

SEAT

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



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SEAT

Warning and Precautions

Precautions

Precautions for Seat Assembly

1. The whole set of seat fabric has no obvious wrinkles and wear caused by installation;
2. It is not necessary to remove the plastic protective film provided by the seat during the assembly process so as to protect the seat;
3. Assembly methods of driver seat and front passenger seat are the same, and there is no difference in the assembly methods of all configured seats. It should be noted that the wire harness installation methods are different in each configuration.

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System Overview

System Components Diagram

Driver Seat Assembly

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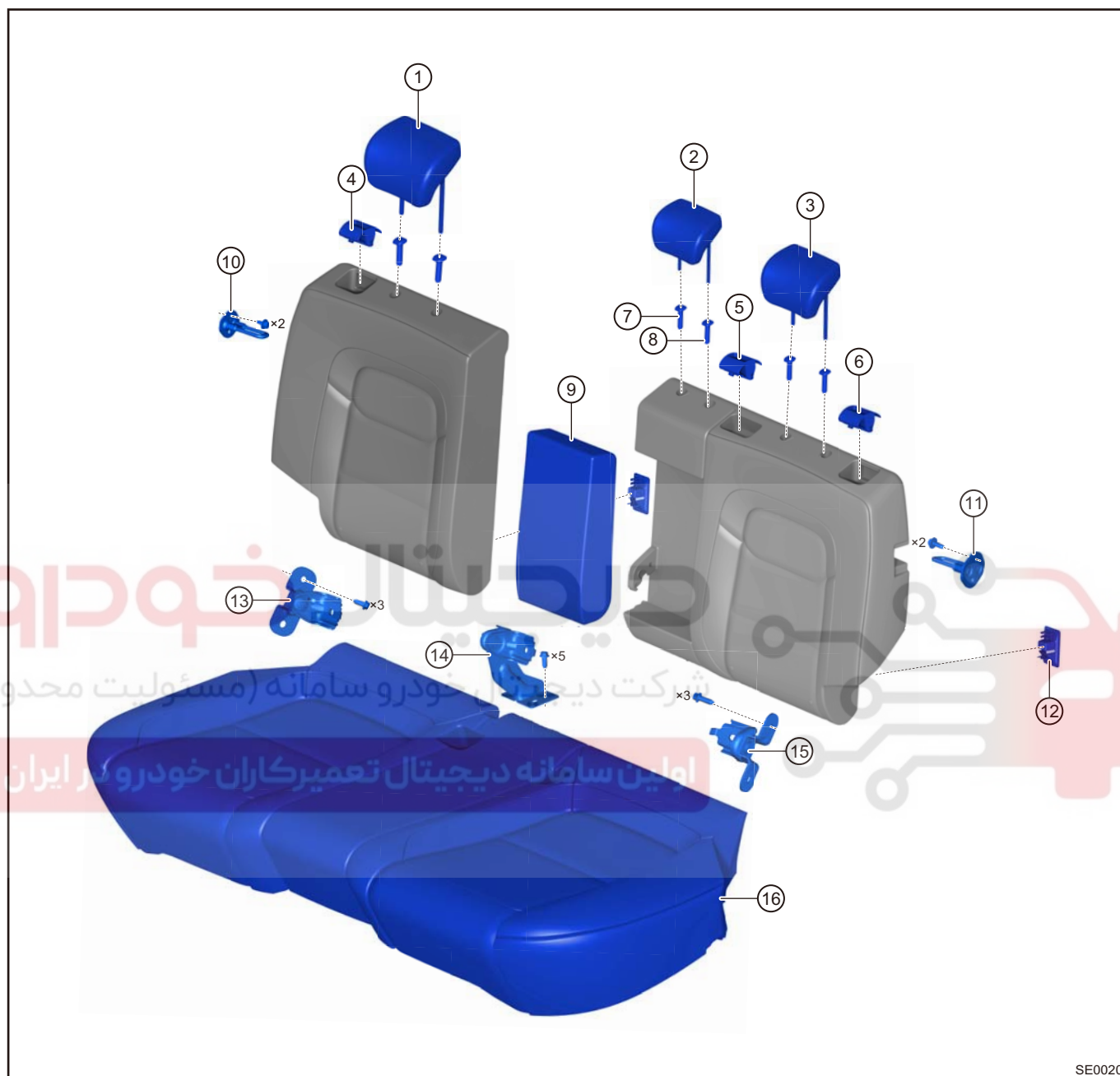


SE0010

1	Driver Seat Assembly Headrest Assembly	8	Driver Seat Assembly Adjustment Switch
2	Driver Seat Assembly Right Headrest Guide (w/ Button)	9	Driver Seat Assembly Outside Adjustment Shield
3	Driver Seat Assembly Left Headrest Guide (w/ Button)	10	Driver Seat Assembly Lumbar Support Adjustment Switch
4	Driver Seat Assembly Seatback Assembly	11	Driver Seat Assembly Seatback Adjustment Switch
5	Driver Seat Assembly Seat Belt Front Left Buckle Assembly	12	Driver Seat Assembly Front-back Adjustment Switch
6	Driver Seat Assembly Inside Shield	13	Driver Seat Assembly Track Assembly

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Driver Seat Assembly Cushion Assembly

Rear Seat Assembly

SE0020

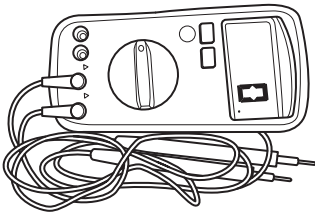
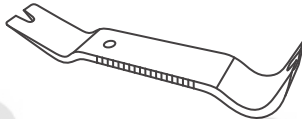
1	Rear Right Seat Headrest Assembly	9	Center Armrest Assembly
2	Rear Center Seat Headrest Assembly	10	Rear Seatback Right Hook Assembly
3	Rear Left Seat Headrest Assembly	11	Rear Seatback Left Hook Assembly
4	Rear Right Seatback Unlock Mechanism Assembly	12	Child Seat Upper Fixture Plastic Part Assembly
5	Rear Seat Center Guide Ring Plastic Part Assembly	13	Child Seat Upper Fixture Plastic Part Assembly
6	Rear Left Seatback Unlock Mechanism Assembly	14	Rear Seatback Center Connecting Bracket Assembly
7	Rear Seat Right Headrest Guide (w/ Button)	15	Rear Seatback Left Connecting Bracket Assembly
8	Rear Seat Left Headrest Guide (w/ Button)	16	Rear Seat Cushion Assembly

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

Rear seat cannot be moved forward and backward, however, the rear seatback can be folded by pulling seatback unlock mechanism assembly until it is flattened, to help increase the storage space of luggage compartment.

Special Tools and Equipment

General Tools

Tool Name	Tool Drawing
Digital Multimeter	 <p>S00002</p>
Interior Crow Plate	 <p>S00020</p>

Tightening Torque List

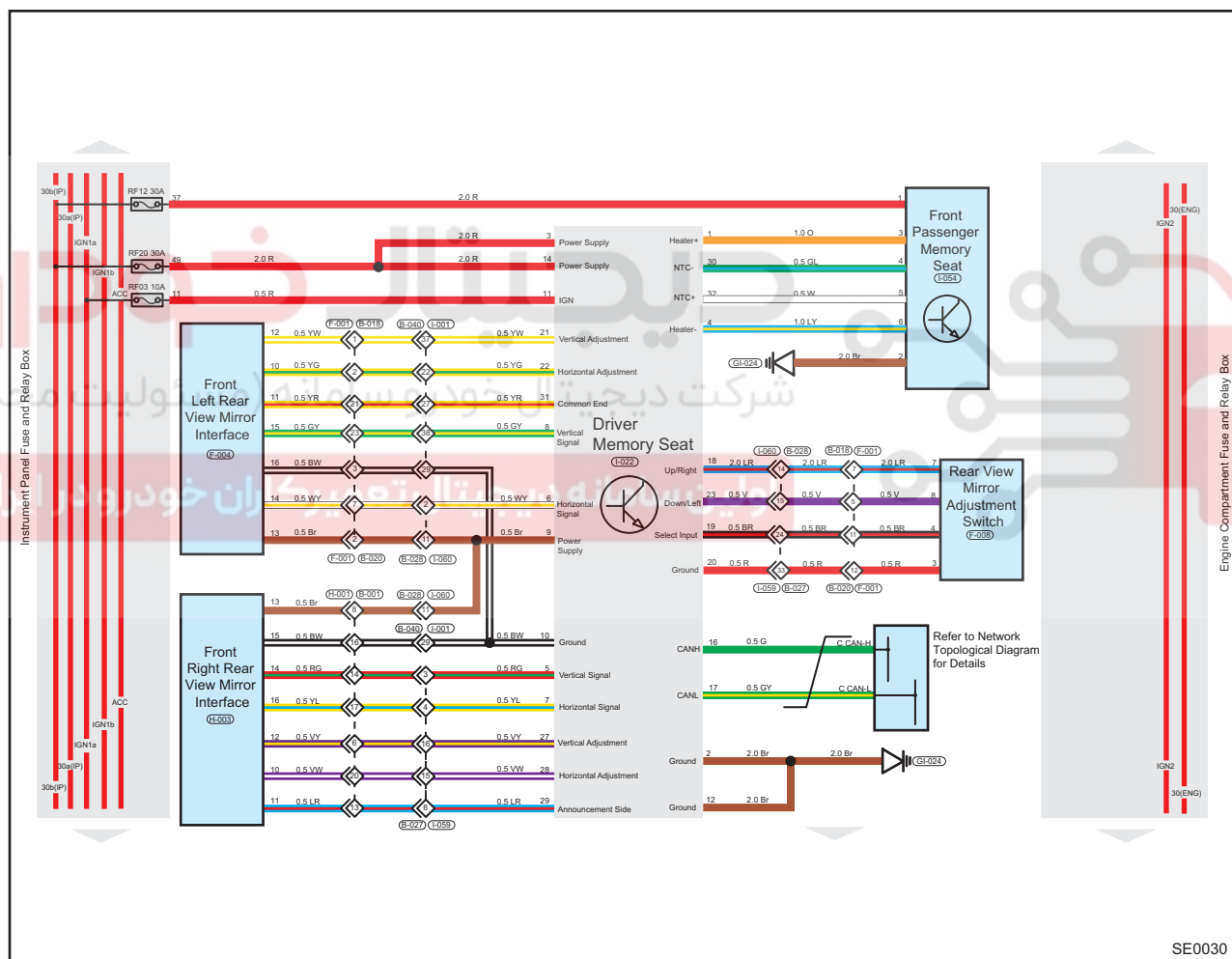
Torque Specifications

Item	Tightening torque
Front Seat Assembly Fixing Bolt	50 ± 5 N·m
Rear Seatback Hook Assembly Fixing Bolt	25 ± 4 N·m
Rear Seatback Center Connecting Bracket Assembly	50 ± 5 N·m
Rear Seatback Connecting Bracket Fixing Bolt	50 ± 5 N·m
Rear Left Seat Belt Fixing Bolt	50 ± 5 N·m
Rear Seat Cushion Mounting Bolt	25 ± 4 N·m

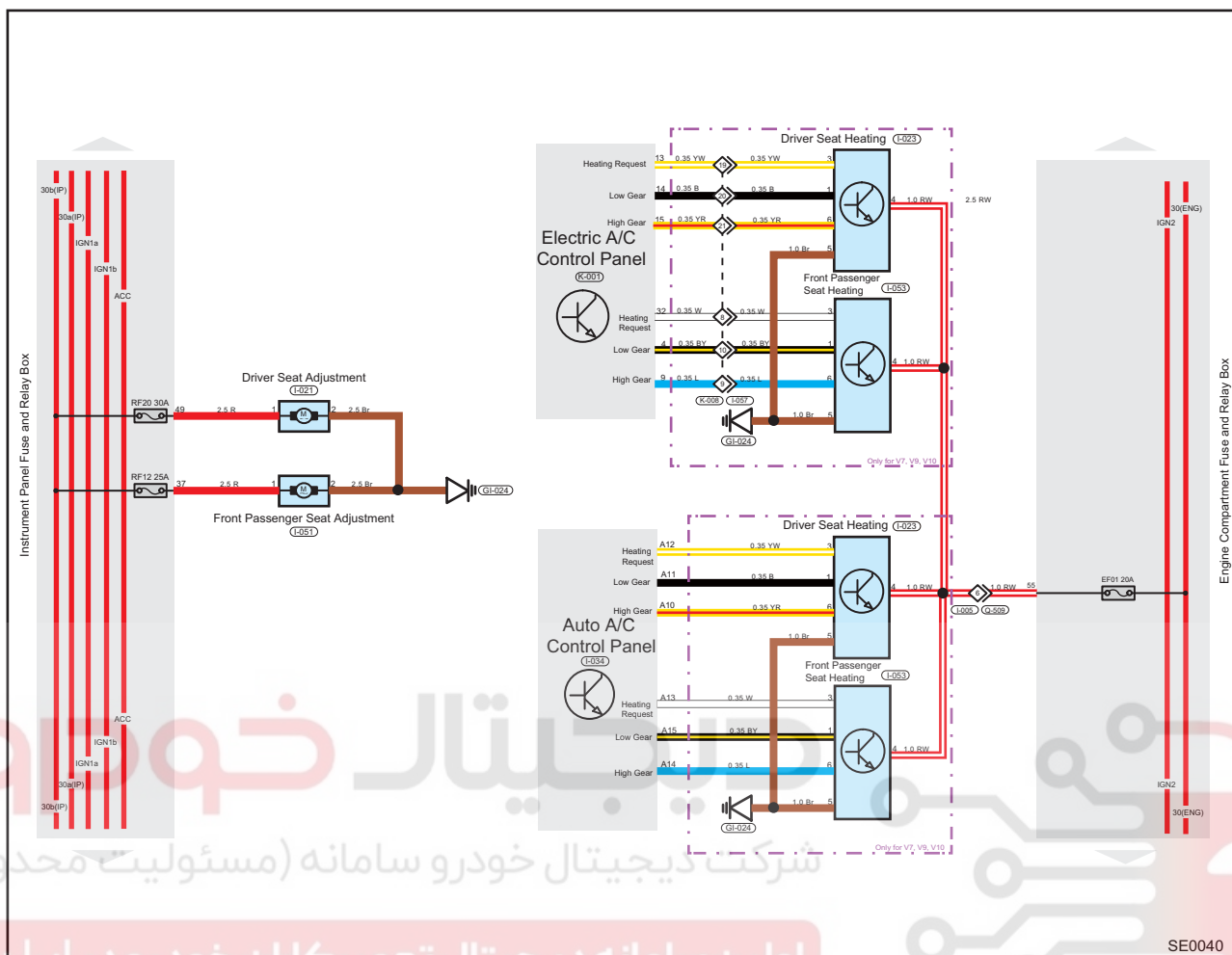
System Circuit Diagram

Seat Circuit Diagram

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Diagnostic Information and Steps

Problem Symptoms Table

Hint:

Use symptoms table below to help determine cause of problem. Check each suspected area in sequence. Repair, replace or adjust faulty components as necessary.

Seats:

Symptom	Suspected Area
Seat positions cannot be memorized and portable functions are disabled	Manual learning seat position
	Seat module assembly
	Wire harness connector
Seat position cannot be adjusted	Fuse
	Wire harness or connector
	Switch
	Actuator motor

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Seat Function Inspection

Seat Adjustment Data

Front seat

The whole stroke for forward and backward adjustment is 240 mm. From designed position, the seat is adjustable from 200 mm forward and 40 mm backward; The designed seatback angle is 25° and it is adjustable within 30° forward and 52° backward; (Only for driver) The whole stroke for height adjustment is 60 mm. From designed position, the seat is adjustable from 40 mm upward and 20 mm downward.

Rear seat

The designed seatback angle is 25° and it is adjustable 101° forward.

Hint:

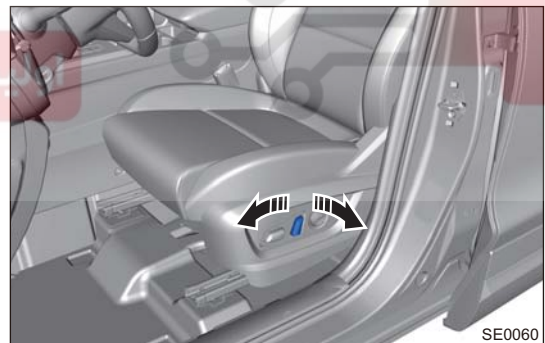
When measuring the seat depth, you should adjust the seatback forward and backward until it reaches to the designed position.

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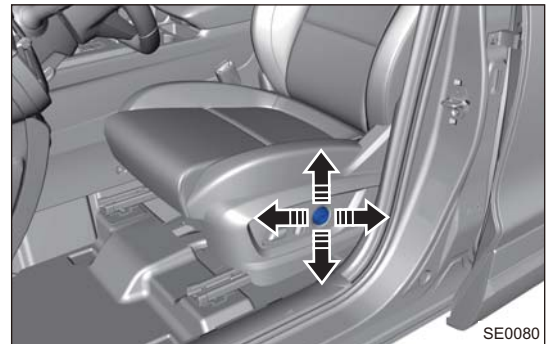
Inspection

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

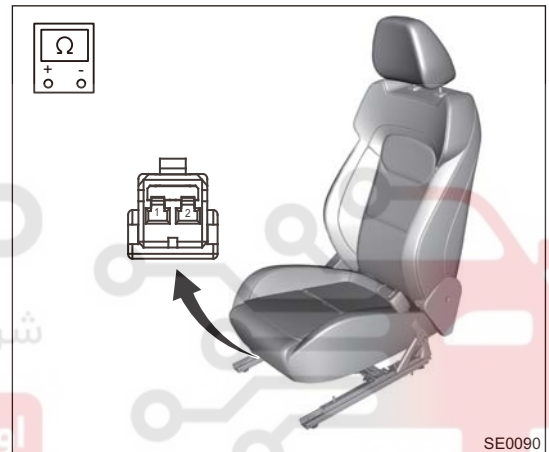
1. When sliding seat to the foremost and rearmost positions by pushing the power seat adjustment switch, check if the following malfunctions of seat occur: heavy operation, high sliding resistance, stuck, motor noise. If above conditions occur, repair or replace in time.
2. Adjust the seat reclining to the maximum and minimum angles by pushing the power seat adjustment switch, to check if seatback is heavily turned over and stuck, motor noise, etc. If above conditions occur, repair or replace in time.
3. Adjust seat to the highest position and the lowest position by pushing power seat height adjustment switch (for driver side), to check if the operation of seat is heavy and stuck, and motor noise, etc. If above conditions occur, repair or replace in time.



4. Press 4-way lumbar support adjustment switch (for driver side) to adjust seat to the limit positions of up, down, left and right to check if lumbar support stretches or retracts difficultly, air pocket is leaked and there is abnormal sound in air pump, etc. If above conditions occur, repair or replace in time.



5. Turn power switch to ON, seat belt reminder warning light on instrument cluster should be illuminated, after inserting the front seat belt tab into front seat belt buckle, seat belt reminder warning light should go off (only for seat with Seat Belt Unfasten Reminder (SBR)).
6. For front passenger seat with SBR, when a passenger is detected in front passenger seat but the seat belt is not fastened, warning light on instrument cluster should be illuminated, after inserting the seat belt tab into seat belt buckle, seat belt reminder warning light should go off.
7. Check the seat occupancy sensor (for front passenger side).
8. 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	< 100 Ω
Terminal 1 and Terminal 2	No occupied	> 400 Ω

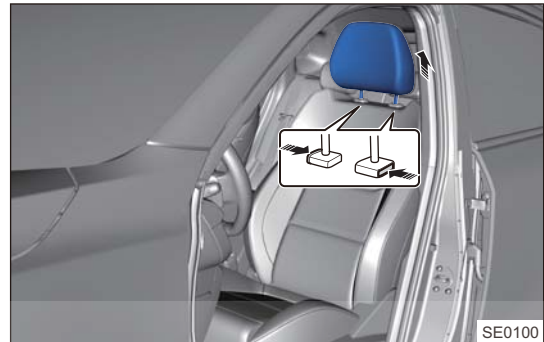
Removal & Installation

Front Seat Assembly

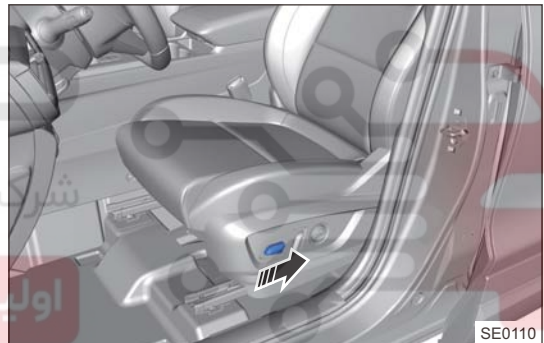
Removal

Warning:

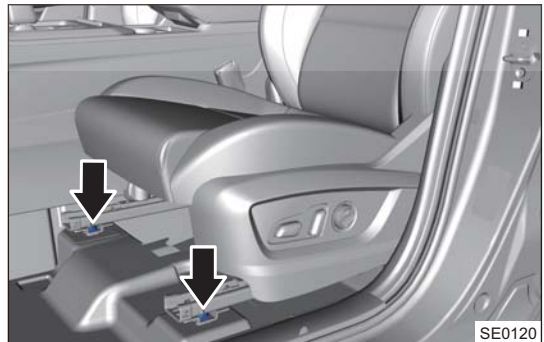
- When removing driver seat assembly, be sure to wear safety equipment to prevent accidents.
 - When removing driver seat assembly, appropriate force should be applied. Be careful not to operate roughly.
 - DO NOT scratch interior and body paint when removing driver seat assembly.
1. Turn off all electrical equipment and ENGINE START STOP switch.
 2. When the seatback is adjusted to a higher angle backward, press the release button of seat headrest guide at the same time, and remove driver seat headrest assembly.



3. Push power seat front-back adjustment switch, and move seat assembly to rearmost position.



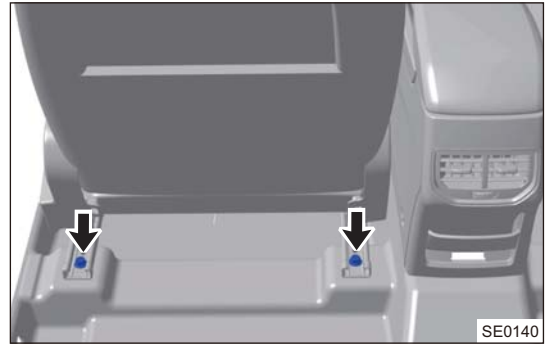
4. Remove 2 fixing bolts from front side of seat assembly.
Torque: 50 ± 5 N·m



5. Push power seat front-back adjustment switch, and move seat assembly to foremost position.



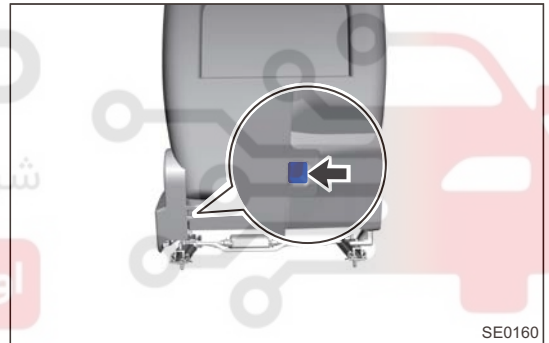
6. Remove 2 fixing bolts from rear side of seat assembly.
Torque: 50 ± 5 N·m



7. Disconnect the negative battery cable.
8. Disconnect the connector wire harness associated with driver seat assembly, and remove the driver seat assembly.



9. Remove 1 fixing screw from seat outside shield.



10. After loosening fixing clip on driver seat assembly outside shield, disconnect connector from outside shield and remove driver seat assembly outside shield.
11. Remove 2 fixing screws from driver seat assembly inside shield.



12. Remove the driver seat assembly inside shield.

Installation

1. Installation is in the reverse order of removal.

Caution:

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

Rear Seat Assembly

Removal

1. Remove the luggage compartment carpet assembly.

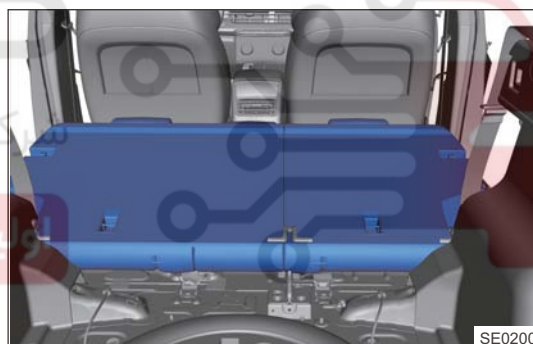


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2. Remove the tool box.

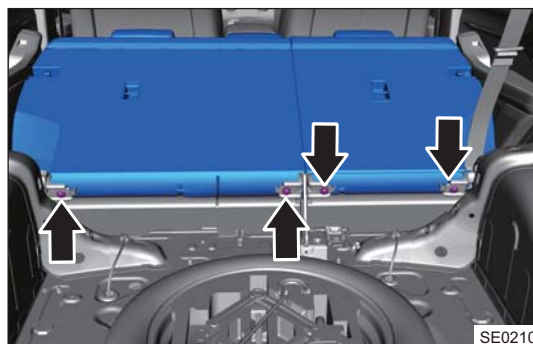


3. Fold down the seatback and put it flat on the seat cushion.



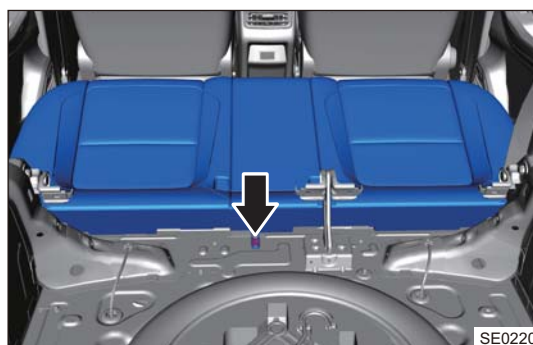
4. Remove 4 connecting bolts between seatback and rotation bracket, and remove the seatback.

Torque: 50 ± 5 N·m

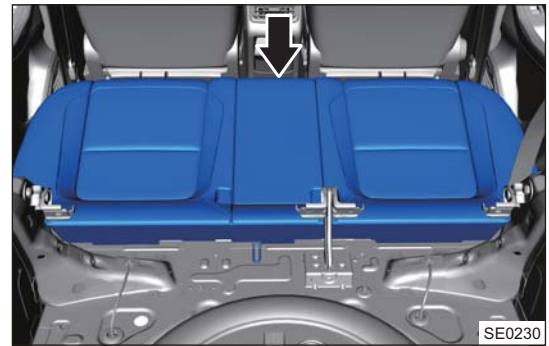


5. Remove 1 bolt from fixing hook behind seat cushion.

Torque: 25 ± 4 N·m

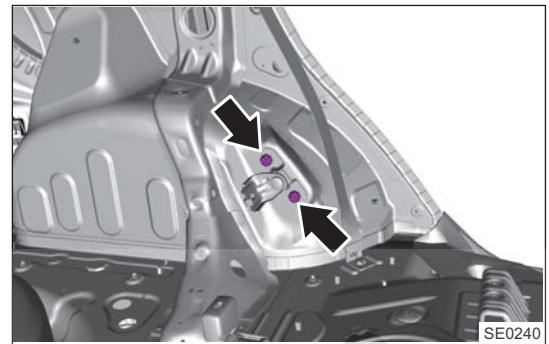


6. Lift the seat cushion to make two steel wire hooks under seat cushion disengaged from fixing base opening, and remove seat cushion assembly.



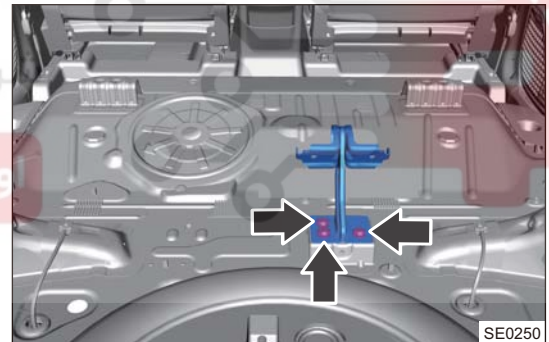
7. Remove the left C-pillar lower protector assembly (See page 62-19).
8. Remove the right C-pillar lower protector assembly (See page 62-19).
9. Remove 2 fixing bolts from rear left seatback assembly rotation bracket and remove left rotation bracket assembly.

Torque: $50 \pm 5 \text{ N}\cdot\text{m}$



10. Remove 2 fixing bolts from rear right seatback assembly rotation bracket and remove right rotation bracket assembly.
11. Remove 3 fixing bolts and seatback center connecting bracket assembly.

Torque: $50 \pm 5 \text{ N}\cdot\text{m}$



Installation

1. Installation is in the reverse order of removal.

Caution:

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- 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.

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