

ENGINE HOOD/DOOR

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

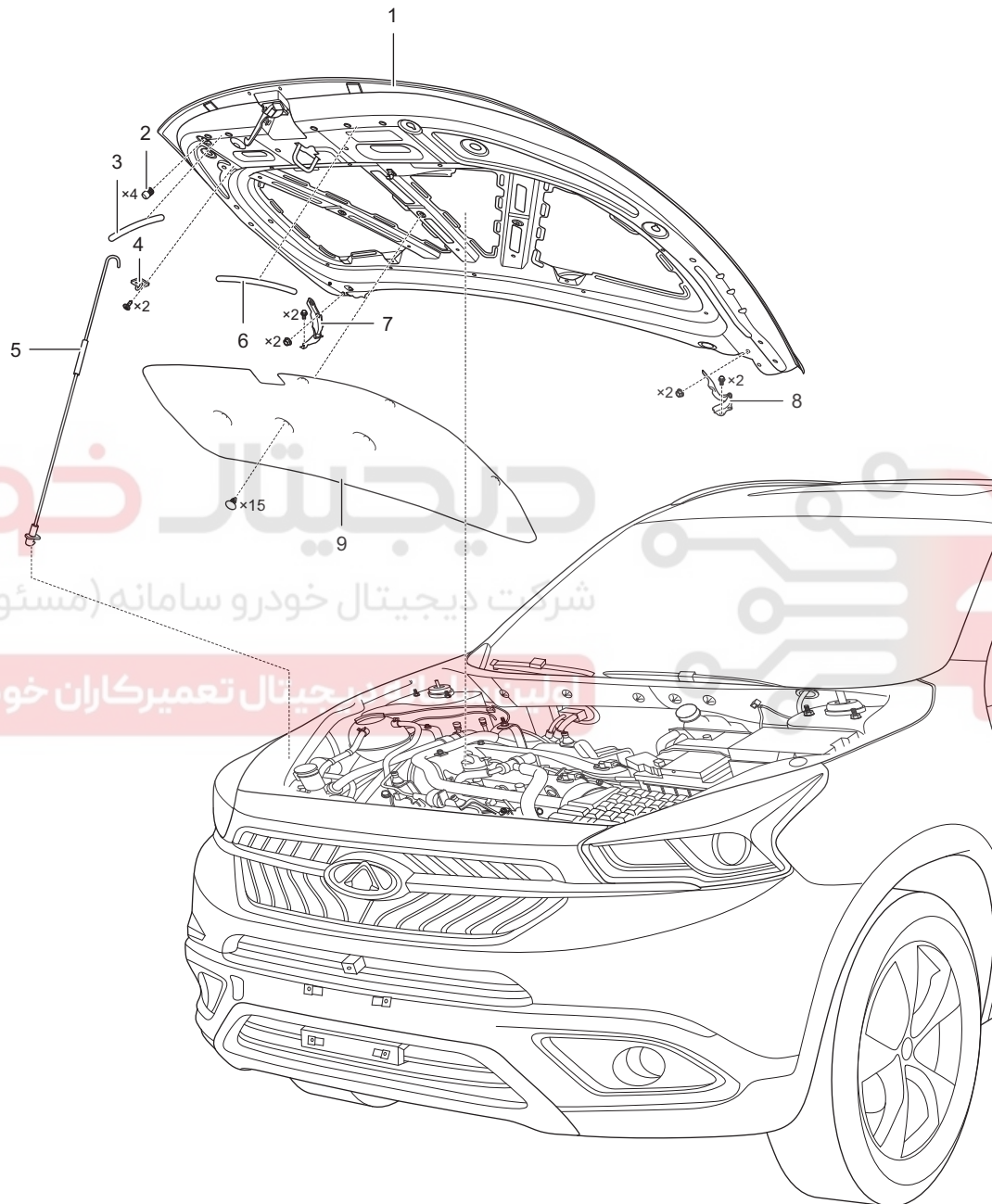


GENERAL INFORMATION

Description

Engine Hood Assembly

62



62 - ENGINE HOOD/DOOR

1 - Engine Hood Assembly	2 - Engine Hood Upper Adjustment Block
3 - Engine Hood Right Weatherstrip	4 - Engine Hood Support Rod Lower Holder
5 - Engine Hood Support Rod Assembly	6 - Engine Hood Left Weatherstrip
7 - Engine Hood Right Hinge Assembly	8 - Engine Hood Left Hinge Assembly
9 - Engine Hood Sound-absorbing Pad	

دیجیتال خودرو

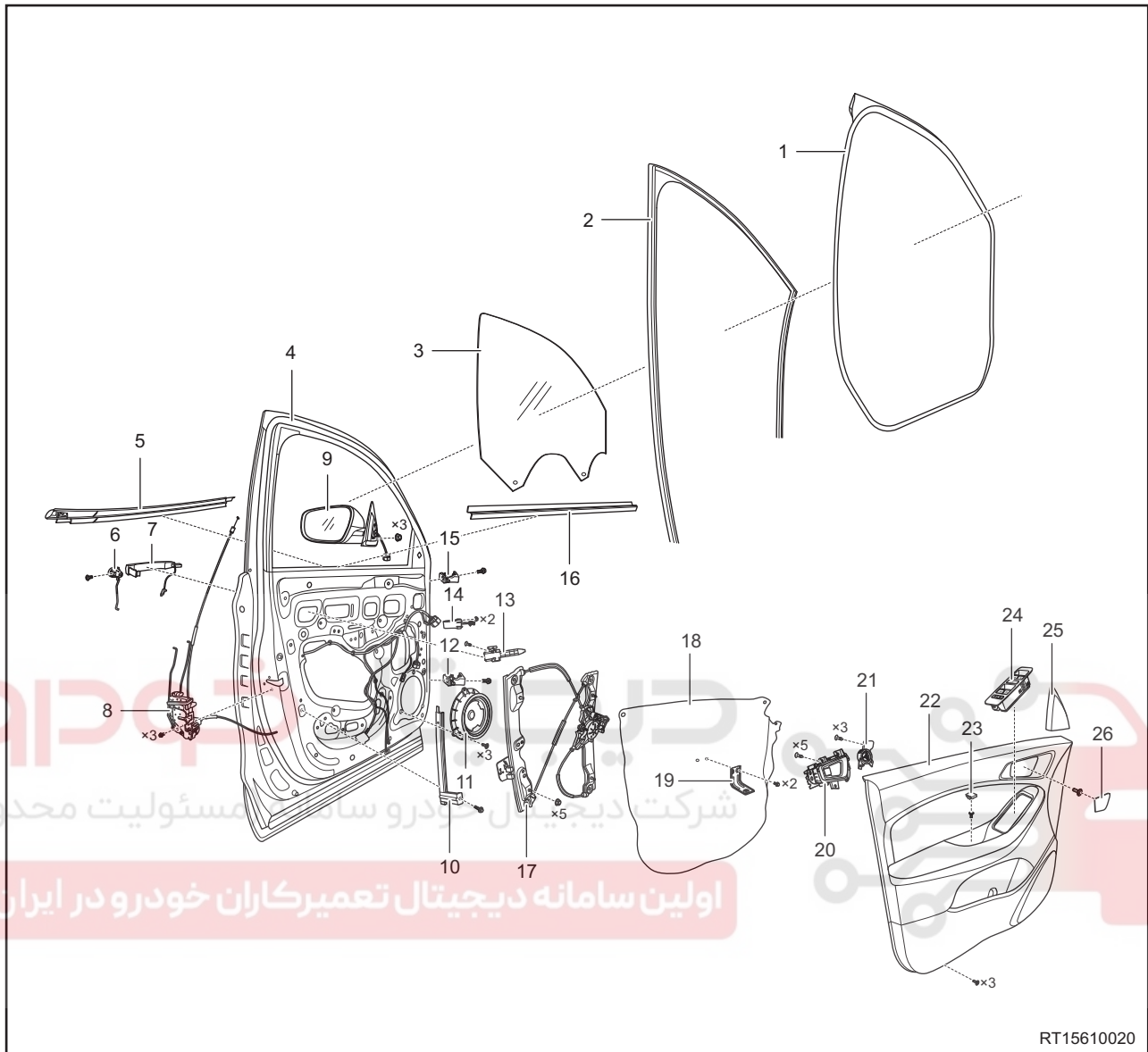
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Front Left Door Assembly

62



62 - ENGINE HOOD/DOOR

1 - Front Door Frame Weatherstrip	2 - Front Door Run
3 - Front Door Glass Assembly	4 - Front Door Assembly
5 - Front Door Outer Weather Bar Assembly	6 - Front Door Key Cylinder Protective Cap
7 - Front Door Outside Handle	8 - Front Door Lock Assembly
9 - Outside Rear View Mirror Assembly	10 - Front Door Glass Rear Guide Rail Assembly
11 - Front Door Woofer	12 - Front Door Lower Hinge Assembly
13 - Front Door Outside Handle Base Assembly	14 - Front Door Check Assembly
15 - Front Door Upper Hinge Assembly	16 - Front Door Inner Weather Bar
17 - Front Door Power Glass Regulator Assembly	18 - Front Door Protective Film Assembly
19 - Front Door Inner Assist Grip Mounting Bracket Assembly	20 - Front Door Inside Handle
21 - Front Door Tweeter	22 - Front Door Protector Assembly
23 - Screw Block Cover	24 - Power Glass Regulating Control Master Switch Assembly
25 - Front Door Inside Handle Screw Block Cover	26 - Inside Handle Screw Block Cover

62

دیجیتال خودرو

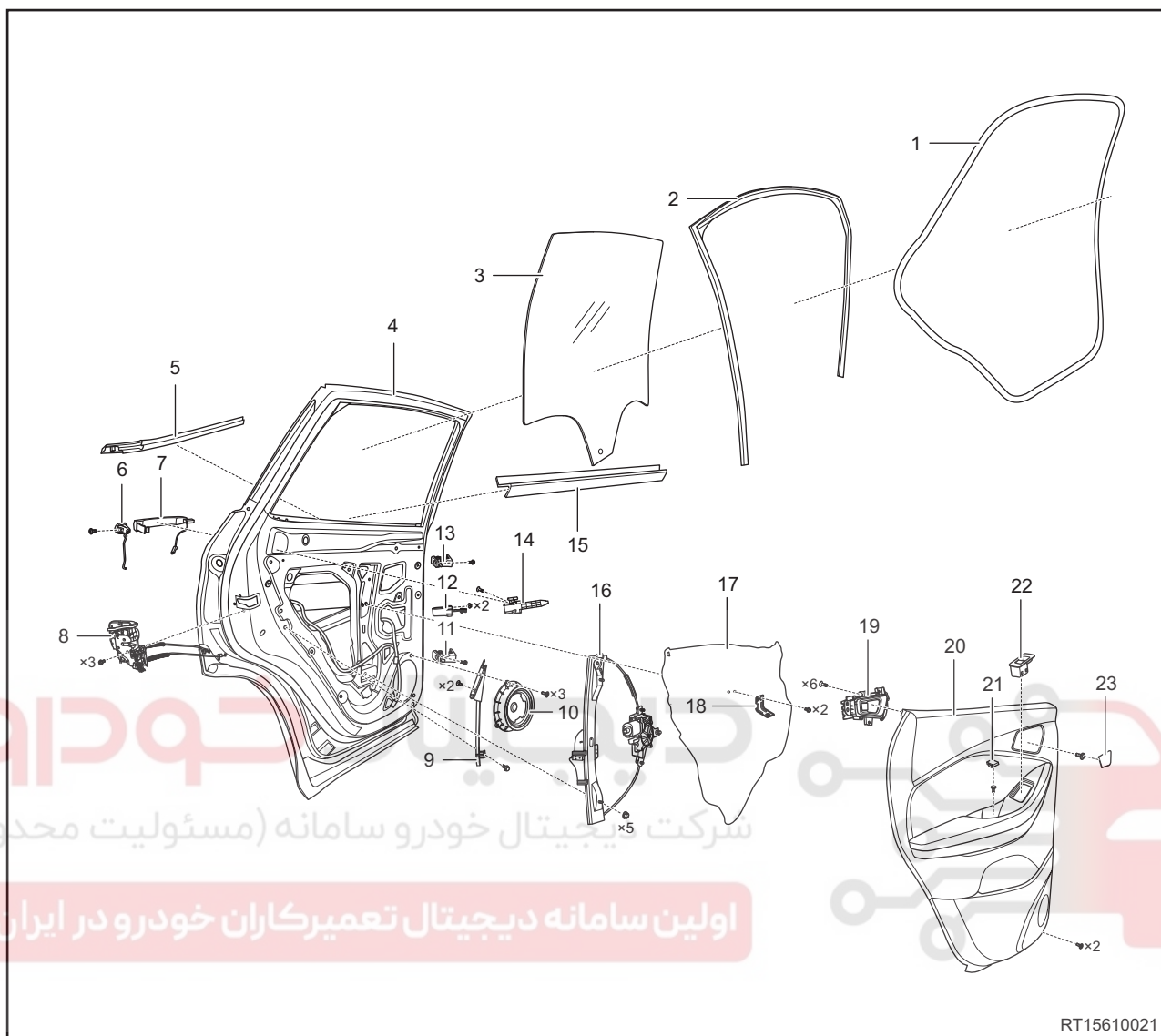
شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Rear Left Door Assembly

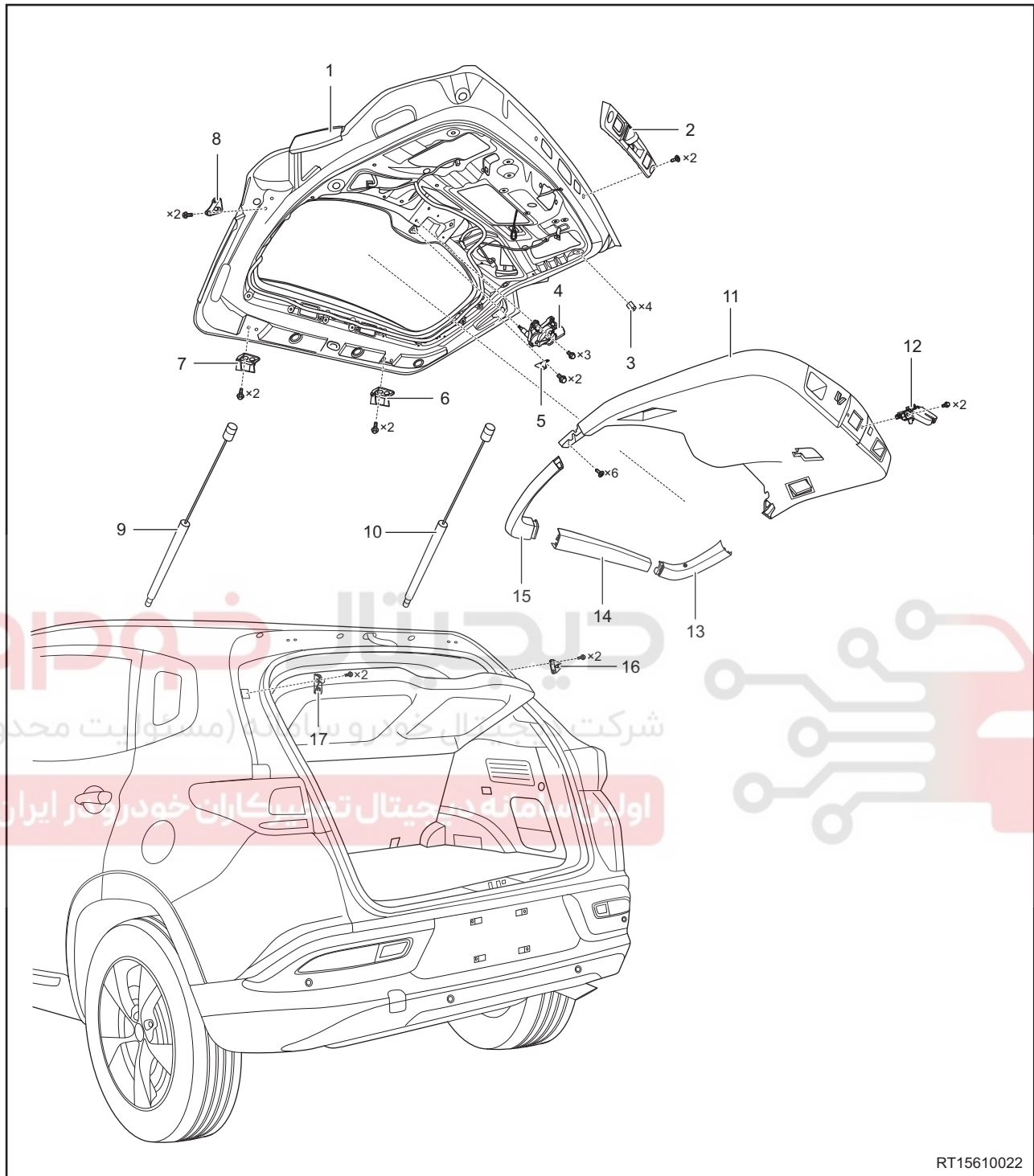
62



1 - Rear Door Frame Weatherstrip	2 - Rear Door Run
3 - Rear Door Glass Assembly	4 - Rear Door Assembly
5 - Rear Door Outer Weather Bar Assembly	6 - Rear Door Key Cylinder Protective Cap
7 - Rear Door Outside Handle	8 - Rear Door Lock Assembly
9 - Rear Door Glass Guide Rail Assembly	10 - Rear Door Woofer
11 - Rear Door Lower Hinge Assembly	12 - Rear Door Check Assembly
13 - Rear Door Upper Hinge Assembly	14 - Rear Door Outside Handle Base Assembly
15 - Rear Door Inner Weather Bar	16 - Rear Door Power Glass Regulator Assembly
17 - Rear Door Protective Film Assembly	18 - Rear Door Inner Assist Grip Mounting Bracket Assembly
19 - Rear Door Inside Handle Assembly	20 - Rear Door Inner Protector Assembly
21 - Screw Block Cover	22 - Rear Door Power Glass Regulator Switch Assembly
23 - Rear Door Inside Handle Screw Block Cover	

Luggage Compartment Door Assembly

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RT15610022

1 - Luggage Compartment Door Assembly	2 - Rear License Plate Light
3 - Luggage Compartment Door Adjustment Block	4 - Rear Wiper Motor Assembly
5 - Luggage Compartment Door Right Air Spring Upper Holder	6 - Luggage Compartment Door Right Hinge Assembly
7 - Luggage Compartment Door Left Hinge Assembly	8 - Luggage Compartment Door Left Air Spring Upper Holder
9 - Luggage Compartment Door Left Air Spring	10 - Luggage Compartment Door Right Air Spring
11 - Luggage Compartment Door Lower Protector Assembly	12 - Luggage Compartment Door Lock Assembly
13 - Luggage Compartment Door Right Protector Assembly	14 - Luggage Compartment Door Upper Protector Assembly
15 - Luggage Compartment Door Left Protector Assembly	16 - Luggage Compartment Door Right Air Spring Lower Holder
17 - Luggage Compartment Door Left Air Spring Lower Holder	

The vehicle is designed as a structure with four doors & two covers (front left door, rear left door, front right door, rear right door, luggage compartment door and engine hood).

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شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Specifications

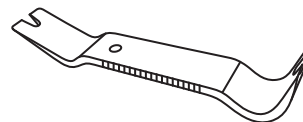
Torque Specifications

Description	Torque (N·m)
Fixing Bolt Between Hood Assembly and Hood Hinge Assembly	22 ± 1
Fixing Bolt Between Hood Hinge Assembly and Body	22 ± 1
Hood Lock Assembly Fixing Bolt	10 ± 1
Fixing Bolt Between Hood Hinge Assembly and Wing Assembly	22 ± 1
Front Door Inner Protector Assembly Fixing Screw	1.5 ± 0.5
Front Door Inner Protector Assembly Fixing Bolt	1.5 ± 0.5
Front Door Inside Handle Fixing Screw	1.5 ± 0.5
Front Door Outside Handle Base Assembly Fixing Screw	5 ± 1
Fixing Bolt Between Front Door Hinge Assembly and Front Door Assembly	55 ± 5
Fixing Bolt Between Front Door Hinge Assembly and Body	32 ± 3
Fixing Nut Between Door Check and Front Door Assembly	9 ± 1
Fixing Bolt Between Door Check and Body	24 ± 2
Front Door Lock Striker Fixing Screw	23 ± 2
Rear Door Inner Protector Assembly Fixing Screw	1.5 ± 0.5
Rear Door Inside Handle Fixing Screw	1.5 ± 0.5
Rear Door Metal Bracket Fixing Bolt	5 ± 1
Rear Door Outside Handle Cover Fixing Screw	5 ± 1
Rear Door Outside Handle Base Assembly Fixing Screw	1.5 ± 0.5
Fixing Bolt Between Rear Door Hinge Assembly and Rear Door Assembly	55 ± 5
Fixing Bolt Between Rear Door Hinge Assembly and Body	32 ± 3
Rear Door Lock Striker Fixing Screw	23 ± 2
Fixing Bolt Between Luggage Compartment Door Hinge Assembly and Luggage Compartment Door Assembly	23 ± 2
Fixing Bolt Between Luggage Compartment Door Hinge Assembly and Body	23 ± 2
Luggage Compartment Door Lock Striker Assembly Fixing Screw	10 ± 1

Tool

General Tool

Interior Crow Plate



RCH0000025

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شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



ON-VEHICLE SERVICE

Hood Assembly

Removal

CAUTION

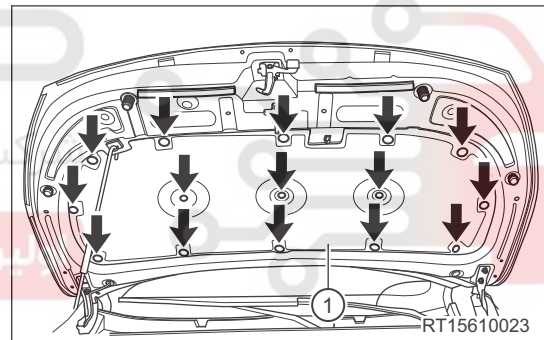
- Be sure to wear safety equipment to prevent accidents, when removing hood assembly.
- When removing hood assembly, try to prevent hood from dropping, otherwise, body or front windshield may be damaged.

WARNING

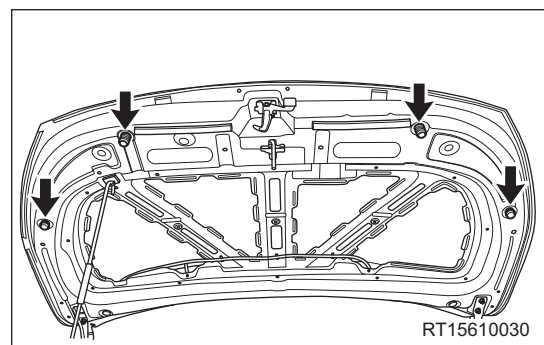
- When removing hood assembly, an assistant is needed to hold hood, to prevent it from dropping or suddenly closing to cause accidents during operation.

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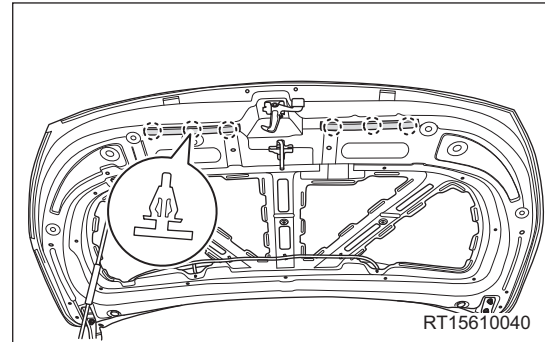
1. Remove the engine hood sound insulator.
 - a. Remove clips (arrow) from engine hood sound insulator, and remove hood sound insulator (1).



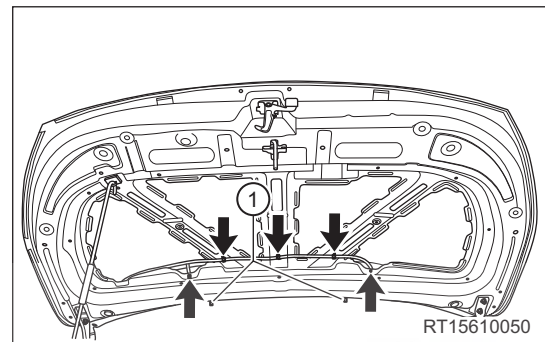
2. Remove the engine hood adjustable buffer block.
 - a. Turn engine hood adjustable buffer blocks (arrow) counterclockwise to remove them.



3. Remove the engine weatherstrip.
 - a. Disengage clips from engine weatherstrip, and remove engine weatherstrip.

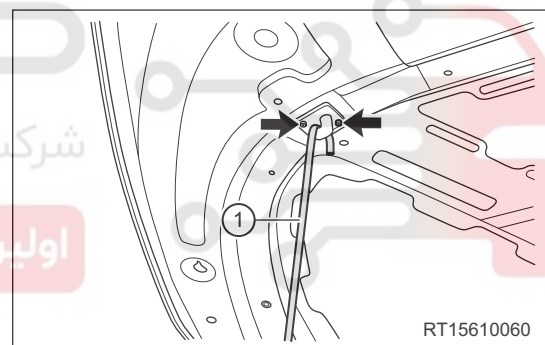


4. Remove washer line and 2 washer nozzles.
 - a. Loosen 5 fixing clips (arrow) from washer line.
 - b. Remove left and right nozzles (1) from washer line.



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5. Remove 2 fixing screws (arrow) from holder, and remove engine hood support rod (1).
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)

**CAUTION**

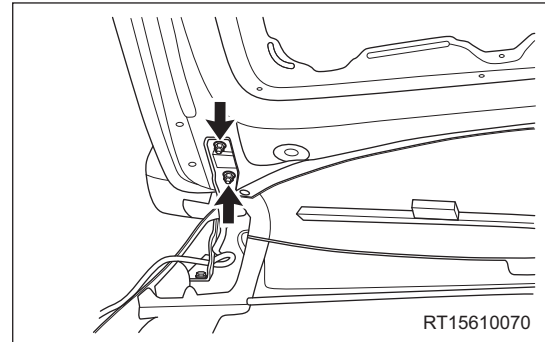
- Be sure to wear safety equipment to prevent accidents, when removing engine hood support rod.
- Try to prevent body paint surface from being scratched, when removing engine hood support rod.
- When removing engine hood support rod, try to prevent hood from dropping, otherwise, body may be damaged.

WARNING

- When removing engine hood support rod, an assistant is needed to hold hood, to prevent it from dropping or suddenly closing to cause accidents during operation.

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6. Remove the engine hood assembly.
 - a. Remove 2 fixing nuts (arrow) between engine hood assembly and engine hood hinge assembly, and remove engine hood assembly.
(Tightening torque: 22 ± 1 N·m)

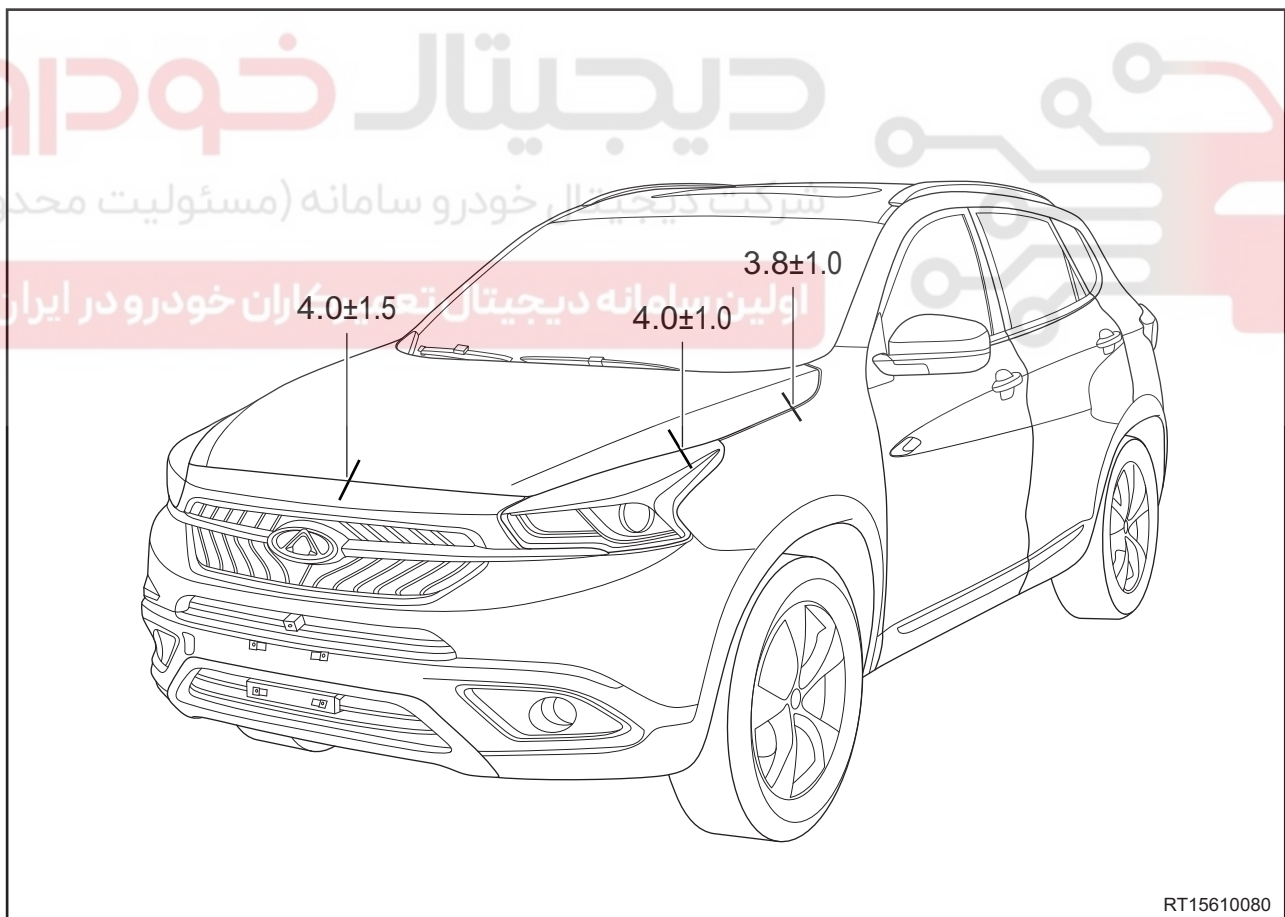
**Installation**

Installation is in the reverse order of removal.

Adjustment

1. Adjust the engine hood assembly.
 - a. Loosen fixing bolts from engine hood hinge assembly.
 - b. Adjust clearance of engine hood assembly to standard range and pre-tighten fixing bolts on engine hood hinge assembly.

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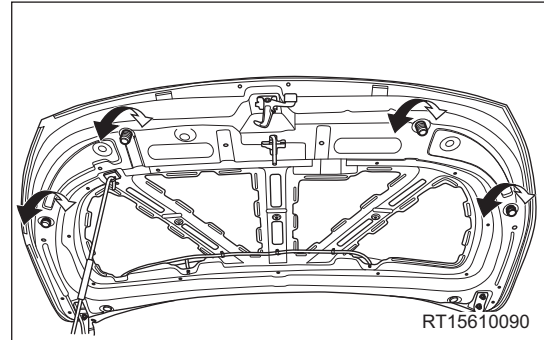


Standard ranges of clearance between installation position of engine hood assembly and each part are as shown in illustration.

- c. After adjustment, tighten fixing bolts between engine hood hinge assembly and engine hood assembly to specified torque.
(Tightening torque: 22 ± 1 N·m)
- d. After adjustment, tighten fixing bolts between engine hood hinge assembly and body to specified torque.
(Tightening torque: 22 ± 1 N·m)

2. Adjust height of engine hood front end with adjustable buffer blocks.

- a. Lower or raise front end of hood by rotating adjustable buffer blocks clockwise or counterclockwise.



- b. After adjustment, make sure that alignment between engine hood assembly and wing assembly is within the standard range.

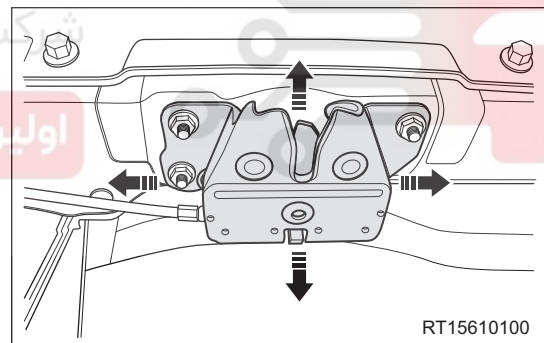
Standard alignment: $1.0^{+0.5}_{-1.0}$

- c. After adjustment, make sure that alignment between engine hood assembly and front combination light is within the standard range.

Standard alignment: 1.0 ± 1.0

3. Adjust the engine hood lock assembly.

- a. Slightly loosen engine hood lock assembly fixing nuts, and adjust engine hood lock assembly in direction of arrow.



- b. Tighten engine hood lock assembly fixing nuts to specified torque after adjustment.

(Tightening torque: 10 ± 1 N·m)

Inspection

After hood assembly is adjusted, perform inspection as follows:

1. Check engine hood for wear or deformation during installation, and repair as necessary.
2. Check if fixing bolts are assembled in position. Tighten them to specified torque as necessary.
3. Check if clearance and alignment between installation position of hood assembly and each part are within the specified range. Adjust as necessary.

Hood Hinge Assembly

Removal

HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing hood hinge assembly.
- When removing hood hinge assembly, try to prevent hood from dropping, otherwise, body or front windshield may be damaged.

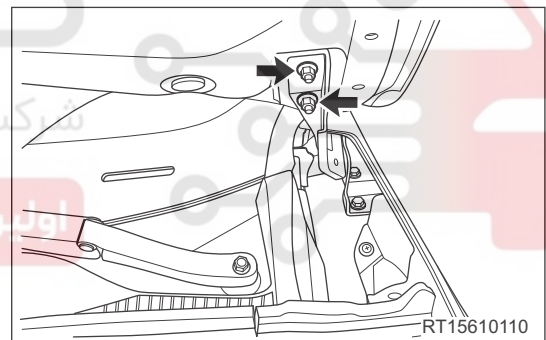
WARNING

62

- When removing hood hinge assembly, an assistant is needed to hold hood, to prevent it from dropping or suddenly closing to cause accidents during operation.

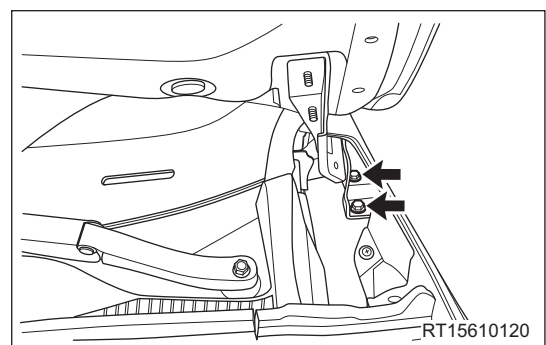
1. Remove the engine hood left hinge assembly.
 - a. Remove 2 fixing nuts (arrow) between engine hood left hinge assembly and engine hood assembly.

(Tightening torque: 22 ± 1 N·m)



- b. Remove 2 fixing bolts (arrow) between engine hood left hinge assembly and body, and remove engine hood left hinge assembly.

(Tightening torque: 22 ± 1 N·m)



Installation

Installation is in the reverse order of removal.

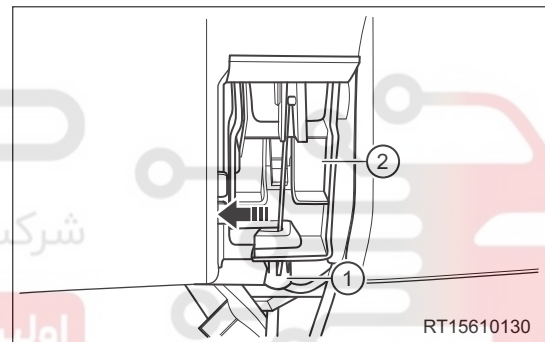
Hood Cable Assembly

Removal

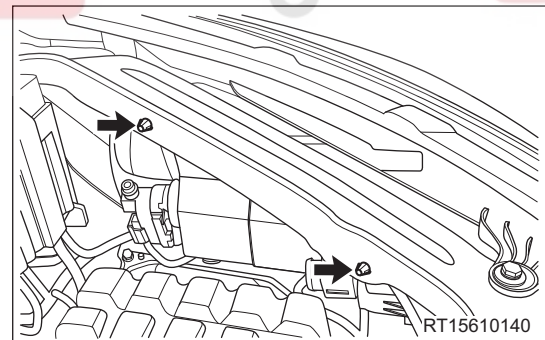
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing hood cable assembly.
- Try to prevent interior and body paint surface from being scratched, when removing hood cable assembly.

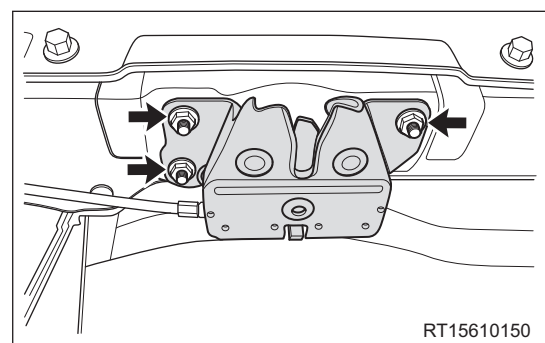
1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the front bumper assembly (See page 63-6).
4. Remove the engine hood lock assembly (See page 51-50).
5. Remove the A-pillar lower protector assembly (See page 64-18).
6. Remove the front windshield lower support assembly (See page 63-17).
7. Remove the engine hood cable assembly.
 - a. Disengage engine hood cable assembly (1) from engine hood grip drive block (2) in direction of arrow.



- b. Disengage engine hood cable assembly from fixing clips (arrow).

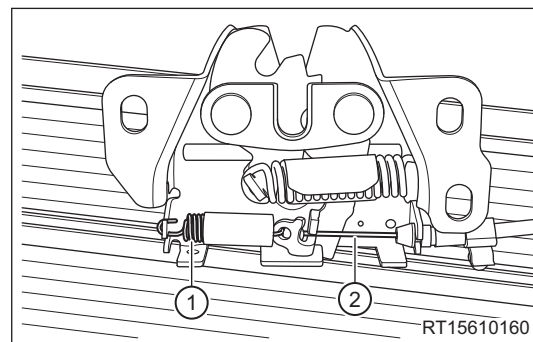


- c. Remove 3 fixing nuts (arrow) from engine hood lock. (Tightening torque: $10 \pm 1 \text{ N}\cdot\text{m}$)



62 - ENGINE HOOD/DOOR

- d. Remove engine hood cable return spring (1) and disengage engine hood cable from engine hood lock latch.



- e. Remove the engine hood cable assembly.

Installation

Installation is in the reverse order of removal.

CAUTION

- After installing hood cable assembly, make sure that hood can be opened smoothly without seizing.

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Front Door Inner Protector Assembly

Removal

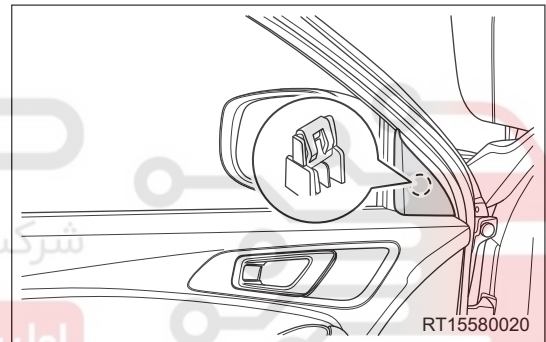
HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

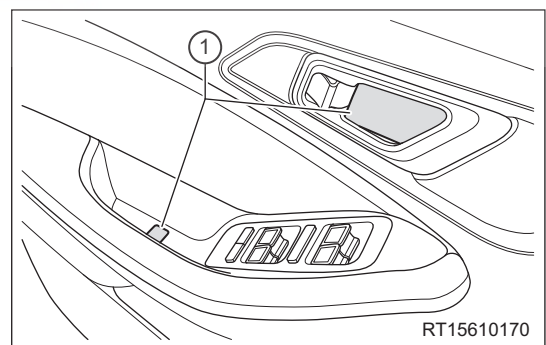
CAUTION

- Be sure to wear safety equipment to prevent accidents, when removing front door inner protector assembly.
- Try to prevent front door inner protector surface from being damaged, when removing front door inner protector assembly.

1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the left outside rear view mirror inner triangular block.
 - a. Using an interior crow plate, pry up clips from outside rear view mirror inner triangular block, and remove left outside rear view mirror inner triangular block.

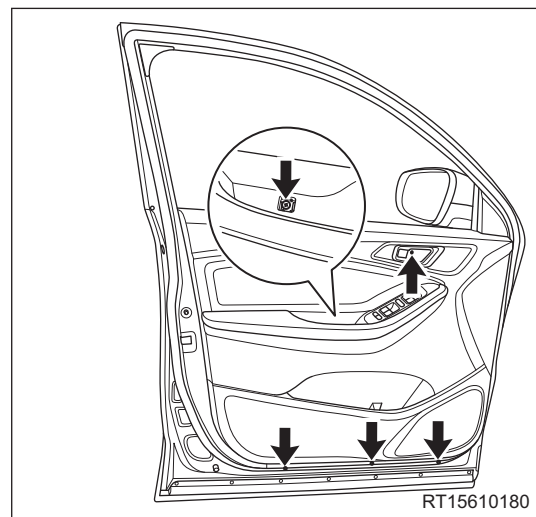


4. Remove the front left door inner protector assembly.
 - a. Using an interior crow plate, pry up the front left door inside screw block covers (1).

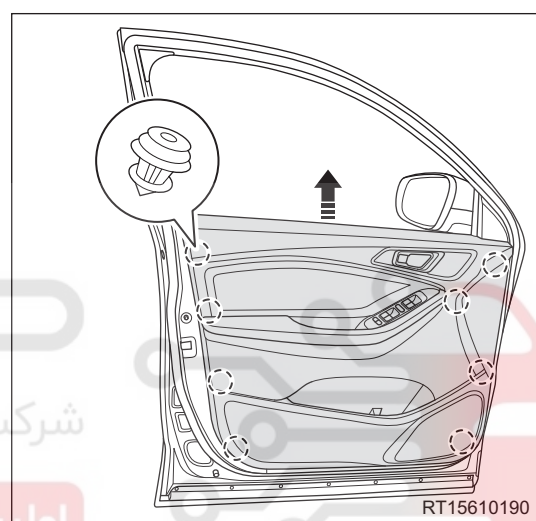


62 - ENGINE HOOD/DOOR

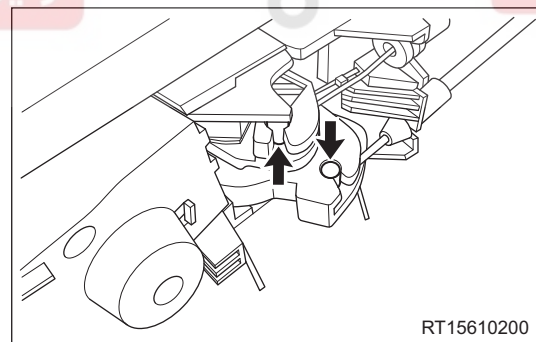
- b. Remove 5 fixing screws (arrow) from front door inner protector assembly.
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)



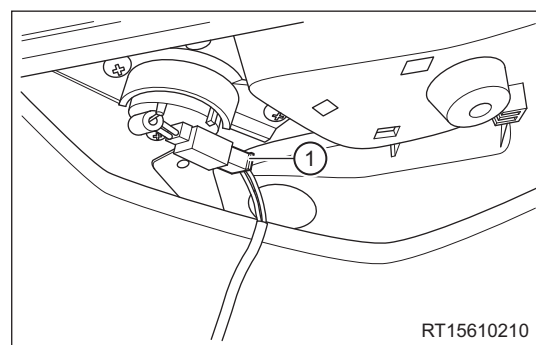
- c. Using an interior crow plate, pry up clips from front door inner protector assembly, and loosen front door inner protector assembly in direction of arrow as shown in illustration.



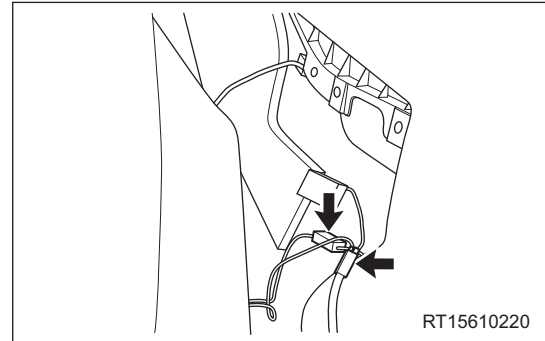
- d. Disengage front door inside handle cable (arrow) from front door inside handle.



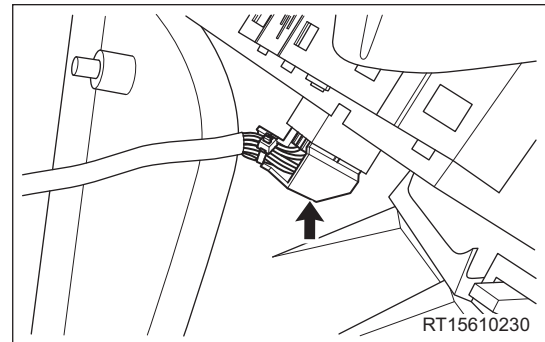
- e. Disconnect the tweeter connector (1).



- f. Disconnect scuff light wire harness connector and door open warning light wire harness connector (arrow).



- g. Disconnect the front door power glass regulator switch connector (arrow).

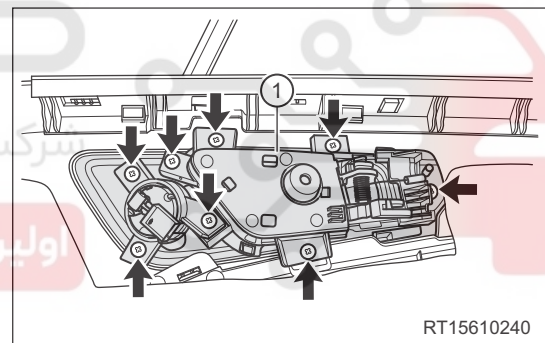


- h. Remove the front left door inner protector assembly.

5. Remove the front door inside handle.

- a. Remove 5 (arrow) fixing screws from front door inside handle and 3 fixing screws (arrow) from tweeter. (Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)

- b. Using a screwdriver wrapped with protective tape, pry up claws from front door inside handle, and remove front door inside handle (1).



Installation

Installation is in the reverse order of removal.

CAUTION

- Replace damaged clips and install front door inner protector assembly in place, when installing front door inner protector assembly.
- Install connectors in place, when installing front door inner protector assembly.
- Check that each function can operate properly, after installing front door inner protector assembly.

Front Door Assembly

Removal

HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

CAUTION

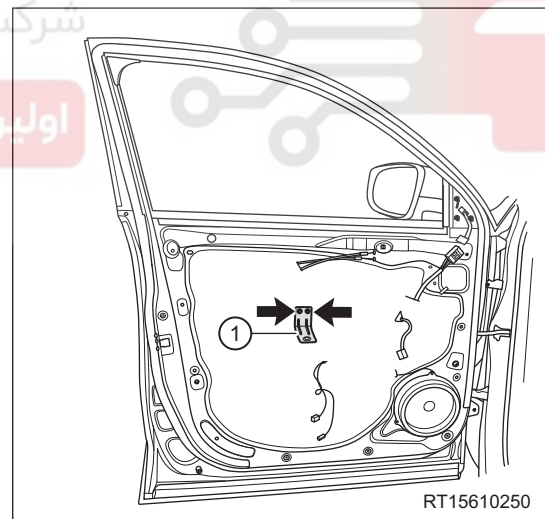
- Be sure to wear safety equipment to prevent accidents, when removing front door assembly.
- Try to prevent body paint surface from being scratched, when removing front door assembly.

WARNING

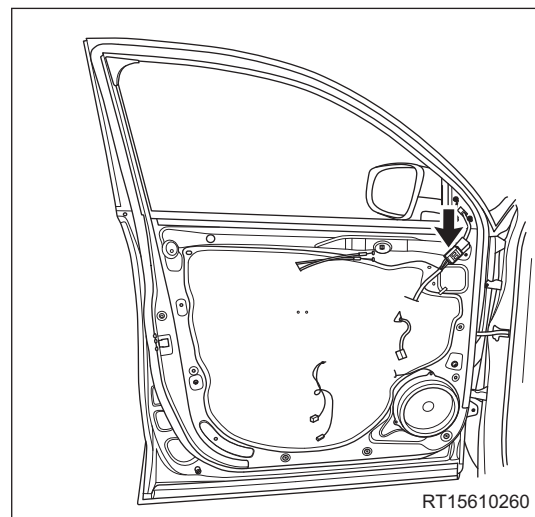
- When removing front door assembly, an assistant is needed to hold front door, to prevent it from dropping to cause accidents during operation.

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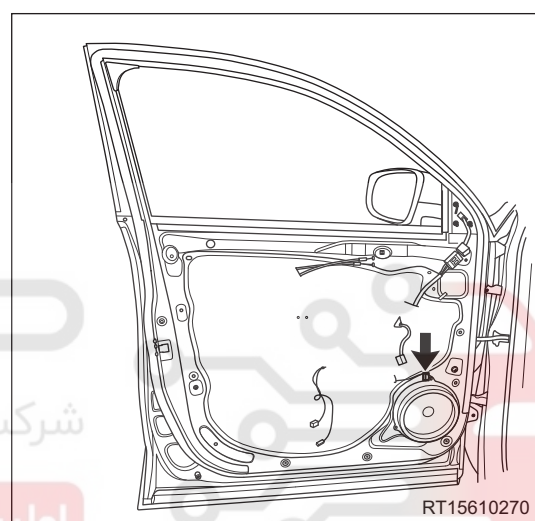
1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the front left door inner protector assembly (See page 62-19).
4. Remove the front left door protective film assembly.
 - a. Remove 2 fixing bolts (arrow) from front door metal bracket, and remove front left door metal bracket (1).
(Tightening torque: $5 \pm 1 \text{ N}\cdot\text{m}$)



- b. Disconnect left outside rear view mirror connector (arrow).

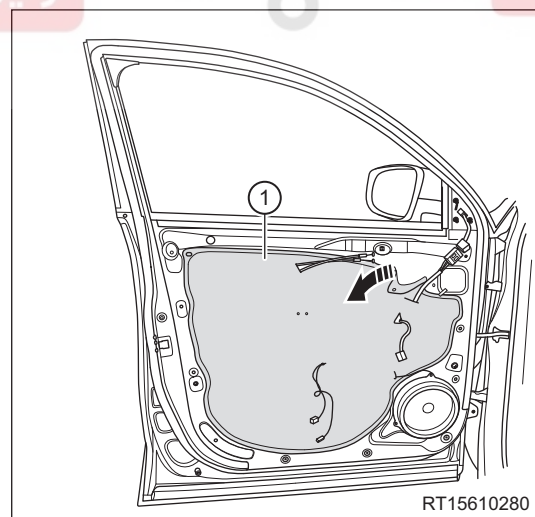


- c. Disconnect the full-range speaker connector (arrow).



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- d. As shown in illustration, remove front left door protective film assembly (1) by gently peeling it along edges from one corner of front left door protective film assembly.

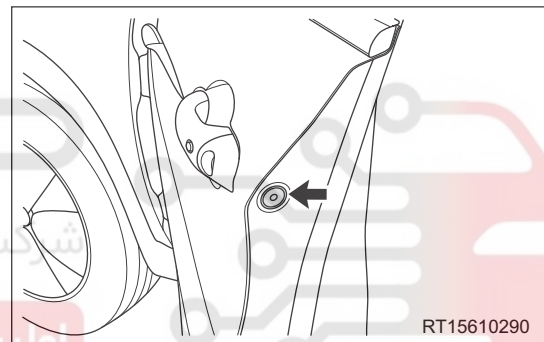


CAUTION

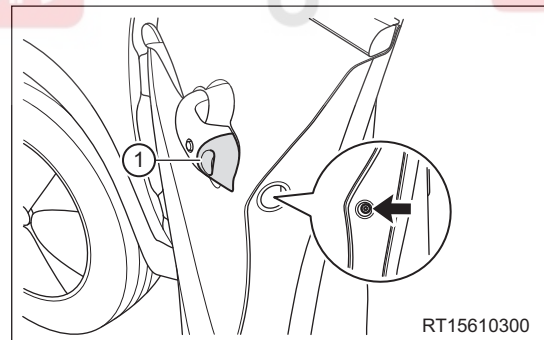
- Try to prevent front door protective film from being damaged, when removing front door protective film assembly.
- Place front door protective film assembly properly after removal, and prevent adhesive sticker on front door protective film assembly from sticking to other components.

5. Remove the front left door full-range speaker (See page 53-37).
6. Remove the front left door weather bar (See page 58-60).
7. Remove the front door power glass regulator (See page 58-65).
8. Remove the front door glass upper run (See page 58-62).
9. Remove the front door glass guide rail assembly (See page 58-64).
10. Remove the front door glass assembly (See page 58-63).
11. Remove the front left door lock assembly (See page 51-51).
12. Remove the front left door key cylinder assembly (See page 51-54).
13. Remove the front left door outside handle.

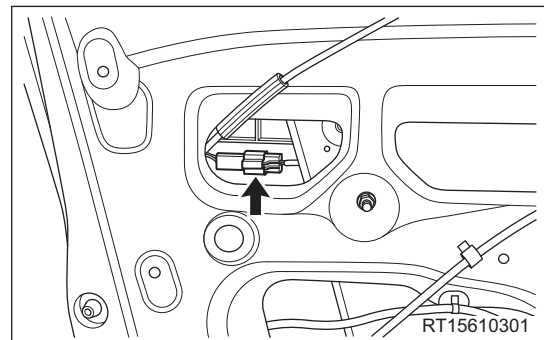
- a. Using an interior crow plate, pry up front left door lock block cover (arrow).



- b. Loosen a fixing screw (arrow) from front left door outside handle and remove key cylinder assembly (1). (Tightening torque: 5 ± 1 N·m)



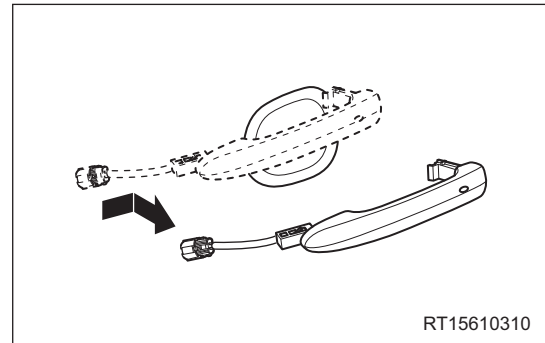
- c. Disconnect the front left door outside handle wire harness connector (arrow).



- d. Slide and pull front door outside handle in direction of arrow as shown in illustration to remove it.

HINT:

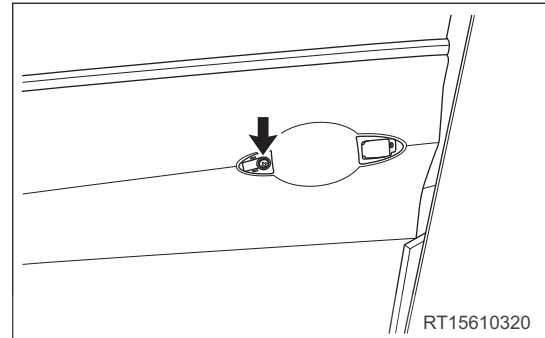
It is unnecessary to remove the fixing screw from front door outside handle cover, because the fixing screw is integrated with front door handle base.



14. Remove the front left door outside handle base assembly.

- a. Remove fixing screw (arrow) from front left door outside handle base assembly.

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

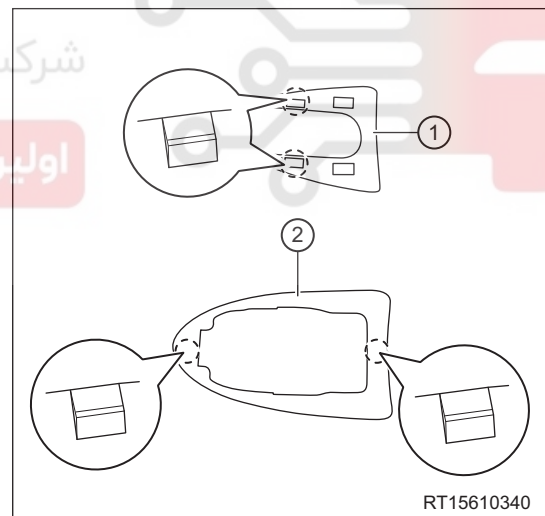


- b. Disengage clip from door lock connecting lever, and remove front left door outside handle base assembly.

15. Remove the front left door outside handle shim.

- a. Disengage claws from front left door outside handle front shim, and remove front left door outside handle front shim (1).

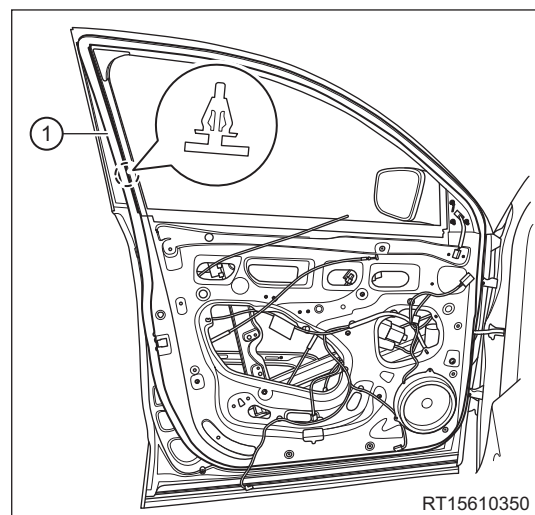
- b. Disengage claws from front left door outside handle rear shim, and remove front left door outside handle rear shim (2).



62 - ENGINE HOOD/DOOR

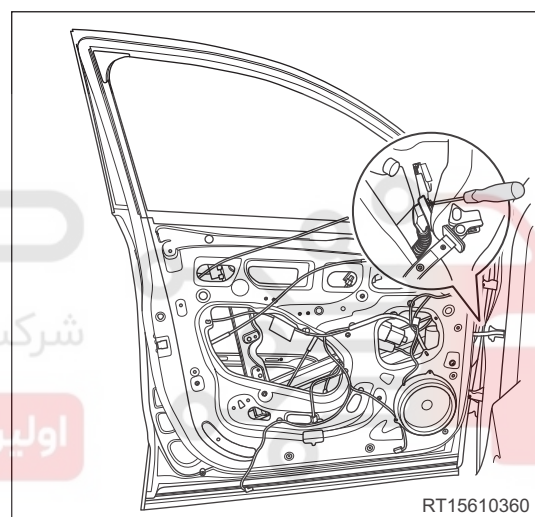
16. Remove the front left door frame weatherstrip.

- a. Disengage clips from front left door frame weatherstrip, and remove front left door frame weatherstrip (1).

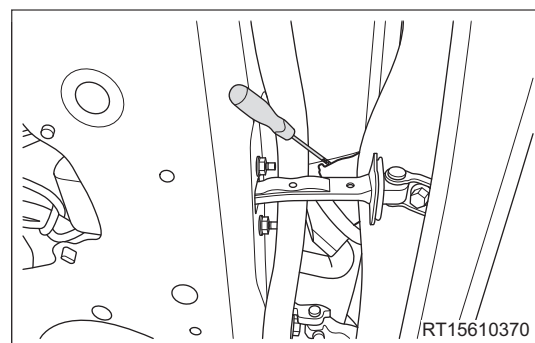


17. Disconnect the front left door wire harness connector.

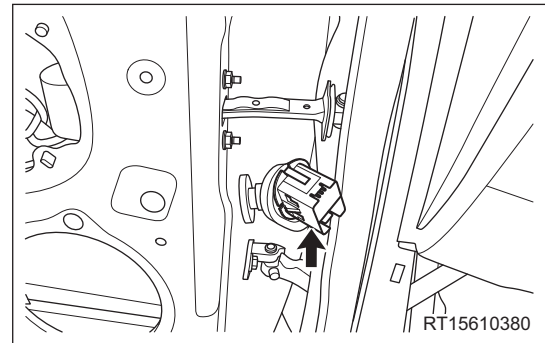
- a. Using a screwdriver wrapped with protective tape, pry up front door wire harness dust boot.



- b. Using a screwdriver wrapped with protective tape, pry up claw from front left door wire harness connector.

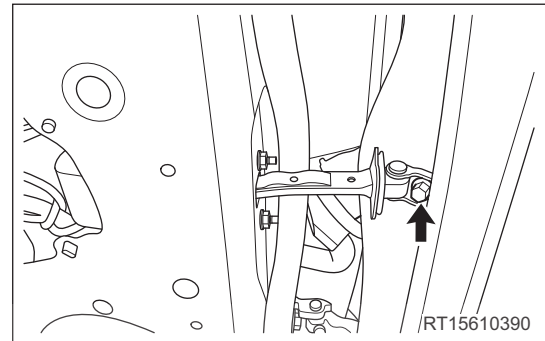


- c. Disconnect the front left door wire harness connector (arrow).

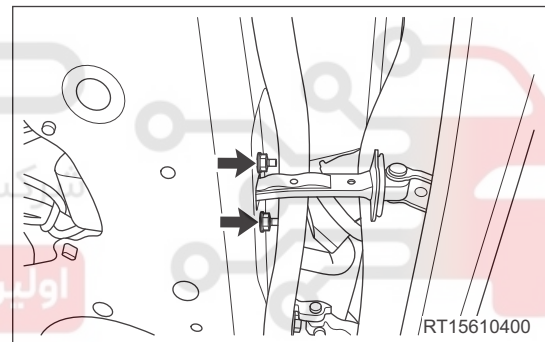


18. Remove the front left door check assembly.

- a. Remove coupling bolt (arrow) between door check and body.
(Tightening torque: 24 ± 2 N·m)



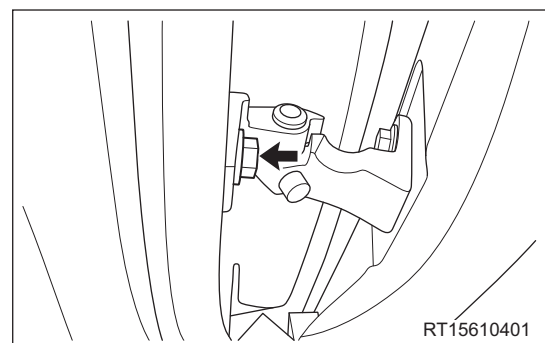
- b. Remove 2 nuts (arrow) between door check and front left door from interior of door assembly.
(Tightening torque: 9 ± 1 N·m)



- c. Remove the front left door check assembly.

19. Remove the front left door assembly.

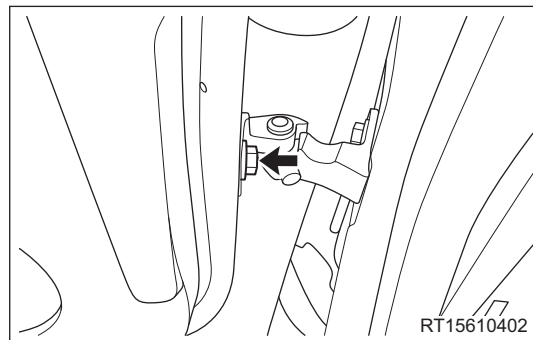
- a. Disconnect the front left door wire harness connector.
b. Remove the front left door check assembly.
c. Remove 1 fixing bolt (arrow) between door and upper hinge.
(Tightening torque: 55 ± 5 N·m)



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- d. Remove 1 fixing bolt (arrow) between door and lower hinge.

(Tightening torque: 55 ± 5 N·m)



- e. Remove the front left door assembly.

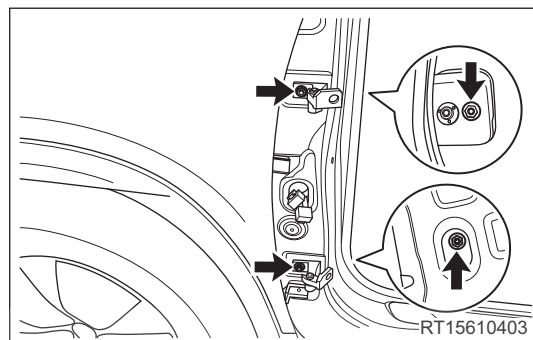
20. Remove the front left door hinge assembly.

- a. Remove 2 fixing bolts (arrow) between front door upper hinge assembly and quarter assembly.

(Tightening torque: 32 ± 3 N·m)

- b. Remove 2 fixing bolts (arrow) between front door lower hinge assembly and quarter assembly.

(Tightening torque: 32 ± 3 N·m)



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Installation

Installation is in the reverse order of removal.

CAUTION

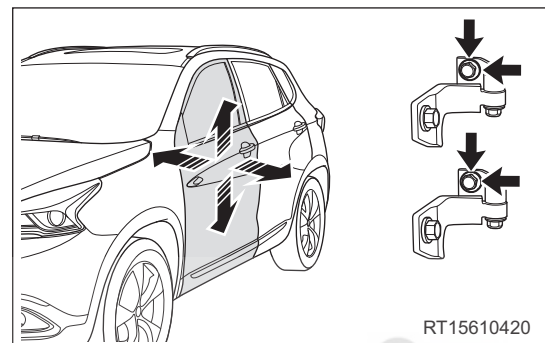
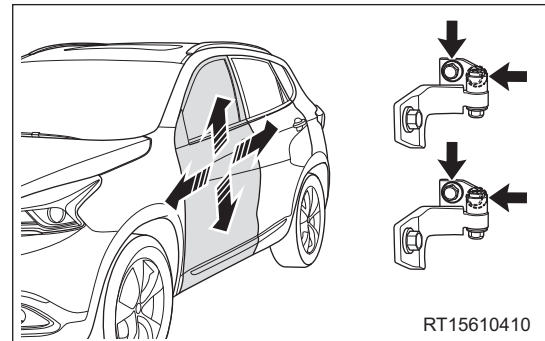
- Replace damaged clips when installing front door inner protector, and confirm that it is installed in place.
- Stick protective film in specified position, not in a wrong position or an asymmetric position between left and right sides or cover the mounting holes of other installation parts.
- DO NOT drag protective film when sticking. It should be installed under its original condition and ensure sheet metal is clean before assembly.
- Finished protective film should have no defects, such as wrinkles, bubbles or turnups.
- Finished protective film should have powerful adherence. Protective film sticking should be finished at one time. Avoid repeat sticking.

WARNING

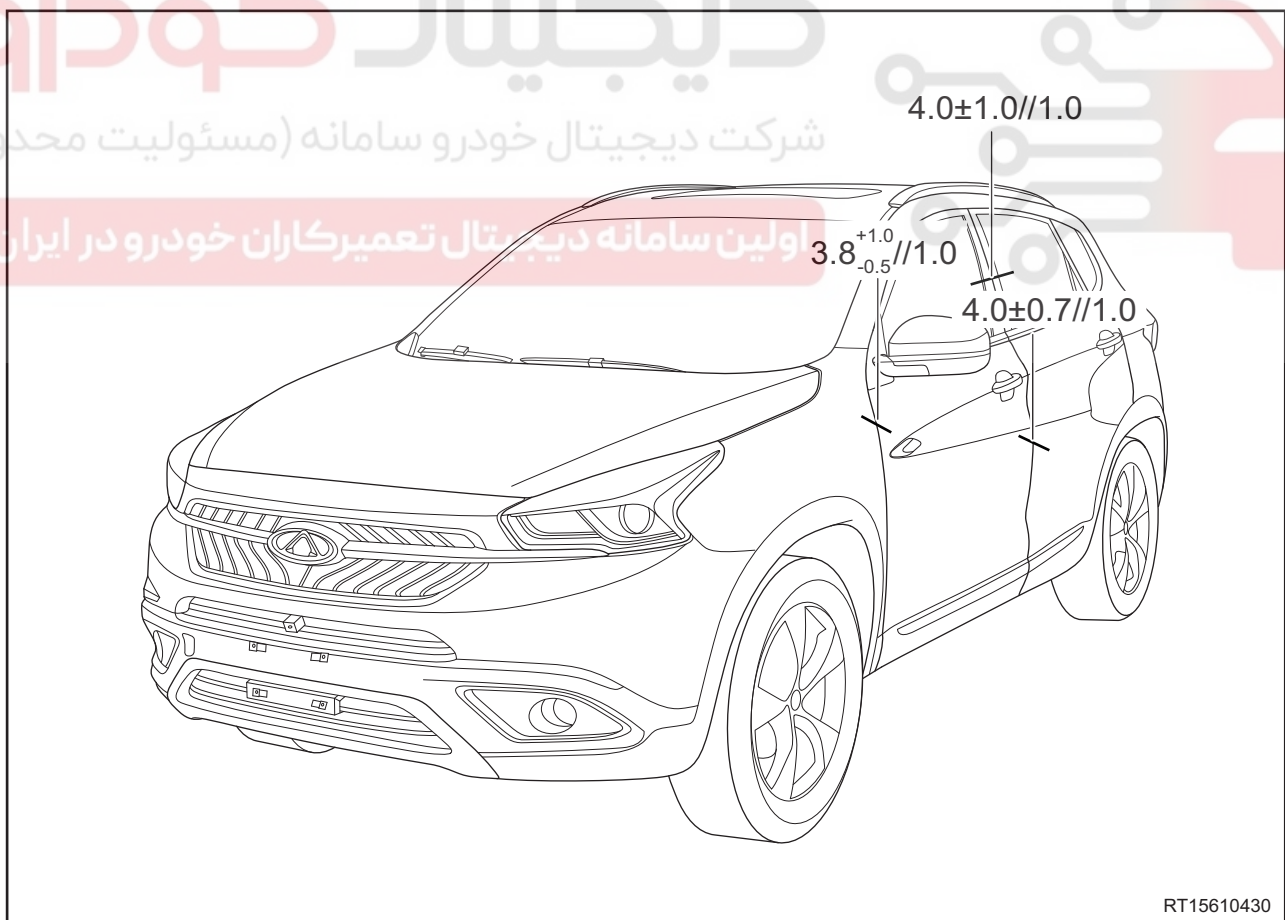
- Be sure to wear safety equipment to prevent accidents, when installing front door assembly.
- When installing front door assembly, an assistant is needed to hold front door, to prevent it from dropping to cause accidents during operation.

Adjustment

1. Adjust the front door assembly.
 - a. Loosen 4 fixing bolts from quarter of front door hinge assembly, and adjust front door assembly position in direction of arrow as shown in illustration.
 - b. Tighten fixing bolts on front door hinge assembly to specified torque after adjustment.
(Tightening torque: $32 \pm 3 \text{ N}\cdot\text{m}$)
 - c. Loosen 2 fixing bolts between front door hinge assembly and door, adjust front door assembly position in direction of arrow as shown in illustration.
 - d. Tighten fixing bolts on front door hinge assembly to specified torque after adjustment.
(Tightening torque: $55 \pm 5 \text{ N}\cdot\text{m}$)



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- e. Standard ranges of clearance between installation position of front door assembly and each part are as shown in illustration.

62 - ENGINE HOOD/DOOR

- f. After adjustment, make sure that alignment between front door assembly and rear door assembly is within the standard range.

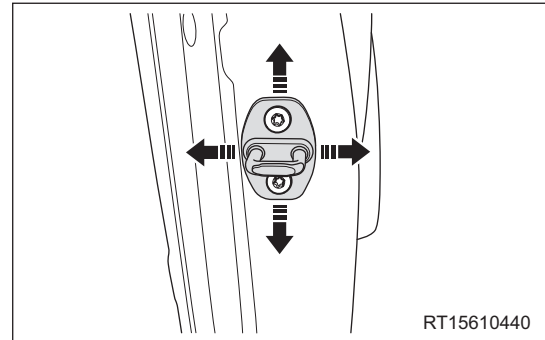
Standard alignment: $0^{+1.0}_{-0.5}$ mm.

- g. After adjustment, make sure alignment between front door assembly and wing assembly is within the standard range.

Standard alignment: $0^{+1.0}_{-0.5}$ mm.

2. Adjust the front door lock striker.

- a. Slightly loosen fixing bolts from front door lock striker and tap it with a plastic hammer in direction of arrow as shown in illustration to adjust lock striker position.



- b. Tighten fixing bolts on front door lock striker to specified torque after adjustment.

(Tightening torque: 23 ± 2 N·m)

Inspection

After front door assembly is adjusted, perform inspection as follows:

1. Check front door assembly for wear or deformation during installation, and repair as necessary.
2. Check if fixing bolts and fixing screws are assembled in position. Tighten them to specified torque as necessary.
3. Check if clearance and alignment between installation position of front door assembly and each part are within the specified range. Adjust as necessary.

Rear Door Inner Protector Assembly

Removal

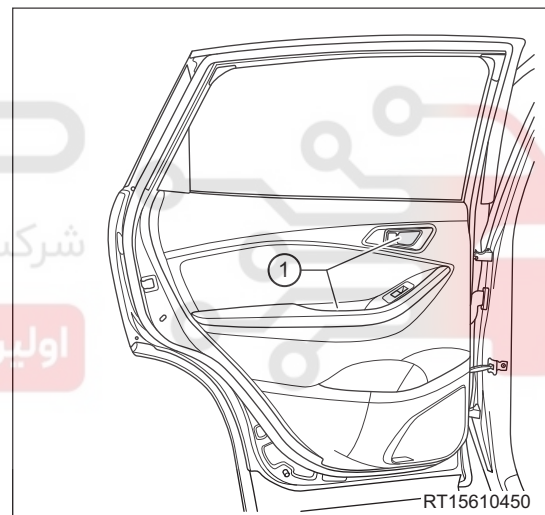
HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

CAUTION

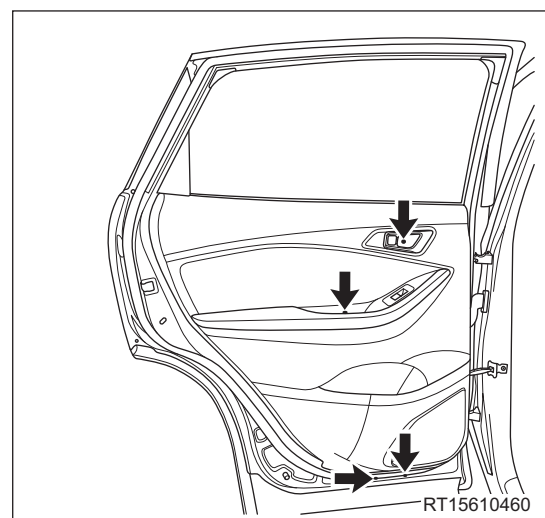
- Be sure to wear safety equipment to prevent accidents, when removing rear door inner protector assembly.
- Try to prevent rear door inner protector surface from being damaged, when removing rear door inner protector assembly

1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the rear left door inside screw block covers.
 - a. Using an interior crow plate, pry up the rear left door inner assist grip screw block cover and inside handle cover (1).



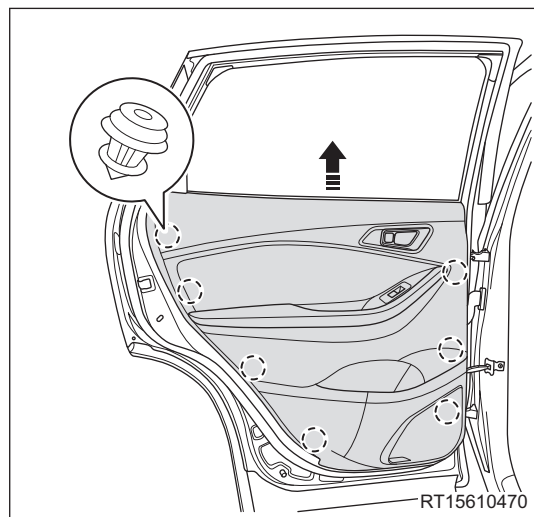
62

4. Remove the rear left door inner protector assembly.
 - a. Remove 4 fixing screws (arrow) from rear left door inner protector assembly.
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)

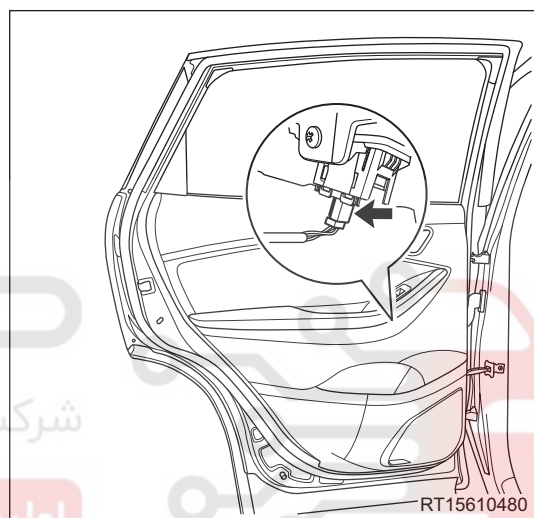


62 - ENGINE HOOD/DOOR

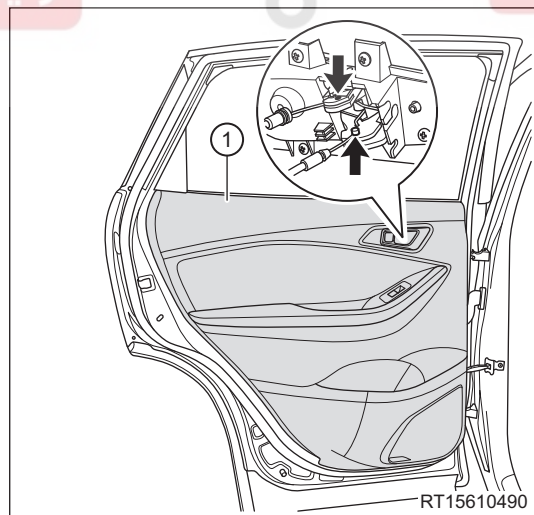
- b. Using an interior crow plate, pry up clips from rear left door inner protector assembly, and remove rear left door inner protector assembly in direction of arrow as shown in illustration.



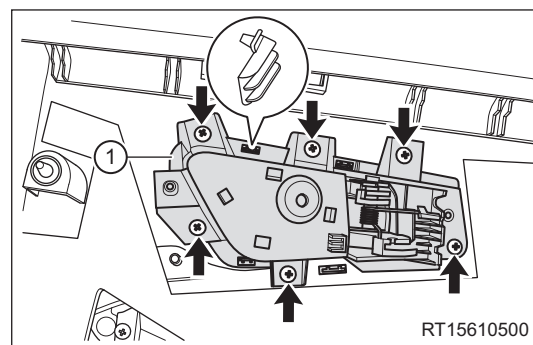
- c. Disconnect the rear door power glass regulator switch connector (arrow).



- d. Disengage handle cable (arrow) from rear door inside handle, and remove inner protector assembly (1).



5. Remove the rear door inside handle.
- Remove 6 fixing screws (arrow) from rear door inside handle.
(Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$)
 - Using an interior crow plate, pry up claws from rear door inside handle, and remove rear door inside handle.



Installation

Installation is in the reverse order of removal.

CAUTION

- Replace damaged clips and install rear door inner protector assembly in place, when installing rear door inner protector assembly.
- Check that inside handle assembly can be used normally, after installing rear door inner protector assembly.

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Rear Door Assembly

Removal

HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

CAUTION

- Be sure to wear necessary safety equipment to prevent accidents, when removing rear door assembly.
- Try to prevent rear door protector surface from being damaged, when removing rear door assembly.

WARNING

- When removing rear door assembly, an assistant is needed to hold rear door, to prevent it from dropping to cause accidents during operation.

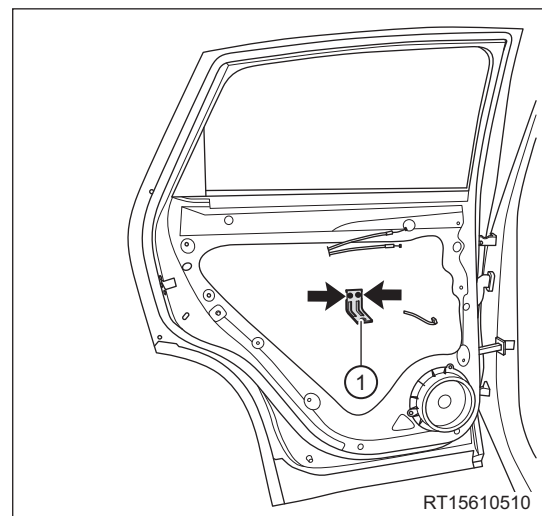
62

1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the rear left door inner protector assembly (See page 62-31).
4. Remove the rear left door protective film assembly.

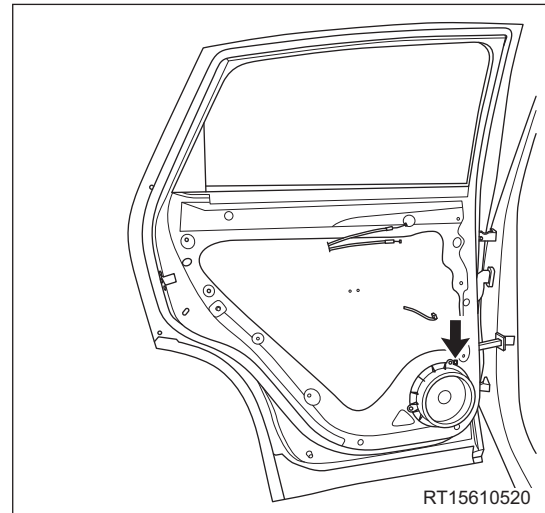
CAUTION

- Try to prevent rear door protective film from being damaged, when removing rear door protective film assembly.
- Place rear door protective film assembly properly after removal, and avoid adhesive sticker on rear door protective film assembly from sticking to other components.

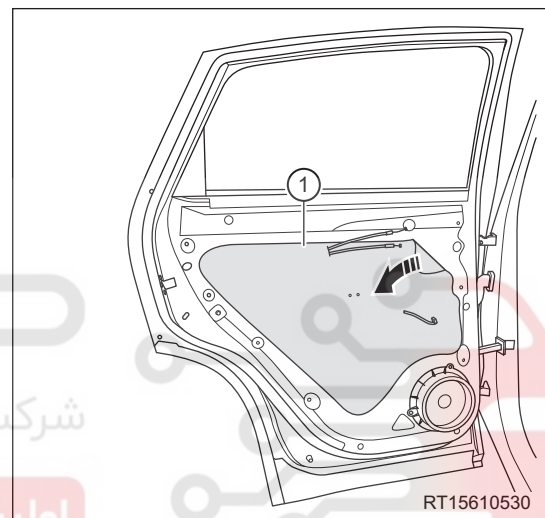
- a. Remove 2 fixing bolts (arrow) from rear door metal bracket, and remove rear left door metal bracket (1).
(Tightening torque: 5 ± 1 N·m)



- b. Disconnect the full-range speaker connector (arrow).



- c. As shown in illustration, remove rear left door protective film assembly (1) by gently peeling it along edges from one corner of rear left door protective film assembly.

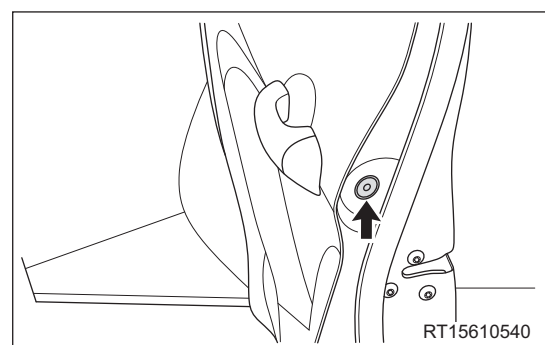


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دیجیتال خودرو
شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

5. Remove the rear left door full-range speaker (See page 53-37).
6. Remove the rear left door weather bar (See page 58-70).
7. Remove the rear door glass upper run (See page 58-72).
8. Remove the rear door glass guide rail assembly (See page 58-73).
9. Remove the rear door glass assembly (See page 58-73).
10. Remove the rear door triangular window glass (See page 58-89).
11. Remove the rear door power glass regulator (See page 58-75).
12. Remove the rear left door lock assembly (See page 51-57).
13. Remove the rear left door outside handle cover.

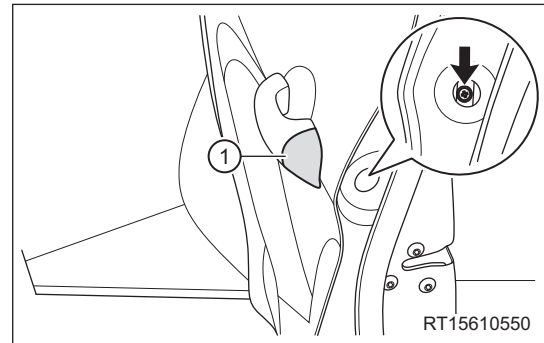
- a. Remove the rear door outside handle cover block cover (arrow).



62 - ENGINE HOOD/DOOR

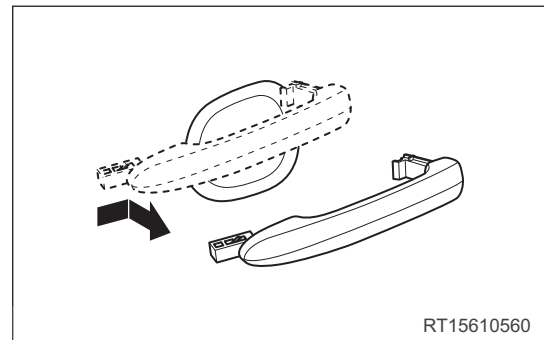
- b. Loosen 1 fixing screw (arrow) from rear door outside handle cover, and remove rear door outside handle cover (1).

(Tightening torque: 5 ± 1 N·m)



14. Remove the rear left door outside handle.

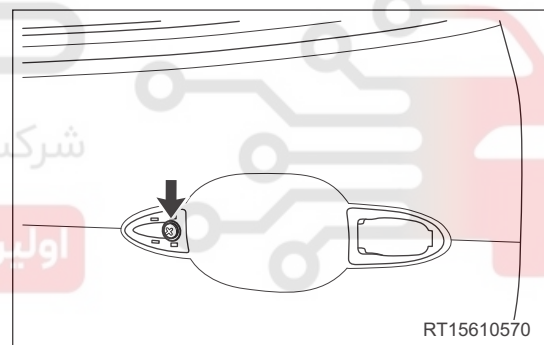
- a. Slide and pull rear left door outside handle in direction of arrow as shown in illustration to remove it.



15. Remove the rear left door outside handle base assembly.

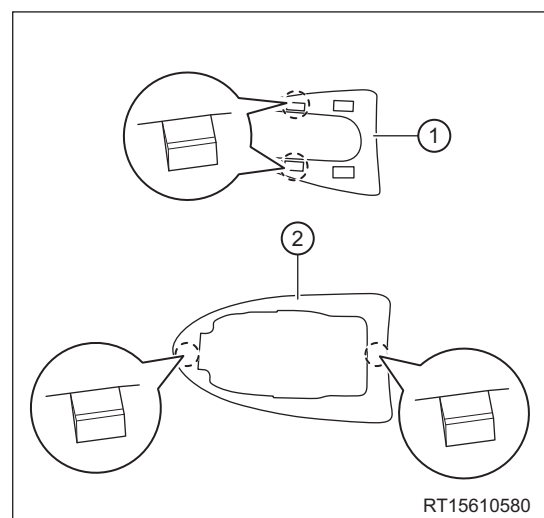
- a. Remove 1 fixing screw (arrow) from rear left door outside handle base assembly, and remove rear left door outside handle base assembly.

(Tightening torque: 1.5 ± 0.5 N·m)



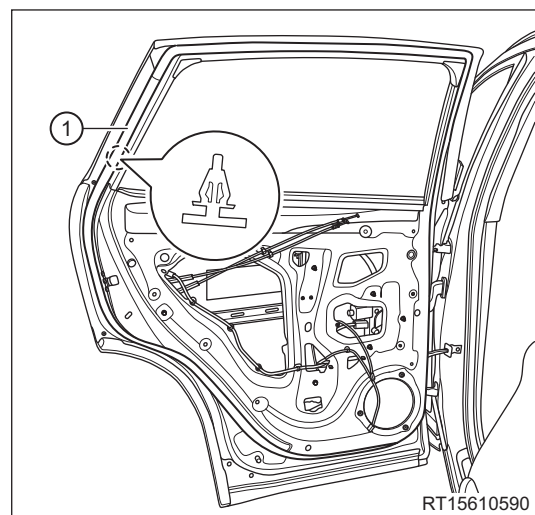
16. Remove the rear left door outside handle shim.

- a. Disengage claws from rear left door outside handle front shim, and remove rear left door outside handle front shim (1).
- b. Disengage claws from rear left door outside handle rear shim, and remove the rear left door outside handle rear shim (2).



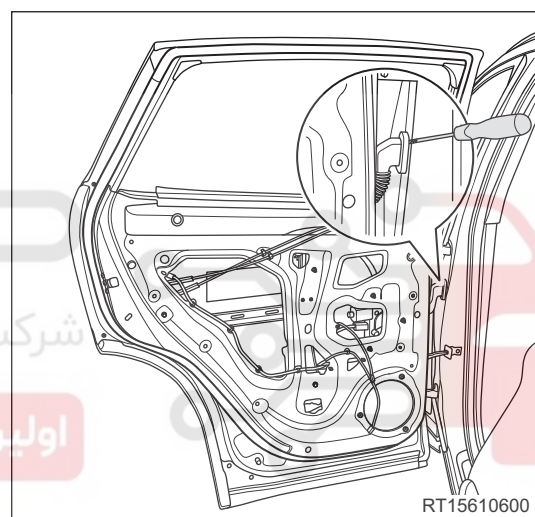
17. Remove the rear left door frame weatherstrip.

- a. Disengage clips from rear left door frame weatherstrip, and remove rear left door frame weatherstrip (1).

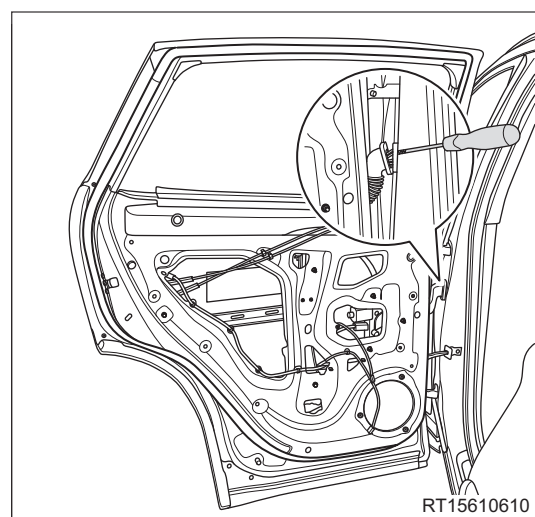


18. Disconnect the rear left door connector.

- a. Using an interior crow plate, pry up rear door dust boot.

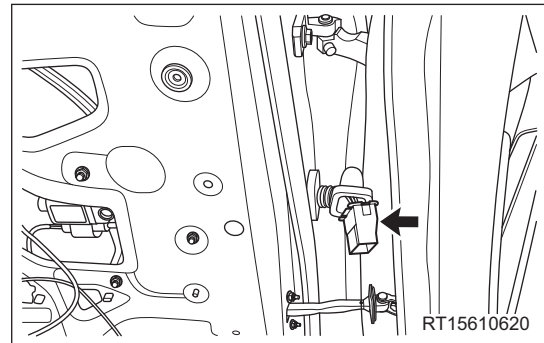


- b. Using an interior crow plate, pry up claw from connector.



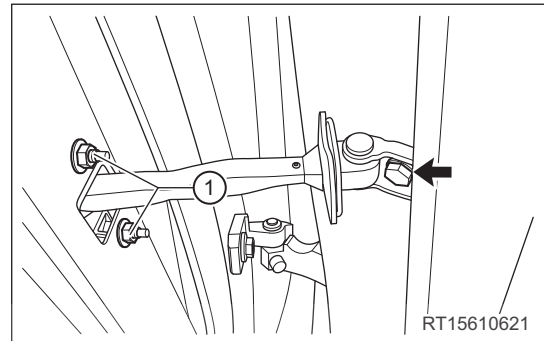
62 - ENGINE HOOD/DOOR

- c. Disconnect the rear left door wire harness connector (arrow).



19. Remove the rear left door check.

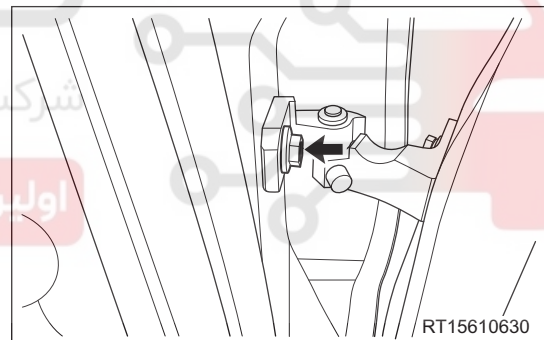
- a. Remove coupling bolt (arrow) between door check and body
(Tightening torque: 24 ± 2 N·m)
- b. Remove 2 coupling nuts (1) between door check and rear left door.



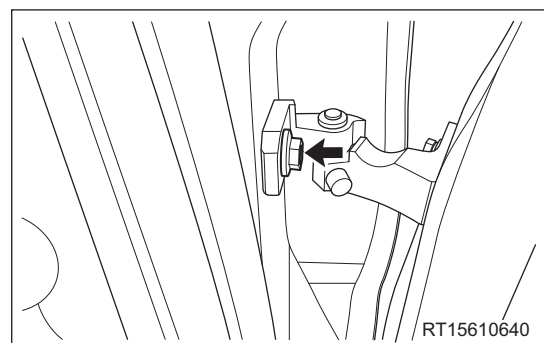
- c. Remove the check assembly.

20. Remove the rear left door assembly.

- a. Remove 1 fixing bolt (arrow) between rear door upper hinge assembly and rear door assembly.
(Tightening torque: 55 ± 5 N·m)

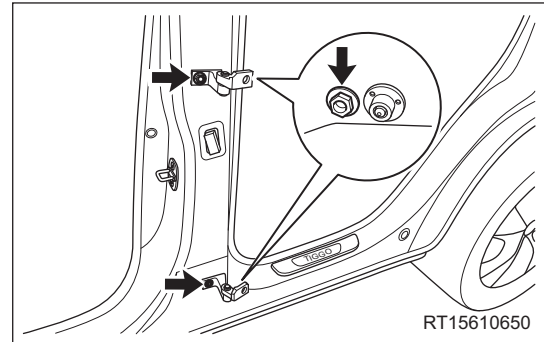


- b. Remove 1 fixing bolt (arrow) between rear door lower hinge assembly and rear door assembly.
(Tightening torque: 55 ± 5 N·m)



21. Remove the rear left door hinge assembly.

- a. Remove 2 fixing bolts (arrow) between rear door upper hinge assembly and quarter.
(Tightening torque: 32 ± 3 N·m)



- b. Remove 2 fixing bolts (arrow) between rear door lower hinge assembly and quarter.
(Tightening torque: 32 ± 3 N·m)
- c. Remove the rear left door hinge assembly.

Installation

Installation is in the reverse order of removal.

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CAUTION

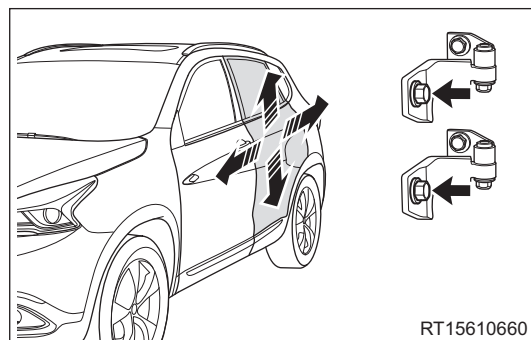
- Replace damaged clips and install rear door inner protector in place, when installing rear door inner protector.
- Stick protective film in specified position, not in a wrong position or an asymmetric position between left and right sides or cover the mounting holes of other installation parts.
- DO NOT drag protective film when sticking. It should be installed under its original condition and ensure sheet metal is clean before installation.
- Finished protective film should have no defects, such as wrinkles, bubbles or turnups.
- Finished protective film should have powerful adherence. Protective film sticking should be finished at one time. Avoid repeat sticking.

WARNING

- Be sure to wear safety equipment to prevent accidents, when installing rear door assembly.
- When installing rear door assembly, an assistant is needed to hold rear door, to prevent it from dropping to cause accidents during operation.

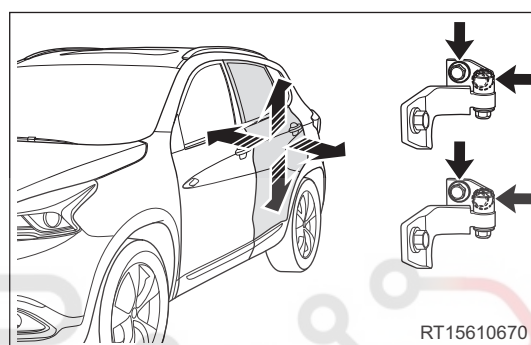
Adjustment

1. Adjust the rear door assembly.
 - a. Loosen 2 fixing bolts between rear door hinge assembly and door, adjust the rear door assembly position in direction of arrow as shown in illustration.

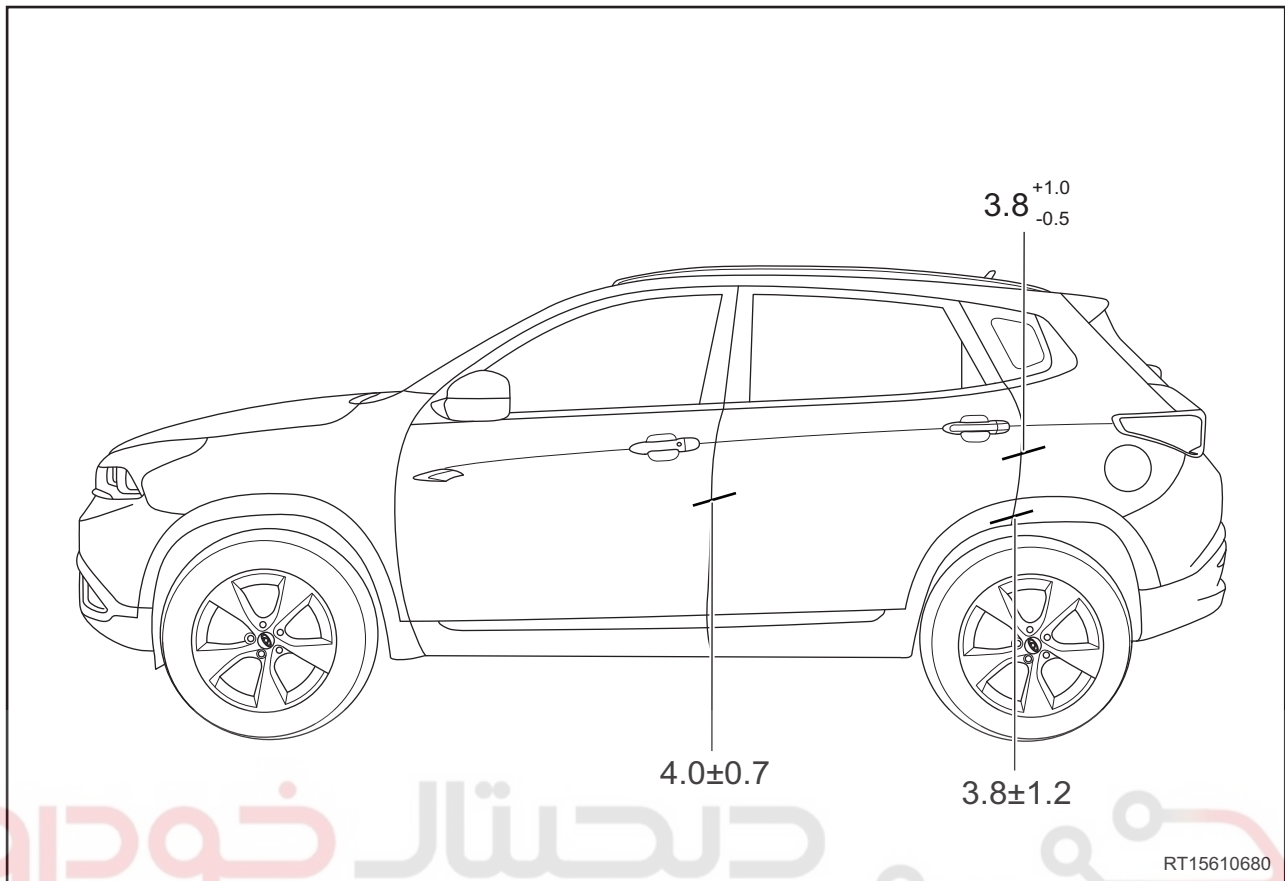


- b. Tighten fixing bolts on rear door hinge assembly to specified torque after adjustment.
(Tightening torque: 55 ± 5 N·m)

- c. Loosen 4 fixing bolts between rear door hinge assembly and quarter, adjust rear door assembly position in direction of arrow as shown in illustration.



- d. Tighten fixing bolts on rear door hinge assembly to specified torque after adjustment.
(Tightening torque: 32 ± 3 N·m)



e. Standard ranges of clearance between installation position of rear door assembly and each part are as shown in illustration.

f. After adjustment, make sure that alignment between rear door assembly and front door assembly within the standard range.

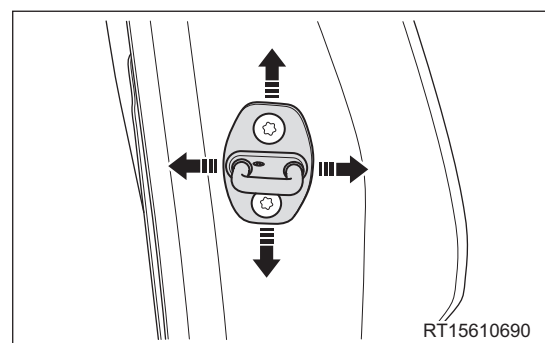
Standard alignment: $0^{+1.0}_{-0.5}$

g. After adjustment, make sure that alignment between rear door assembly and body outer panel is within the standard range.

Standard alignment: $0^{+1.0}_{-0.5}$

2. Adjust the rear left door lock striker assembly.

a. Slightly loosen fixing bolts from rear door lock striker and tap it with a plastic hammer in direction of arrow to adjust the lock striker position.



b. Tighten fixing bolts on rear door lock striker assembly to specified torque after adjustment.

(Tightening torque: $23 \pm 2 \text{ N}\cdot\text{m}$)

Inspection

After rear left door assembly is adjusted, perform inspection as follows:

1. Check rear door assembly for wear or deformation during installation, and repair as necessary.
2. Check if fixing bolts and fixing screws are assembled in position. Tighten them to specified torque as necessary.
3. Check if clearance and alignment between installation position of rear door assembly and each part are within the specified range. Adjust as necessary.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



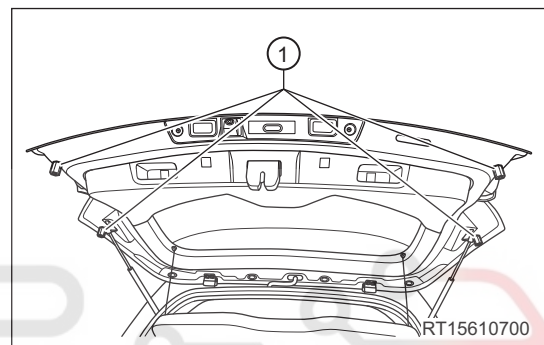
Luggage Compartment Door Protector Assembly

Removal

CAUTION

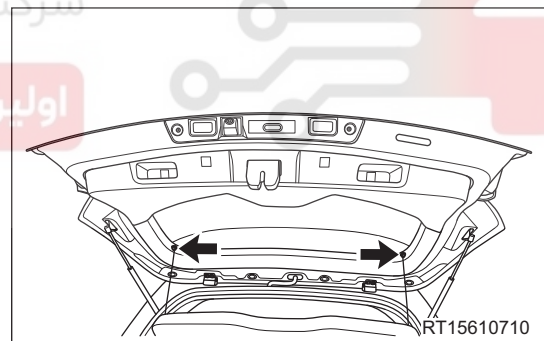
- Be sure to wear safety equipment when removing luggage compartment door protector assembly.
- Try to prevent body paint surface from being scratched when removing luggage compartment door protector assembly.

1. Turn off all the electrical equipment and engine switch.
2. Disconnect the negative battery cable.
3. Remove the luggage compartment door adjustment buffer block.
 - a. Rotate counterclockwise and remove 4 luggage compartment door adjustment buffer blocks (1).

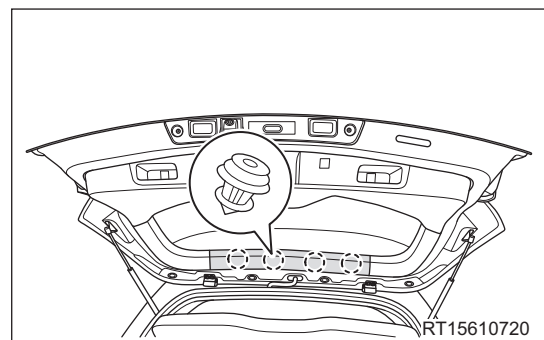


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4. Remove the luggage compartment door upper trim panel assembly.
 - a. Remove adjustment ropes (arrow) from tonneau cover.



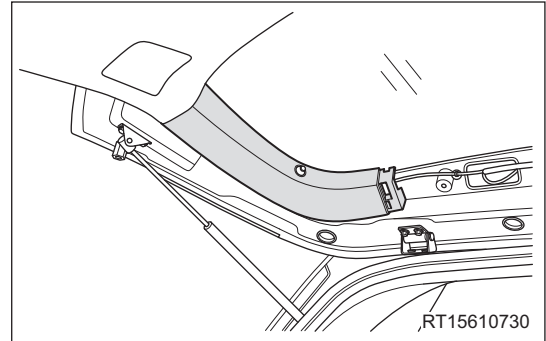
- b. Using a screwdriver wrapped with protective tape, pry off plastic clips from luggage compartment door upper protector assembly.



- c. Remove the luggage compartment door upper trim panel assembly.

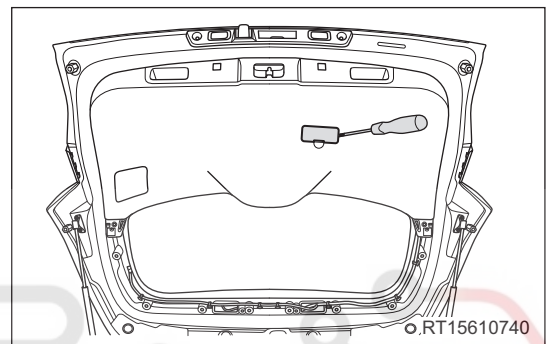
62 - ENGINE HOOD/DOOR

5. Remove the luggage compartment door left protector assembly (take left side as an example).



- a. Using a screwdriver wrapped with protective tape, pry off plastic clips from luggage compartment door upper protector assembly.
 - b. Remove the luggage compartment door left trim panel assembly.
6. Remove the luggage compartment door mechanical opener trim cover.

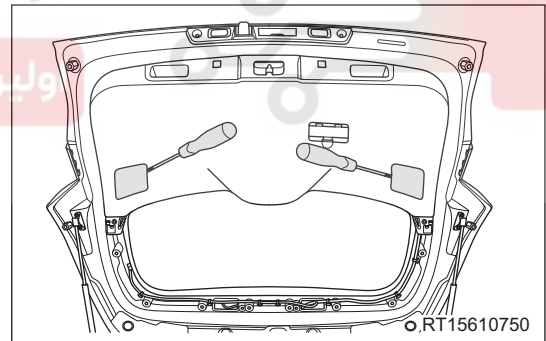
- a. Using a screwdriver wrapped with protective tape, pry off claw from luggage compartment door mechanical opener trim cover.



- b. Remove the luggage compartment door mechanical opener trim cover.

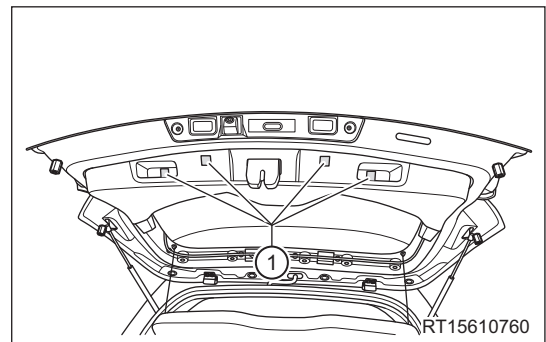
7. Remove left and right position light service covers.

- a. Using a screwdriver wrapped with protective tape, pry off claws from left and right position light service covers.
- b. Remove left and right position light service covers.

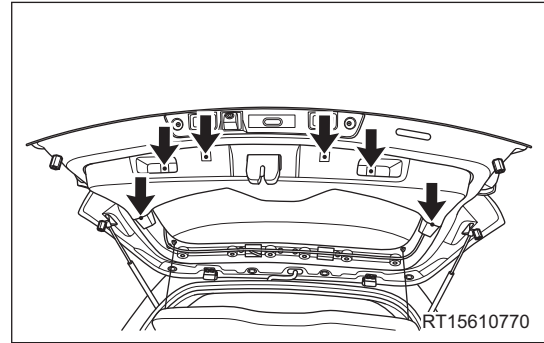


8. Remove the luggage compartment door lower protector assembly.

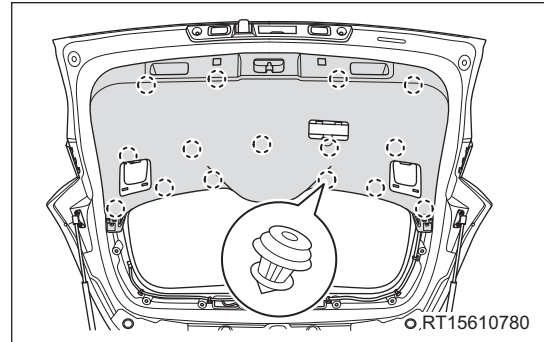
- a. Using a screwdriver wrapped with protective tape, pry off trim covers (1) from luggage compartment door lower protector assembly.



- b. Remove fixing screws from luggage compartment door lower protector assembly.
(Tightening torque: $4.5 \pm 0.5 \text{ N}\cdot\text{m}$)



- c. Using a screwdriver wrapped with protective tape, pry off claws from luggage compartment door lower protector assembly.

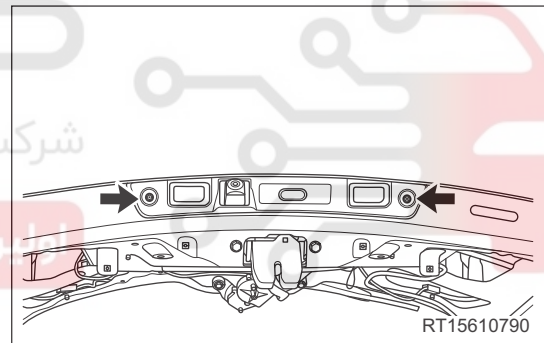


62

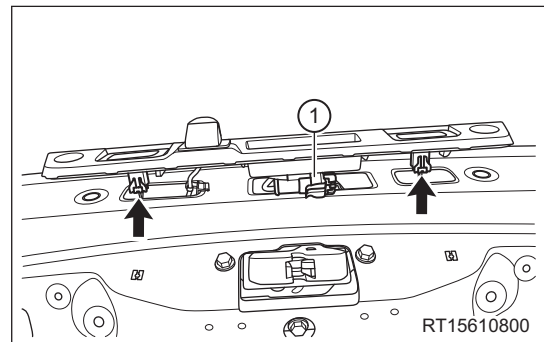
- d. Remove the luggage compartment door lower protector assembly.

9. Remove the license plate light assembly.

- a. Remove 2 fixing screws (arrow) from license plate light protector assembly.

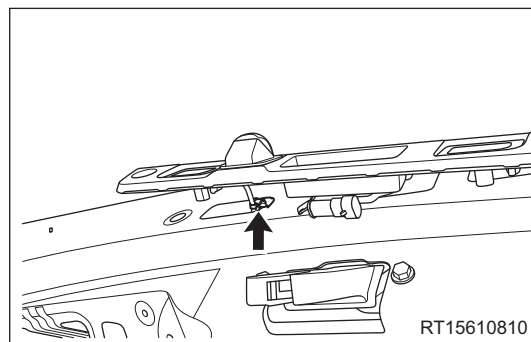


- b. Remove left and right license plate light assembly connectors (arrow) and luggage compartment door switch connector (1).

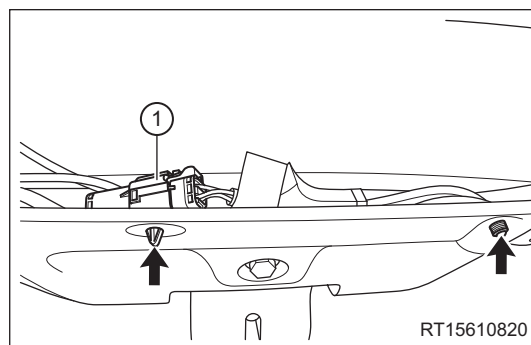


62 - ENGINE HOOD/DOOR

- c. Using a screwdriver wrapped with protective tape, pry off claw (arrow) from luggage compartment door switch wire harness.



- d. Using a screwdriver wrapped with protective tape, pry off 2 fixing claws (arrow) from luggage compartment door switch wire harness, and disconnect license plate light wire harness connector (1).



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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 luggage compartment door protector assembly.
- Try to prevent body paint surface from being scratched when installing luggage compartment door protector assembly.

Luggage Compartment Door Assembly

Removal

CAUTION

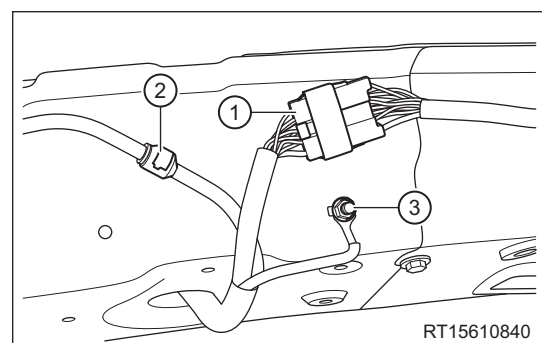
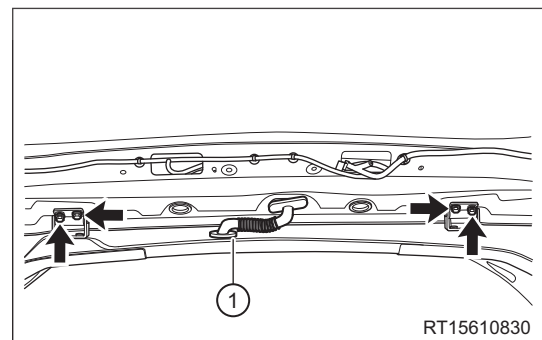
- Be sure to wear safety equipment, when removing luggage compartment door assembly.
- Try to prevent body paint surface from being scratched, when removing luggage compartment door assembly.

WARNING

- When removing luggage compartment door assembly, an assistant is needed to hold luggage compartment door, to prevent it from dropping or suddenly closing to cause accidents during operation.

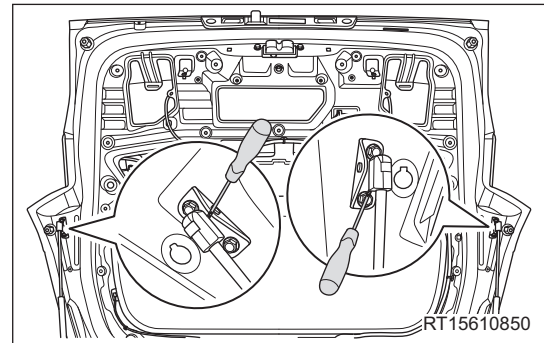
62

1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the luggage compartment door protector assembly (See page 62-43).
4. Remove the luggage compartment door wiper arm (See page 50-25).
5. Remove the luggage compartment door wiper motor assembly (See page 50-27).
6. Remove the luggage compartment door wiper washer nozzle (See page 50-29).
7. Remove rear combination light (See page 49-89).
8. Remove the luggage compartment door switch assembly (See page 62-52).
9. Remove the luggage compartment door opening weatherstrip (See page 64-16).
10. Remove the roof assembly (See page 64-29).
11. Remove the luggage compartment door assembly.
 - a. Remove 4 fixing bolts (arrow) from luggage compartment door left and right hinges.
(Tightening torque: $23 \pm 2 \text{ N}\cdot\text{m}$)
 - b. Using an interior crow plate, pry up luggage compartment door wire harness dust boot (1).
 - c. Disconnect connector (1) from luggage compartment door wire harness assembly and joint (2) from luggage compartment door wiper pipe, and remove fixing nut (3) from luggage compartment door wire harness ground.



62 - ENGINE HOOD/DOOR

- d. Using a screwdriver wrapped with protective tape, pry up fixing clips from upper part of luggage compartment door left and right air springs.

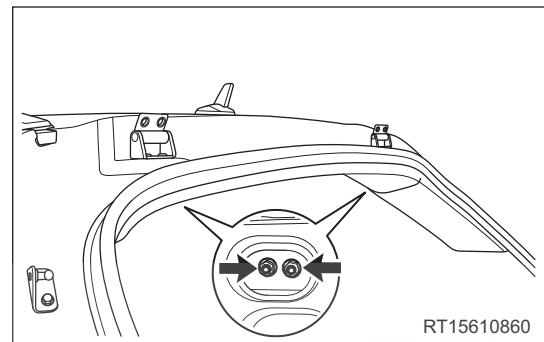


- e. Remove the luggage compartment door assembly.

12. Remove the luggage compartment door hinge assembly.

- a. Remove 4 fixing bolts (arrow) from luggage compartment door hinge.

(Tightening torque: 23 ± 2 N·m)



- b. Remove the luggage compartment door hinge assembly.

Installation

Installation is in the reverse order of removal.

⚠ WARNING

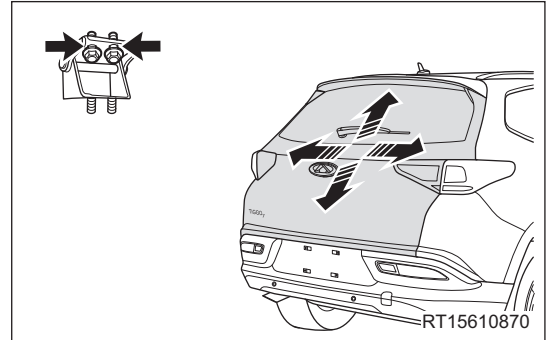
- When removing luggage compartment door hinge assembly, an assistant is needed to hold luggage compartment door, to prevent it from dropping or suddenly closing to cause accidents during operation.

👁 CAUTION

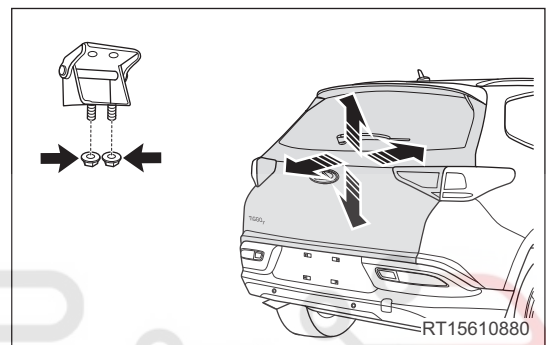
- Be sure to wear safety equipment to prevent accidents, when installing luggage compartment door assembly.
- Try to prevent body paint surface from being scratched, when installing luggage compartment door switch assembly.

Adjustment

1. Adjust the luggage compartment door assembly.
 - a. Loosen fixing bolts from luggage compartment door assembly and adjust luggage compartment door assembly position in direction of arrow as shown in illustration.



- b. Tighten fixing bolts on luggage compartment door assembly to specified torque after adjustment.
(Tightening torque: 23 ± 2 N·m)
 - c. Loosen fixing bolts from luggage compartment door assembly and adjust luggage compartment door assembly position in direction of arrow as shown in illustration.

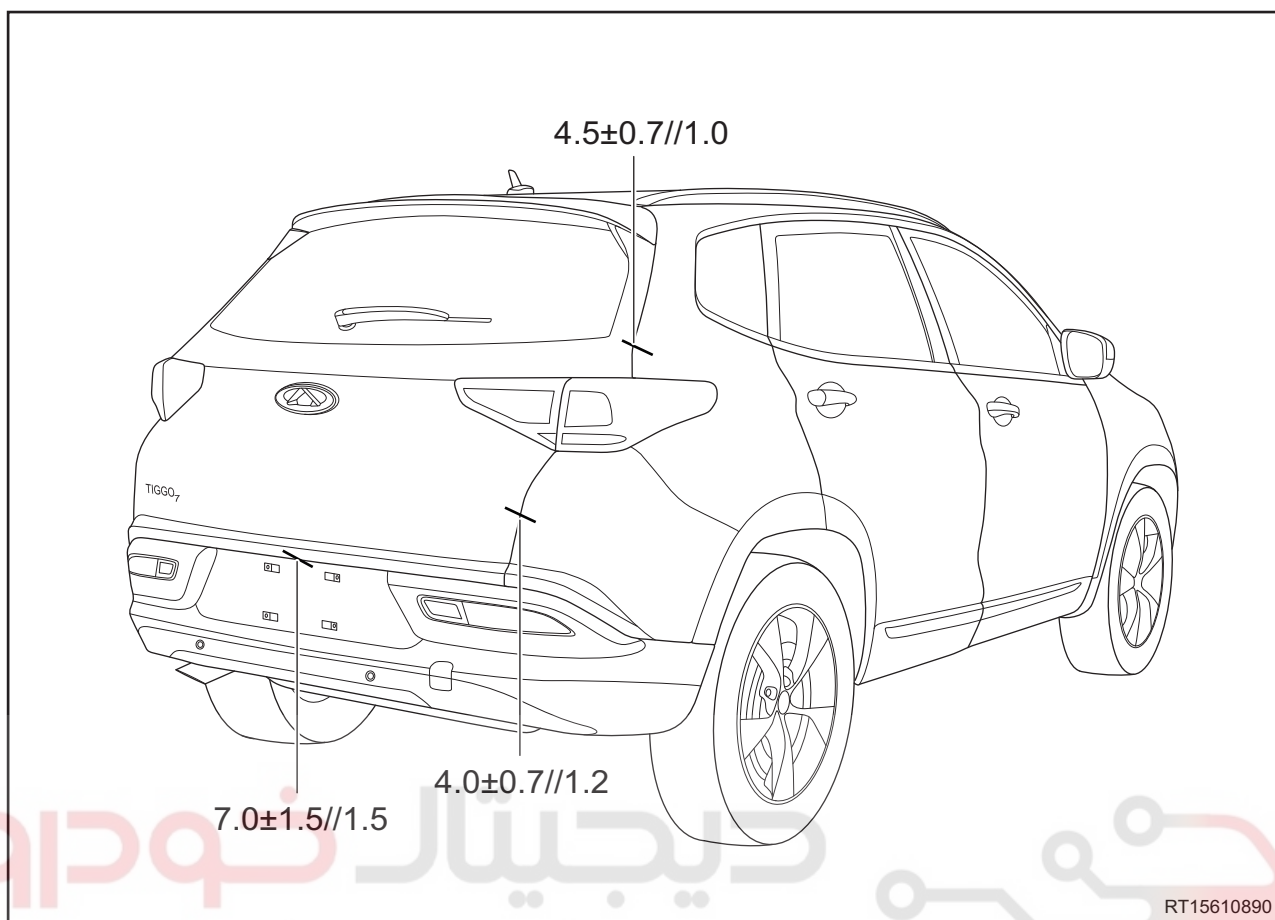


62

- d. Tighten fixing bolts on luggage compartment door assembly to specified torque after adjustment.
(Tightening torque: 23 ± 2 N·m)

دیجیتال خودرو
شرکت دیجیتال خودرو (با مسئولیت محدود)

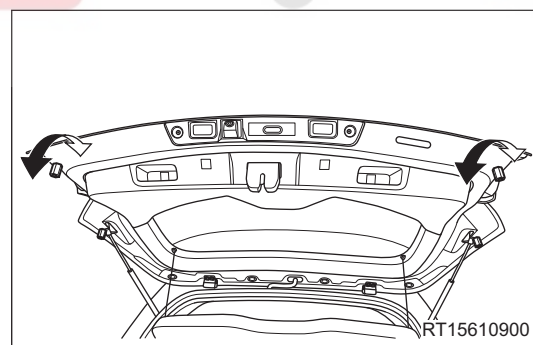
اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

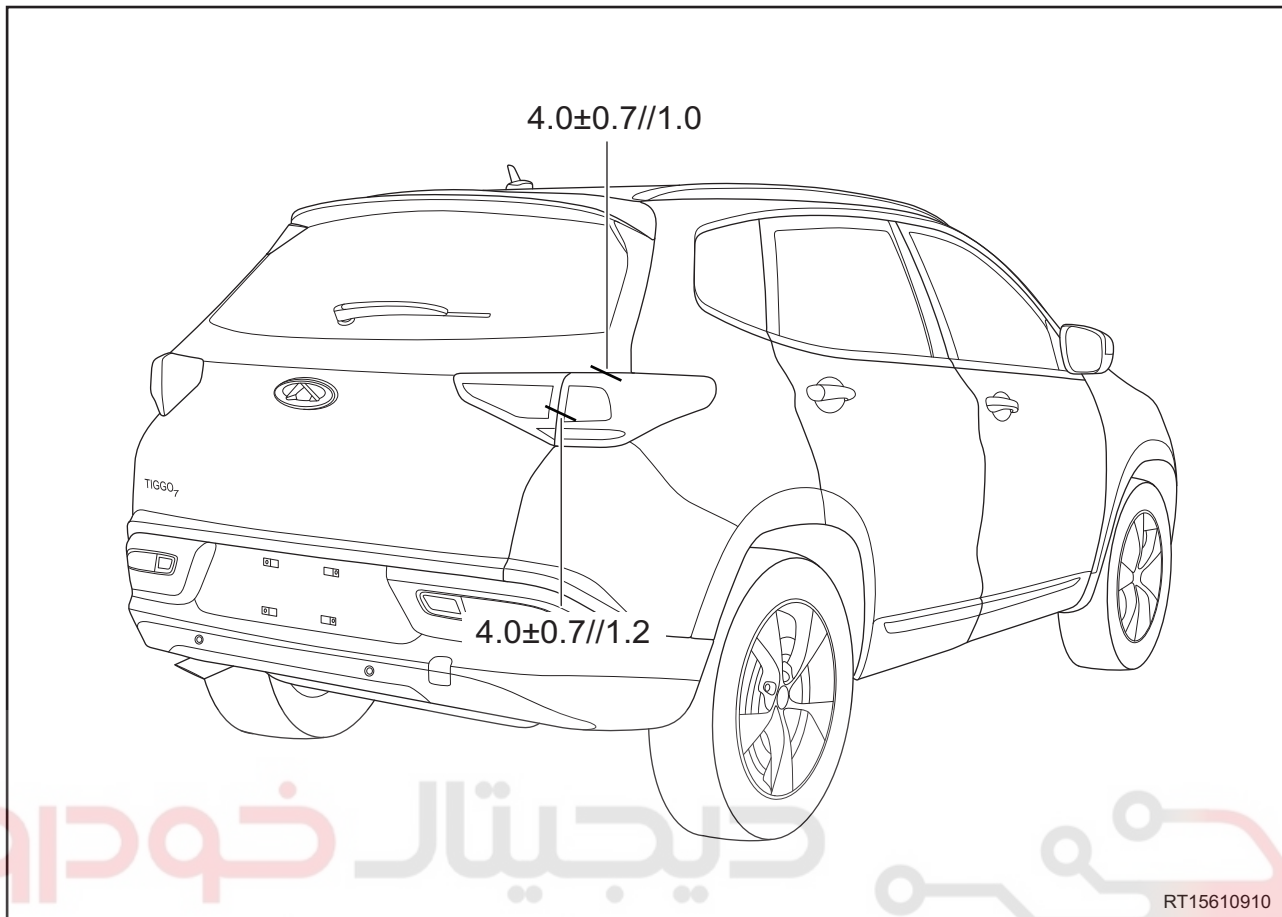


e. Standard ranges of clearance between installation position of luggage compartment door assembly and each part are as shown in illustration.

2. Adjust height of luggage compartment door assembly with luggage compartment door assembly adjustable buffer block.

a. Lower or raise luggage compartment door assembly by rotating luggage compartment adjustment blocks clockwise or counterclockwise.

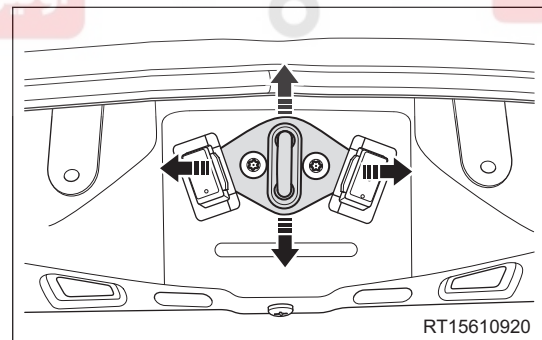




b. After adjustment, make sure that standard clearance and alignment between luggage compartment door assembly and rear combination light (movable part) are as shown in illustration.

3. Adjust the luggage compartment door assembly.

a. Slightly loosen fixing screws from luggage compartment door lock striker assembly and tap it with a plastic hammer in direction of arrow as shown in illustration to adjust luggage compartment door assembly position.



b. Tighten fixing screws on luggage compartment door lock striker assembly to specified torque after adjustment.

(Tightening torque: $23 \pm 2 \text{ N}\cdot\text{m}$)

Inspection

After luggage compartment door assembly is adjusted, perform inspection as follows:

1. Check luggage compartment door for wear or deformation during installation, and repair as necessary.
2. Check if fixing bolts are assembled in position. Tighten them to specified torque as necessary.
3. Check if clearance and alignment between installation position of luggage compartment door assembly and each part are within the specified range. Adjust as necessary.

Luggage Compartment Door Switch Assembly

Removal

CAUTION

- Be sure to wear safety equipment to prevent accidents, when installing luggage compartment door switch assembly.
- Try to prevent body paint surface from being scratched, when installing luggage compartment door switch assembly.

1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the luggage compartment door switch assembly.
 - a. Remove luggage compartment door switch assembly in the same way as the license plate light protector assembly.

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Installation

Installation is in the reverse order of removal.

CAUTION

- Install connector in place, after installing luggage compartment door opener switch assembly.
- Check that luggage compartment door opener switch assembly functions properly after installation.

Luggage Compartment Door Air Spring Assembly

Removal

HINT:

- Use same procedures for right and left sides.
- Procedures listed below are for left side.

CAUTION

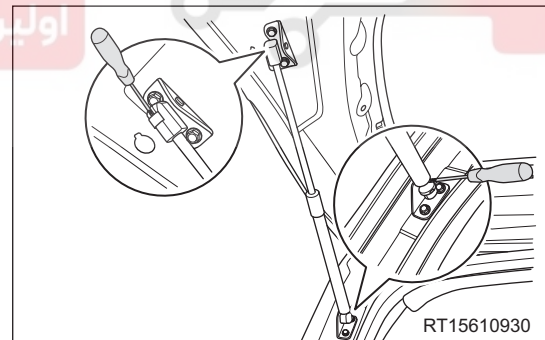
- Be sure to wear necessary safety equipment to prevent accidents, when removing luggage compartment door air spring assembly.
- Try to prevent body paint surface from being scratched, when installing luggage compartment door air spring assembly.

WARNING

- When removing luggage compartment door air spring assembly, an assistant is needed to hold luggage compartment door, to prevent it from dropping or suddenly closing to cause accidents during operation.

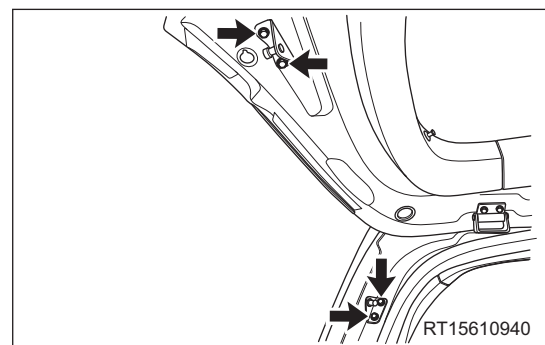
62

1. Turn off all electrical equipment and the engine switch.
2. Disconnect the negative battery cable.
3. Remove the luggage compartment door left air spring assembly.
 - a. Using a screwdriver wrapped with protective tape, pry up fixing clip from upper part of luggage compartment door air spring.
 - b. Using a screwdriver wrapped with protective tape, pry up fixing clip from lower part of luggage compartment door air spring and remove air spring assembly.



- c. Remove 4 fixing bolts (arrow) from left air spring upper and lower holders and remove left air spring upper and lower holders.

(Tightening torque: 22 ± 1 N·m)



Installation

Installation is in the reverse order of removal.

WARNING

- When removing luggage compartment door air spring assembly, an assistant is needed to hold luggage compartment door, to prevent it from dropping or suddenly closing to cause accidents during operation.

CAUTION

- Be sure to wear necessary safety equipment to prevent accidents, when removing luggage compartment door air spring assembly.
- When removing luggage compartment door air spring assembly, try to prevent luggage compartment door from dropping, otherwise, body or rear windshield may be damaged.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

