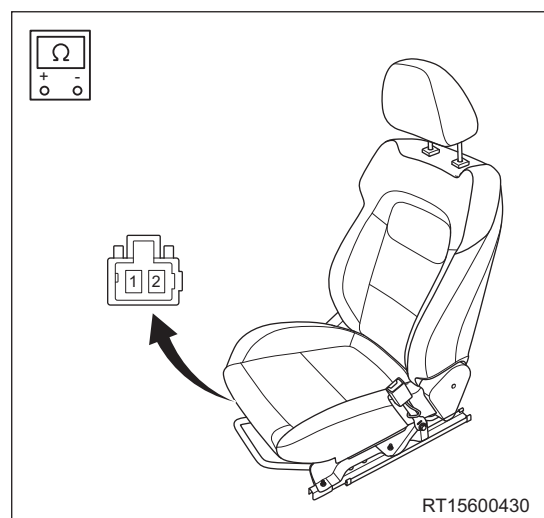


5. Inspect the seat occupancy sensor (for front passenger side).
- Disconnect the seat occupancy sensor wire harness connector (arrow).



- Measure the resistance of occupancy sensor with a digital multimeter, standard resistance is shown in the table below:

Multimeter Connection	Condition	Specified Condition
Terminal 1 and Terminal 2	Occupied	$0 \Omega < R < 100 \Omega$
Terminal 1 and Terminal 2	No occupied	$R > 10 \text{ k}\Omega$



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6. Check resistance of seat heating cushion.
 - a. Resistance of high band and low band of heating cushion are same.
 - b. Resistance range of heating cushion: 5.7Ω - 8Ω .

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Rear Seat Assembly

Removal

HINT:

- Use same procedures for rear left seat headrest and rear right seat headrest.
- Procedures listed below are for left seat headrest.

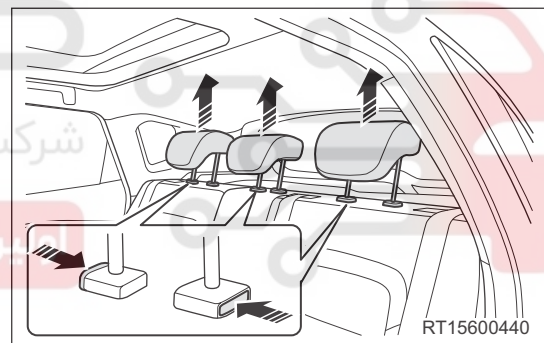
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing rear seat assembly.
- Appropriate force should be applied, when removing the rear seat assembly. Be careful not to operate roughly.
- Try to prevent interior and body paint from being scratched, when removing rear door lock assembly.

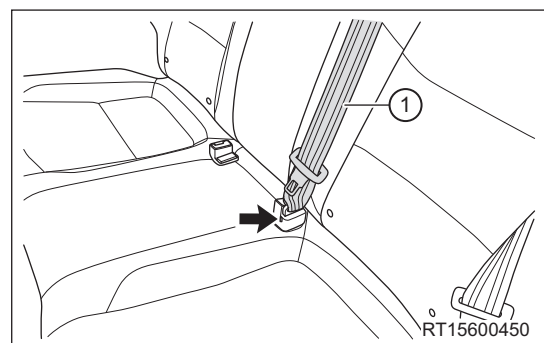
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1. Turn off all electrical equipment and turn engine switch to OFF.
2. Disconnect the negative battery cable.
3. Remove the luggage compartment carpet.
4. Remove the luggage compartment front foam.
5. Remove the rear seat headrest assembly.

- a. As shown in the illustration, press release button of seat headrest guide (w/button), and remove rear seat headrest assembly.

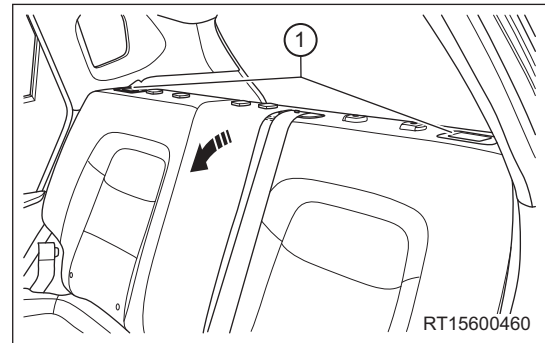


6. Remove the rear seat cushion assembly.
 - a. Using an interior crow plate, pry off center seat belt buckle switch, and loosen center seat belt (1).

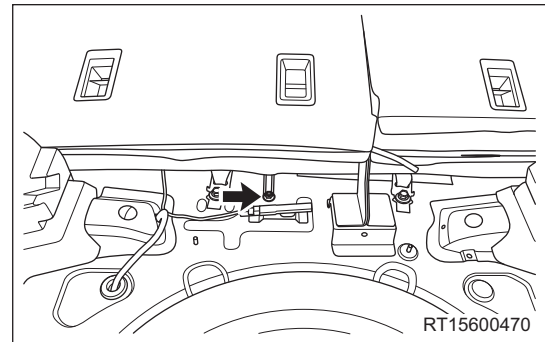


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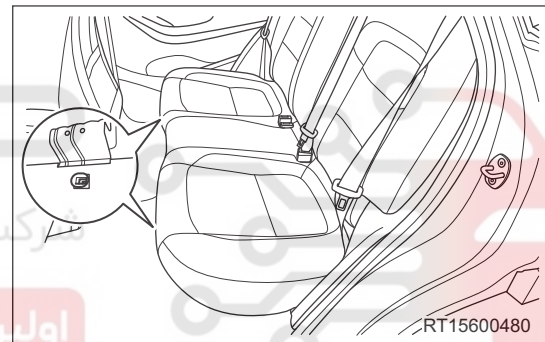
- b. Press rear seatback switches (1) and put down rear seat.



- c. Remove fixing bolt (arrow) between rear part of rear seat cushion and body.
(Tightening torque: 50 ± 5.0 N·m)



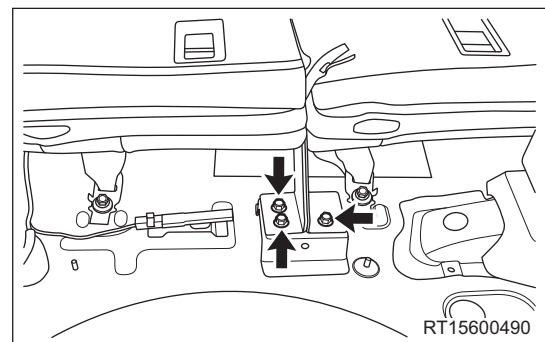
- d. Raise up one side of rear seat cushion lightly, and detach fixing clips between cushion and body.



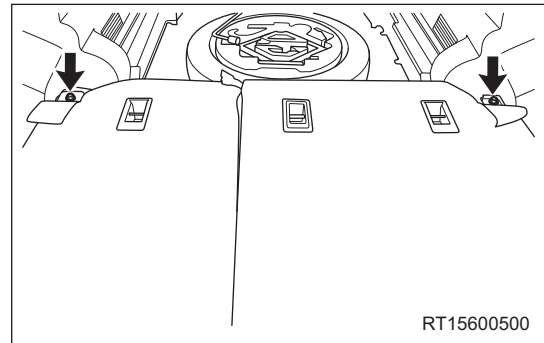
- e. Remove the rear seat cushion assembly.

7. Remove the rear seatback assembly.

- a. Remove 3 fixing bolts between rear seatback and body.
(Tightening torque: 50 ± 5.0 N·m)



- b. Remove 2 fixing bolts (arrow) between both ends of rear seat and body.
(Tightening torque: $50 \pm 5.0 \text{ N}\cdot\text{m}$)



- c. Remove the rear seatback assembly.

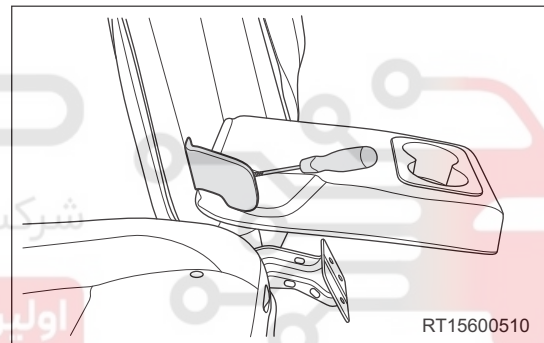
Disassembly

CAUTION

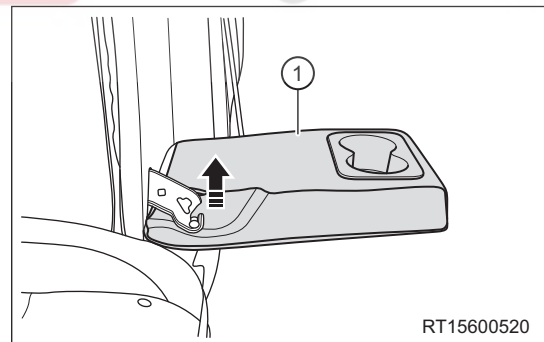
- Be sure to wear safety equipment to prevent accidents, when disassembling rear seat assembly.

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1. Remove the rear seat center armrest assembly.
a. Using a screwdriver with the tip wrapped with tape, pry up the trim cover (arrow) on center armrest.

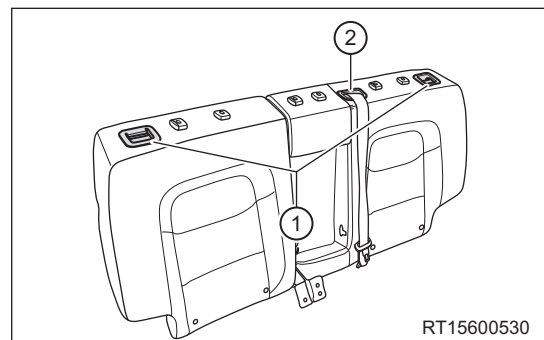


- b. Remove center armrest assembly (1) in direction of arrow as shown in illustration.



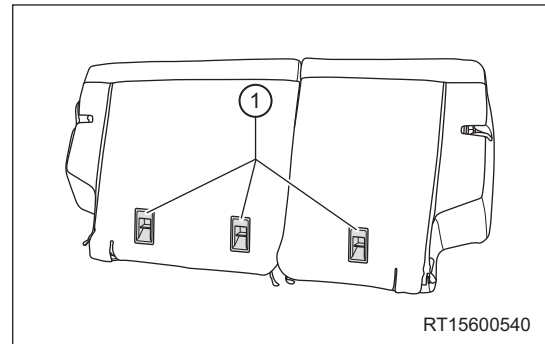
2. Remove rear seat release switch trim cover and center seat belt trim cover.

- a. Using an interior crow plate, remove rear seat release switch trim covers (1) and center seat belt trim cover (2).

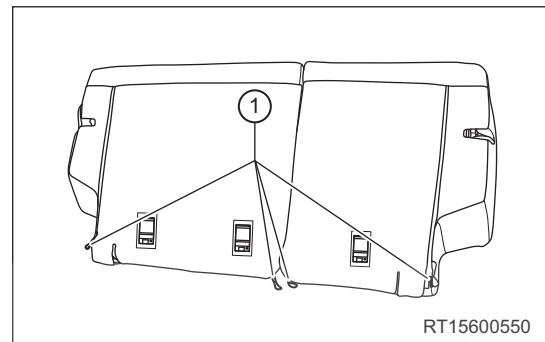


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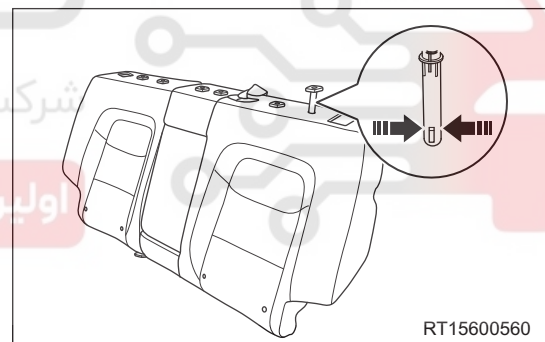
3. Remove the child seat interface trim cover.
 - a. Using an interior crow plate, remove the child seat interface trim covers (1).



4. Remove the rear seat headrest guide.
 - a. Open zippers (1) on back side of rear seatback.



- b. Remove the seatback plastic lining plate.
 - c. Press and hold lower part of seat headrest guide in the direction of arrow as shown in the illustration, and remove rear seat headrest guide.



Assembly

Assembly is in the reverse order of disassembly.

CAUTION

- Be sure to wear safety equipment to prevent accidents, when assembling rear seat assembly.
- Be careful not to damage the seat cover, when assembling rear seat assembly.
- Replace damaged clips and band, when assembling rear seat assembly.
- Keep seat cover clean and tidy, and try to prevent wrinkles, when assembling rear seat assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- Be sure to wear safety equipment to prevent accidents, when installing rear seat assembly.
- Be careful not to damage the body paint surface, when installing rear seat assembly.
- Try to prevent carpet from being scratched or damaged, when installing rear seat assembly.

Inspection

After installing rear seat assembly, check basic functions of rear seat assembly, and confirm that following functions operate normally:

1. Press rear seatback switches to pull down seatback, to check if operation of seat is hard, seatback not installed in position etc. Repair or replace in time if any of these malfunctions occurs.
2. Check if rear seat cushion is loose. If above conditions occur, replace cushion clips in time.
3. Check removal and installation of rear seat headrest for stuck, noise etc. Repair or replace in time if any of these malfunctions occurs.

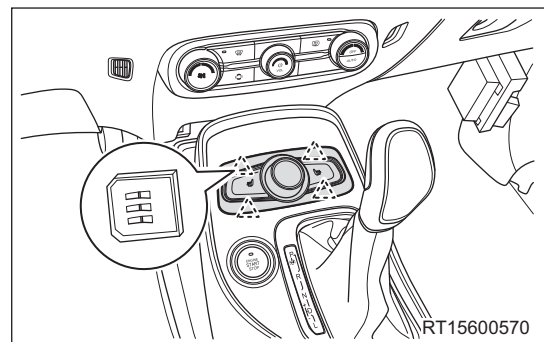
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Disassembly

CAUTION

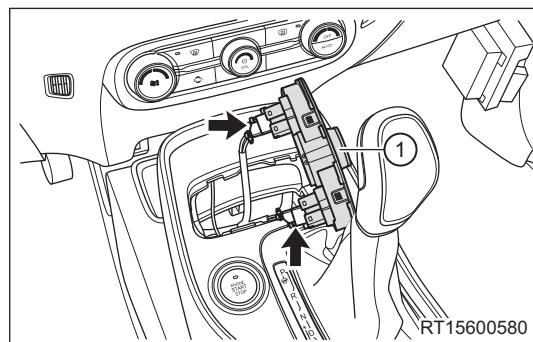
- Be sure to wear safety equipment to prevent accidents, when disassembling seat heating switch assembly.
- Be careful not to damage instrument panel, when removing seat heating switch assembly.

1. Turn off all electrical equipment and turn engine switch to OFF.
2. Disconnect the negative battery cable.
3. Remove the seat heating switch.
 - a. Using an interior crow plate, pry out fixing clamps on seat heating switch assembly panel.



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- b. Disconnect wire harness connectors (arrow) from seat heating switch.
- c. Remove the seat heating switch assembly (1).

**Installation**

Installation is in the reverse order of removal.

CAUTION**61**

- Check if seat heating function is normal after installing seat heating switch.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

