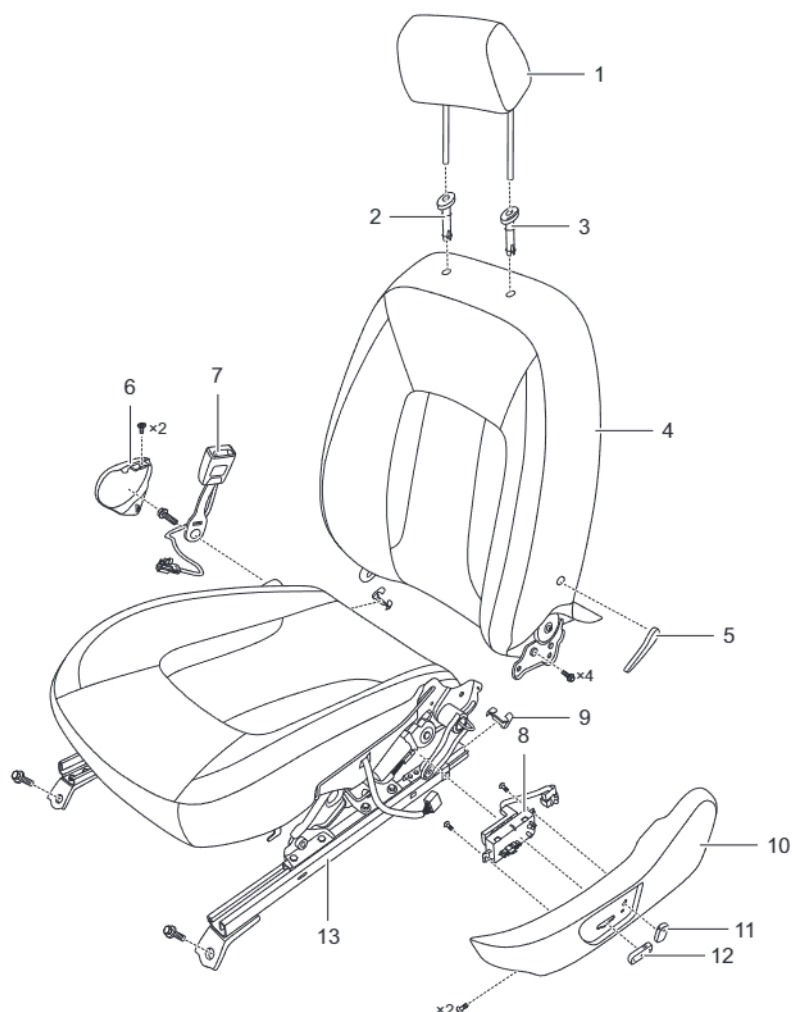

SEAT

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Installation	47-15		
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GENERAL INFORMATION

Description

Driver Seat Assembly

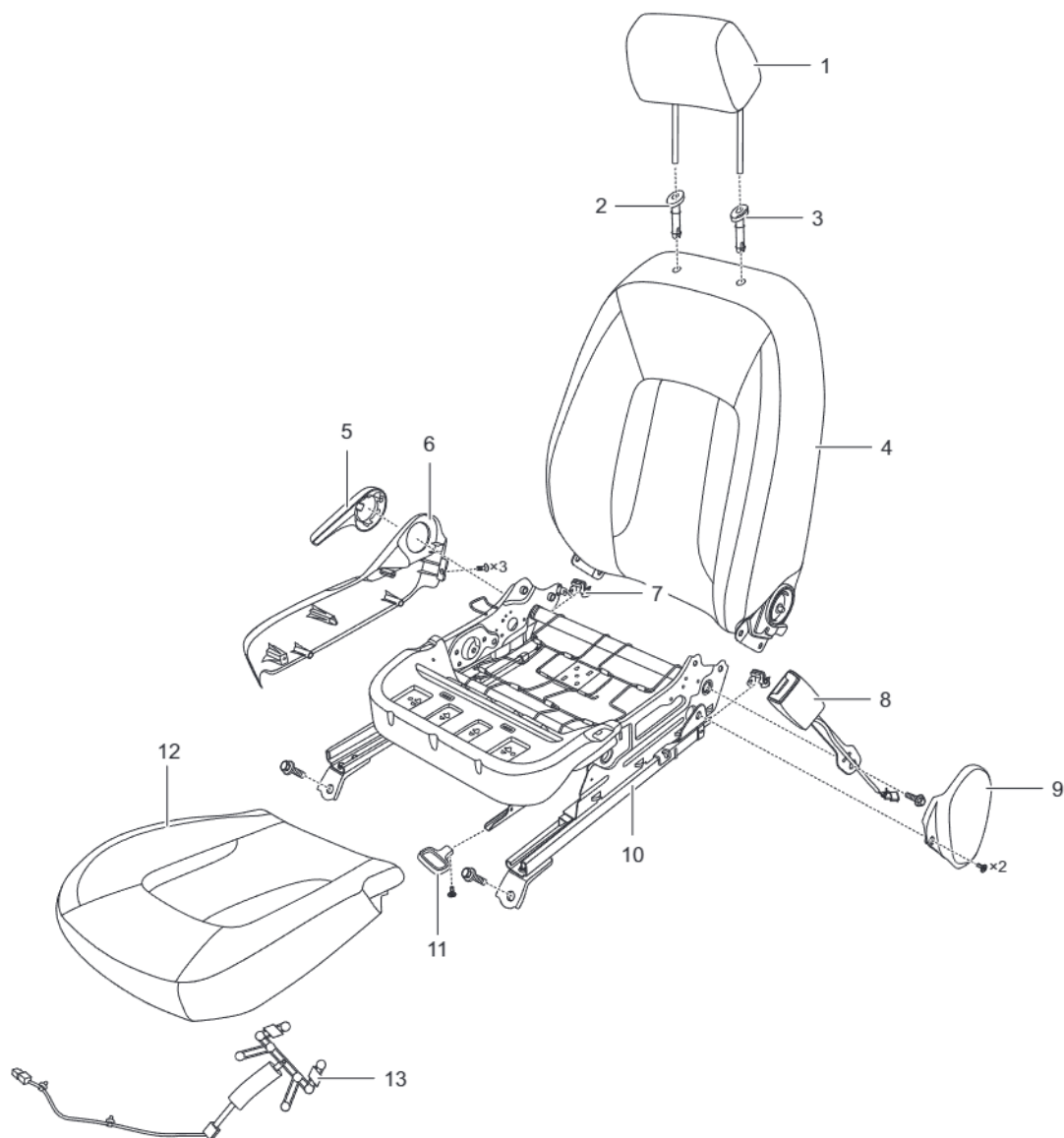


RM16470001

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1 - Driver Seat Headrest Assembly	2 - Driver Seat Headrest Guide (w/o Button)
3 - Driver Seat Headrest Guide (w/ Button)	4 - Driver Seatback Sub-assembly
5 - Driver Seat Lumbar Support Handle	6 - Driver Seat Inner Shield Assembly
7 - Driver Seat Belt Buckle	8 - Driver Seat Power Switch Box
9 - Driver Seat Track Cover	10 - Driver Seat Outer Shield Assembly
11 - Driver Seat Reclining Power Button	12 - Driver Seat Track Adjusting Power Button
13 - Driver Seat Track Assembly	

Front Passenger Seat Assembly

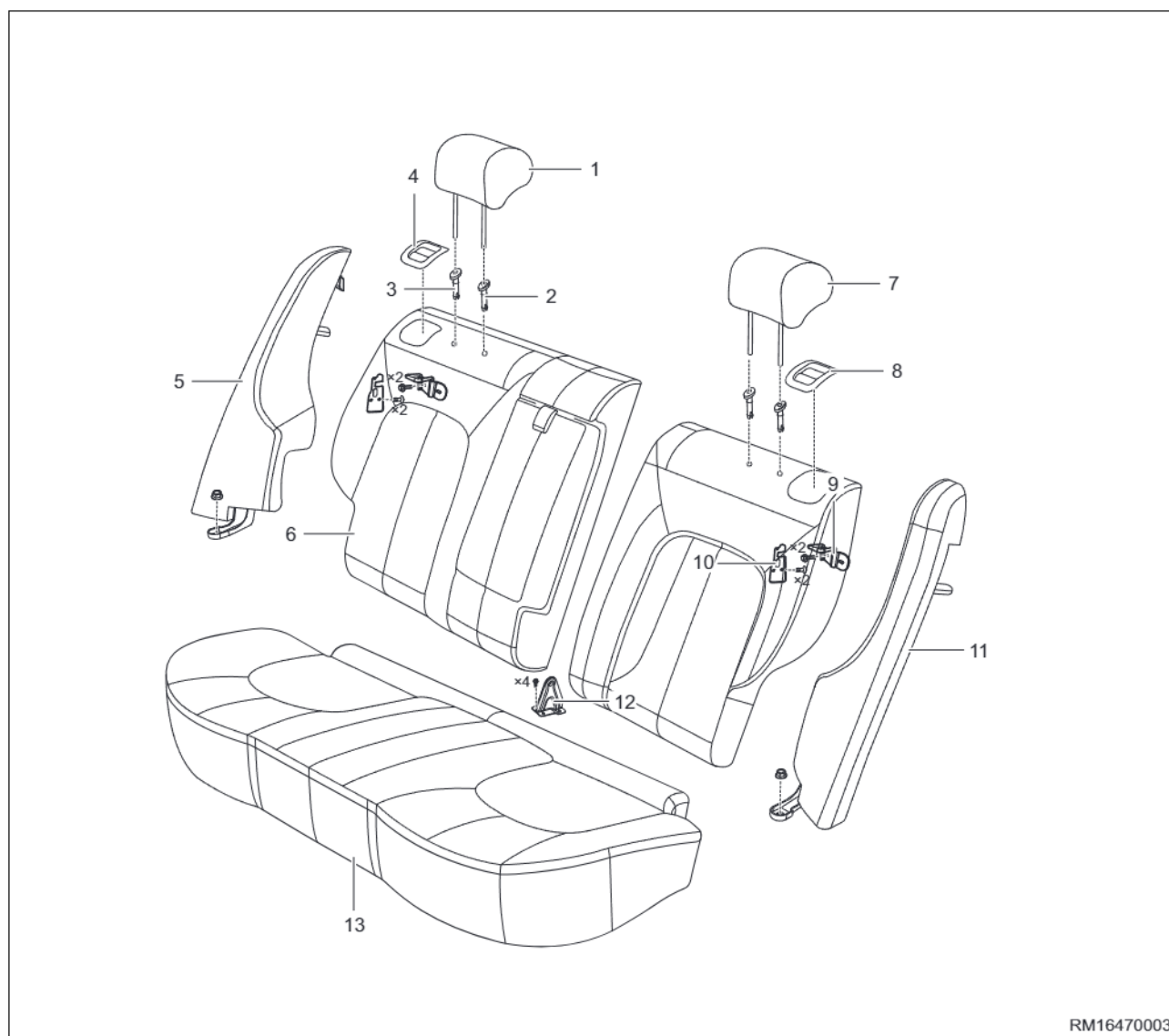


RM16470002

47

1 - Front Passenger Seat Headrest Assembly	2 - Front Passenger Seat Headrest Guide (w/o Button)
3 - Front Passenger Seat Headrest Guide (w/ Button)	4 - Front Passenger Seatback Sub-assembly
5 - Front Passenger Seat Reclining Adjuster Handle	6 - Front Passenger Seat Outer Shield Assembly
7 - Front Passenger Seat Track End Cover	8 - Front Passenger Seat Belt Buckle
9 - Front Passenger Seat Inner Shield Assembly	10 - Front Passenger Seat Track Assembly
11 - Front Passenger Seat Track Unlock Handle	12 - Front Passenger Seat Cushion Sub-assembly
13 - Front Passenger Seat Belt Reminder	

Rear Seat Assembly



RM16470003

1 - Rear Right Seat Headrest Assembly	2 - Rear Seat Headrest Guide (w/ Button)
3 - Rear Seat Headrest Guide (w/o Button)	4 - Rear Right Seat Handle Release Cover
5 - Rear Right Seat Protector Assembly	6 - Rear Right Seatback Assembly
7 - Rear Left Seat Headrest Assembly	8 - Rear Left Seat Handle Release Cover
9 - Rear Left Seatback Hook	10 - Rear Left Seatback Lock Bracket Cover
11 - Rear Left Seat Protector Assembly	12 - Rear Seatback Center Connecting Bracket Assembly
13 - Rear Seat Cushion Assembly	

47

Driver seat assembly (power seat) can be moved forward, backward, upward and downward by track adjusting button, and seat reclining can be adjusted by reclining power button.

Front passenger seat assembly (manual seat) can be moved forward and backward by seat track unlock handle, and seat reclining can be adjusted by seat reclining adjuster handle.

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



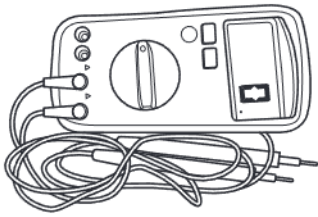
Specifications

Torque Specifications

Description	Torque (N·m)
Front Seat Assembly Fixing Bolt	25 ± 3
Seat Track Unlock Handle Fixing Screw	3.5 ± 0.35
Seat Outer Shield Assembly Fixing Screw	3.5 ± 0.35
Seat Belt Buckle Assembly Fixing Bolt	50 ± 5
Seat Inner Shield Assembly Fixing Screw	3.5 ± 0.35
Rear Seatback Lock Bracket Cover Fixing Screw	3.5 ± 0.35
Rear Seat Center Connecting Bracket Assembly Fixing Bolt	25 ± 3
Power Switch Box Fixing Screw	3.5 ± 0.35
Coupling Bolt Between Seatback Sub-assembly and Seat Cushion Sub-assembly	48 ± 4.8
Rear Seat Protector Assembly Fixing Nut	3.5 ± 0.35

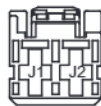
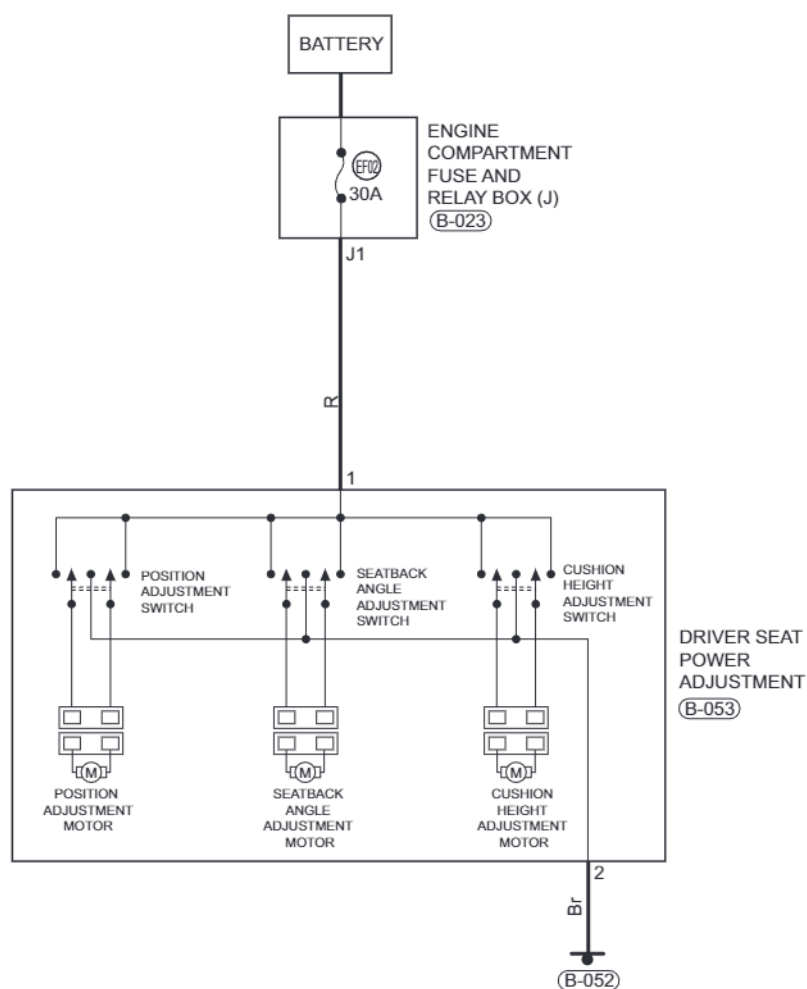
Tool

General Tool

Digital Multimeter	 RCH0000002
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Circuit Diagram

Seat System



(B-023)
Y



(B-053)
Lg

DIAGNOSIS & TESTING

Problem Symptoms Table

HINT:

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

Symptom	Suspected Area	See page
Only slide operation function does not operate	Power seat switch	47-11
	Slide motor	47-9
	Wire harness and connector	-
Only lifter operation function does not operate	Power seat switch	47-11
	Lifter motor	47-9
	Wire harness and connector	-
Only reclining function does not operate	Power seat switch	47-11
	Reclining motor	47-9
	Wire harness and connector	-
All functions do not operate	Seat fuse	53-37
	Power seat switch	47-11
	Wire harness and connector	-

ON-VEHICLE SERVICE

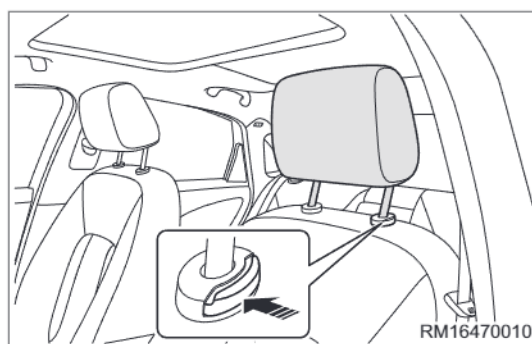
Driver Seat Assembly (Power Seat)

Removal

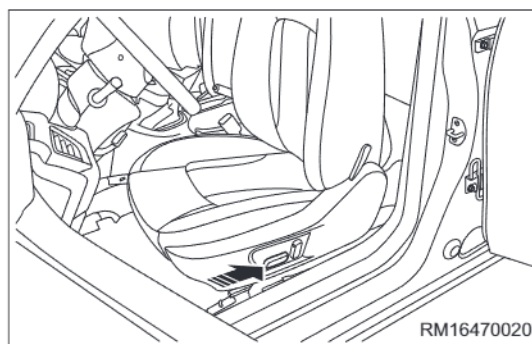
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing seat assembly.
- Try to prevent body paint surface and carpet from being scratched or damaged, when removing seat assembly.

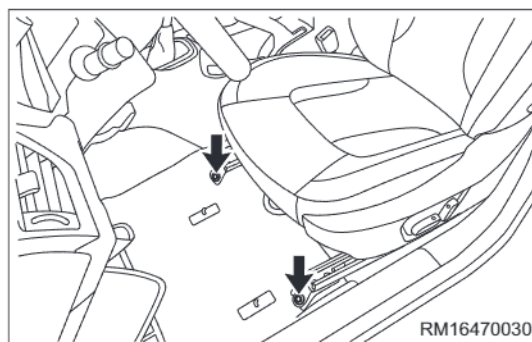
1. Turn off all electrical equipment and the ignition switch.
2. Remove the driver seat headrest assembly.
 - a. As shown in the illustration, press the release button of seat headrest guide (w/ button), and remove the driver seat headrest assembly.



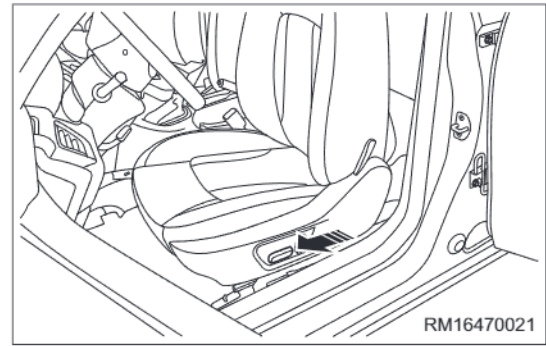
3. Remove the driver seat assembly.
 - a. As shown in the illustration, push the seat track adjusting power button backward and move the seat assembly to the rearmost position.



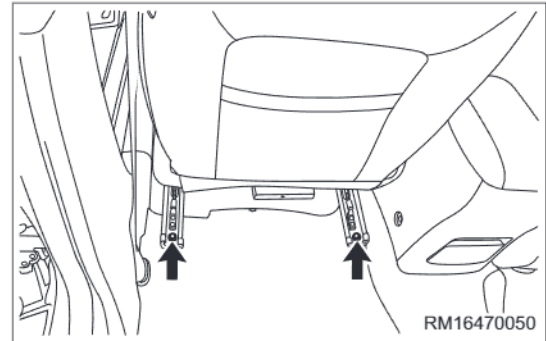
- b. Remove 2 fixing bolts (arrow) from the front side of seat assembly.
(Tightening torque: 25 ± 3 N·m)



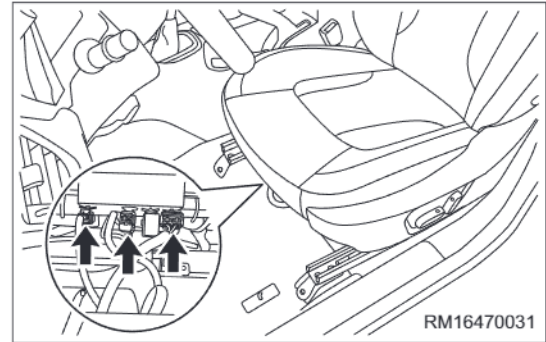
- c. As shown in the illustration, push the seat track adjusting power button forward and move the seat assembly to the foremost position.



- d. Remove 2 fixing bolts (arrow) from the rear side of seat assembly.
(Tightening torque: 25 ± 3 N·m)



- e. Push the seat track adjusting power button to move seat assembly to mid-position. Also, operate the seat reclining power button to move seatback to upright position.
- f. Disconnect the negative battery cable.
- g. Disconnect the wire harness connectors (arrow) under the seat assembly, and remove the driver seat assembly.



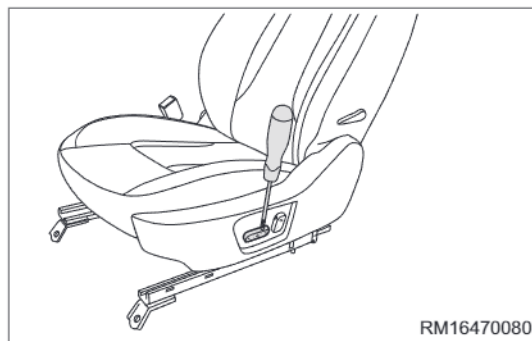
Disassembly

CAUTION

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

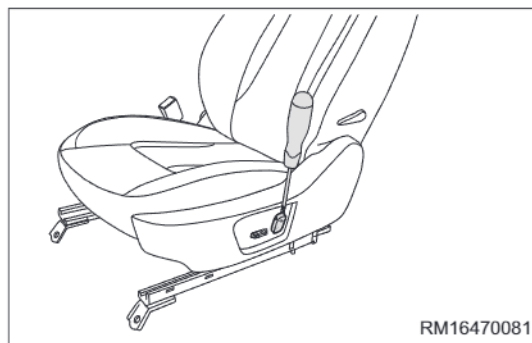
1. Remove the driver seat (power seat) track adjusting power button.

- Using a screwdriver wrapped with protective tape, pry and remove the power seat track adjusting power button.



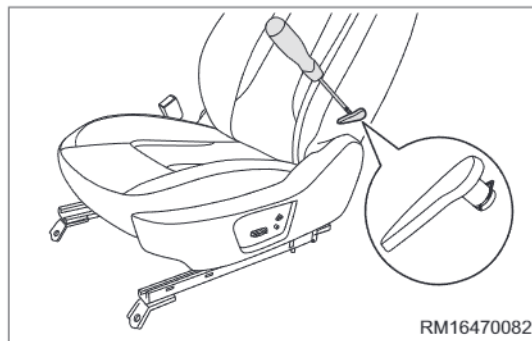
2. Remove the power seat reclining power button.

- Using a screwdriver wrapped with protective tape, pry and remove the power seat reclining power button.

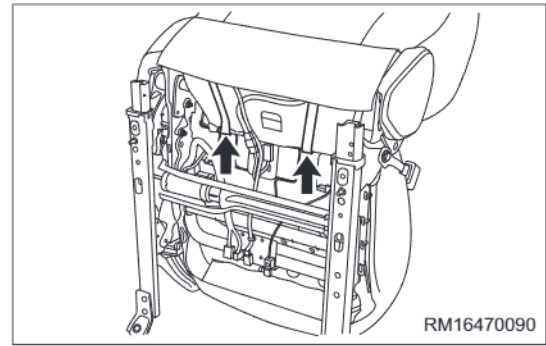


3. Remove the lumbar support handle.

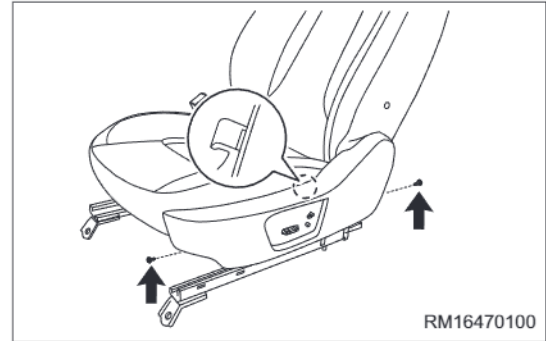
- As shown in the illustration, use a screwdriver wrapped with protective tape to pry out the clip and remove the lumbar support handle.



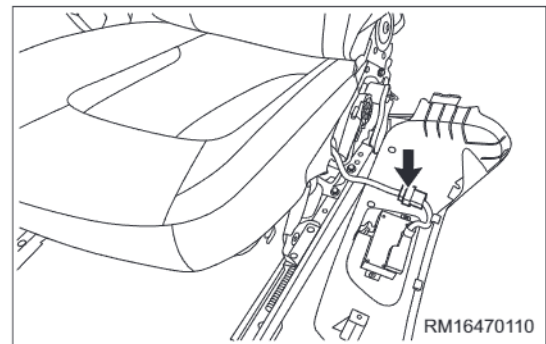
4. Remove the hooks connecting driver seatback sub-assembly and seat cushion sub-assembly.



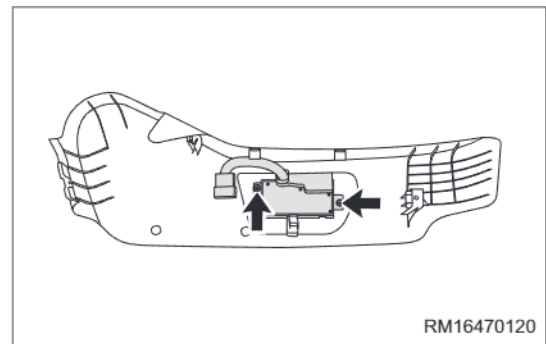
5. Remove the seat outer shield assembly.
 - a. Remove 2 fixing screws from seat outer shield assembly, and disengage the claw from seat frame. (Tightening torque: $3.5 \pm 0.35 \text{ N}\cdot\text{m}$)



- b. Disconnect the power switch box connector (arrow) and remove the shield.

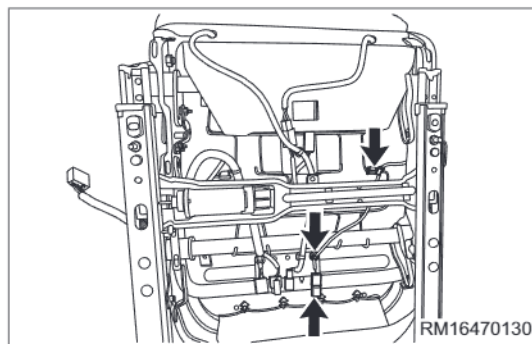


6. Remove the power switch box.
 - a. Remove 2 fixing screws from power switch box. (Tightening torque: $3.5 \pm 0.35 \text{ N}\cdot\text{m}$)
 - b. Remove the connector fixing clip, and remove the power switch box from seat outer shield.

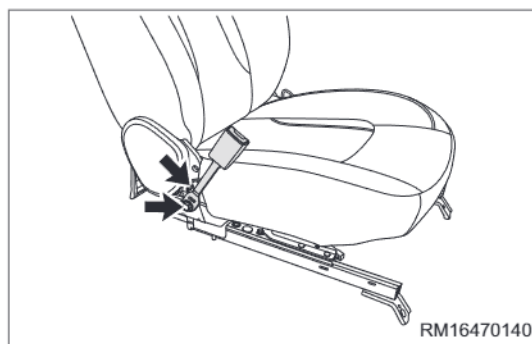


7. Remove the driver seat belt buckle assembly.

- a. Remove 2 wire harness fixing clips and connector fixing clip from seat belt buckle under the seat.

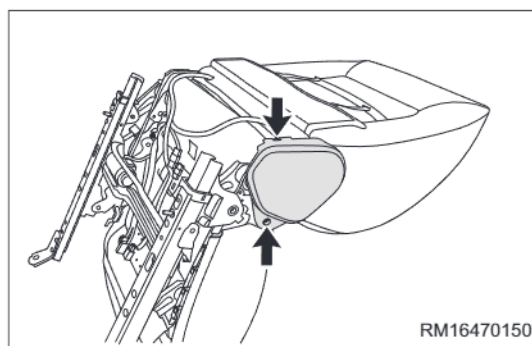


- b. Remove the wire harness fixing clip from the right side of seat.
- c. Remove the fixing bolt from seat belt buckle. (Tightening torque: $50 \pm 5 \text{ N}\cdot\text{m}$)



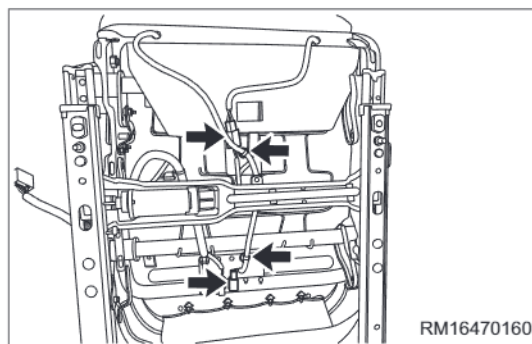
8. Remove the seat inner shield assembly.

- a. Remove 2 fixing screws from seat inner shield assembly, and remove the seat inner shield assembly. (Tightening torque: $3.5 \pm 0.35 \text{ N}\cdot\text{m}$)

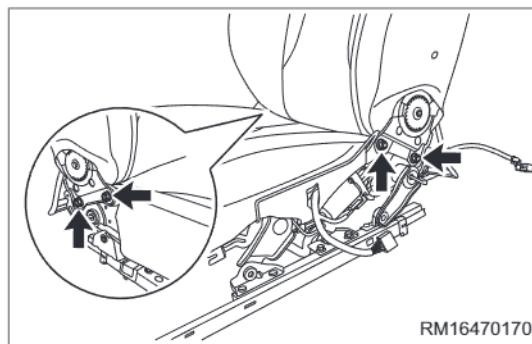


9. Separate the seatback sub-assembly and seat cushion sub-assembly.

- a. Disconnect 2 wire harness fixing clips and connector fixing clip from seat airbag.
- b. Disconnect the seatback motor wire harness connector.

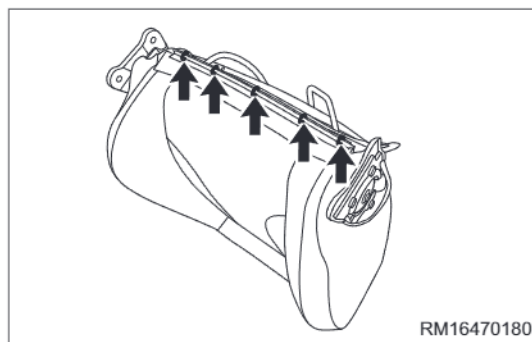


- c. Remove 4 coupling bolts between seatback sub-assembly and seat cushion sub-assembly.
(Tightening torque: $48 \pm 4.8 \text{ N}\cdot\text{m}$)



10. Remove the driver seat headrest guide.

- a. Remove 5 hog rings (arrow) from seatback sub-assembly.



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



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 cover when assembling seat.
- Replace damaged hog rings 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.

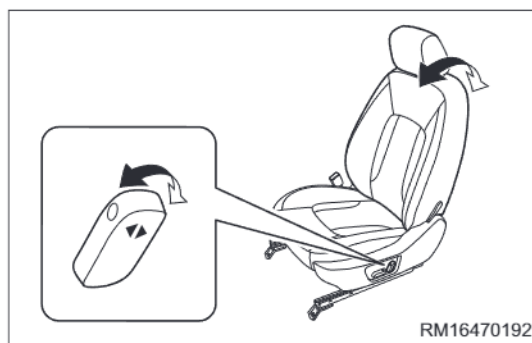
Inspection

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

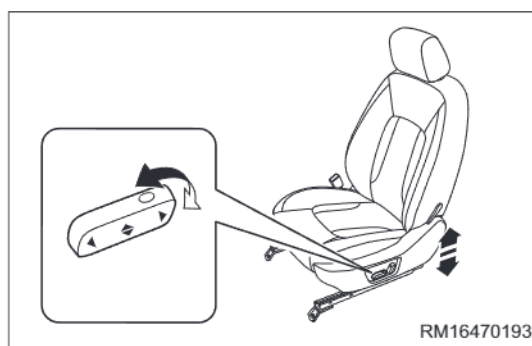
1. When sliding seat to the foremost and rearmost positions by moving the seat track adjusting power button forward and backward, check if the following malfunctions of seat occur: heavy operation, high sliding resistance, seizing, noise and interference between seat shield and auxiliary fascia console occurs, etc. If above conditions occur, repair or replace in time.



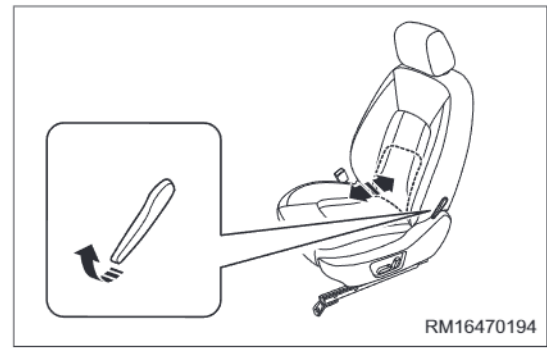
2. Adjust the seat reclining to the maximum and minimum angle by toggling the seat reclining power button upward and downward, to check if seatback is heavily turned over and stuck, etc. If above conditions occur, repair or replace in time.



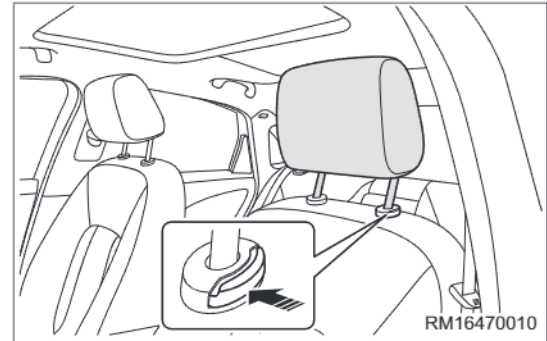
3. Adjust the seat to the highest and lowest position by toggling the seat height adjusting switch upward and downward, to check if the operation of seat is heavy and stuck, etc. If above conditions occur, repair or replace in time.



4. Toggle the lumbar support handle upward and downward, to check if the raising of seat is heavy and stuck, etc. If above conditions occur, repair or replace in time.



5. Move the seat headrest upward and downward by pressing the release button of headrest guide (w/ button), to check if the operation of seat headrest is heavy and stuck, etc. If above conditions occur, repair or replace in time.



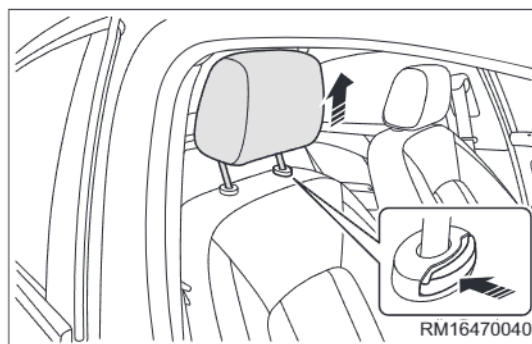
Front Passenger Seat Assembly (Manual Seat)

Removal

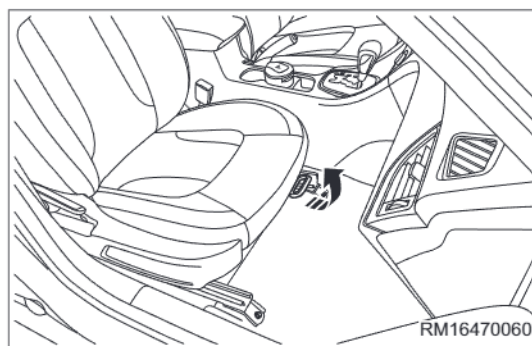
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing seat assembly.
- Try to prevent body paint surface and carpet from being scratched or damaged, when removing seat assembly.

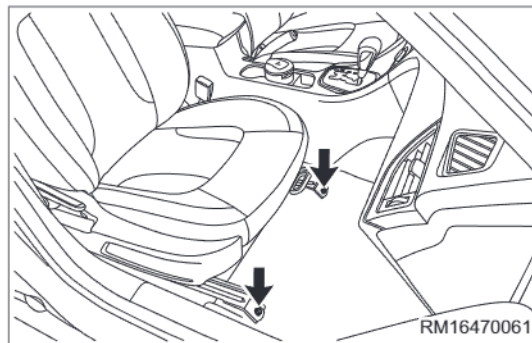
1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the front passenger seat headrest assembly.
 - a. As shown in the illustration, press the release button of seat headrest guide (w/ button), and remove the front passenger seat headrest assembly.



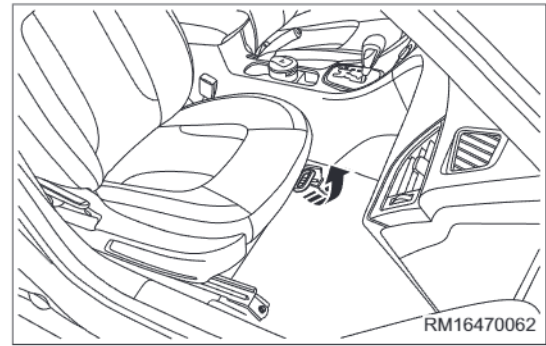
4. Remove the front passenger seat assembly.
 - a. As shown in the illustration, pull up the seat track unlock handle and move the seat assembly to the rearmost position.



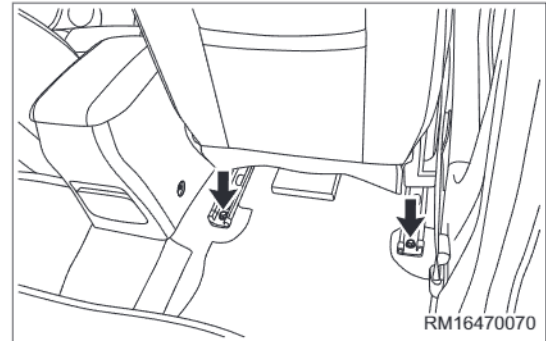
- b. Remove 2 fixing bolts (arrow) from the front side of seat assembly.
(Tightening torque: 25 ± 3 N·m)



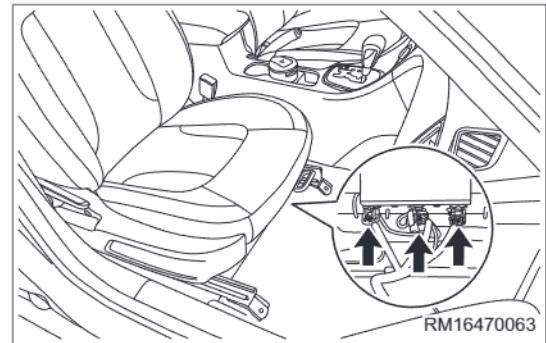
- c. As shown in the illustration, pull up the seat track unlock handle and move the seat assembly to the foremost position.



- d. Remove 2 fixing bolts (arrow) from the rear side of seat assembly.
(Tightening torque: 25 ± 3 N·m)



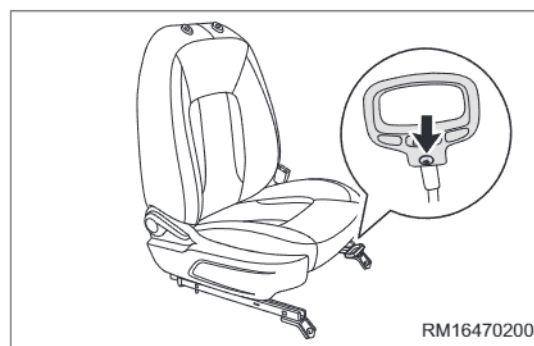
- e. Disconnect the wire harness connectors (arrow) and connector fixing clips under seat assembly.



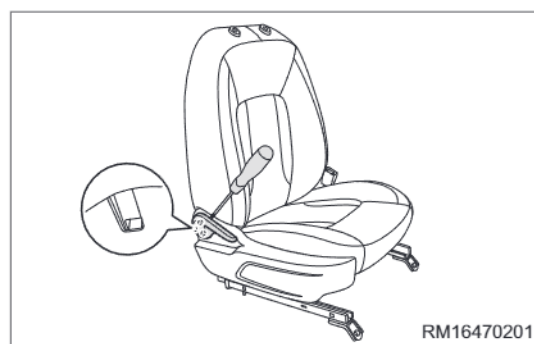
- f. Pull up the seat track unlock handle to move seat assembly to mid-position. Also, operate the seat reclining adjuster handle to move seatback to upright position, and remove the front passenger seat assembly.

Disassembly

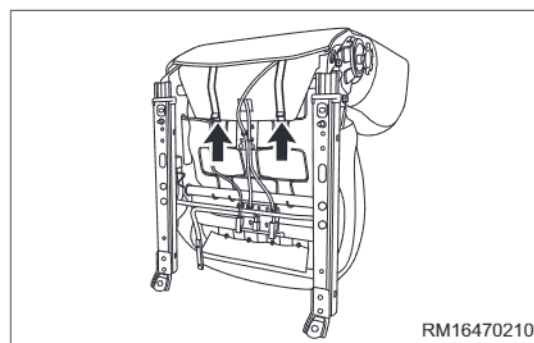
1. Remove the front passenger seat track unlock handle.
 - a. Remove the fixing screw (arrow) from seat track unlock handle, and remove the front passenger seat track unlock handle.
(Tightening torque: $3.5 \pm 0.35 \text{ N}\cdot\text{m}$)



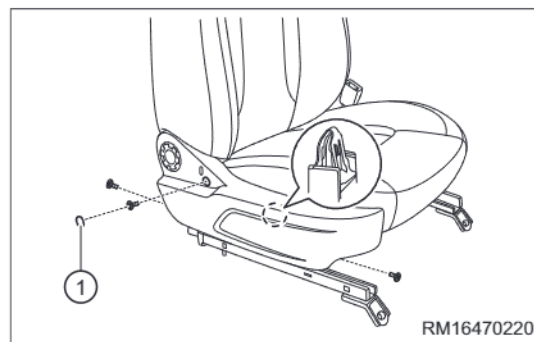
2. Remove the front passenger seat reclining adjuster handle.
 - a. Using a screwdriver wrapped with protective tape, pry the seat reclining adjuster handle, disengage the clip and remove the front passenger seat reclining adjuster handle.



3. Disconnect the hooks connecting front passenger seatback sub-assembly and seat cushion sub-assembly.

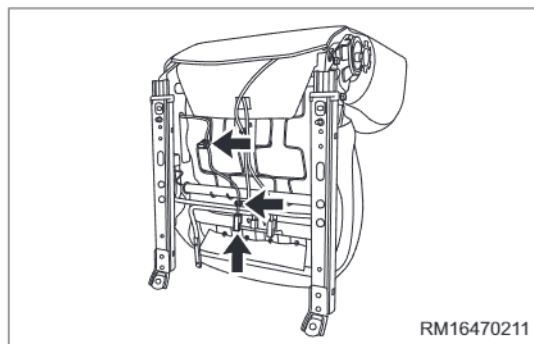


4. Remove the front passenger seat outer shield assembly.
 - a. Using a screwdriver wrapped with protective tape, pry out the cover of screw (1) on outer shield.
 - b. Remove 3 fixing screws from seat outer shield assembly, disengage the clip between outer shield and seat frame, and remove the front passenger seat outer shield.
(Tightening torque: $3.5 \pm 0.35 \text{ N}\cdot\text{m}$)

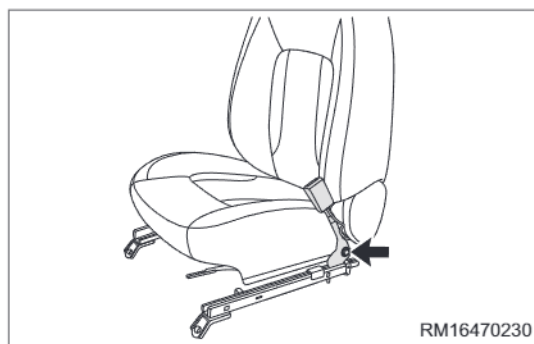


5. Remove the front passenger seat belt buckle assembly.

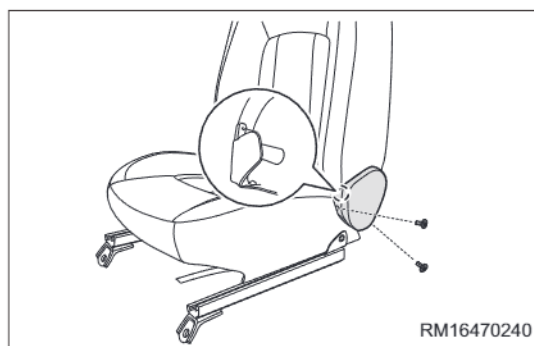
- a. Remove the connector fixing clip and 2 wire harness fixing clips from seat belt buckle.



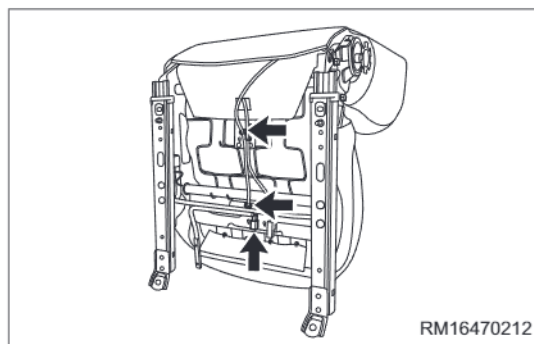
- b. Remove the fixing bolt (arrow) from seat belt buckle assembly and remove the front passenger seat belt buckle assembly.
(Tightening torque: $50 \pm 5 \text{ N}\cdot\text{m}$)



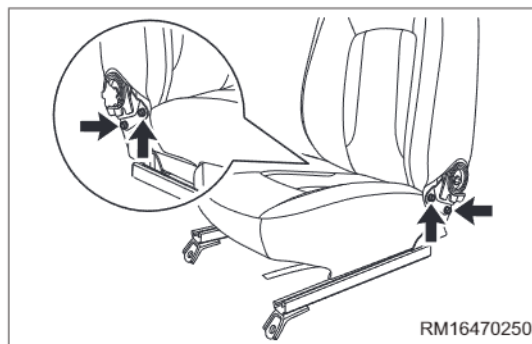
6. Remove the front passenger seat inner shield assembly.
 - a. Remove 2 fixing screws from seat inner shield assembly and separate the plastic hook.
(Tightening torque: $3.5 \pm 0.35 \text{ N}\cdot\text{m}$)



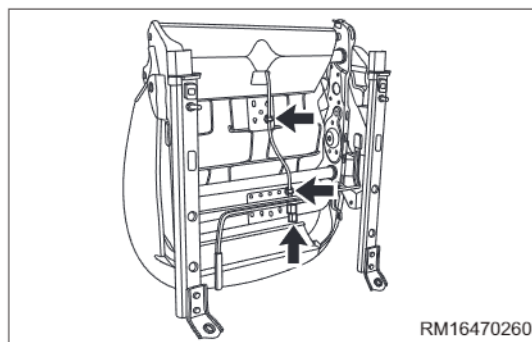
7. Separate the seatback sub-assembly and seat cushion sub-assembly.
 - a. Remove 2 wire harness clips and connector clip from front passenger airbag.



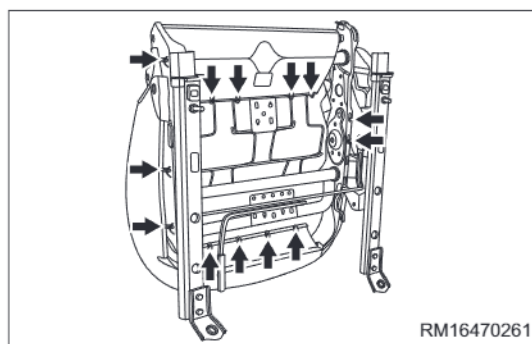
- b. Remove 4 coupling bolts between seatback sub-assembly and seat cushion sub-assembly.
(Tightening torque: $48 \pm 4.8 \text{ N}\cdot\text{m}$)



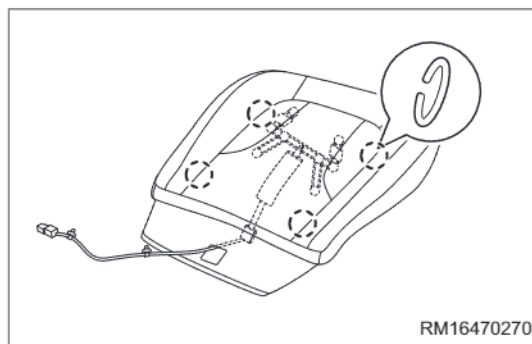
8. Remove the seat cushion sub-assembly.
- a. Remove the connector fixing clip and 2 wire harness clips (arrow) from front passenger seat belt reminder.



- b. Remove 13 hog rings (arrow) from seat cushion sub-assembly and remove the front passenger seat cushion sub-assembly.

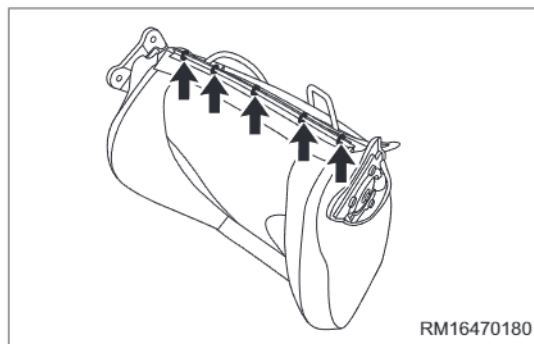


9. Remove the front passenger seat belt reminder.
- a. Remove 4 hog rings from seat cushion sub-assembly.
- b. Remove the front passenger seat belt reminder.

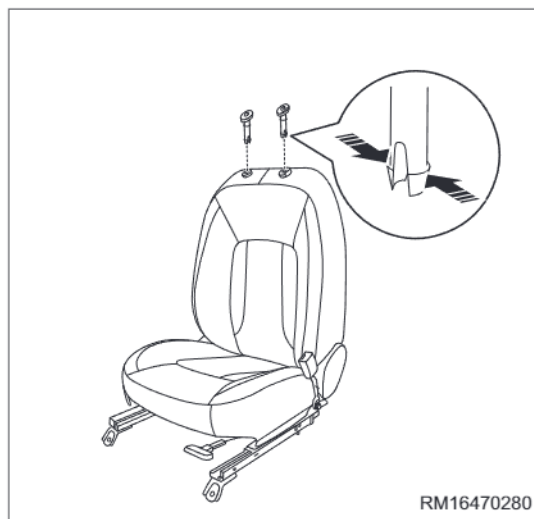


10. Remove the front passenger seat headrest guide.

- a. Remove 5 hog rings (arrow) from seatback sub-assembly.



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



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 cover when assembling seat.
- Replace damaged hog rings when assembling seat.
- Keep seat cover clean and tidy, and try to prevent wrinkles when assembling seat.

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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.

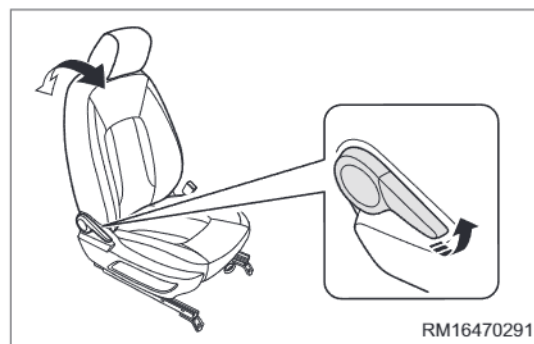
Inspection

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

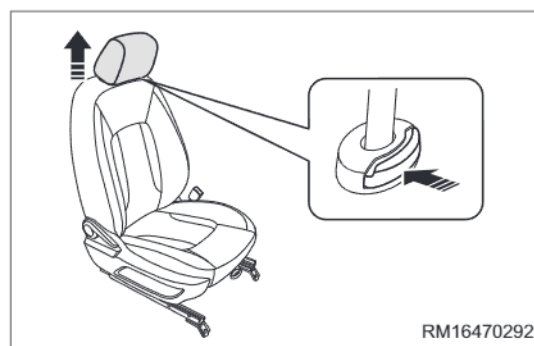
1. When sliding seat to the foremost and rearmost positions by pulling up the seat track unlock handle, check if the following malfunctions of seat occur: heavy operation, high sliding resistance, seizing, noise and interference between seat shield and auxiliary fascia console occurs, etc. If above conditions occur, repair or replace in time.



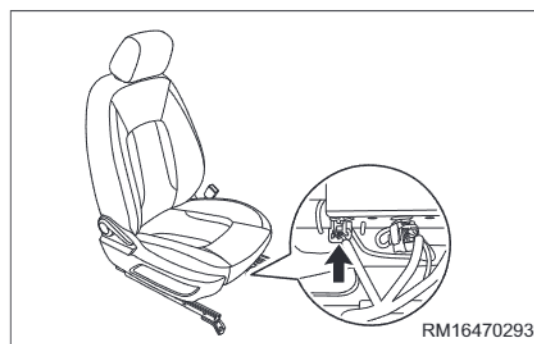
2. Adjust the seat reclining to the maximum and minimum angle by pulling up the seat reclining adjuster handle, to check if seatback is heavily turned over and stuck, etc. If above conditions occur, repair or replace in time.



3. Move the seat headrest upward and downward by pressing the release button of headrest guide (w/ button), to check if the operation of seat headrest is heavy and stuck, etc. If above conditions occur, repair or replace in time.



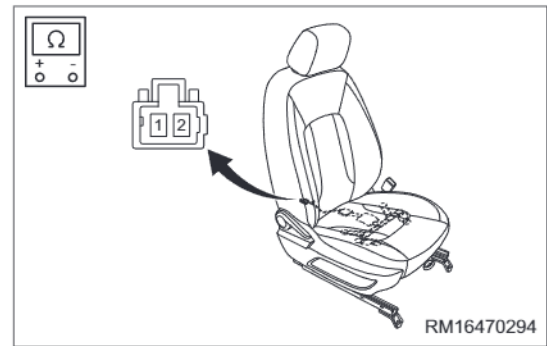
4. Check if fixing bolts are set in position, and tighten them to the specified torque.
5. Check the front passenger seat belt reminder.
 - a. Disconnect the front passenger seat belt reminder connector (arrow).



- b. Measure the resistance of front passenger seat belt reminder with a digital multimeter according to the value(s) in the table below.

Multimeter Connection	Measurement Condition	Specified Condition
Terminal 1 - Terminal 2	Seat not occupied	$\infty \Omega$
Terminal 1 - Terminal 2	Seat occupied	$\leq 20 \Omega$

If result is not as specified, replace the front passenger seat belt reminder.



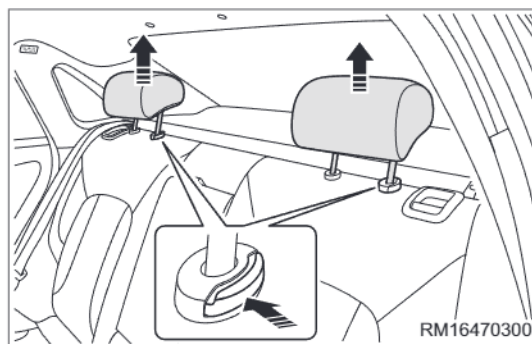
Rear Seat Assembly

Removal

CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing rear seat assembly.
- Try to prevent body paint surface and carpet from being scratched or damaged, when removing rear seat assembly.

1. Remove the rear seat headrest assembly.
 - a. Press the handle release cover, adjust the seatback and press the headrest release button to remove the rear seat headrest assembly as shown in the illustration.

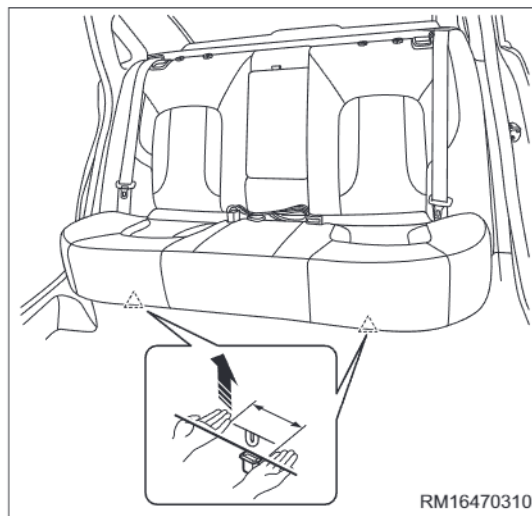


2. Remove the rear seat cushion assembly.

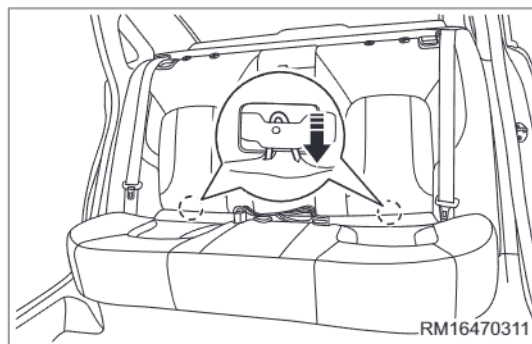
CAUTION

- Try to prevent rear seat cushion frame from being deformed, when removing rear seat cushion.

- a. As shown in the illustration, put your hands near the "U" wire on one side of rear seat cushion assembly, and then raise the rear seat cushion assembly to separate U wire and holder assembly. Use the same procedure for the other side.



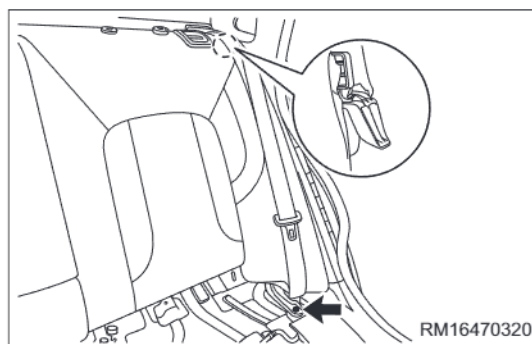
- b. As shown in the illustration, disengage "n" wire in rear part of cushion from Ω bracket raised out of body floor.



- c. Remove the rear seat cushion assembly.

3. Remove the rear seat protector assembly.

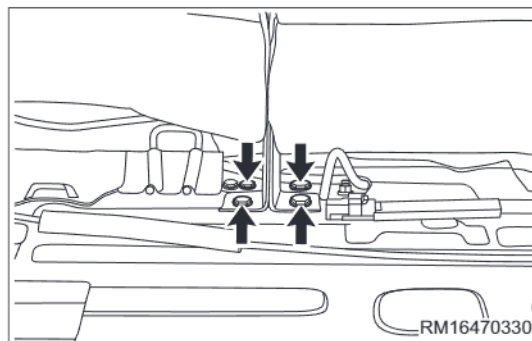
- a. Remove the fixing nut from rear left seat protector assembly and disengage the plastic hook from the upper part of left protector.
(Tightening torque: $3.5 \pm 0.35 \text{ N}\cdot\text{m}$)



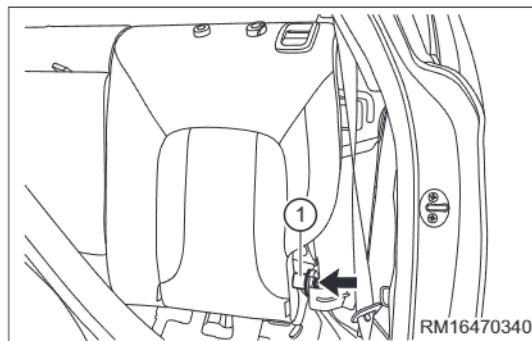
- b. Remove the rear left seat protector assembly.
Use above procedures to remove the right protector assembly.

4. Remove the rear seatback assembly.

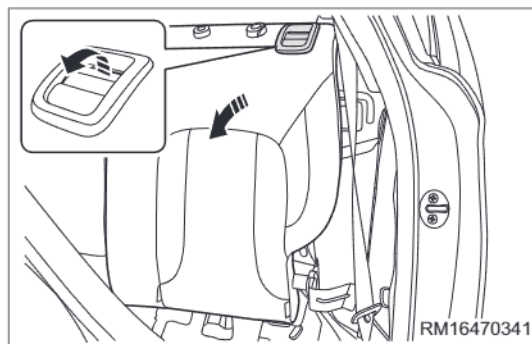
- a. Put down the rear seatback, open the luggage compartment door, pull apart the adhesive strips and remove the luggage compartment carpet assembly.
b. Remove 4 fixing bolts from rear seatback center connecting bracket assembly.
(Tightening torque: $25 \pm 3 \text{ N}\cdot\text{m}$)



- c. Remove the fixing nut (arrow) from rear left seatback positioning holder and remove the rear left seatback positioning holder (1).
(Tightening torque: $25 \pm 3 \text{ N}\cdot\text{m}$)
Use above procedures to remove the rear right seatback positioning holder.



- d. Press the handle release cover, turn over the seatback and remove the rear left seatback. Use above procedures to remove the rear right seatback.



CAUTION

- Try to prevent body paint surface and carpet from being scratched or damaged, when removing rear seat assembly.

Disassembly

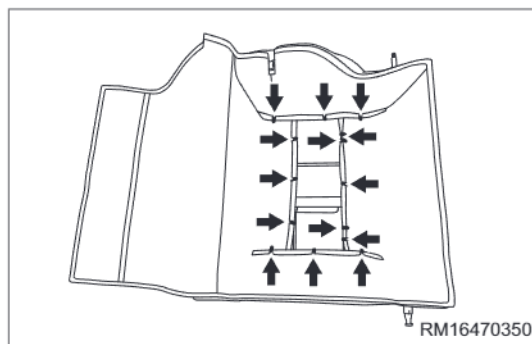
HINT:

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

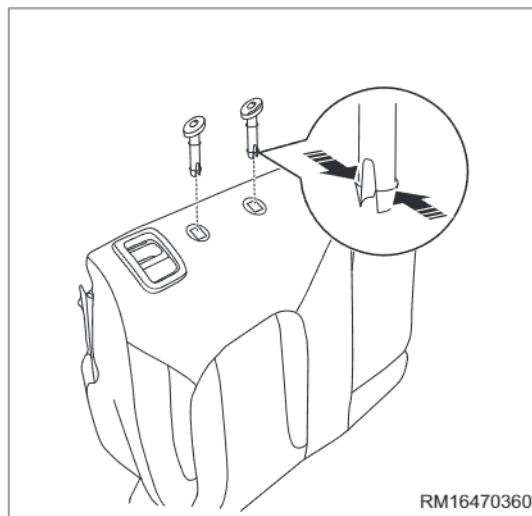
CAUTION

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

1. Remove the rear right seat headrest guide.
 - a. Pull apart the adhesive strips, and remove 14 hog rings from the back side of seatback.

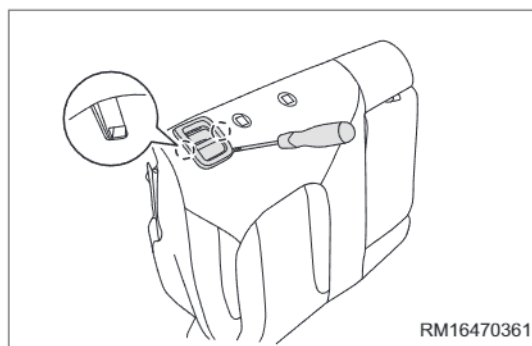


- b. Press and hold the lower part of rear seat headrest guide indicated by the arrow shown in the illustration, and remove the rear right seat headrest guide.



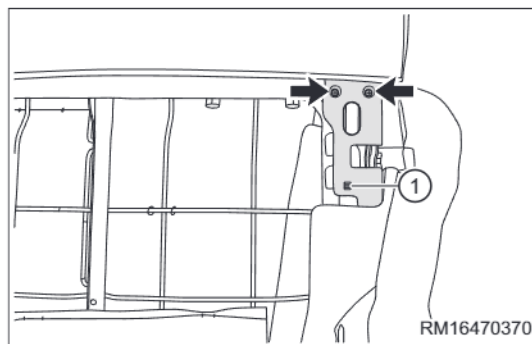
2. Remove the rear seatback release handle cover.

- a. Using a screwdriver wrapped with protective tape, pry up the claws on rear right seatback release handle cover, and remove the release handle cover.



3. Remove the seatback lock bracket cover.

- a. Remove 2 fixing screws from rear right seatback bracket cover.
- b. Separate the claw (1) and remove the seatback lock bracket cover.



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 hog rings, 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.

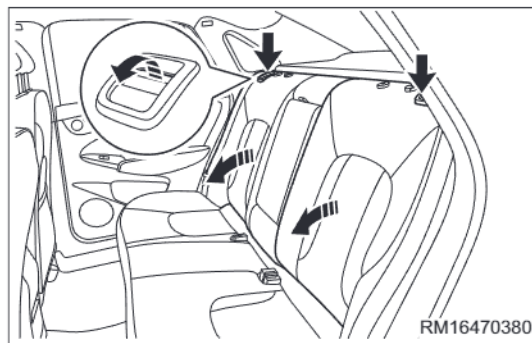
CAUTION

- 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.
- When installing rear seat cushion, make sure that seat belt buckle is not under the seat cushion.

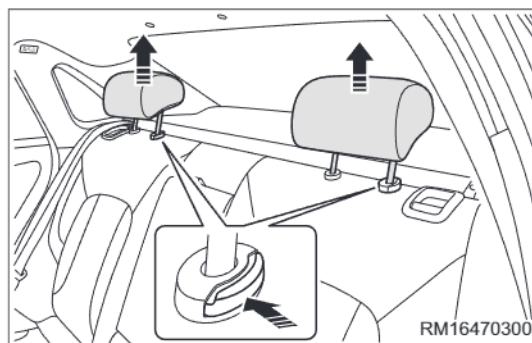
Inspection

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

1. Pull up the seatback release handle, to check if rear seatback is heavily turned over and stuck, etc. Repair or replace as necessary.



2. Move the seat headrest upward and downward by pressing the release button of headrest guide (w/ button), to check if the operation of seat headrest is heavy and stuck, etc. If above conditions occur, repair or replace in time.



3. Check if fixing bolts are set in position, and tighten them to the specified torque.
4. Check if rear seatback is locked securely.

HINT:

If the red warning mark on rear seatback release handle is visible, it indicates that the seatback does not lock.

5. Check if side protectors and cushion are installed securely.

