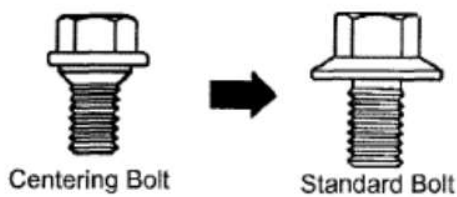


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2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD

2008 ACCESSORIES AND EQUIPMENT**Engine Hood/Door - xD****HOOD****ADJUSTMENT**

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Fig. 1: Identifying Centering And Standard Bolts

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

- Centering bolts are used to mount the hood hinge and hood lock. The hood and hood lock cannot be adjusted with the centering bolts in. Substitute standard bolts (with washers) for the centering bolts when making adjustments.
- For bolts without torque specifications, check the standard bolt chart (see **SPECIFIED TORQUE FOR STANDARD BOLTS**).

1. INSPECT HOOD

- a. Check that the clearance measurements are within the standard ranges.

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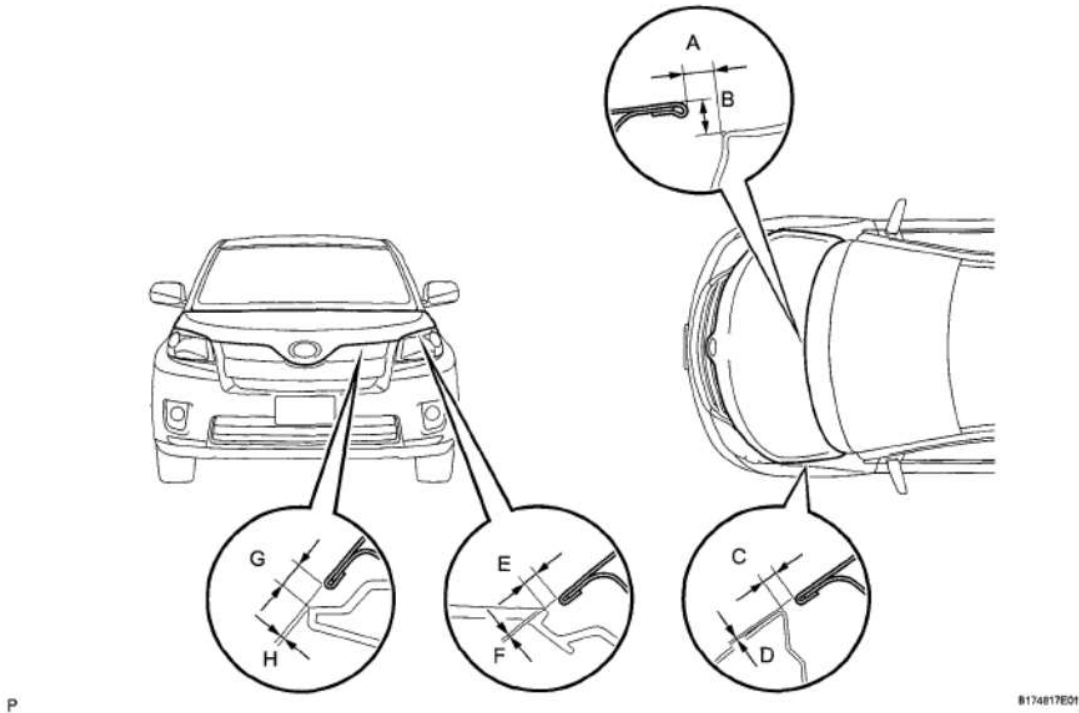


Fig. 2: Identifying Hood Clearance Area
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard

AREA MEASUREMENT CHART

Area	Measurement	Area	Measurement
A	6.6 to 12.6 mm (0.260 to 0.496 in.)	E	1.9 to 5.9 mm (0.075 to 0.232 in.)
B	7.4 to 13.4 mm (0.291 to 0.528 in.)	F	-1.3 to 2.7 mm (-0.051 to 0.106 in.)
C	2.3 to 5.3 mm (0.091 to 0.209 in.)	G	8.0 mm (0.315 in.)
D	-1.1 to 1.9 mm (-0.043 to 0.075 in.)	H	1.5 mm (0.059 in.)

2. ADJUST HOOD

- a. Loosen the 4 hood side hinge bolts.
- b. Move the hood to adjust the clearance to within the standard range.
- c. Tighten the 4 hood side hinge bolts after the adjustment.

Torque: 13 N*m (133 kgf*cm, 10 ft.*lbf)

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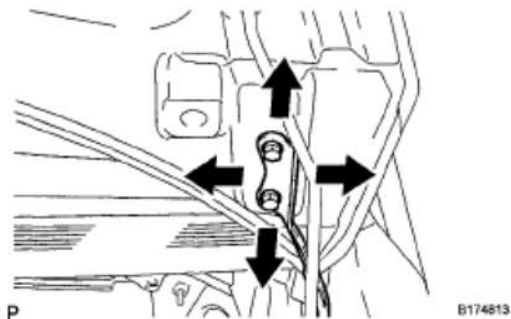


Fig. 3: Adjusting Hood Side Hinge

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Adjust the height of the hood front end by turning the cushion rubber.

HINT:

The cushion rubber can be raised and lowered by turning it.

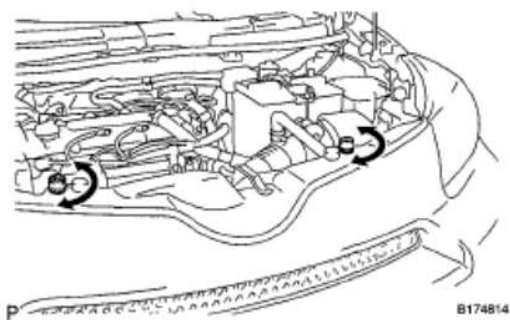


Fig. 4: Adjusting Height Of Hood Front End

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Adjust the hood lock.
 1. Loosen the 3 bolts.

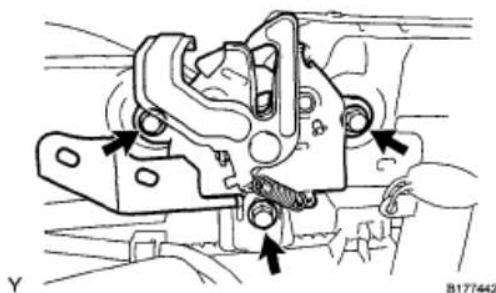


Fig. 5: Locating Hood Lock Bolts

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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2. Adjust the hood lock position so that the striker can enter it smoothly.

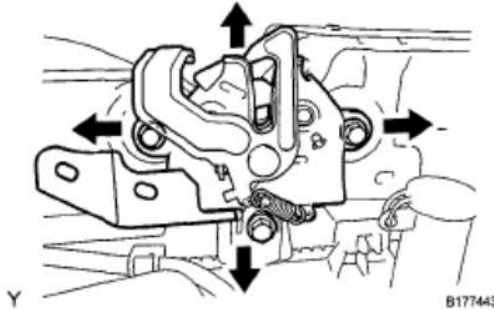


Fig. 6: Adjusting Hood Lock Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

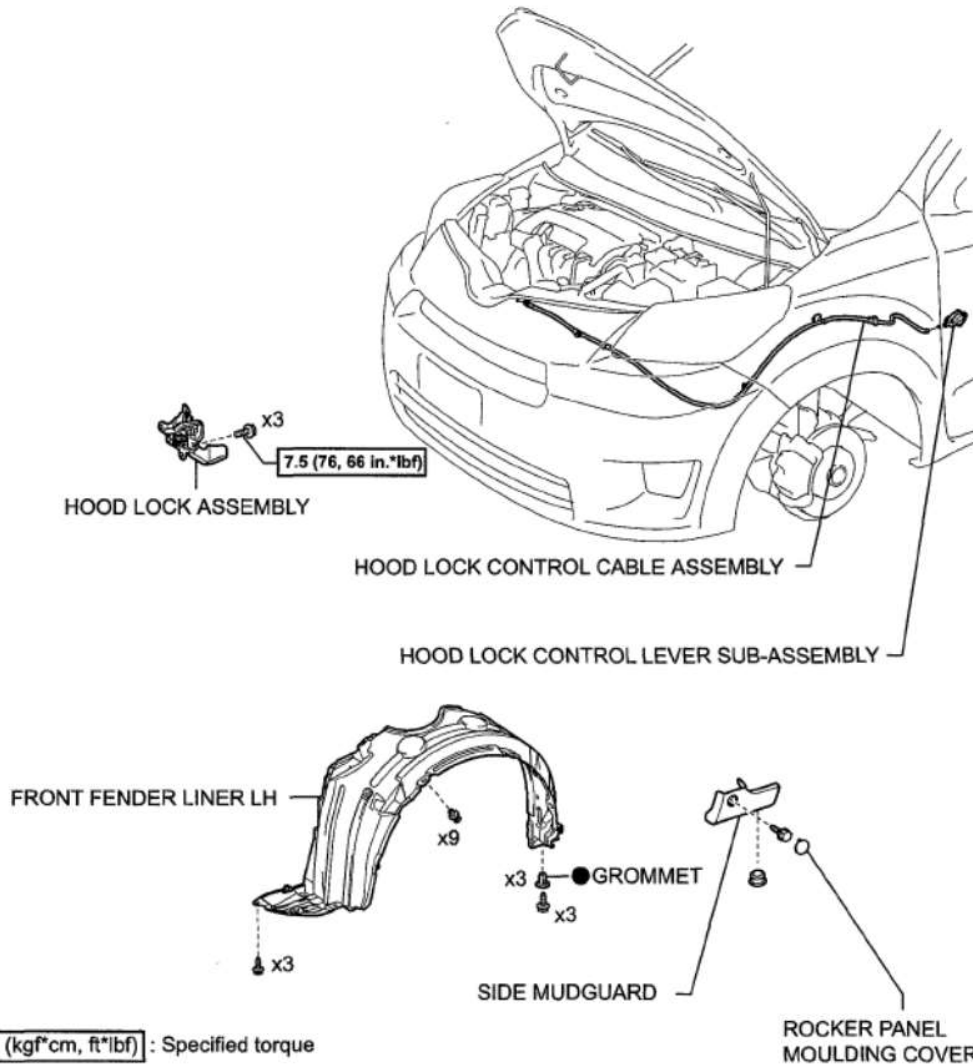
3. Tighten the 3 bolts after the adjustment.

Torque: 7.5 N*m (76 kgf*cm, 66 in.*lbf)

HOOD LOCK CONTROL CABLE ASSEMBLY COMPONENTS

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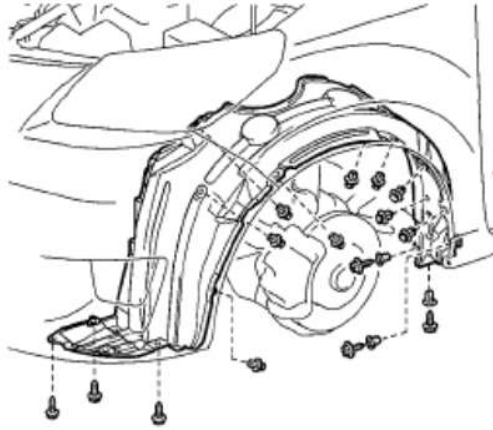
Fig. 7: Identifying Hood Lock Control Cable Assembly Components And Torque Specification
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE FRONT WHEEL**
2. **REMOVE ROCKER PANEL MOLDING COVER** (See **REMOVAL**)
3. **REMOVE SIDE MUDGUARD** (See **REMOVAL**)
4. **REMOVE FRONT FENDER LINER LH**
 - a. Remove the 9 clips and 6 screws.

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Fig. 8: Identifying Front Fender Liner LH And Screws
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

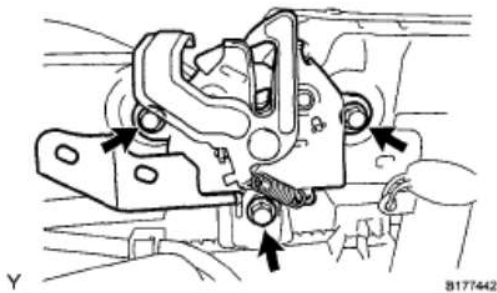
- b. Remove the 3 grommets and remove the front fender liner LH.

HINT:

The grommet needs to be replaced with a new one because it will break when it is removed.

5. REMOVE HOOD LOCK ASSEMBLY

- a. Remove the 3 bolts and remove the hood lock assembly.



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Fig. 9: Locating Bolts And Hood Lock Assembly
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disconnect the hood lock control cable.

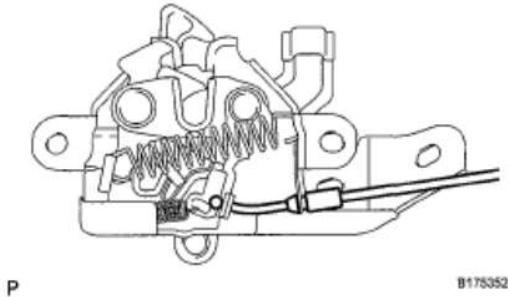
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Fig. 10: Identifying Hood Lock Control Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. REMOVE HOOD LOCK CONTROL LEVER SUB-ASSEMBLY

- a. Disconnect the hood lock control cable and remove the hood lock control lever.

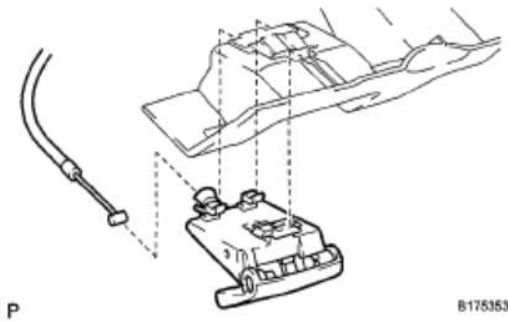


Fig. 11: Disconnecting Hood Lock Control Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. REMOVE HOOD LOCK CONTROL CABLE ASSEMBLY

- a. Using a screwdriver with its tip wrapped in protective tape, disconnect the clamps shown in the illustration.

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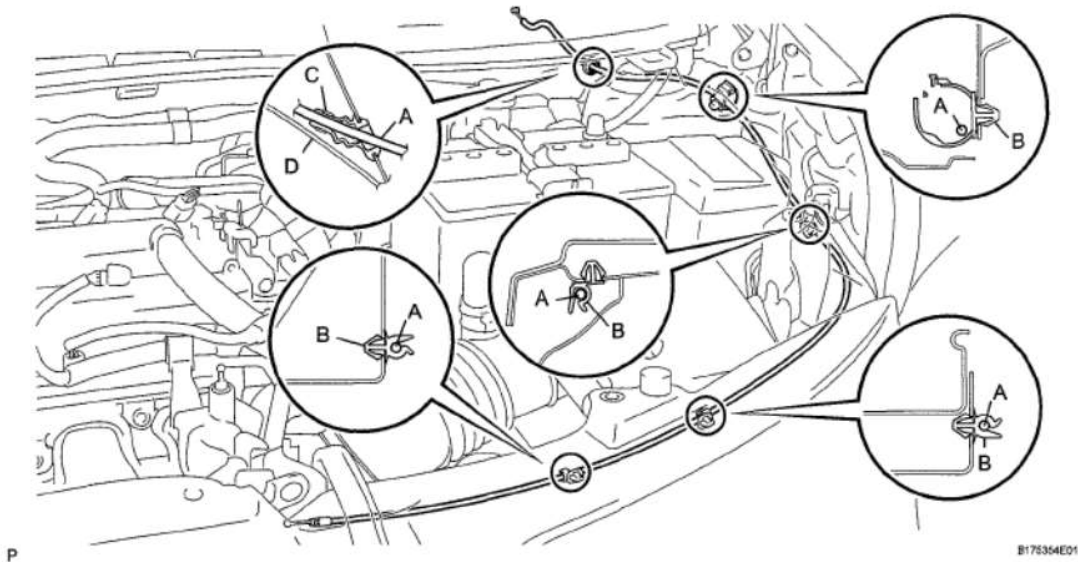


Fig. 12: Identifying Clamps
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

PART NAME CHART

Area	Part Name	Area	Part Name
A	Hood lock control cable	C	Grommet
B	Clamp	D	Fender liner

- b. Pull the cable from the engine compartment and remove it.

INSTALLATION

- 1. **INSTALL HOOD LOCK CONTROL CABLE ASSEMBLY**
 - a. Pass the hood lock control cable assembly into the engine compartment.

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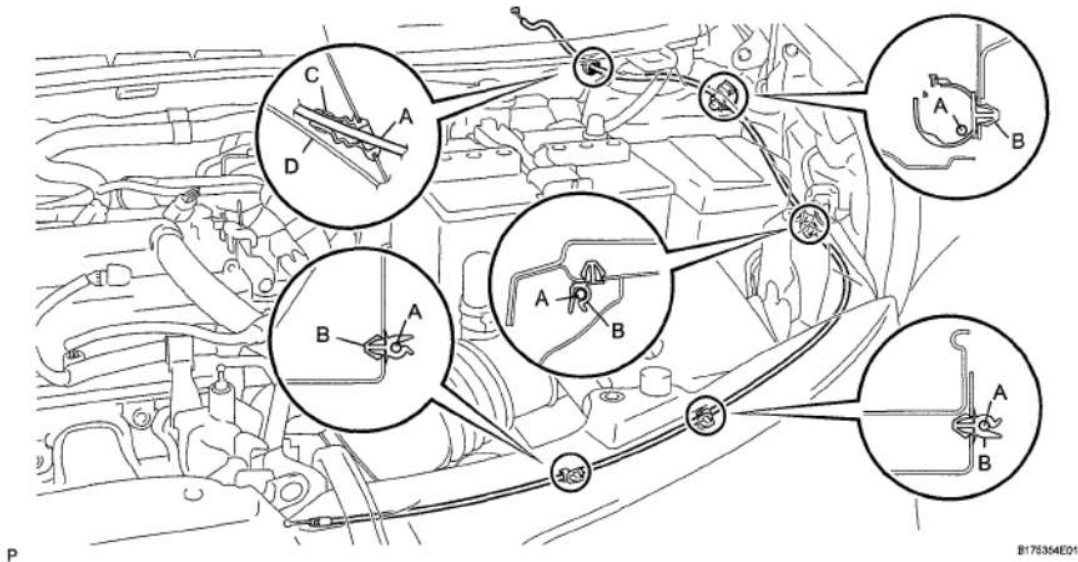


Fig. 13: Identifying Hood Lock Control Cable Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

PART NAME CHART

Area	Part Name	Area	Part Name
A	Hood lock control cable	C	Grommet
B	Clamp	D	Fender liner

- b. Connect the clamps as shown in the illustration.
- 2. **INSTALL HOOD LOCK CONTROL LEVER SUB-ASSEMBLY**
 - a. Install the hood lock control lever sub-assembly and connect the hood lock control cable.

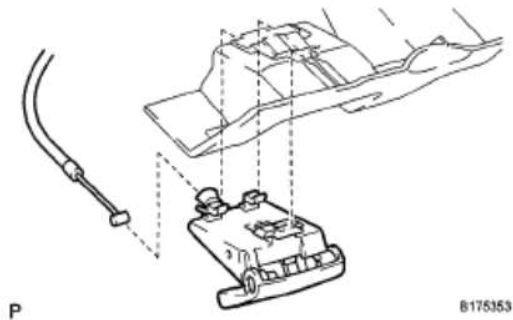


Fig. 14: Connecting Hood Lock Control Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- 3. **INSTALL HOOD LOCK ASSEMBLY**
 - a. Apply MP grease to the sliding areas of the lock.

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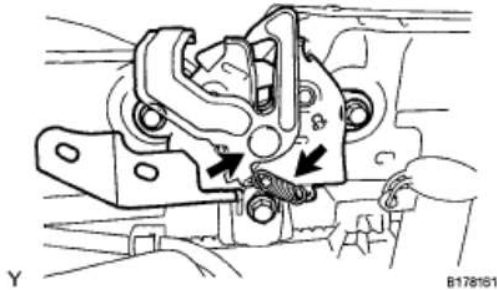


Fig. 15: Locating Sliding Areas Of Lock
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect the hood lock control cable.

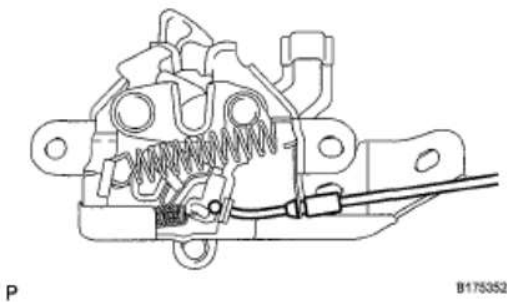


Fig. 16: Identifying Hood Lock Control Cable
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Install the hood lock assembly with the 3 bolts.

Torque: 7.5 N*m (76 kgf*cm, 66 in.*lbf)

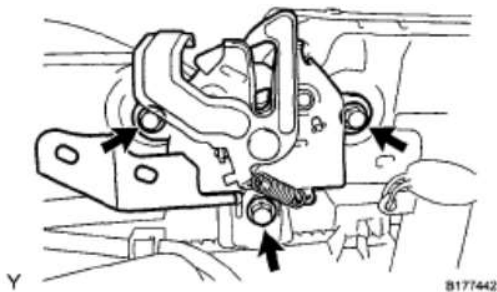
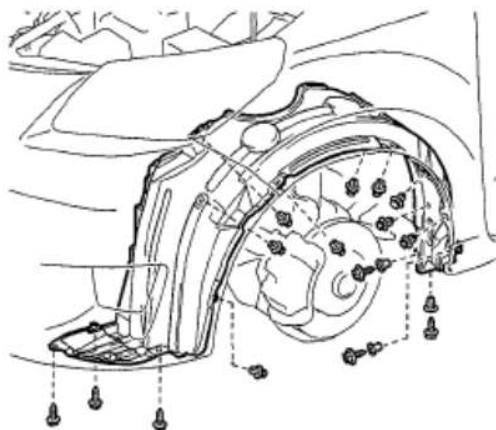


Fig. 17: Locating Bolts And Hood Lock Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSPECT HOOD SUB-ASSEMBLY** (See ADJUSTMENT)
5. **ADJUST HOOD SUB-ASSEMBLY** (See ADJUSTMENT)
6. **INSTALL FRONT FENDER LINER LH**

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- a. Install the front fender liner LH with 3 new grommets.



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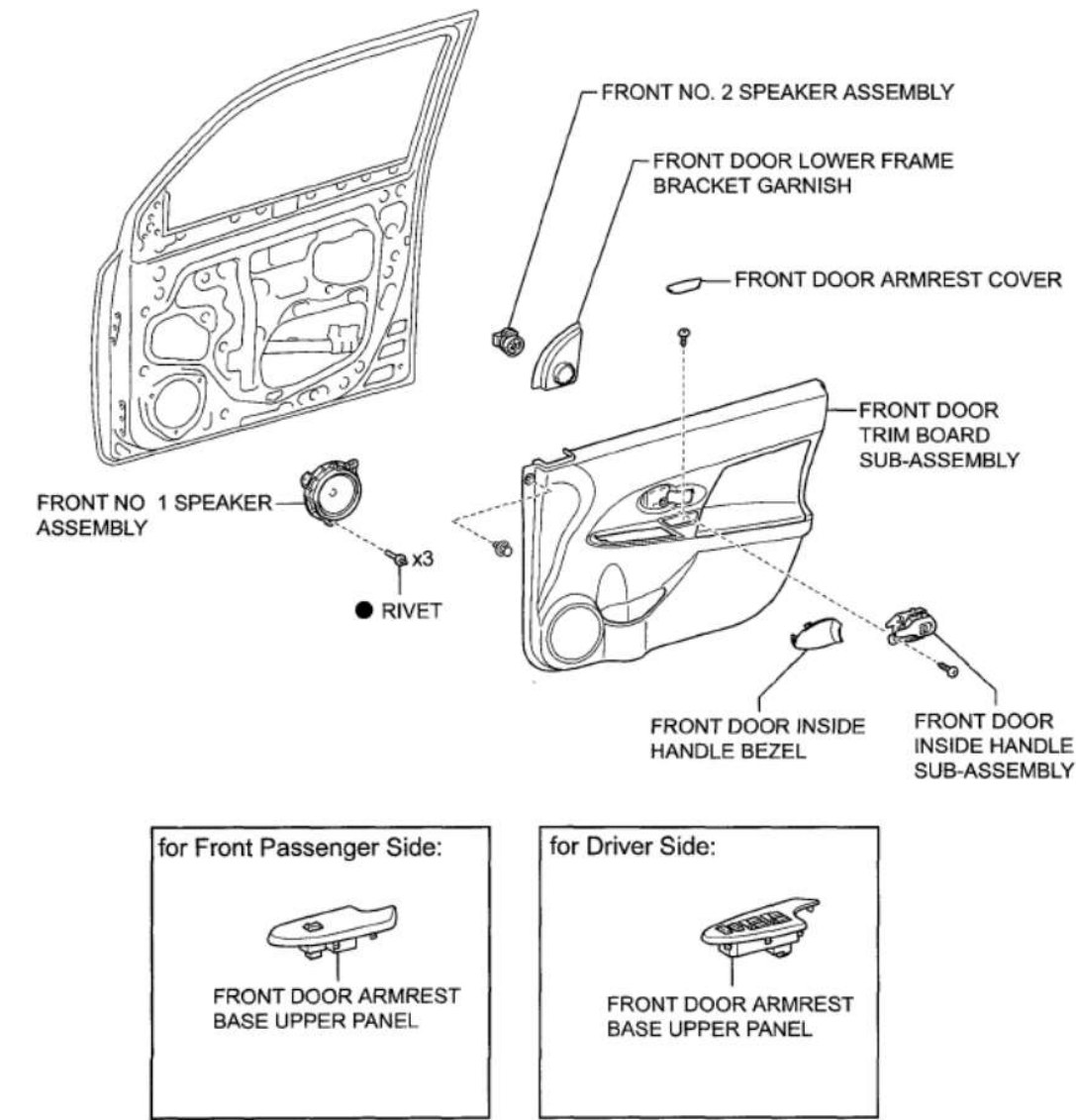
Fig. 18: Identifying Front Fender Liner LH And Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Install the 9 clips and 6 screws.
7. **INSTALL SIDE MUDGUARD** (See **INSTALLATION**)
 8. **INSTALL ROCKER PANEL MOLDING COVER** (See **INSTALLATION**)
 9. **INSTALL FRONT WHEEL**

FRONT DOOR**COMPONENTS**

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● Non-reusable part

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Fig. 19: Identifying Front Door Components (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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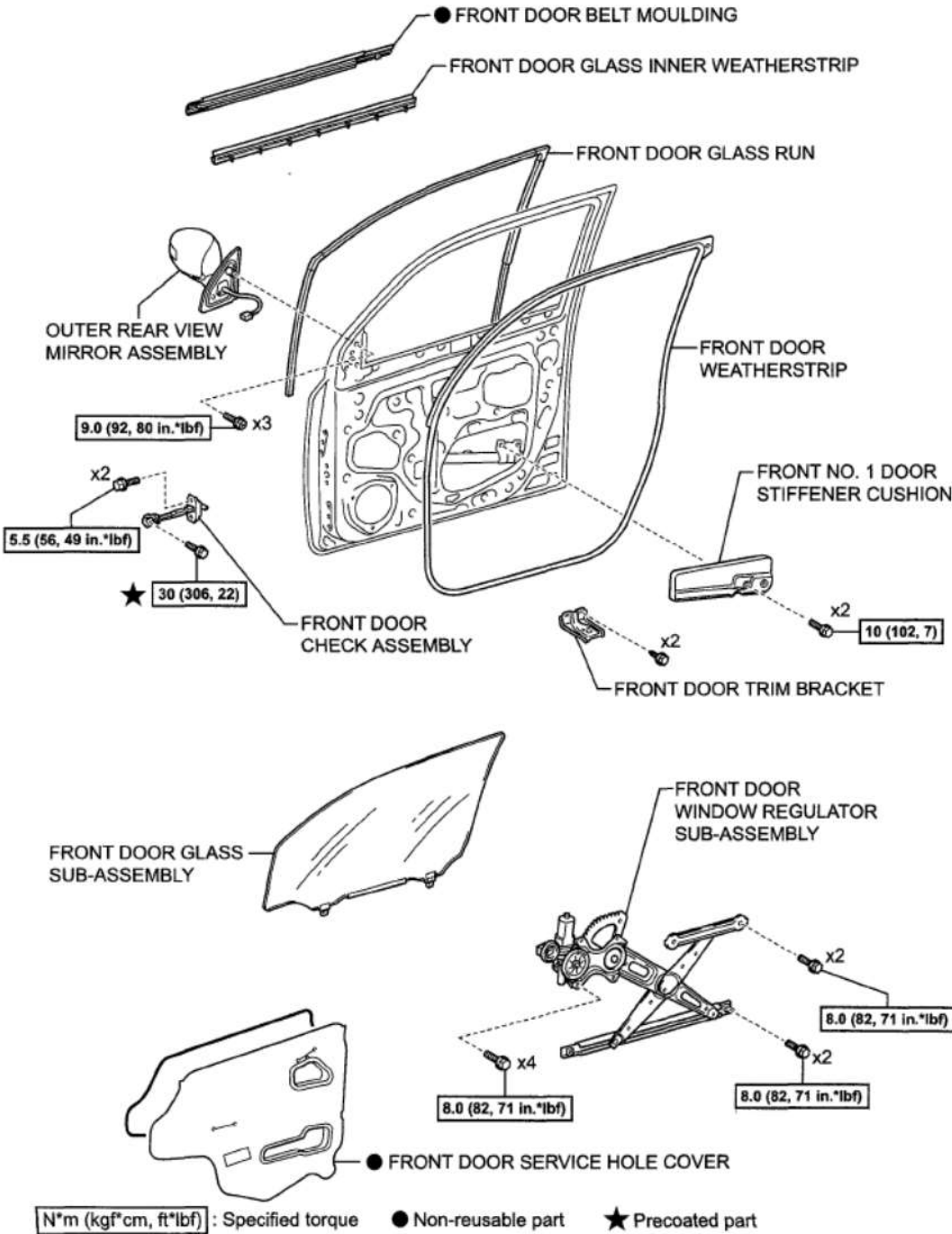


Fig. 20: Identifying Front Door Components With Torque Specifications (2 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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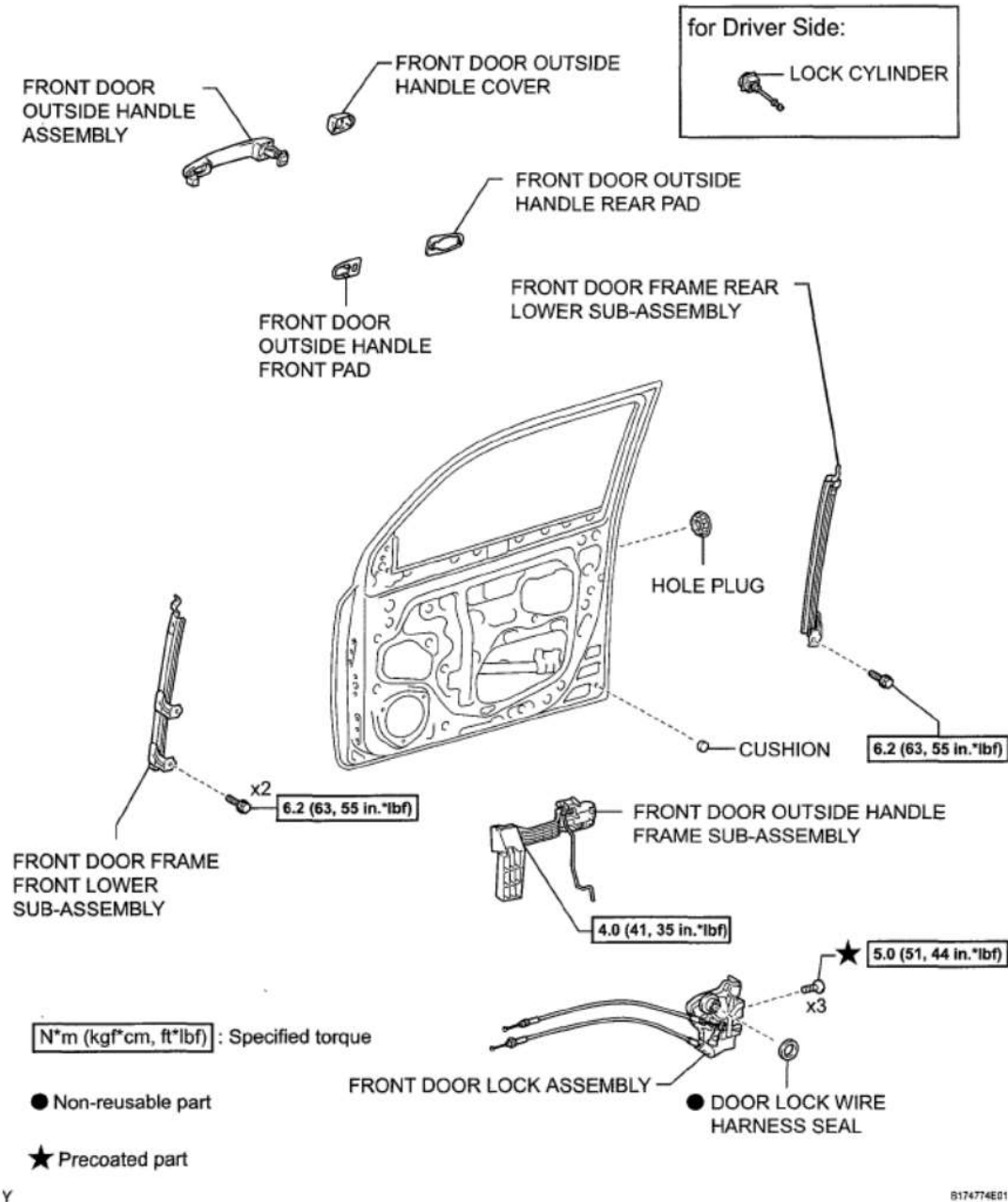


Fig. 21: Identifying Front Door Components With Torque Specifications (3 Of 3)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISASSEMBLY

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the RH side.

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1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION: Wait for 90 seconds after disconnecting the cable to prevent the airbag from working.

2. REMOVE FRONT DOOR ARMREST BASE UPPER PANEL

- Remove the front door armrest cover.
- Disengage the 5 claws and 2 clips and remove the front door armrest base upper panel.

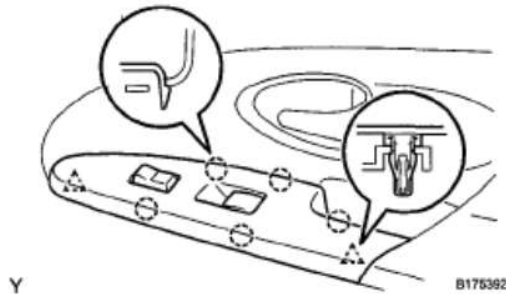


Fig. 22: Identifying Claws And Clips Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Disconnect the connector.

3. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH

- Disengage the 2 guides and clip and remove the front door lower frame bracket garnish.

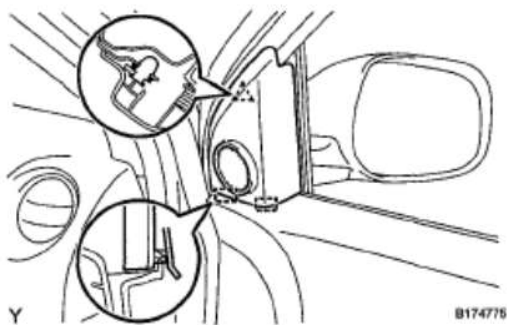


Fig. 23: Identifying Guides And Clip Location

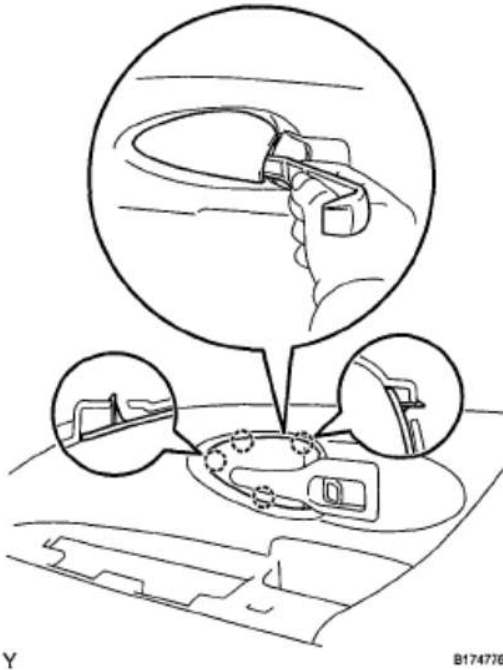
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Disconnect the connector.

4. REMOVE FRONT NO. 2 SPEAKER ASSEMBLY (See REMOVAL)

5. REMOVE FRONT DOOR INSIDE HANDLE BEZEL

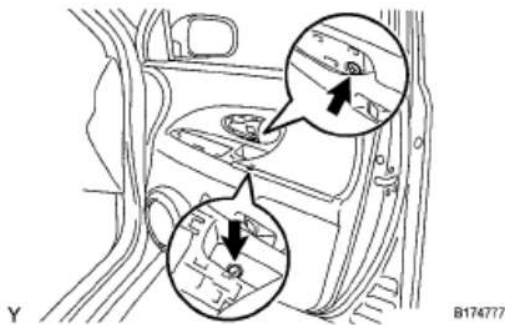
- Disengage the 4 claws and remove the front door inside handle bezel.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD****Fig. 24: Disengaging Claws**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY

- a. Remove the 2 screws.

**Fig. 25: Locating Screws**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disengage the 7 clips.

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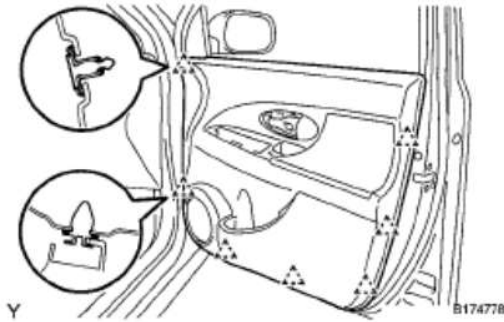


Fig. 26: Identifying Clips Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Disconnect the front door lock remote control cable and front door inside locking cable and remove the front door trim board sub-assembly.

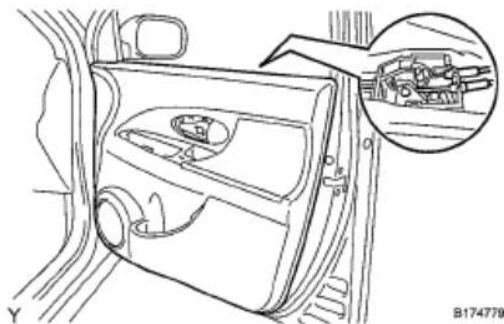


Fig. 27: Identifying Front Door Lock Remote Control Cable And Front Door Inside Locking Cable

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. REMOVE FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY

- a. Disengage the 2 claws and remove the front door inside handle sub-assembly.



Fig. 28: Identifying Claws And Front Door Inside Handle Sub-Assembly

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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8. REMOVE FRONT DOOR GLASS INNER WEATHERSTRIP

- a. Raise the 7 claws of the front door glass inner weatherstrip and then remove the front door glass inner weatherstrip from the front door trim board assembly, as shown in the illustration.

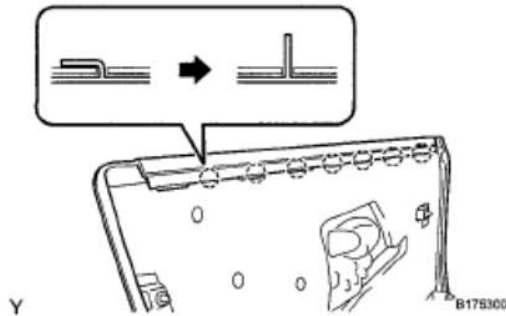


Fig. 29: Identifying Claws Of Front Door Glass Inner Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. REMOVE FRONT NO. 1 SPEAKER ASSEMBLY (See REMOVAL)
10. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY (See REMOVAL)
11. REMOVE FRONT DOOR BELT MOLDING (See REMOVAL)
12. REMOVE FRONT DOOR TRIM BRACKET

- a. Remove the 2 screws and remove the front door trim bracket.

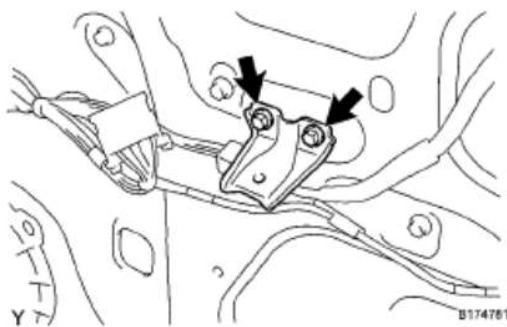


Fig. 30: Locating Screws And Front Door Trim Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. REMOVE FRONT DOOR SERVICE HOLE COVER

- a. Disconnect the connectors and clamps, then remove the front door service hole cover.

NOTE: Remove any tape remaining on the door side.

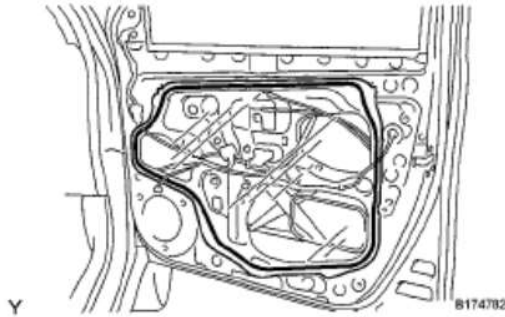
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Fig. 31: Identifying Front Door Service Hole Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

14. REMOVE FRONT DOOR GLASS SUB-ASSEMBLY

- a. Provisionally install the power window switch.
- b. Move the front door glass until the 2 bolts can be seen through the service holes.

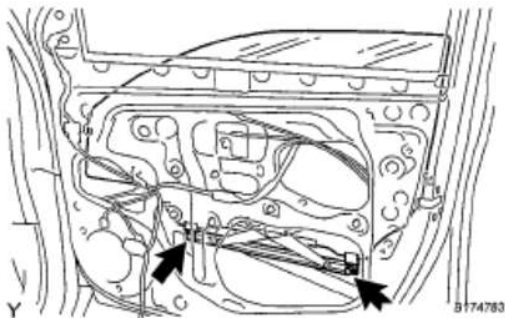


Fig. 32: Locating Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Remove the 2 bolts.

NOTE: Do not drop or damage the front door glass sub-assembly when removing the bolts.

- d. Remove the front door glass sub-assembly in the direction indicated by the arrows in the illustration.

NOTE: Do not damage the front door glass sub-assembly.

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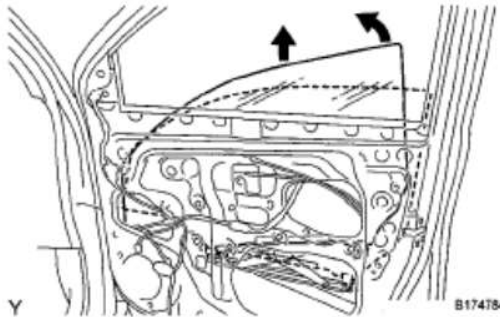


Fig. 33: Identifying Front Door Glass Sub-Assembly
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Remove the power window switch.

15. REMOVE FRONT DOOR GLASS RUN

- a. Remove the front door glass run.

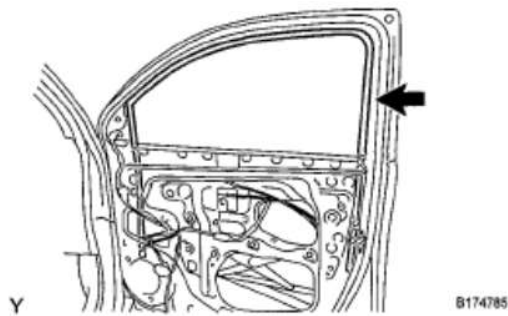
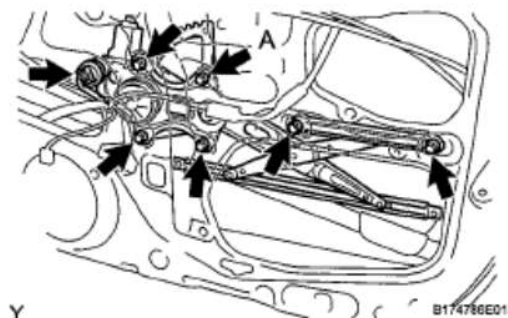


Fig. 34: Identifying Front Door Glass Run
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

16. REMOVE FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY

- a. Disconnect the connector.
- b. Loosen bolt A.
- c. Remove the 5 bolts, then remove the front door window regulator sub-assembly.



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Fig. 35: Locating Bolts And Front Door Window Regulator Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: Do not drop or damage the front door window regulator sub-assembly when removing the bolts.

HINT:

Remove the front door window regulator sub-assembly through the service hole.

17. REMOVE FRONT DOOR CHECK ASSEMBLY

- a. Remove the 3 bolts, then remove the front door check assembly.

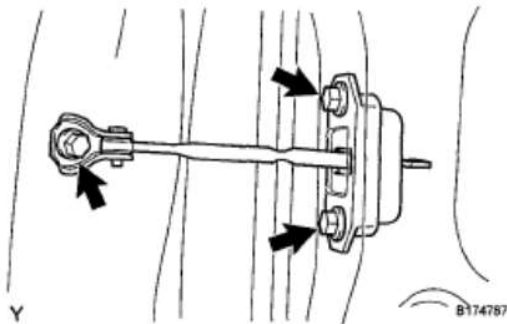


Fig. 36: Locating Bolts And Front Door Check Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: Do not drop or damage the front door check assembly when removing the bolts.

HINT:

Remove the front door check assembly through the service hole.

18. REMOVE FRONT DOOR WEATHERSTRIP

- a. Disengage the 32 clips and remove the front door weatherstrip.

NOTE: Remove any tape remaining on the door side.

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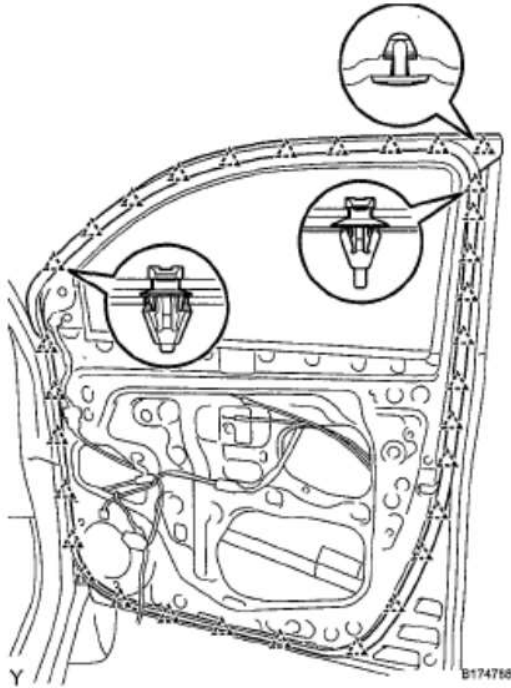


Fig. 37: Identifying Clips Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

19. REMOVE FRONT DOOR FRAME REAR LOWER SUB-ASSEMBLY

- a. Remove the bolt, then remove the front door frame rear lower sub-assembly.

NOTE: Do not drop or damage the front door frame rear lower sub-assembly when removing the bolt.

HINT:

Remove the front door frame rear lower sub-assembly through the service hole.

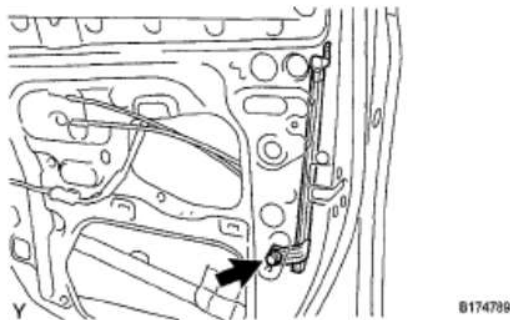


Fig. 38: Locating Bolt And Front Door Frame Rear Lower Sub-Assembly

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD****20. REMOVE FRONT DOOR FRAME FRONT LOWER SUB-ASSEMBLY**

- a. Remove the 2 bolts, then remove the front door frame front lower sub-assembly.

NOTE: Do not drop or damage the front door frame front lower sub-assembly when removing the bolt.

HINT:

Remove the front door frame front lower sub-assembly through the service hole.

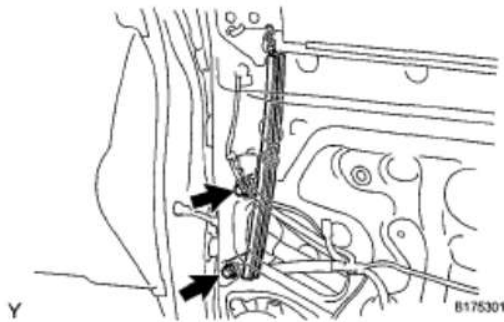


Fig. 39: Locating Bolts And Front Door Frame Front Lower Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

21. REMOVE FRONT NO. 1 DOOR STIFFENER CUSHION

- a. Remove the 2 bolts and remove the front No. 1 door stiffener cushion.

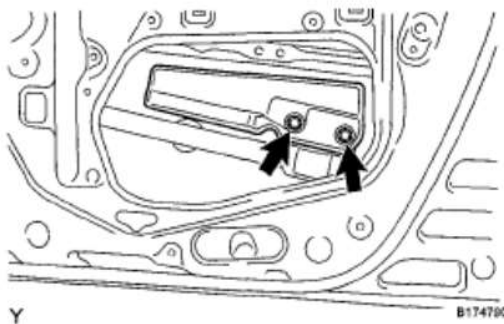


Fig. 40: Locating Bolts And Front No. 1 Door Stiffener Cushion
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

22. REMOVE FRONT DOOR OUTSIDE HANDLE COVER

- a. Remove the hole plug.

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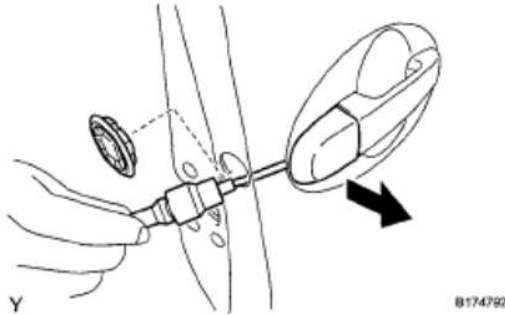


Fig. 41: Removing Hole Plug

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Using "TORX" socket wrench T30, loosen the screw and remove the cover.

23. REMOVE LOCK CYLINDER (for Driver Side)

- a. Disengage the 2 claws and remove the lock cylinder.

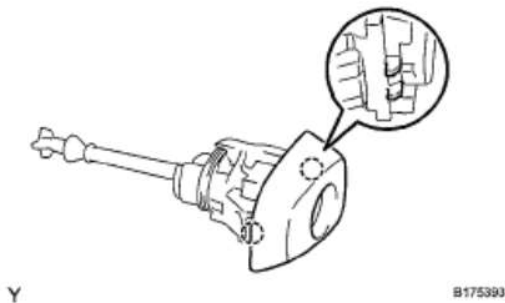


Fig. 42: Identifying Claws And Lock Cylinder

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

24. REMOVE FRONT DOOR LOCK ASSEMBLY (See REMOVAL)

25. REMOVE FRONT DOOR OUTSIDE HANDLE ASSEMBLY

- a. Remove the handle by sliding and pulling it in the direction indicated by the arrow mark in the illustration.

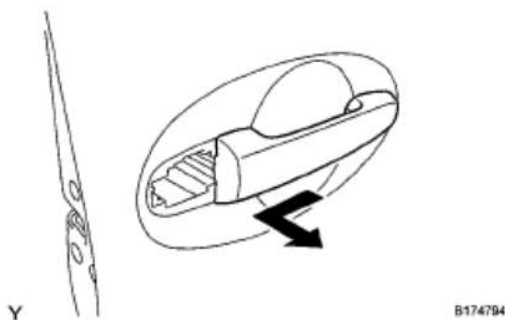


Fig. 43: Removing Handle By Sliding

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

26. REMOVE FRONT DOOR OUTSIDE HANDLE REAR PAD

- a. Disengage the 2 claws and remove the front door outside handle rear pad.

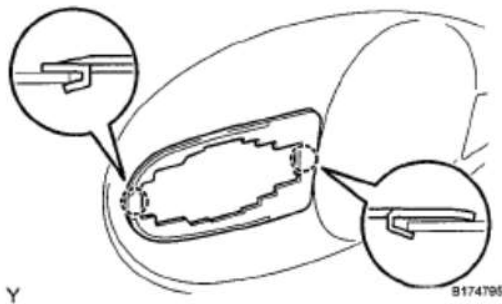


Fig. 44: Identifying Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

27. REMOVE FRONT DOOR OUTSIDE HANDLE FRONT PAD

- a. Disengage the 2 claws and remove the front door outside handle front pad.

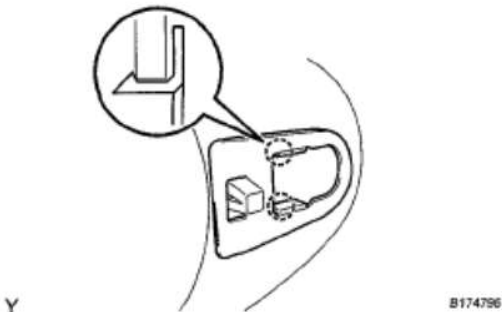


Fig. 45: Identifying Claws And Front Door Outside Handle Front Pad

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

28. REMOVE FRONT DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY

- a. Using "TORX" socket wrench T30, loosen the screw.

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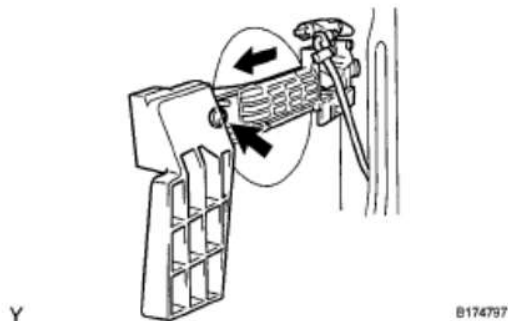


Fig. 46: Locating Front Outside Handle Frame Sub-Assembly And Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Slide the front outside handle frame sub-assembly to remove it.

29. REMOVE CUSHIONS

- a. Remove the cushions from the door panel.

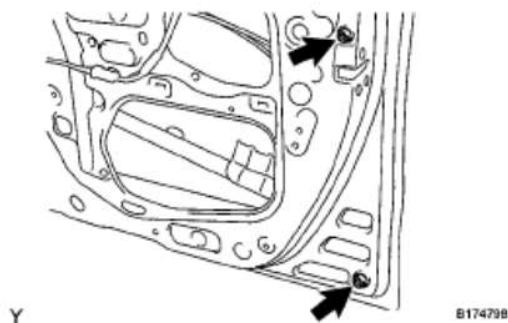


Fig. 47: Locating Cushions
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ADJUSTMENT

HINT:

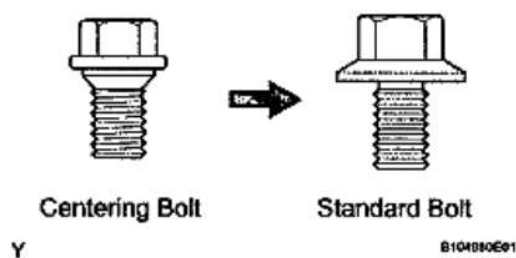


Fig. 48: Identifying Centering Bolt And Standard Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Use the same procedure for the RH and LH sides.

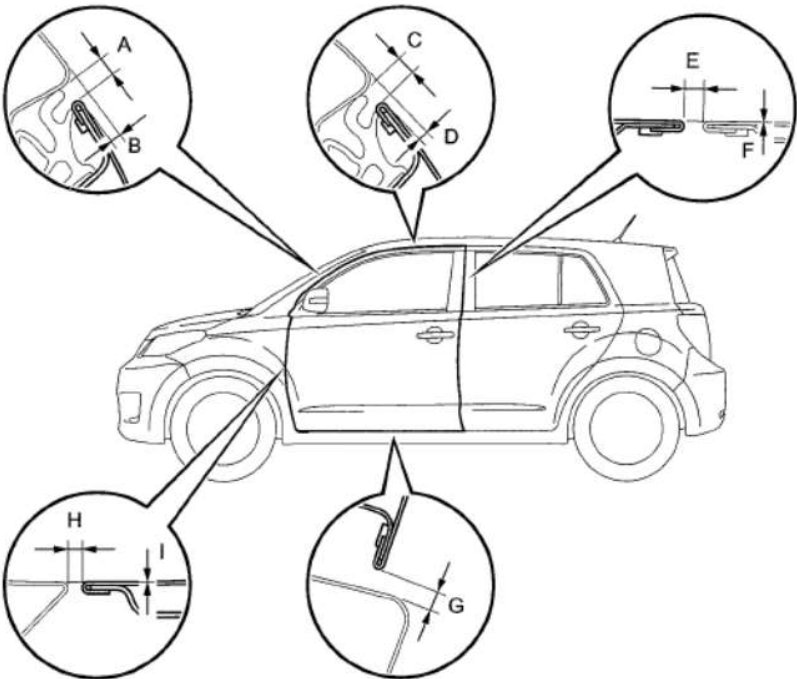
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- The procedures described below are for the RH side.
- Centering bolts are used to mount the door hinge onto the vehicle body and door. The door cannot be adjusted with the centering bolts in. Substitute standard bolts (with washers) for the centering bolts when making adjustments.
- For bolts without torque specifications, check the standard bolt chart (see **SPECIFIED TORQUE FOR STANDARD BOLTS**).

1. INSPECT FRONT DOOR

- a. Check that the clearance measurements are within the standard ranges.



P B174812E01

Fig. 49: Identifying Front Door Clearance
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard

AREA MEASUREMENT CHART

Area	Measurement	Area	Measurement
A	3.6 to 6.6 mm (0.142 to 0.260 in.)	F	-1.5 to 1.5 mm (-0.059 to 0.0059 in.)
B	2.9 mm (0.114 in.)	G	3.7 to 6.7 mm (0.147 to 0.264 in.)
C	3.6 to 6.6 mm (0.142 to 0.260 in.)	H	3.0 to 6.0 mm (0.118 to 0.236 in.)
D	2.7 mm (0.106 in.)	I	-1.5 to 1.5 mm (-0.059 to 0.0059 in.)
E	3.6 to 6.6 mm (0.142 to 0.260 in.)		

2. ADJUST FRONT DOOR

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- a. Disconnect the cable from the negative battery terminal.

NOTE: Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.

- b. Using SST, adjust the door horizontally and vertically by loosening the body side hinge bolts.

SST 09812-00010

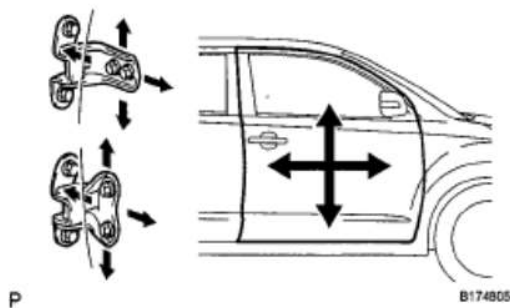


Fig. 50: Adjusting Door Horizontally And Vertically
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Tighten the body side hinge bolts after the adjustment.

Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)

- d. Using SST, adjust the door horizontally and vertically by loosening the door side hinge bolts.

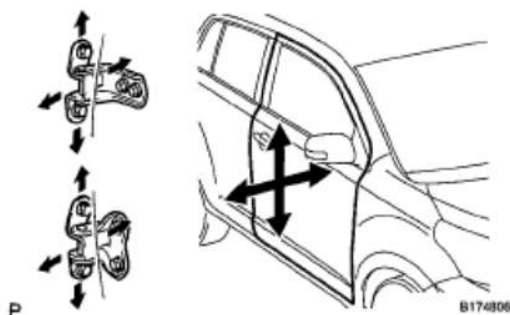


Fig. 51: Adjusting Door Horizontally And Vertically
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Tighten the door side hinge bolts after the adjustment.

SST 09812-00010

Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)

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- f. Using "TORX" socket wrench T40, adjust the striker position by slightly loosening the striker mounting screws and hitting the striker with a plastic-faced hammer.

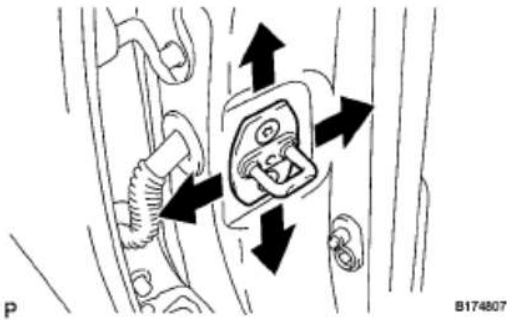


Fig. 52: Adjusting Striker Position

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- g. Using "TORX" socket wrench T40, tighten the striker mounting screws after the adjustment.

Torque: 23 N*m (235 kgf*cm, 17 ft.*lbf)

- h. Connect the cable to the negative battery terminal.

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

REASSEMBLY

1. INSTALL CUSHIONS

- a. Install the cushions onto the door panel.

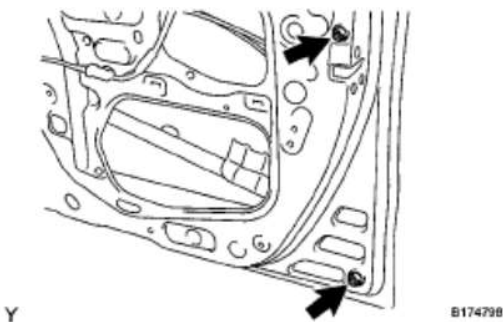


Fig. 53: Locating Cushions

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL FRONT DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY

- a. Apply MP grease to the sliding areas of the front door outside handle frame sub-assembly.
- b. Slide the outside handle frame sub-assembly to install it.

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- c. Using "TORX" socket wrench T30, install the front outside handle frame sub-assembly with the screw.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

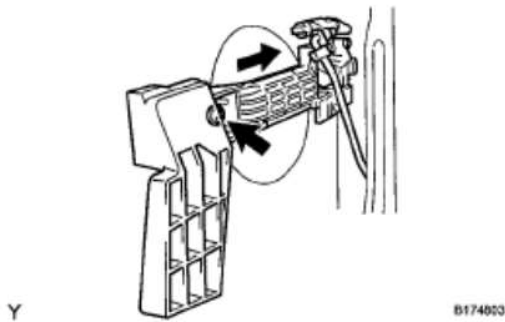


Fig. 54: Locating Front Door Outside Handle Frame Sub-Assembly And Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. INSTALL FRONT DOOR OUTSIDE HANDLE FRONT PAD

- a. Engage the 2 claws and install the front door outside handle front pad.

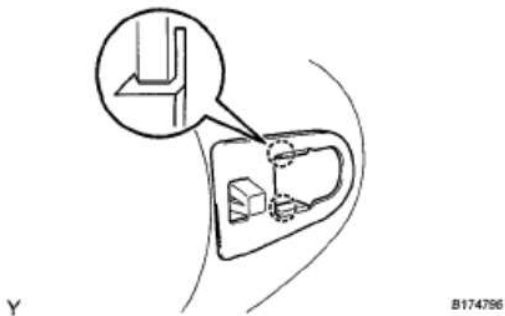


Fig. 55: Identifying Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. INSTALL FRONT DOOR OUTSIDE HANDLE REAR PAD

- a. Engage the 2 claws and install the front door outside handle rear pad.

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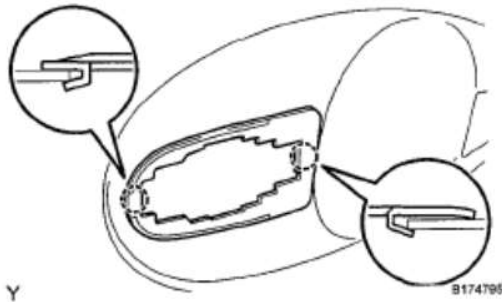


Fig. 56: Identifying Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. INSTALL FRONT DOOR OUTSIDE HANDLE ASSEMBLY

- Pushing the front door outside handle assembly in the direction of the arrow mark shown in the illustration, install the front door outside handle assembly.

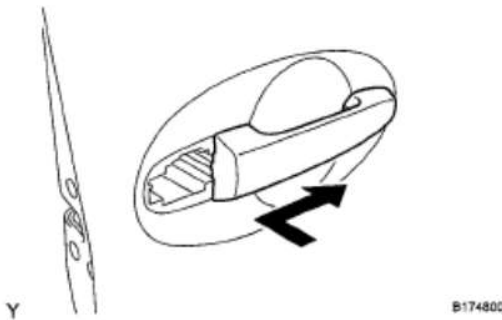


Fig. 57: Pushing Front Door Outside Handle Assembly

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. INSTALL FRONT DOOR LOCK ASSEMBLY (See INSTALLATION)

7. INSTALL LOCK CYLINDER (for Driver Side)

- Engage the 2 claws and install lock cylinder.

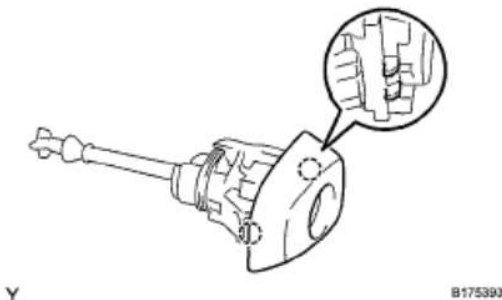


Fig. 58: Identifying Claws And Lock Cylinder

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD****8. INSTALL FRONT DOOR OUTSIDE HANDLE COVER**

- a. Using "TORX" socket wrench T30, install the cover.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

- b. Install the hole plug.

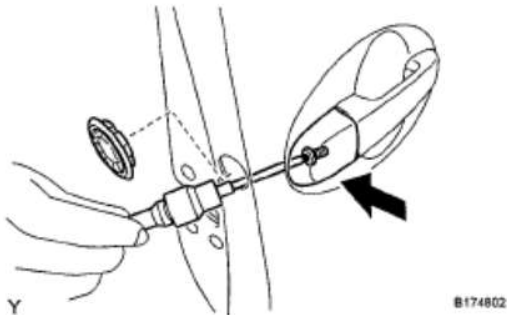


Fig. 59: Installing Hole Plug

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. INSTALL FRONT NO. 1 DOOR STIFFENER CUSHION

- a. Install the front No. 1 door stiffener cushion with the 2 bolts.

Torque: 10 N*m (102 kgf*cm, 7 ft.*lbf)

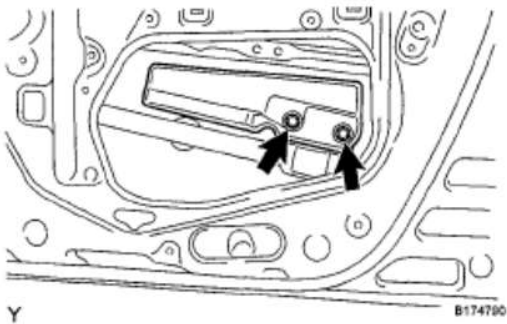


Fig. 60: Locating Bolts And Front No. 1 Door Stiffener Cushion

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. INSTALL FRONT DOOR FRAME FRONT LOWER SUB-ASSEMBLY

- a. Install the front door frame front lower sub-assembly with the 2 bolts.

Torque: 6.2 N*m (63 kgf*cm, 55 in.*lbf)

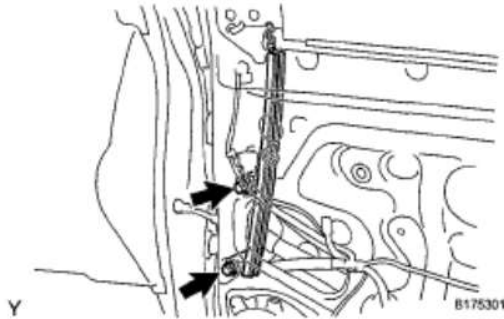
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Fig. 61: Locating Bolts And Front Door Frame Front Lower Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

11. INSTALL FRONT DOOR FRAME REAR LOWER SUB-ASSEMBLY

- a. Install the front door frame rear lower sub-assembly with the bolt.

Torque: 6.2 N*m (63 kgf*cm, 55 in.*lbf)

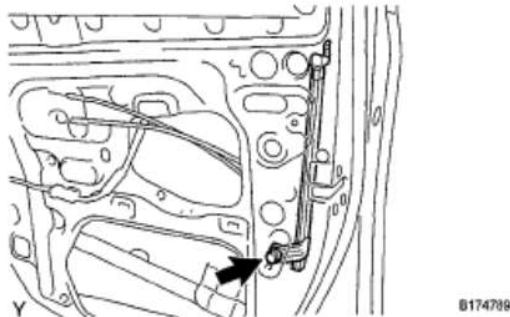


Fig. 62: Locating Bolt And Front Door Frame Rear Lower Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. INSTALL FRONT DOOR WEATHERSTRIP

- a. Engage the 32 clips and install the front door weatherstrip.

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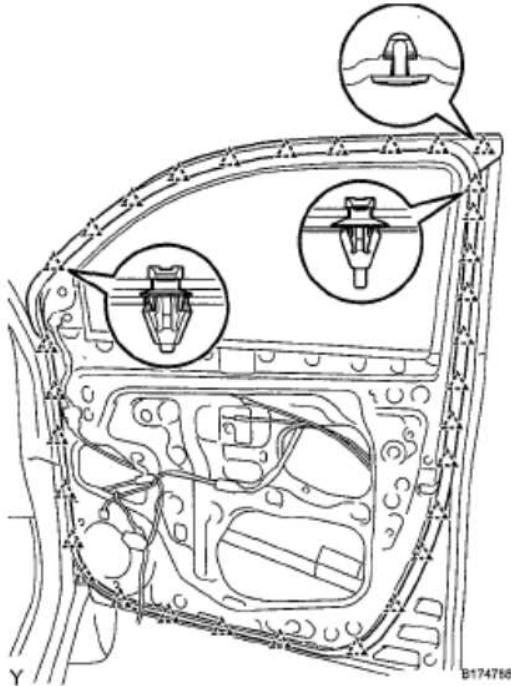


Fig. 63: Identifying Clips

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. INSTALL FRONT DOOR CHECK ASSEMBLY

- Apply MP grease to the sliding areas of the front door check assembly.
- Install the front door check assembly onto the door panel with the 2 bolts.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

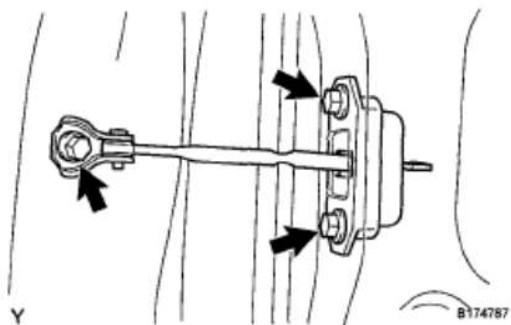


Fig. 64: Locating Bolts And Front Door Check Assembly

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Apply adhesive to the threads of the bolt.

Adhesive: Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

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- d. Install the front door check onto the body panel with the bolt.

Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

14. INSTALL FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY

- a. Apply MP grease to the sliding and rotating areas of the front door window regulator sub-assembly.

NOTE: Do not apply grease to the front door window regulator spring.

- b. Loosely screw bolt A onto the front door window regulator sub-assembly.
c. Insert the front door window regulator sub-assembly into the door panel. Provisionally tighten bolt A to hang the front door window regulator sub-assembly on the door panel.

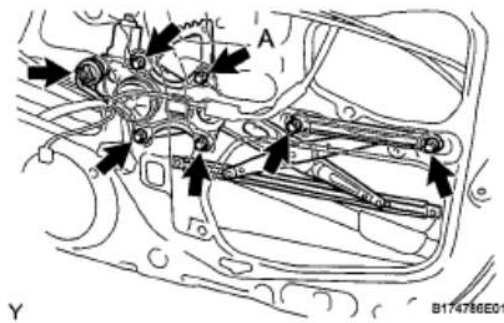


Fig. 65: Locating Bolts And Front Door Window Regulator Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: Do not drop the front door window regulator sub-assembly as it may be damaged.

- d. Install the front door window regulator sub-assembly with the 5 bolts, and tighten bolt A.

Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)

- e. Connect the connector.

15. INSTALL FRONT DOOR GLASS RUN

- a. Install the front door glass run.

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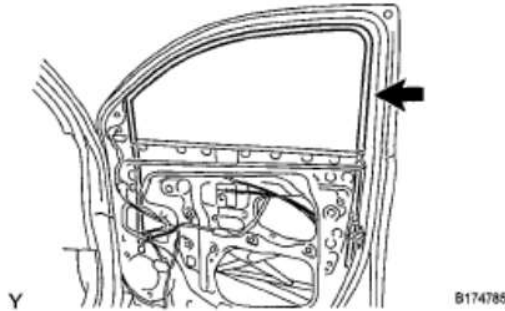


Fig. 66: Identifying Front Door Glass Run
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

16. INSTALL FRONT DOOR GLASS SUB-ASSEMBLY

- Insert the front door glass sub-assembly into the door panel along the glass run as indicated by the arrows in the illustration.

NOTE: Do not damage the front door glass sub-assembly.

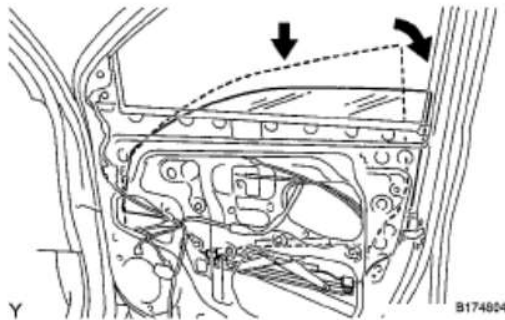
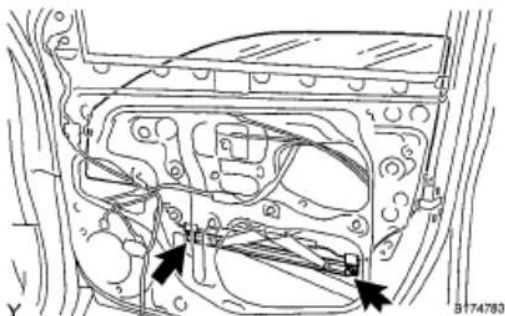


Fig. 67: Inserting Front Door Glass Sub-Assembly Into Door Panel
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Install the front door glass sub-assembly onto the front door window regulator with the 2 bolts.

Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)



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Fig. 68: Locating Front Door Glass Sub-Assembly And Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

17. INSTALL FRONT DOOR SERVICE HOLE COVER

- a. Apply butyl tape to the door panel, then install a new front door service hole cover as shown in the illustration.

HINT:

- When installing the service hole cover, pull the links and connectors out through the service hole.
- There should be no wrinkles or folds after attaching the service hole cover.
- After attaching the service hole cover, check the quality of the seal.

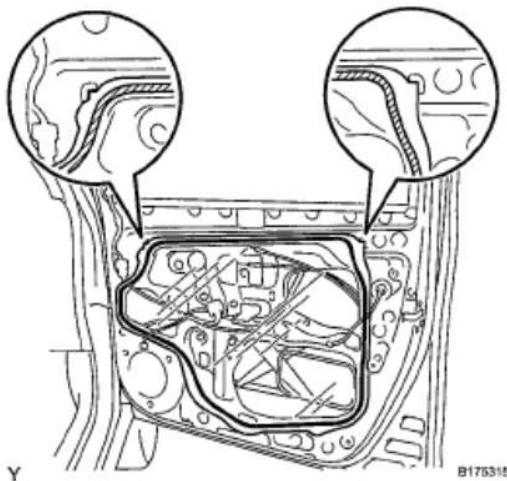


Fig. 69: Identifying Front Door Service Hole Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

18. INSTALL FRONT DOOR TRIM BRACKET

- a. Install 2 screws and install the rear door trim bracket.

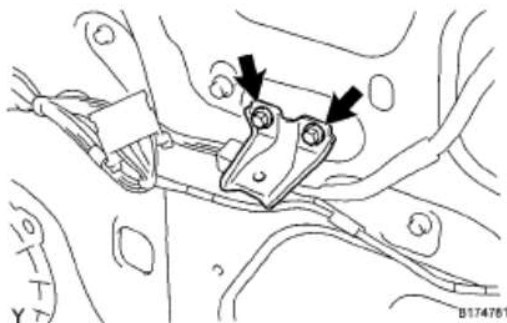


Fig. 70: Locating Screws And Rear Door Trim Bracket

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19. **INSTALL FRONT DOOR BELT MOLDING** (See INSTALLATION)
20. **INSTALL OUTER REAR VIEW MIRROR ASSEMBLY** (See INSTALLATION)
21. **INSTALL FRONT NO. 1 SPEAKER ASSEMBLY** (See INSTALLATION)
22. **INSTALL FRONT DOOR GLASS INNER WEATHERSTRIP**
 - a. Install the front door glass inner weatherstrip on the front door trim board assembly and fold down the 7 claws, as shown in the illustration.

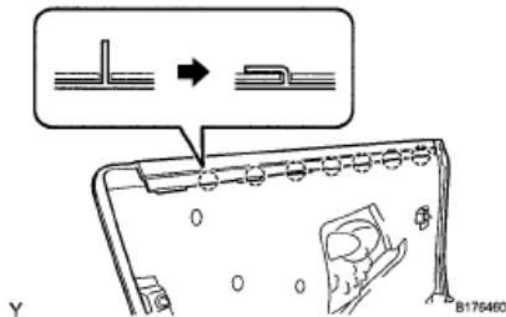


Fig. 71: Identifying Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

23. **INSTALL FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY**
 - a. Engage the 2 claws and install the front door inside handle sub-assembly.

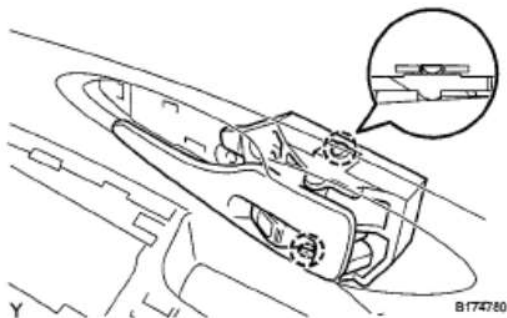


Fig. 72: Identifying Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

24. **INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY**
 - a. Connect the front door lock remote control cable and the front door inside locking cable.

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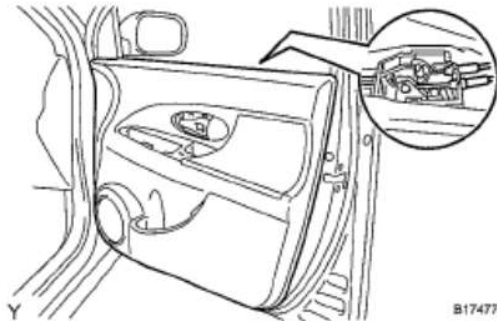


Fig. 73: Identifying Front Door Lock Remote Control Cable And Front Door Inside Locking Cable

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Engage the 7 clips and install the front door trim board sub-assembly.

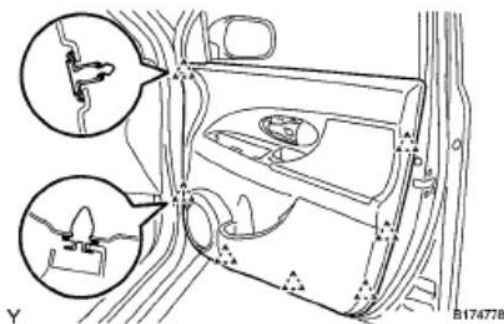


Fig. 74: Identifying Clips Locations

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Tighten the 2 screws.

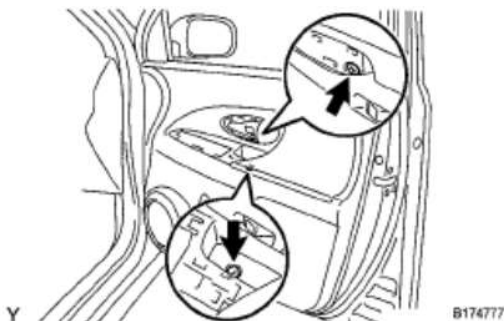


Fig. 75: Locating Screws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

25. INSTALL FRONT DOOR INSIDE HANDLE BEZEL

- a. Engage the 4 claws and install the front door inside handle bezel.

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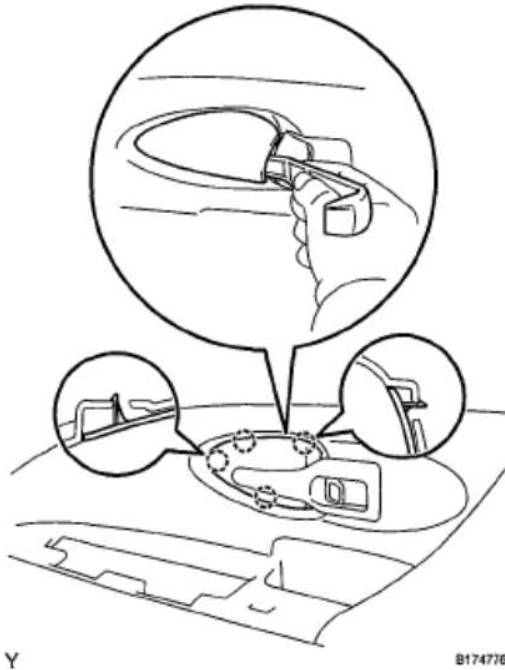


Fig. 76: Engaging Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

26. **INSTALL FRONT NO. 2 SPEAKER ASSEMBLY** (See **INSTALLATION**)
27. **INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH**
 - a. Engage the 2 guides and clip and install the front door lower frame bracket garnish.

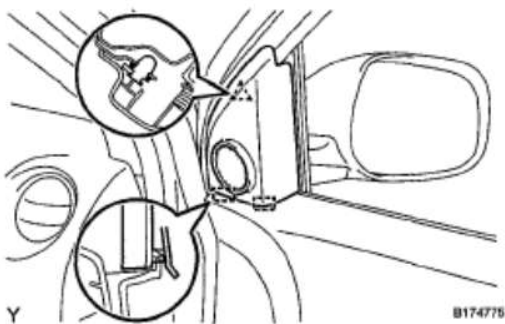


Fig. 77: Identifying Guides And Clip Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect the connector.
28. **INSTALL FRONT DOOR ARMREST BASE UPPER PANEL**
 - a. Connect the connector.
 - b. Engage the 5 claws and 2 clips and install the front armrest base upper panel.

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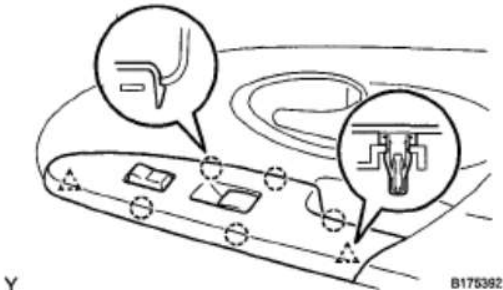


Fig. 78: Identifying Claws And Clips Location
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

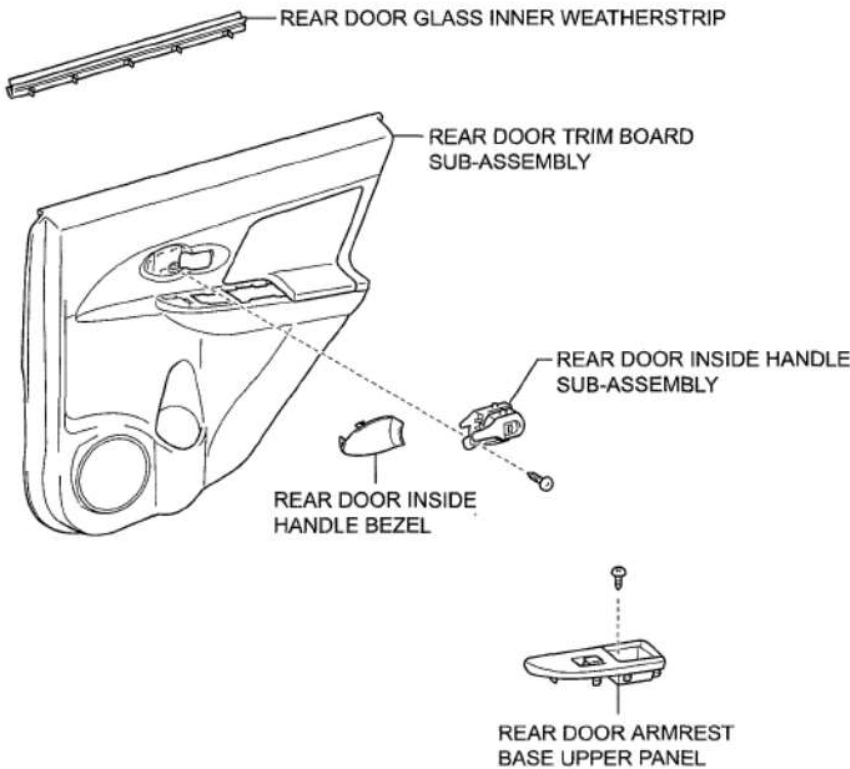
c. Install the front door armrest cover.

29. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

REAR DOOR

COMPONENTS



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Fig. 79: Identifying Rear Door Components (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

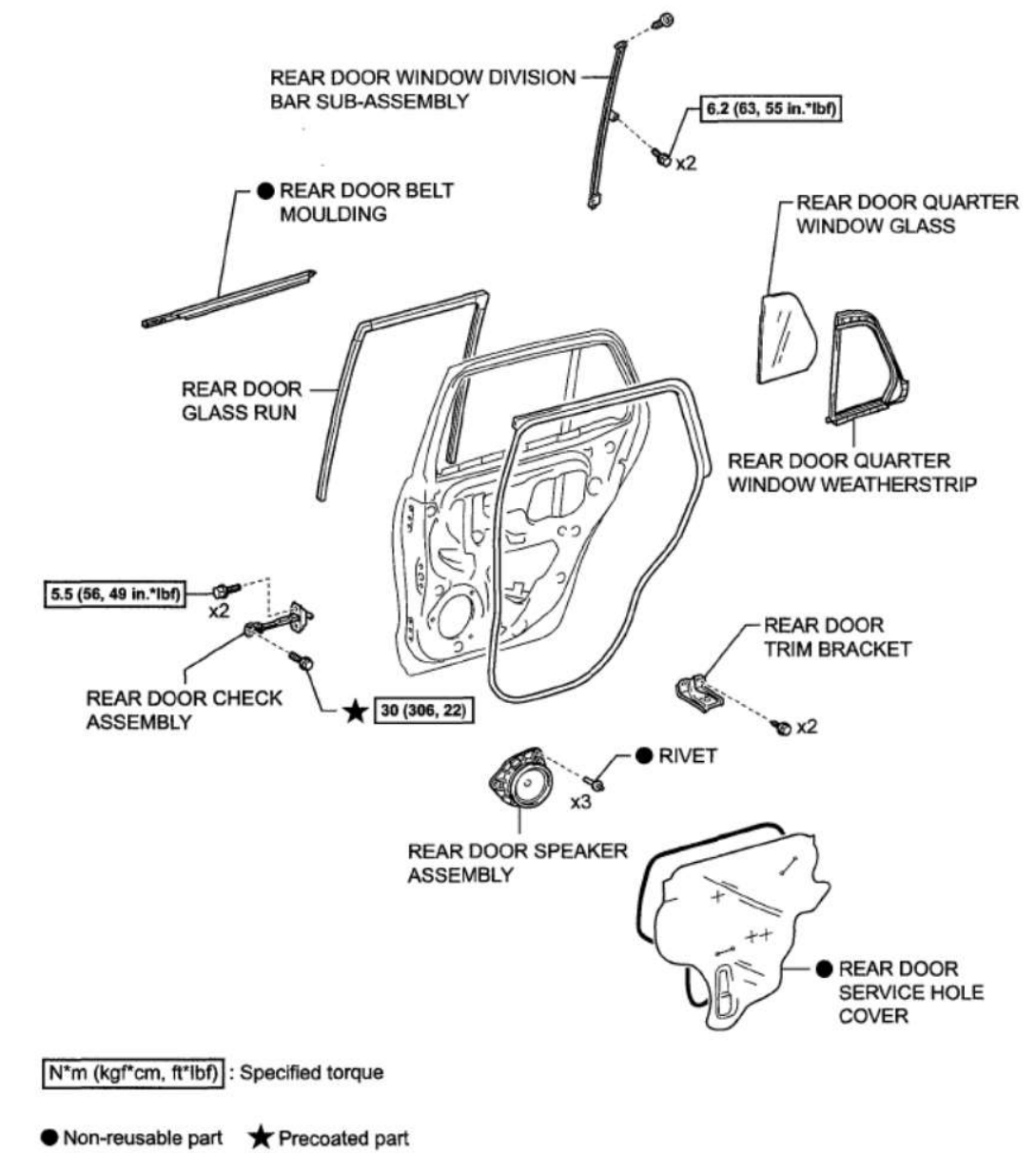


Fig. 80: Identifying Rear Door Components With Torque Specifications (2 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD

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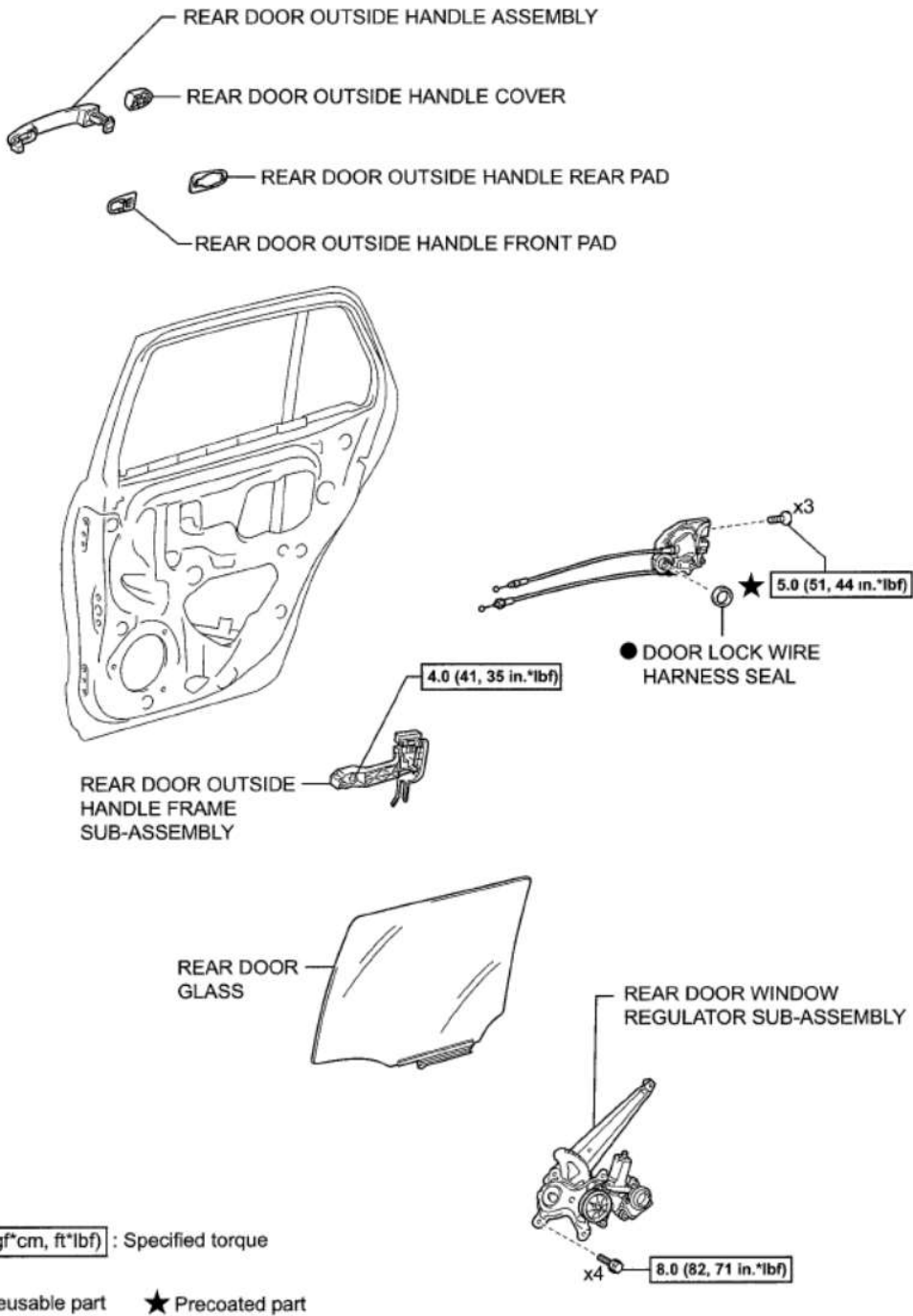


Fig. 81: Identifying Rear Door Components With Torque Specifications (3 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISASSEMBLY

HINT:

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- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the RH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION: Wait for 90 seconds after disconnecting the cable to prevent the airbag from working.

2. REMOVE REAR DOOR ARMREST BASE UPPER PANEL

- Remove the screw.
- Disengage the 7 claws and clip and remove the rear door armrest base upper panel.

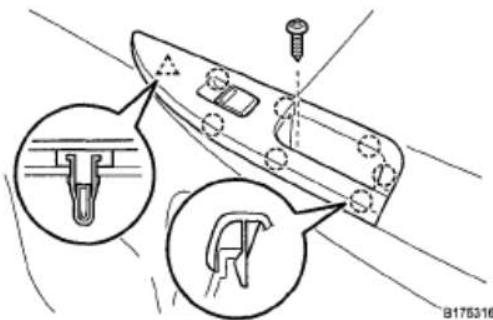
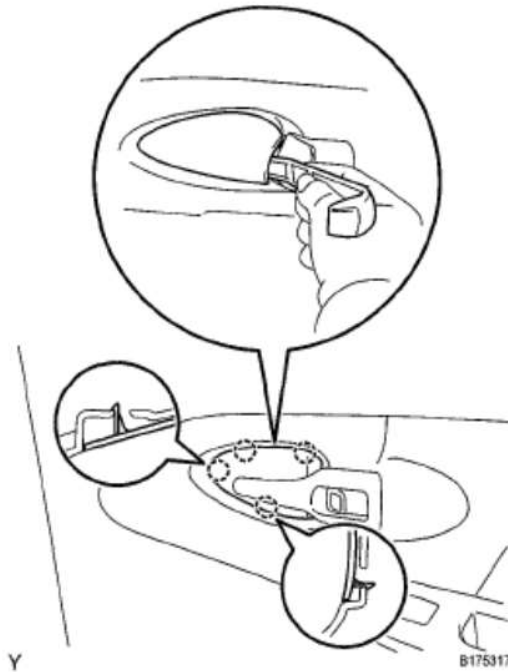


Fig. 82: Identifying Claws And Clip Location
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Disconnect the connector.

3. REMOVE REAR DOOR INSIDE HANDLE BEZEL

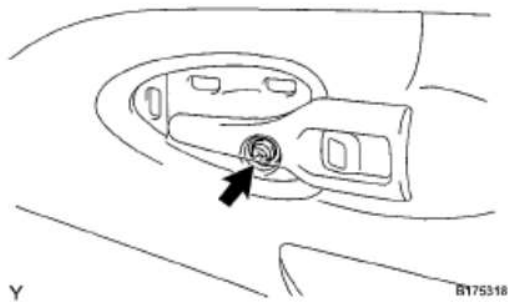
- Disengage the 4 claws and remove the rear door inside handle bezel.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD****Fig. 83: Disengaging Claws**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY

- a. Remove the screw.

**Fig. 84: Locating Screw**

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Disengage the 7 clips.

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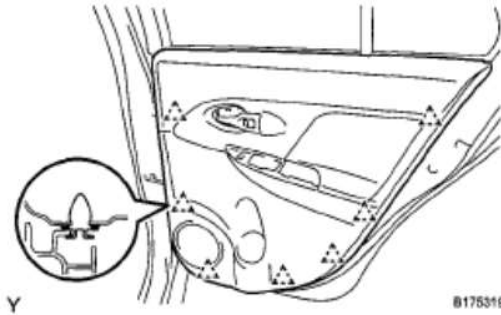


Fig. 85: Identifying Clips Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Disconnect the rear door lock remote control cable and the rear door inside locking cable and remove the rear door trim board sub-assembly.

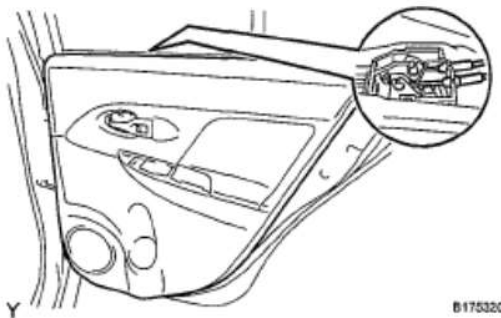


Fig. 86: Identifying Rear Door Lock Remote Control Cable And Rear Door Inside Locking Cable

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Disconnect the connector.

5. REMOVE REAR DOOR INSIDE HANDLE SUB-ASSEMBLY

- a. Disengage the 2 claws and remove the rear door inside handle sub-assembly.

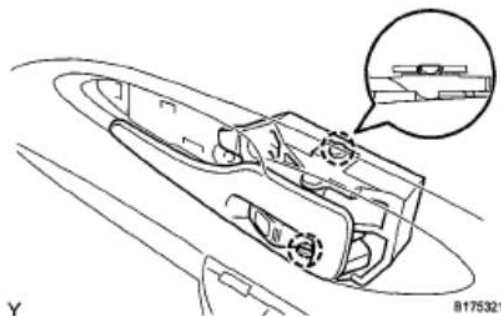


Fig. 87: Identifying Claws Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD****6. REMOVE REAR DOOR GLASS INNER WEATHERSTRIP**

- a. Raise the 5 claws of the rear door glass inner weatherstrip and then remove the rear door glass inner weatherstrip from the rear door trim board assembly, as shown in the illustration.

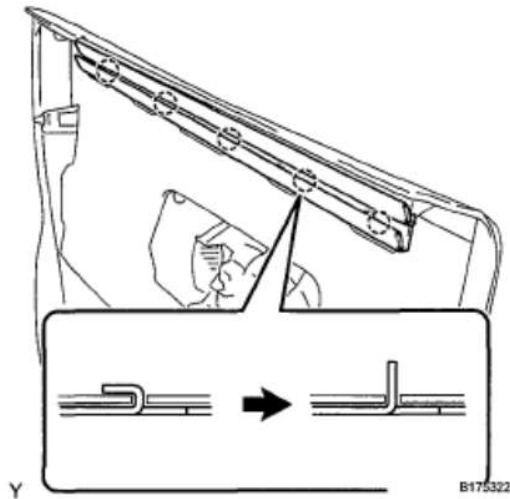


Fig. 88: Identifying Claws Of Rear Door Glass Inner Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. REMOVE REAR DOOR SPEAKER ASSEMBLY (See REMOVAL)**8. REMOVE REAR DOOR TRIM BRACKET**

- a. Remove 2 screws and remove the rear door trim bracket.

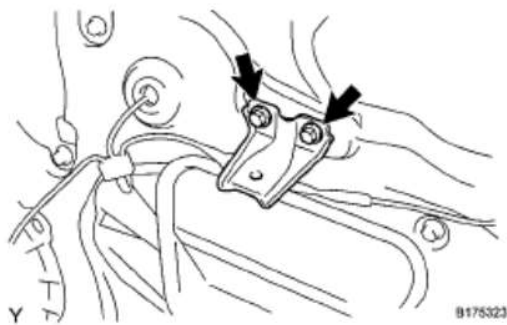


Fig. 89: Locating Screws And Rear Door Trim Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. REMOVE REAR DOOR SERVICE HOLE COVER

- a. Disconnect the connectors and clamps, then remove the rear door service hole cover.

NOTE: Remove any tape remaining on the door.

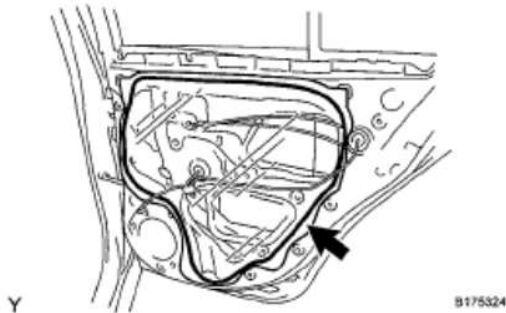
2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD**

Fig. 90: Identifying Rear Door Service Hole Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. REMOVE REAR DOOR CHECK ASSEMBLY

- a. Remove the 3 bolts, then remove the rear door check assembly.

NOTE: Do not drop or damage the rear door check assembly when removing the bolts.

HINT:

Remove the rear door check assembly through the service hole.

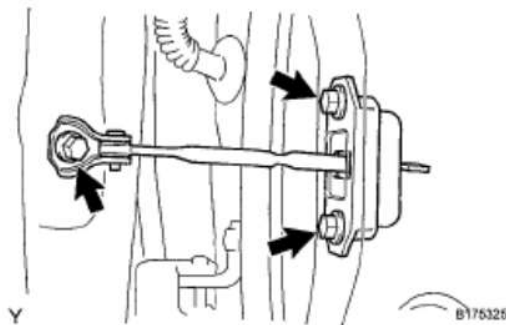


Fig. 91: Locating Bolts And Rear Door Check Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

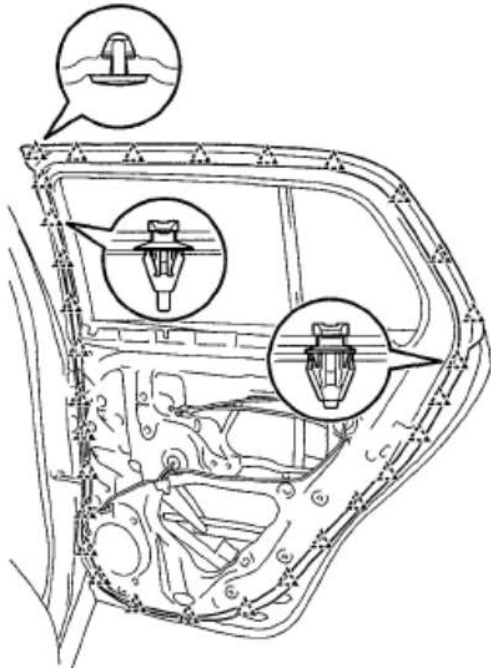
11. REMOVE REAR DOOR WEATHERSTRIP

- a. Disengage the 30 clips and remove the rear door weatherstrip.

NOTE: Remove any tape remaining on the door.

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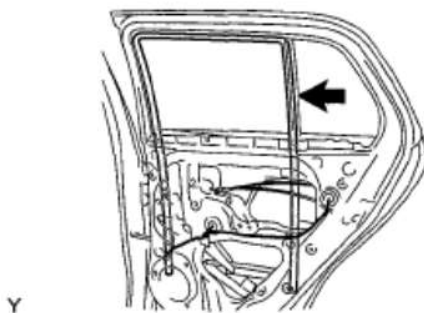
2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD



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Fig. 92: Identifying Clips And Rear Door Weatherstrip
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. **REMOVE REAR DOOR BELT MOLDING** (See REMOVAL)
13. **REMOVE REAR DOOR GLASS RUN**
 - a. Remove the rear door glass run.



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Fig. 93: Identifying Rear Door Glass Run
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

14. **REMOVE REAR DOOR WINDOW DIVISION BAR SUB-ASSEMBLY**
 - a. Remove the 2 bolts and screw and remove the rear door window division bar sub-assembly.

NOTE: Do not drop or damage the rear door window division bar sub-assembly when removing the bolts and screw.

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Fig. 94: Locating Bolts And Screw And Rear Door Window Division Bar Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

15. REMOVE REAR DOOR QUARTER WINDOW WEATHERSTRIP

- Slide the rear door quarter window weatherstrip and the rear door quarter window glass, in the direction indicated by the arrow in the illustration, to remove them.

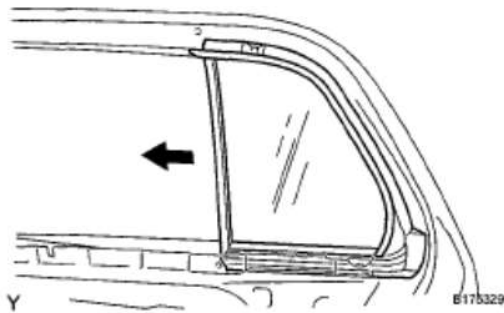


Fig. 95: Sliding Rear Door Quarter Window Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

16. REMOVE REAR DOOR QUARTER WINDOW GLASS

- Remove the rear door quarter window glass from the rear door quarter window weatherstrip.

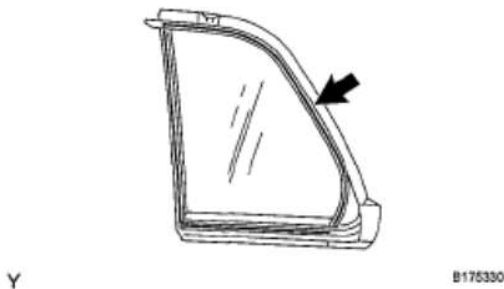


Fig. 96: Locating Rear Door Quarter Window Glass
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

17. REMOVE REAR DOOR GLASS

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- a. Remove the rear door glass from the rear door window regulator.

NOTE: Do not damage the door glass.



Fig. 97: Identifying Rear Door Window Regulator
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

18. REMOVE REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY

- a. Disconnect the connector.
- b. Loosen bolt A.
- c. Remove the 3 bolts, then remove the rear door window regulator sub-assembly.

NOTE: Do not drop or damage the rear door window regulator sub-assembly when removing the bolts.

HINT:

Remove the rear door window regulator sub-assembly through the service hole.

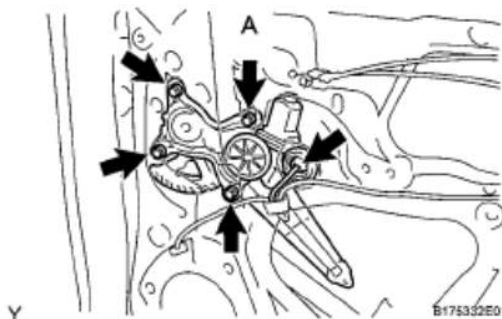


Fig. 98: Locating Bolts And Rear Door Window Regulator Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

19. REMOVE REAR DOOR LOCK ASSEMBLY (See REMOVAL)
20. REMOVE REAR DOOR OUTSIDE HANDLE COVER

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- a. Using "TORX" socket wrench T30, remove the screw and the rear door outside handle cover.

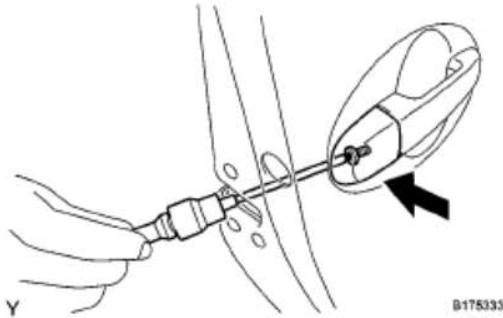


Fig. 99: Removing Screw

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

21. REMOVE REAR DOOR OUTSIDE HANDLE ASSEMBLY

- a. Remove the rear door outside handle assembly by sliding and pulling it in the direction indicated by the arrow mark in the illustration.

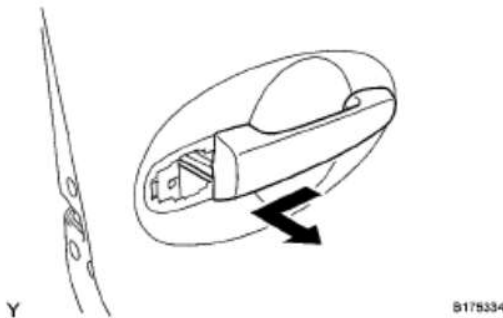


Fig. 100: Removing Rear Door Outside Handle Assembly By Sliding

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

22. REMOVE REAR DOOR OUTSIDE HANDLE REAR PAD

- a. Disengage the 2 claws and remove the rear door outside handle rear pad.

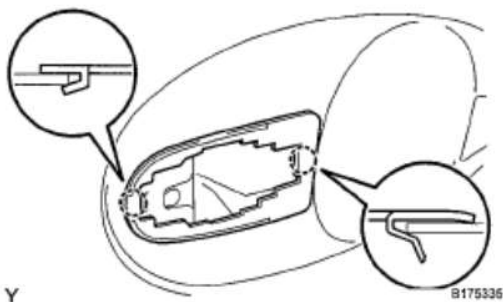


Fig. 101: Identifying Claws And Rear Door Outside Handle Rear Pad

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

23. REMOVE REAR DOOR OUTSIDE HANDLE FRONT PAD

- Using "TORX" socket wrench T30, loosen the screw.

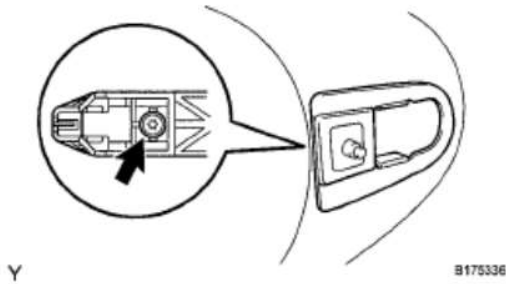


Fig. 102: Locating Screw

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- Disengage the 2 claws and remove the rear door outside handle front pad.

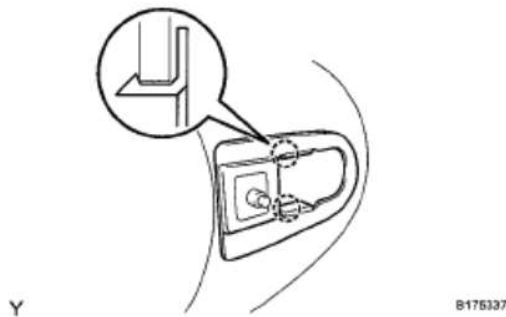


Fig. 103: Identifying Claws And Rear Door Outside Handle Front Pad

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

24. REMOVE REAR DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY

- Slide the rear door outside handle frame sub-assembly to remove it.

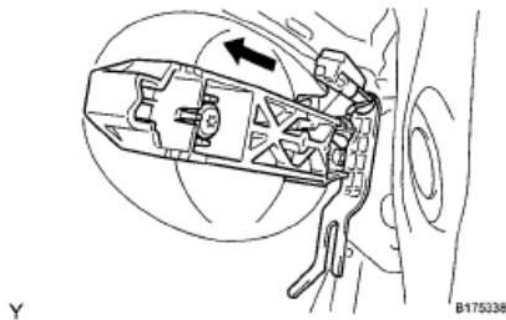


Fig. 104: Sliding Rear Door Outside Handle Frame Sub-Assembly

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Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ADJUSTMENT

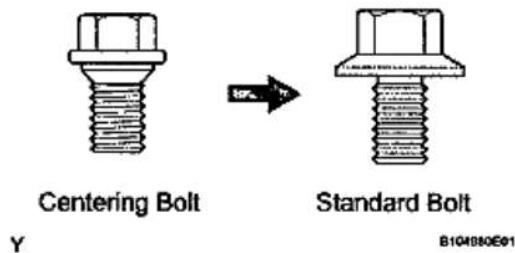


Fig. 105: Identifying Centering Bolt And Standard Bolt

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

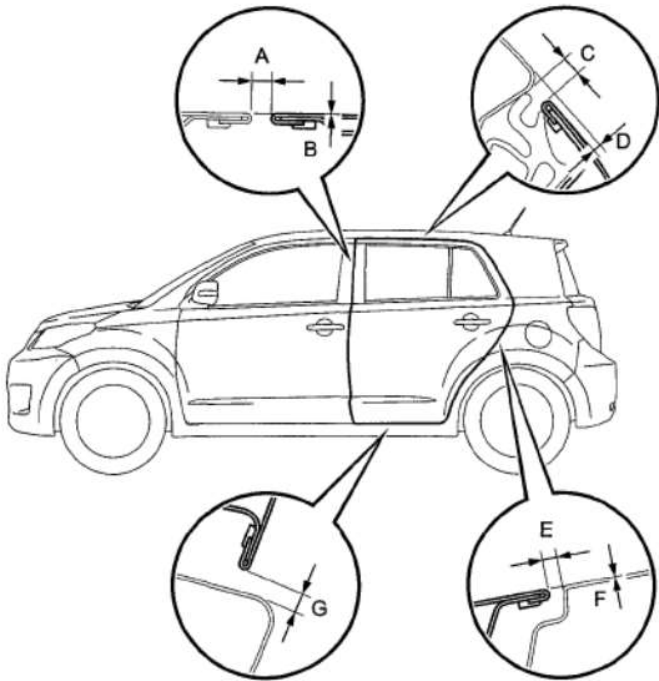
- Use the same procedure for the RH and LH sides.
- The procedures described below are for the RH side.
- Centering bolts are used to mount the door hinge onto the vehicle body and door. The door cannot be adjusted with the centering bolts in. Substitute standard bolts (with washers) for the centering bolts when making adjustments.
- For bolts without torque specifications, check the standard bolt chart (see **SPECIFIED TORQUE FOR STANDARD BOLTS**).

1. INSPECT REAR DOOR

- a. Check that the clearance measurements are within the standard ranges.

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Fig. 106: Identifying Rear Door Clearance
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard

AREA MEASUREMENT CHART

Area	Measurement	Area	Measurement
A	3.6 to 6.6 mm (0.142 to 0.260 in.)	E	3.0 to 6.0 mm (0.118 to 0.236 in.)
B	-1.5 to 1.5 mm (-0.059 to 0.059 in.)	F	-1.5 to 1.5 mm (-0.059 to 0.059 in.)
C	3.6 to 6.6 mm (0.142 to 0.260 in.)	G	3.7 to 6.7 mm (0.146 to 0.264 in.)
D	2.3 mm (0.091 in.)	-	-

2. ADJUST REAR DOOR

- a. Disconnect the cable from the negative battery terminal.

NOTE: Wait for at least 90 seconds after disconnecting the cable to prevent the airbag from working.

- b. Adjust the door horizontally and vertically by loosening the body side hinge bolts.

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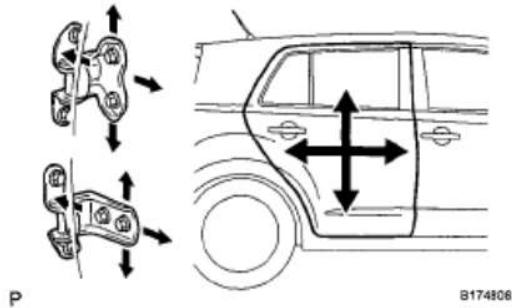


Fig. 107: Adjusting Door Horizontally And Vertically
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Tighten the body side hinge bolts after the adjustment.

Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)

- d. Adjust the door horizontally and vertically by loosening the door side hinge bolts.

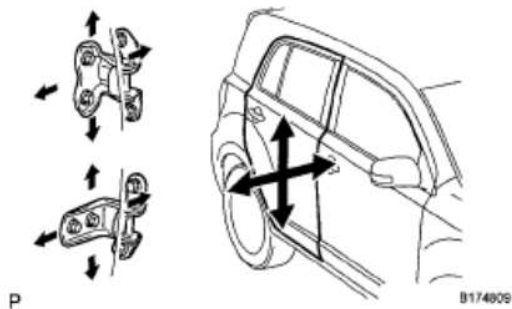


Fig. 108: Adjusting Door Horizontally And Vertically
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- e. Tighten the door side hinge bolts after the adjustment.

Torque: 26 N*m (265 kgf*cm, 19 ft.*lbf)

- f. Using "TORX" socket wrench T40, adjust the striker position by slightly loosening the striker mounting screws and hitting the striker with a plastic-faced hammer.

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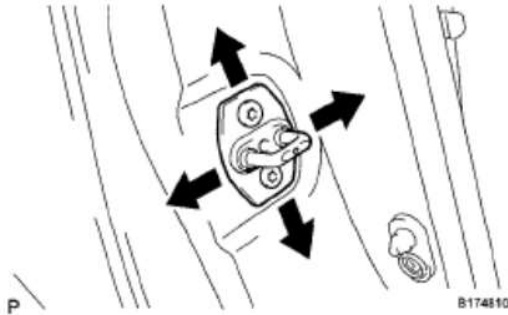


Fig. 109: Adjusting Striker Position

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- g. Using "TORX" socket wrench T40, tighten the striker mounting screws after the adjustment.

Torque: 23 N*m (235 kgf*cm, 17 ft.*lbf)

- h. Connect the cable to the negative battery terminal.

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

REASSEMBLY

1. INSTALL REAR DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY

- Apply MP grease to the sliding areas of the rear door outside handle frame sub-assembly.
- Slide the rear door outside handle frame sub-assembly to install it.

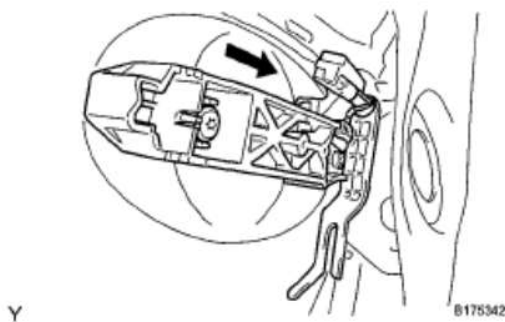


Fig. 110: Sliding Rear Door Outside Handle Frame Sub-Assembly

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL REAR DOOR OUTSIDE HANDLE FRONT PAD

- Engage the 2 claws and install the rear door outside handle front pad.

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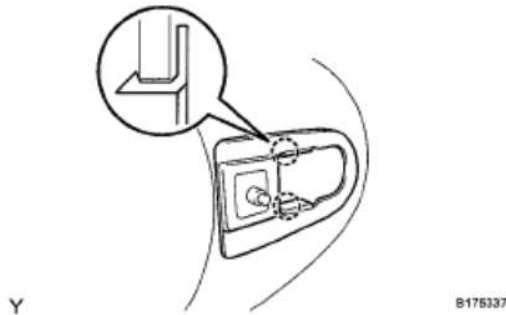


Fig. 111: Identifying Claws And Rear Door Outside Handle Front Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Using TORX" socket wrench T30, tighten the screw.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

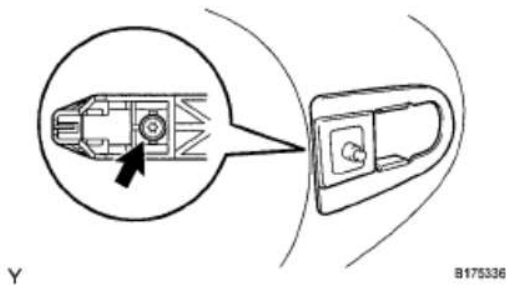


Fig. 112: Locating Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. INSTALL REAR DOOR OUTSIDE HANDLE REAR PAD

- a. Engage the 2 claws and install the rear door outside handle rear pad.

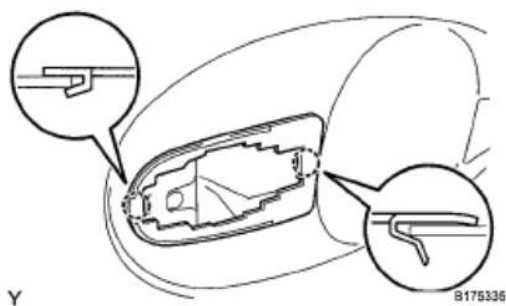


Fig. 113: Identifying Claws And Rear Door Outside Handle Rear Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. INSTALL REAR DOOR OUTSIDE HANDLE ASSEMBLY

- a. Install the rear door outside handle assembly by pushing it in the direction indicated by the arrow

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mark shown in the illustration.

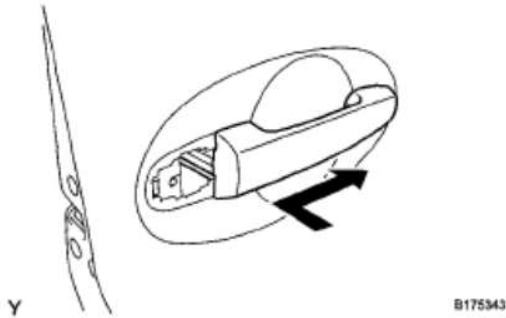


Fig. 114: Installing Rear Door Outside Handle Assembly By Pushing
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. INSTALL REAR DOOR OUTSIDE HANDLE COVER

- Using "TORX" socket wrench T30, install the rear door outside handle cover with the screw.

Torque: 4.0 N*m (41 kgf*cm, 35 in.*lbf)

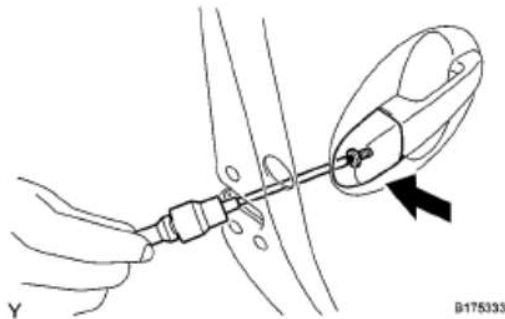


Fig. 115: Installing Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. INSTALL REAR DOOR LOCK ASSEMBLY (See INSTALLATION)

7. INSTALL REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY

- Apply MP grease to the sliding and rotating areas of the rear door window regulator sub-assembly.

NOTE: Do not apply grease to the rear door window regulator spring.

- Loosely screw bolt A onto the rear door window regulator sub-assembly.

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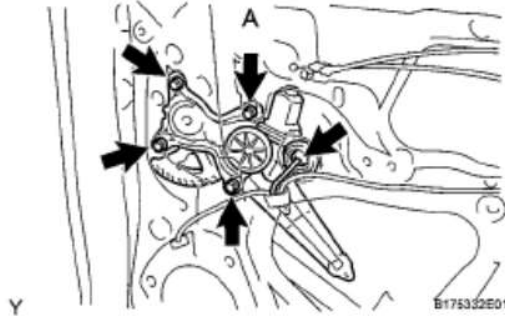


Fig. 116: Locating Bolts And Rear Door Window Regulator Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Insert the rear door window regulator sub-assembly into the door panel. Provisionally tighten bolt A to hang the rear door window regulator sub-assembly on the door panel.

NOTE: Do not drop the rear door window regulator sub-assembly as it may be damaged.

- d. Install the rear door window regulator sub-assembly with the 3 bolts, and tighten bolt A.

Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)

- e. Connect the connector.

8. INSTALL REAR DOOR GLASS

- a. Install the rear door glass onto the rear door window regulator.

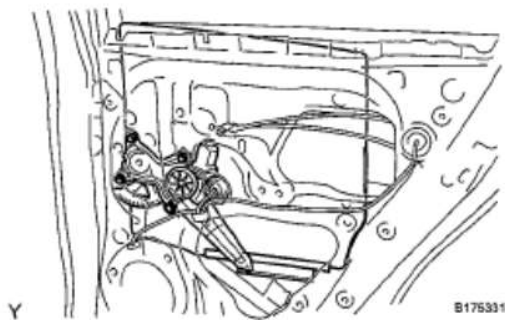


Fig. 117: Identifying Rear Door Window Regulator
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. INSTALL REAR DOOR QUARTER WINDOW GLASS

- a. Install the rear door quarter window glass onto the rear door quarter window weatherstrip.

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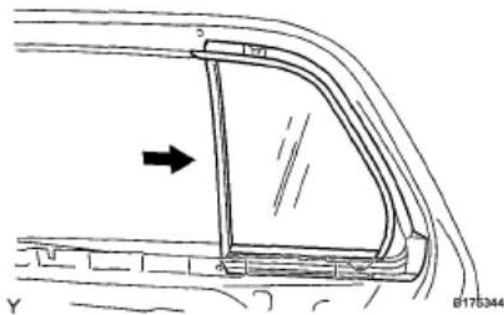
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Fig. 118: Locating Rear Door Quarter Window Glass
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. INSTALL REAR DOOR QUARTER WINDOW WEATHERSTRIP

- Slide the rear door quarter window weatherstrip and the rear door quarter window glass, in the direction indicated by the arrow in the illustration, to install them.



Y

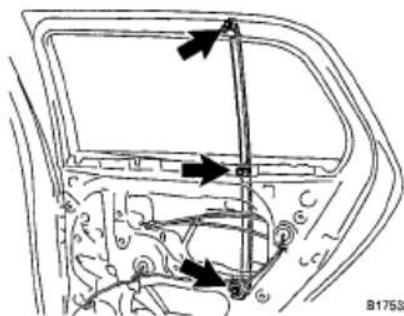
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Fig. 119: Sliding Rear Door Quarter Window Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

11. INSTALL REAR DOOR WINDOW DIVISION BAR SUB-ASSEMBLY

- Install the rear door window division bar sub-assembly with the 2 bolts and screw.

Torque: 6.2 N*m (63 kgf*cm, 55 in.*lbf) for bolt



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Fig. 120: Locating Bolts And Screw And Rear Door Window Division Bar Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2008 Scion xD**2008 ACCESSORIES AND EQUIPMENT Engine Hood/Door - xD****12. INSTALL REAR DOOR GLASS RUN**

- a. Install the rear door glass run.

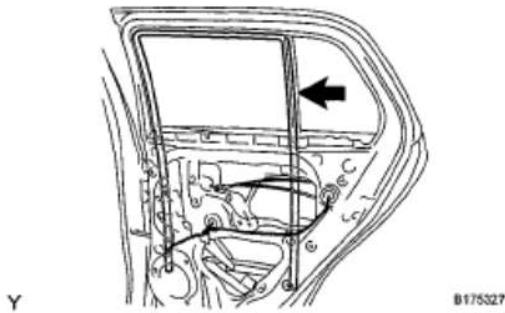


Fig. 121: Identifying Rear Door Glass Run
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. INSTALL REAR DOOR BELT MOLDING (See INSTALLATION)**14. INSTALL REAR DOOR WEATHERSTRIP**

- a. Engage the 30 clips and install the rear door weatherstrip.

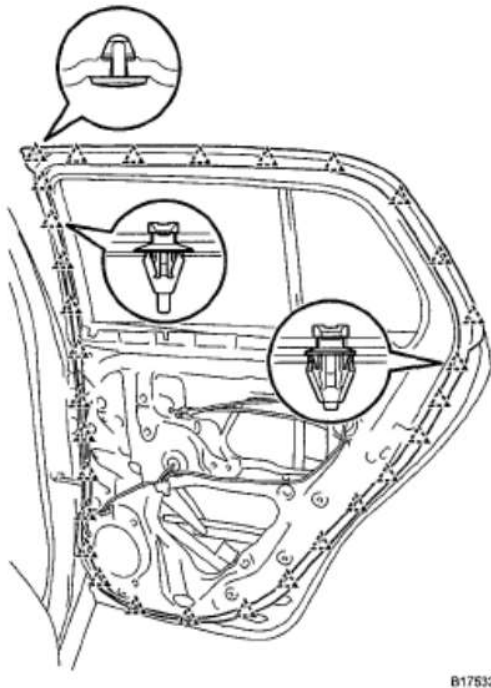


Fig. 122: Identifying Clips And Rear Door Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

15. INSTALL REAR DOOR CHECK ASSEMBLY

- a. Apply MP grease to the sliding areas of the rear door check assembly.

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- b. Install the rear door check assembly onto the door panel with the 2 bolts.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

- c. Apply adhesive to the threads of the bolt.

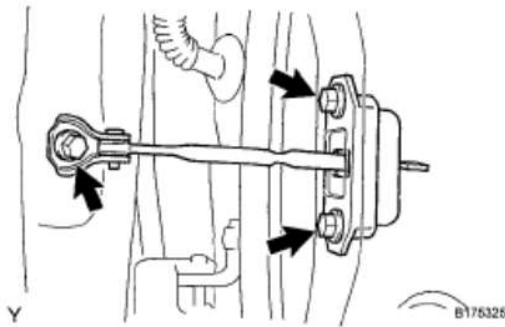


Fig. 123: Locating Bolts And Rear Door Check Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Adhesive: Toyota Genuine Adhesive 1324, Three Bond 1324 or Equivalent

- d. Install the rear door check assembly onto the body panel with the bolt.

Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)

16. INSTALL REAR DOOR SERVICE HOLE COVER

- a. Apply butyl tape to the door panel, then install a new rear door service hole cover as shown in the illustration.

HINT:

- When installing the service hole cover, pull the links and connectors out through the service hole.
- There should be no wrinkles or folds after attaching the service hole cover.
- After attaching the service hole cover, check the quality of the seal.

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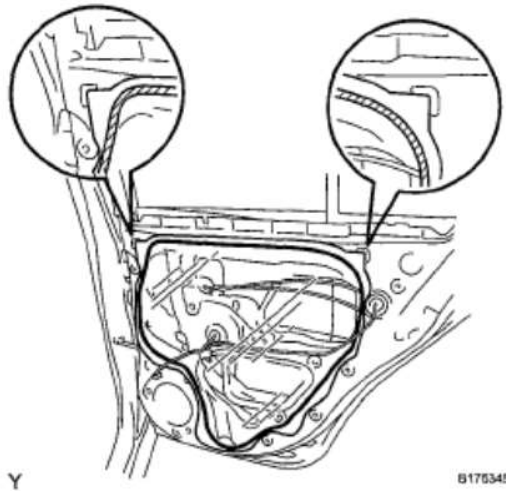


Fig. 124: Identifying Rear Door Service Hole Cover
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect the connector and clamp.

17. INSTALL REAR DOOR TRIM BRACKET

- a. Install the rear door trim bracket with the 2 screws.

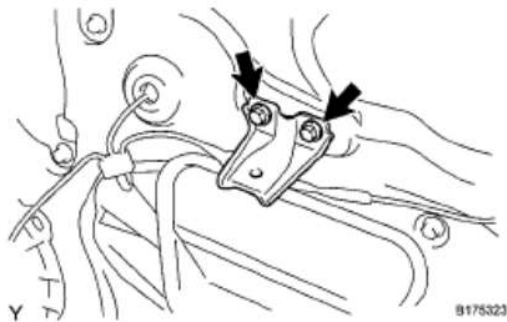


Fig. 125: Locating Screws And Rear Door Trim Bracket
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

18. INSTALL REAR DOOR SPEAKER ASSEMBLY (See INSTALLATION)

19. INSTALL REAR DOOR GLASS INNER WEATHERSTRIP

- a. Install the rear door glass inner weatherstrip on the rear door trim board assembly and fold down the 5 claws, as shown in the illustration.

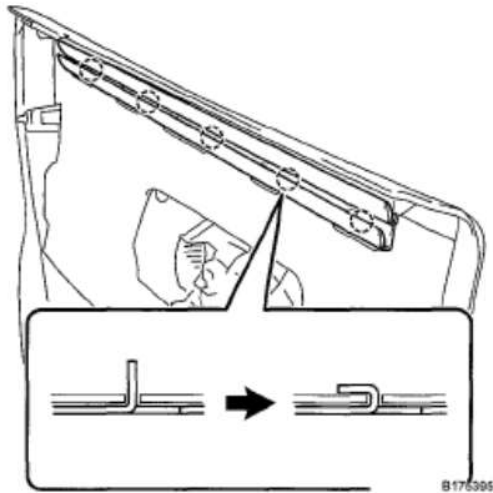
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Fig. 126: Identifying Rear Door Glass Inner Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

20. INSTALL REAR DOOR INSIDE HANDLE SUB-ASSEMBLY

- a. Engage the 2 claws and install the rear door inside handle sub-assembly.

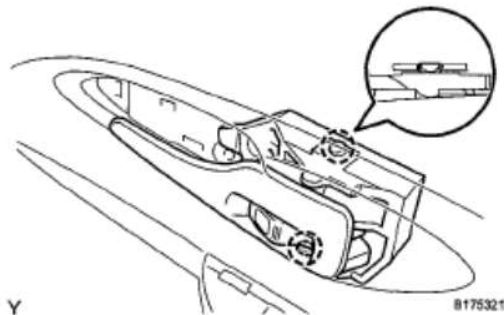


Fig. 127: Identifying Claws Location
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

21. INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY

- a. Connect the rear door lock remote control cable and the rear door inside locking cable.

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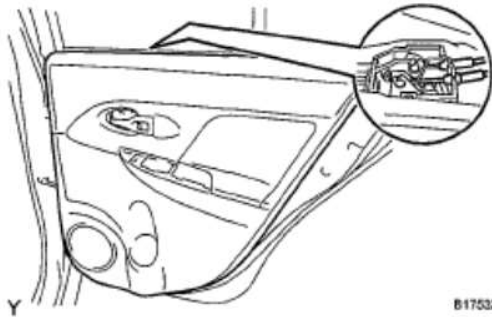


Fig. 128: Identifying Rear Door Lock Remote Control Cable And Rear Door Inside Locking Cable

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Connect the connector.
- c. Engage the 7 clips and install the rear door trim board sub-assembly.

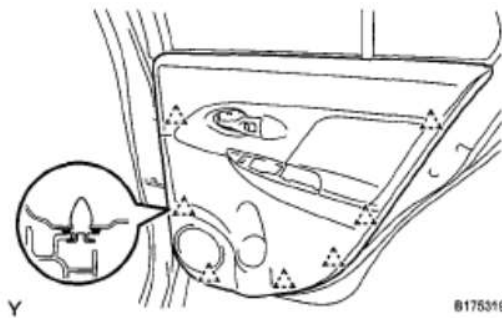


Fig. 129: Identifying Clips Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- d. Tighten the screw.

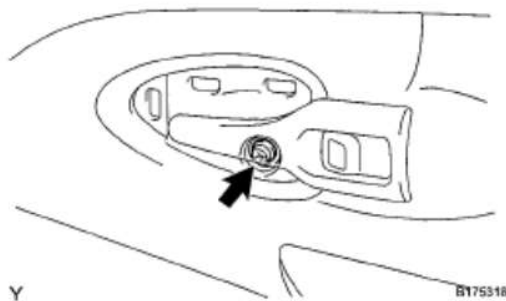


Fig. 130: Locating Screw

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

22. INSTALL REAR DOOR INSIDE HANDLE BEZEL

- a. Engage the 4 claws and install the rear door inside handle bezel.

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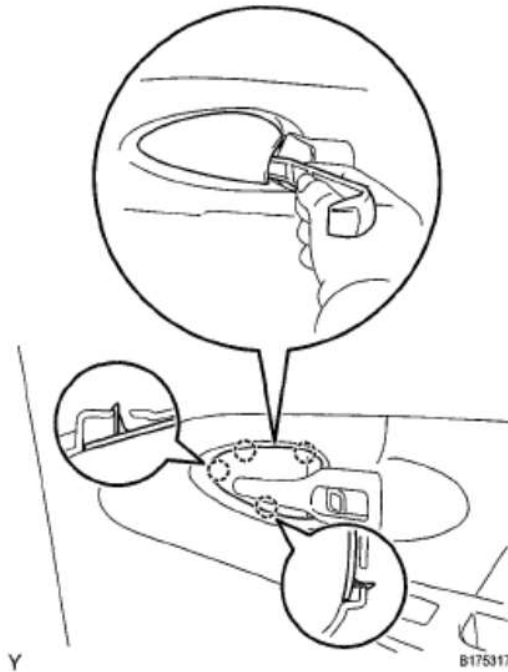


Fig. 131: Engaging Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

23. INSTALL REAR DOOR ARMREST BASE UPPER PANEL

- a. Connect the connector.
- b. Engage the clip and 7 claws and install the rear door armrest base upper panel.

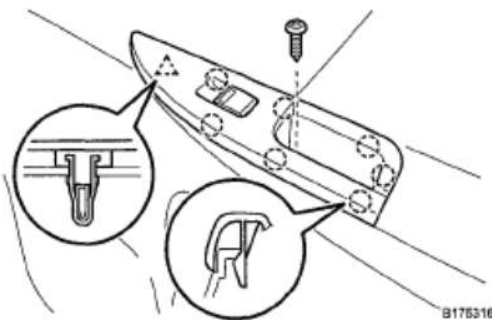


Fig. 132: Identifying Claws And Clip Location

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Tighten the screw.

24. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

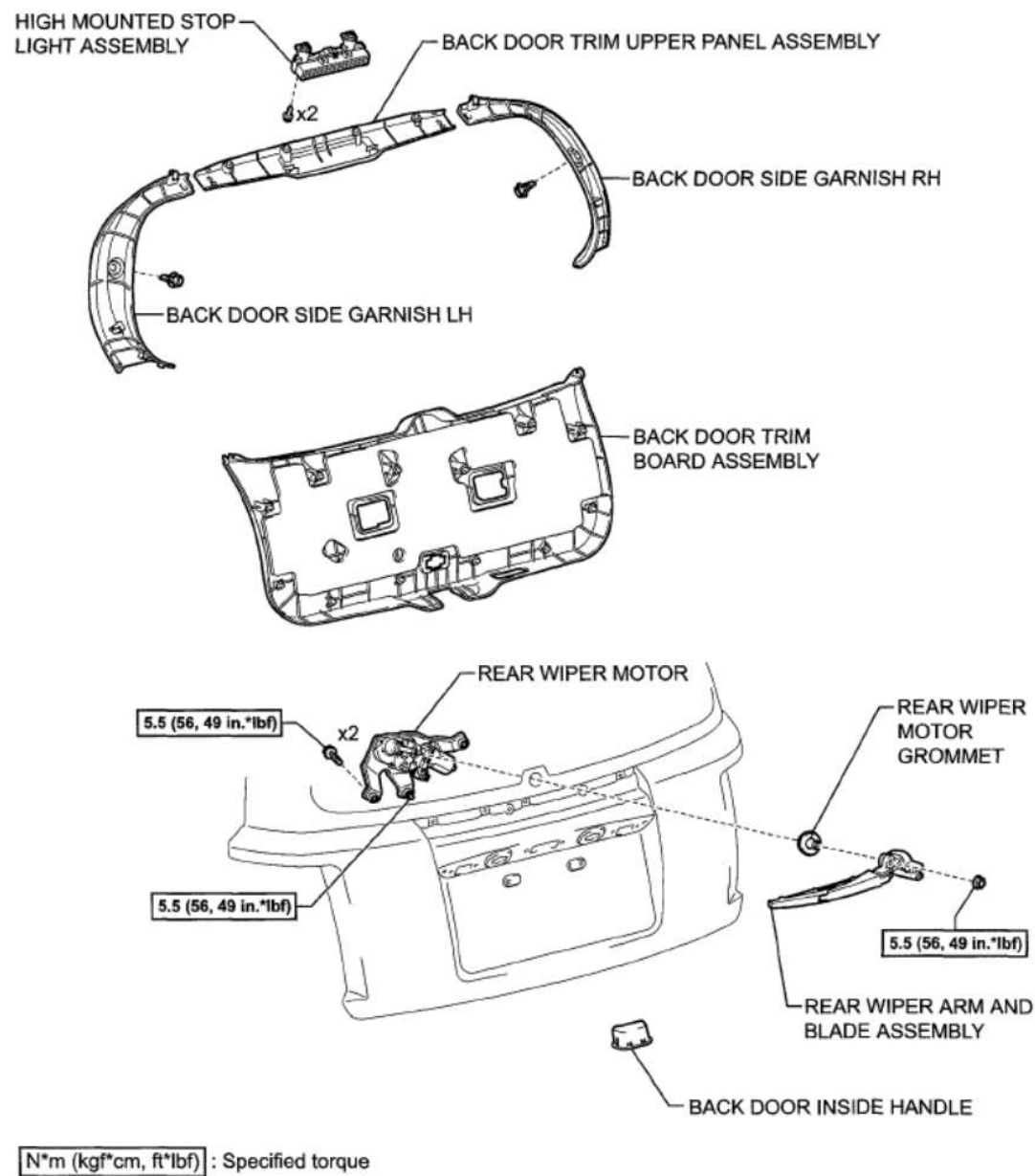
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)

BACK DOOR

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COMPONENTS



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Fig. 133: Identifying Back Door Components And Torque Specifications (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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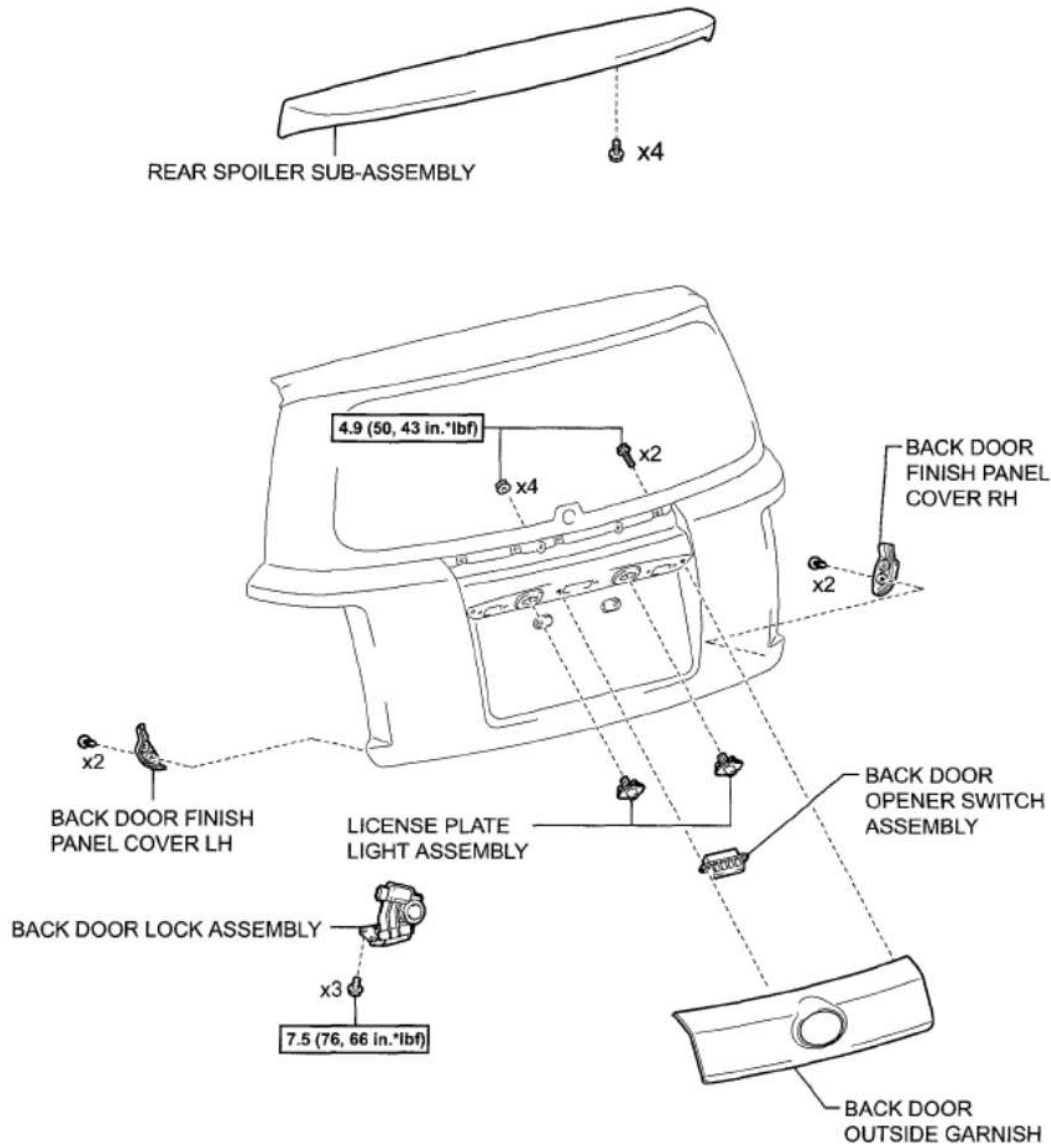


Fig. 134: Identifying Back Door Components And Torque Specification (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISASSEMBLY

1. REMOVE BACK DOOR TRIM UPPER PANEL ASSEMBLY

- Disengage the 4 clips and 2 claws and remove the back door trim upper panel assembly.

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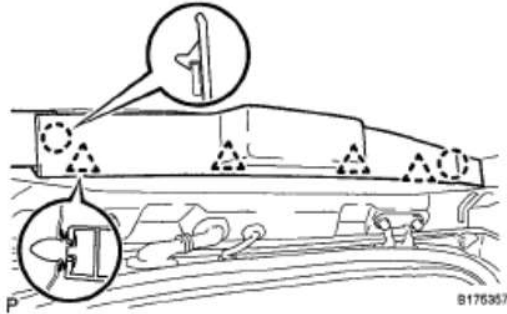


Fig. 135: Identifying Clips And Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. REMOVE BACK DOOR SIDE GARNISH LH

- a. Remove the pin.
- b. Disengage the 3 clips and 2 claws and remove the back door side garnish LH.

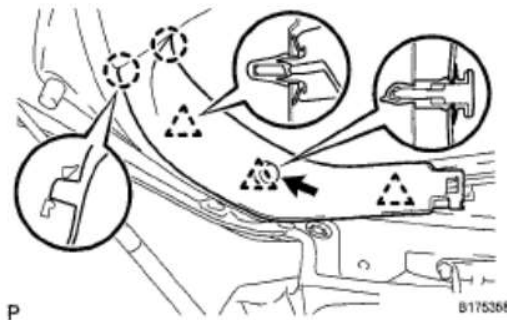


Fig. 136: Identifying Clips And Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. REMOVE BACK DOOR SIDE GARNISH RH

HINT:

Use the same procedure as for the LH side.

4. REMOVE HIGH MOUNTED STOP LIGHT ASSEMBLY (See REMOVAL)

5. REMOVE BACK DOOR INSIDE HANDLE

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 4 claws and remove the back door inside handle.

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Fig. 137: Removing Protective Tape Using Screwdriver
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. REMOVE BACK DOOR TRIM BOARD ASSEMBLY

- Disengage the 12 clips and remove the back door trim board assembly.

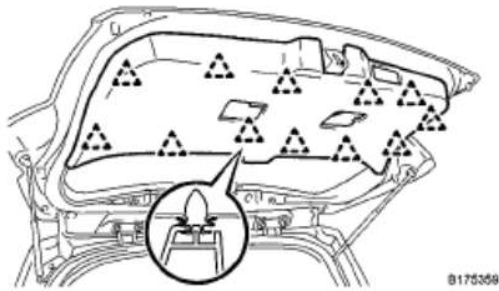


Fig. 138: Identifying Clips Locations
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. REMOVE BACK DOOR FINISH PANEL COVER LH

- Remove the 2 clips and remove the back door finish panel cover LH.

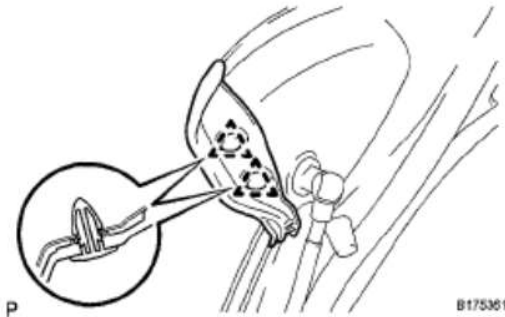


Fig. 139: Identifying Clips Locations
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. REMOVE BACK DOOR FINISH PANEL COVER RH

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HINT:

Use the same procedure as for the LH side.

9. **REMOVE REAR WIPER ARM AND BLADE ASSEMBLY** (See **REMOVAL**)
10. **REMOVE REAR WIPER MOTOR** (See **REMOVAL**)
11. **REMOVE REAR WIPER MOTOR GROMMET** (See **REMOVAL**)
12. **REMOVE BACK DOOR OUTSIDE GARNISH** (See **REMOVAL**)
13. **REMOVE BACK DOOR OPENER SWITCH ASSEMBLY** (See **REMOVAL**)
14. **REMOVE LICENSE PLATE LIGHT ASSEMBLY** (See **REMOVAL**)
15. **REMOVE BACK DOOR LOCK ASSEMBLY** (See **REMOVAL**)
16. **REMOVE REAR SPOILER SUB-ASSEMBLY** (See **REMOVAL**)

ADJUSTMENT

HINT:

- Centering bolts are used to mount the door hinge onto the vehicle body and door. The door cannot be adjusted with the centering bolts in. Substitute standard bolts (with washers) for the centering bolts when making adjustments.
- For bolts without torque specifications, check the standard bolt chart (see **SPECIFIED TORQUE FOR STANDARD BOLTS**).

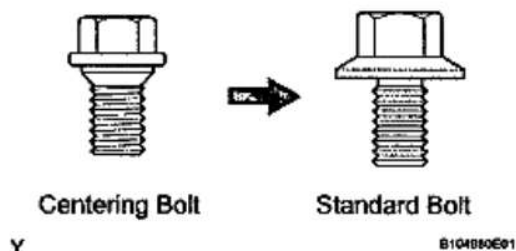


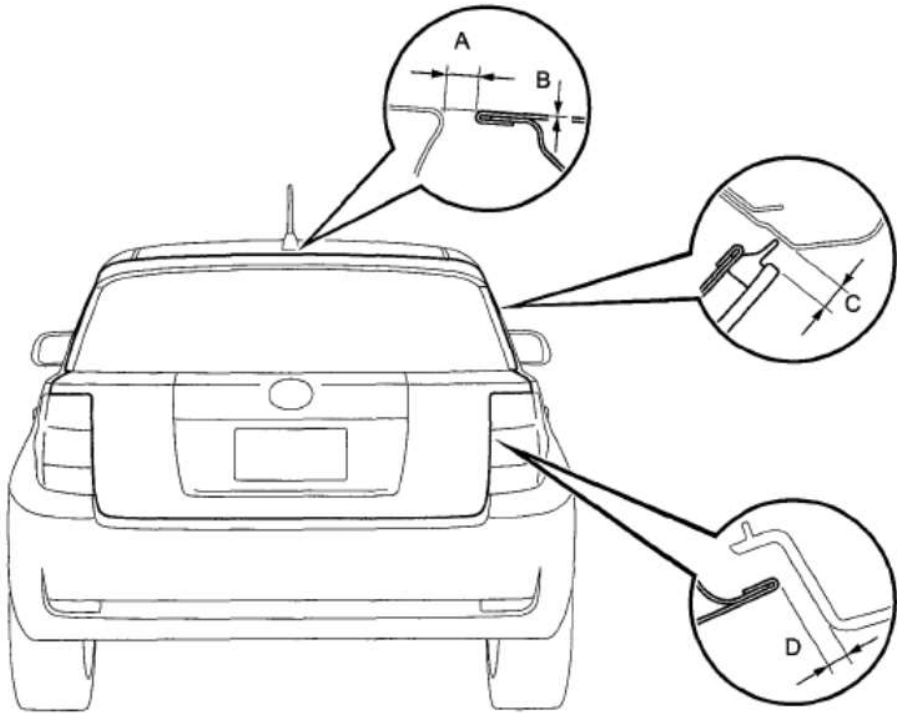
Fig. 140: Identifying Centering Bolt And Standard Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. INSPECT BACK DOOR

- a. Check that the clearance measurements are within the standard ranges.

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Fig. 141: Identifying Back Door Clearance
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard

AREA MEASUREMENT CHART

Area	Measurement	Area	Measurement
A	6.0 to 9.0 mm (0.236 to 0.354 in.)	C	4.4 to 7.4 mm (0.173 to 0.291 in.)
B	-1.5 to 1.5 (-0.059 to 0.059 in.)	D	3.7 to 6.7 mm (0.146 to 0.264 in.)

- 2. REMOVE DECK BOARD ASSEMBLY (See REMOVAL)
- 3. REMOVE REAR DECK TRIM COVER (See REMOVAL)
- 4. ADJUST BACK DOOR
 - a. Adjust the door position.
 - 1. Horizontally and vertically adjust the door by loosening the door side hinge bolts.

Torque: 19 N*m (194 kgf*cm, 14 ft.*lbf)

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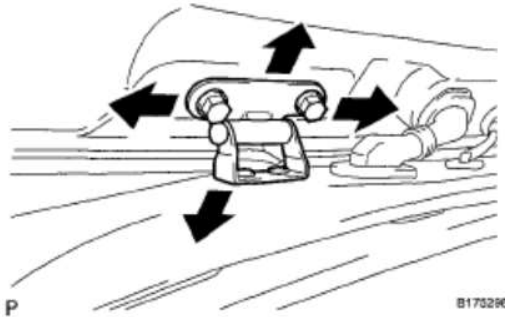


Fig. 142: Adjusting Door Position

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Adjust the striker position.
 1. Adjust the striker position by slightly loosening the striker mounting bolts and hitting the striker with a plastic hammer.
 2. Tighten the striker mounting bolts after the adjustment.

Torque: 12 N*m (117 kgf*cm, 8 ft.*lbf)

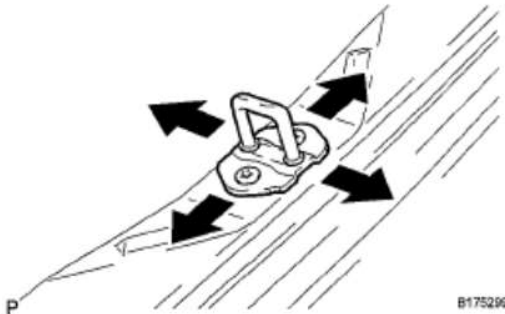


Fig. 143: Adjusting Striker Position

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL REAR DECK TRIM COVER** (See INSTALLATION)
6. **INSTALL DECK BOARD ASSEMBLY** (See INSTALLATION)

REASSEMBLY

1. **INSTALL REAR SPOILER SUB-ASSEMBLY** (See INSTALLATION)
2. **INSTALL BACK DOOR LOCK ASSEMBLY** (See INSTALLATION)
3. **INSTALL LICENSE PLATE LIGHT ASSEMBLY** (See INSTALLATION)
4. **INSTALL BACK DOOR OPENER SWITCH ASSEMBLY** (See INSTALLATION)
5. **INSTALL BACK DOOR OUTSIDE GARNISH** (See INSTALLATION)
6. **INSTALL REAR WIPER MOTOR GROMMET** (See INSTALLATION)

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7. **INSTALL REAR WIPER MOTOR** (See INSTALLATION)
8. **INSTALL REAR WIPER ARM AND BLADE ASSEMBLY** (See INSTALLATION)
9. **INSTALL BACK DOOR FINISH PANEL COVER LH**
 - a. Install the back door finish panel cover with the 2 clips.

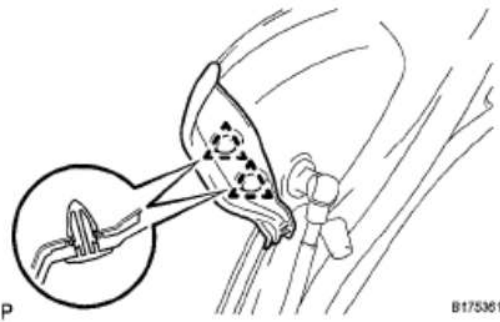


Fig. 144: Identifying Clips Locations

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. **INSTALL BACK DOOR FINISH PANEL COVER RH**

HINT:

Use the same procedure as for the LH side.

11. **INSTALL BACK DOOR TRIM BOARD ASSEMBLY**
 - a. Engage the 12 clips and install the back door trim board assembly.

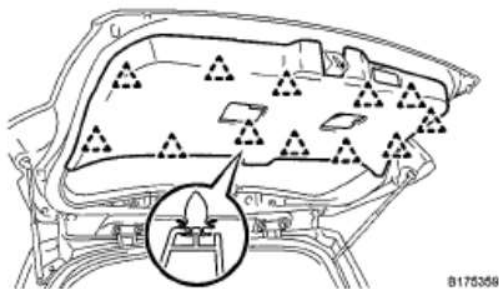


Fig. 145: Identifying Clips Locations

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. **INSTALL BACK DOOR INSIDE HANDLE**
 - a. Engage the 4 claws and install the door pull handle.

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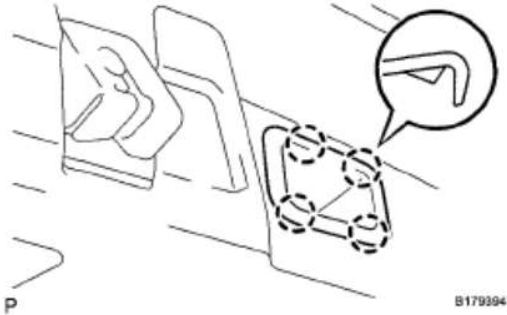


Fig. 146: Identifying Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. **INSTALL HIGH MOUNTED STOP LIGHT ASSEMBLY** (See **INSTALLATION**)
14. **INSTALL BACK DOOR SIDE GARNISH LH**
 - a. Engage the 3 clips and 2 claws and install the back door side garnish LH.

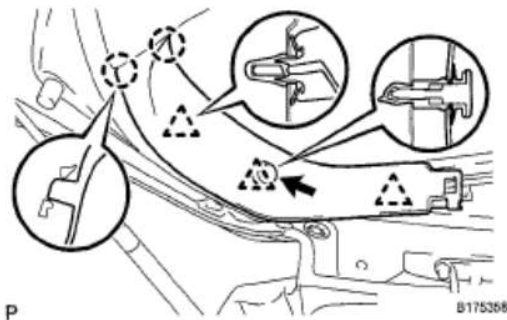


Fig. 147: Identifying Clips And Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- b. Engage the pin.
15. **INSTALL BACK DOOR SIDE GARNISH RH**

HINT:

Use the same procedure as for the LH side.

16. **INSTALL BACK DOOR TRIM UPPER PANEL ASSEMBLY**
 - a. Engage the 2 claws and 4 clips and install back door trim upper panel assembly.

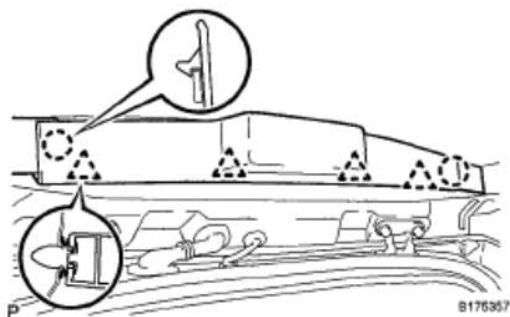
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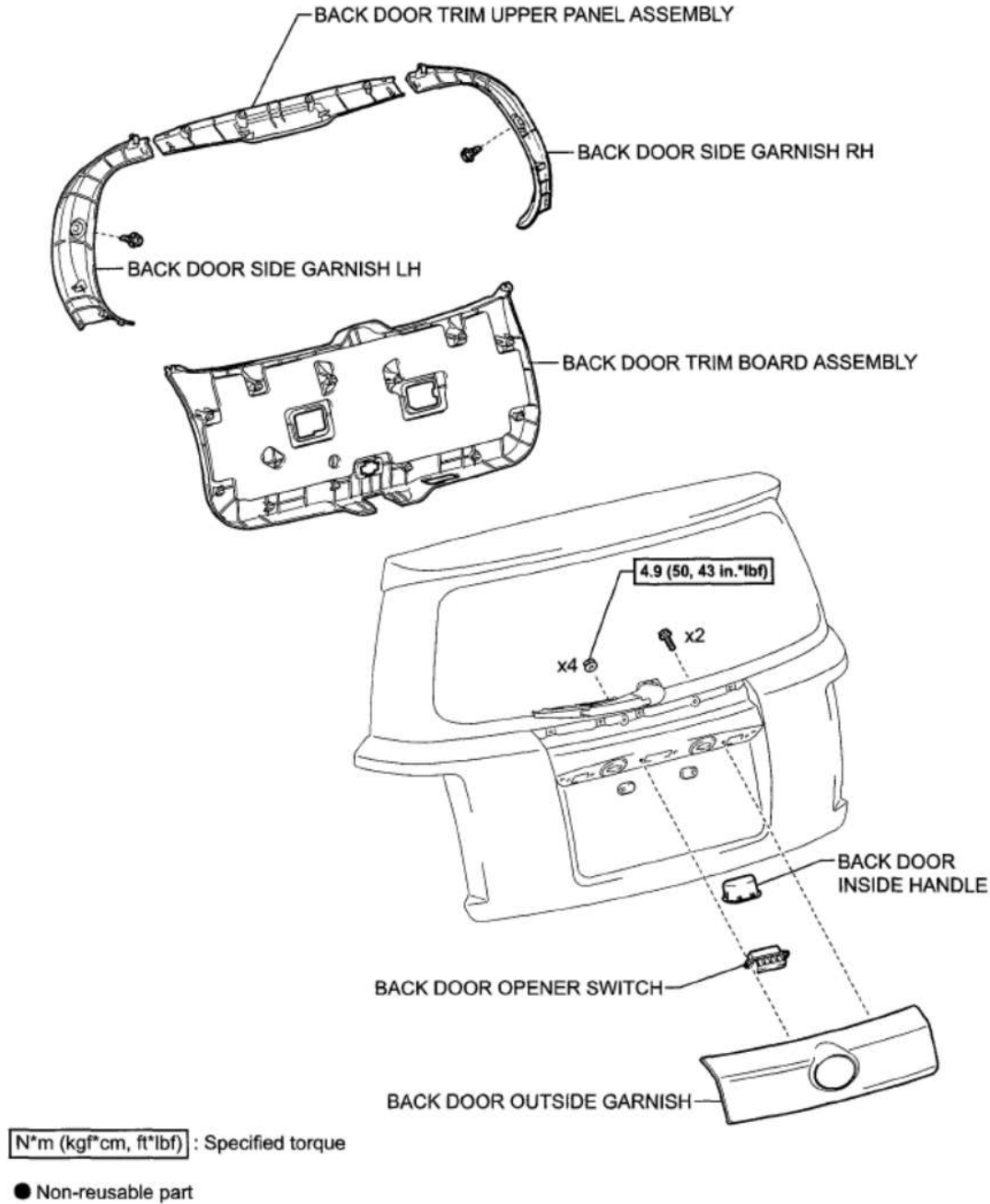
Fig. 148: Identifying Clips And Claws

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

BACK DOOR OPENER SWITCH**COMPONENTS**

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Fig. 149: Identifying Back Door Opener Switch Components And Torque Specification
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. REMOVE BACK DOOR TRIM UPPER PANEL ASSEMBLY (See DISASSEMBLY)
2. REMOVE BACK DOOR SIDE GARNISH LH (See DISASSEMBLY)

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3. **REMOVE BACK DOOR SIDE GARNISH RH** (See DISASSEMBLY)
4. **REMOVE BACK DOOR INSIDE HANDLE** (See DISASSEMBLY)
5. **REMOVE BACK DOOR TRIM BOARD ASSEMBLY** (See DISASSEMBLY)
6. **REMOVE BACK DOOR OUTSIDE GARNISH** (See REMOVAL)
7. **REMOVE BACK DOOR OPENER SWITCH**
 - a. Remove the back door opener switch.



Fig. 150: Identifying Back Door Opener Switch
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSPECTION

1. **INSPECT BACK DOOR OPENER SWITCH**
 - a. Measure the resistance according to the value(s) in the table below.

Standard resistance

TESTER CONNECTION SPECIFIED CONDITION CHART

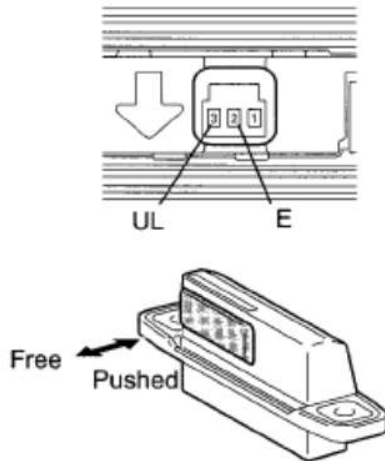
Tester Connection	Switch Position	Specified Condition
2 (E) - 3 (UL)	Back door opener switch not pushed (OFF)	10 kohms or higher
2 (E) -3 (UL)	Back door opener switch pushed (ON)	Below 1 ohms

If the result is not as specified, replace the back door opener switch.

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Component without harness connected
(Back Door Opener Switch)



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Fig. 151: Identifying Back Door Opener Switch Terminals
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL BACK DOOR OPENER SWITCH**
 - a. Install the back door opener switch.
2. **INSTALL BACK DOOR OUTSIDE GARNISH** (See INSTALLATION)



Fig. 152: Identifying Back Door Opener Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL BACK DOOR TRIM BOARD ASSEMBLY** (See REASSEMBLY)
4. **INSTALL BACK DOOR INSIDE HANDLE** (See REASSEMBLY)
5. **INSTALL BACK DOOR SIDE GARNISH LH** (See REASSEMBLY)

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6. INSTALL BACK DOOR SIDE GARNISH RH (See REASSEMBLY)
7. INSTALL BACK DOOR TRIM UPPER PANEL ASSEMBLY (See REASSEMBLY)

BACK DOOR SUPPORT

COMPONENTS

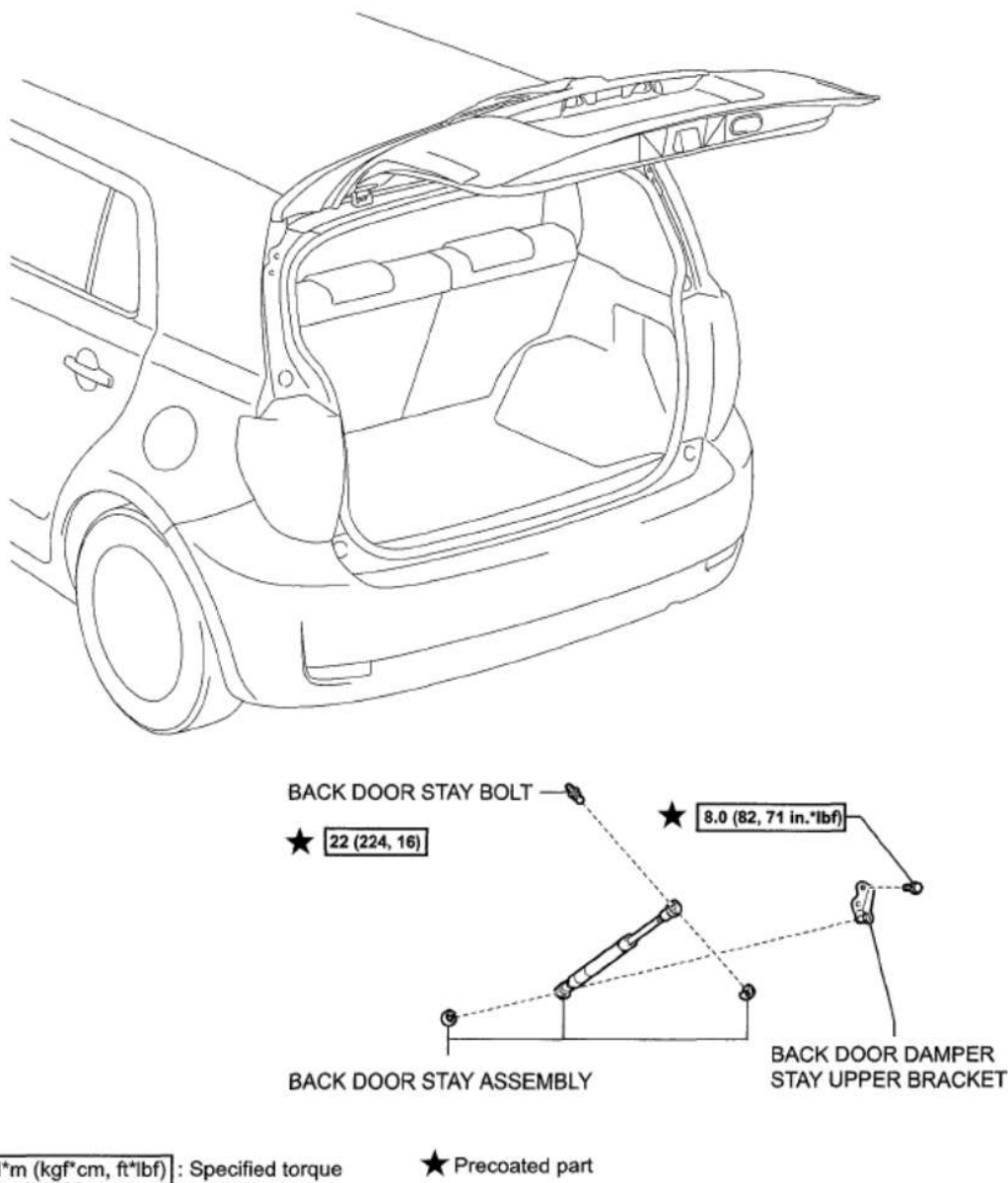


Fig. 153: Identifying Back Door Support Components And Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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REMOVAL

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. REMOVE BACK DOOR STAY ASSEMBLY

- Using a screwdriver with its tip wrapped in protective tape, remove the 2 stop rings and the stay.

NOTE:

- Do not touch the rod of the stay with gloves, to avoid fibers from adhering.
- When foreign matter adheres to the rod, it prevents the rod from moving smoothly and reduces its holding power.

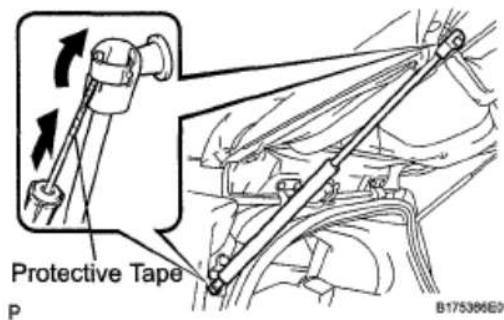


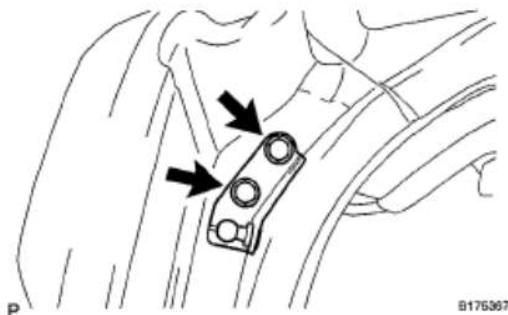
Fig. 154: Removing Protective Tape Using Screwdriver
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

Support the back door by hand while removing the door stay.

2. REMOVE BACK DOOR DAMPER STAY UPPER BRACKET

- Remove the 2 bolts and remove the back door damper stay upper bracket.



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Fig. 155: Locating Bolts And Back Door Damper Stay Upper Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. REMOVE BACK DOOR STAY BOLT

- a. Remove the back door stay bolt.

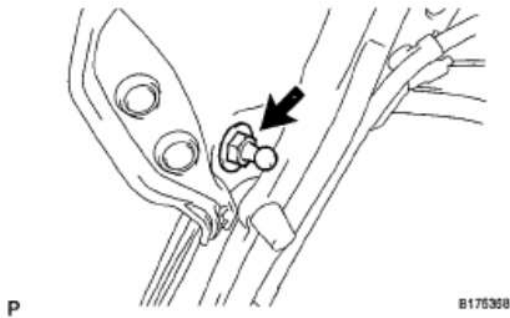


Fig. 156: Locating Back Door Stay Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION**1. INSTALL BACK DOOR STAY BOLT**

- a. Clean the threaded portion on the vehicle body with a non-residue solvent.
- b. Apply adhesive to the threads of the 2 bolts.

Adhesive: Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

- c. Install the back door stay bolt.

Torque: 22 N*m (224 kgf*cm, 16 ft.*lbf)

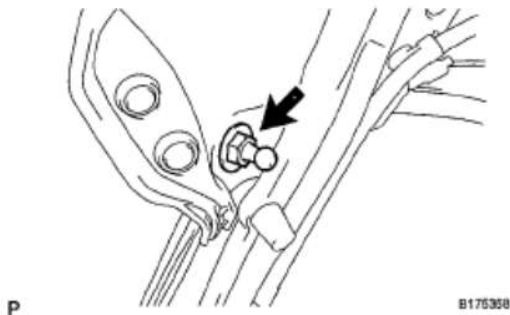


Fig. 157: Locating Back Door Stay Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL BACK DOOR DAMPER STAY UPPER BRACKET

- a. Clean the threaded portion on the vehicle body with a non-residue solvent.

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- b. Apply adhesive to the threads of the 2 bolts.

Adhesive: Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

- c. Install the back door damper stay upper bracket with the 2 bolts.

Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)

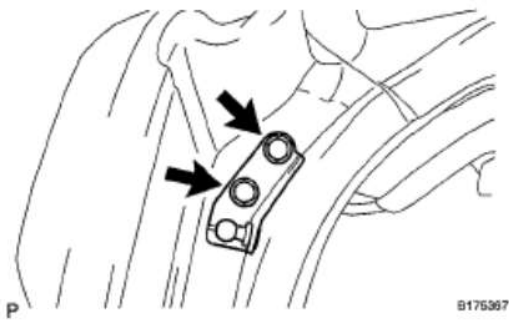


Fig. 158: Locating Bolts And Back Door Damper Stay Upper Bracket
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. INSTALL BACK DOOR STAY ASSEMBLY

NOTE:

- Avoid touching the stroke portions of the rod as much as possible to prevent foreign matter from attaching to the stroke portions. Be sure to hold the cylinders while servicing.
- Do not wear cotton gloves or other similar materials when handling the rod. Fibers may attach to the rod and result in gas leaks.
- Do not apply any load to the cylinders in the horizontal direction, in order to prevent the rod from being deformed.

- a. Install the stop ring to the back door stay assembly.

NOTE: Install the back door stay assembly while supporting the back door by hand.

- b. Install the back door stay assembly.

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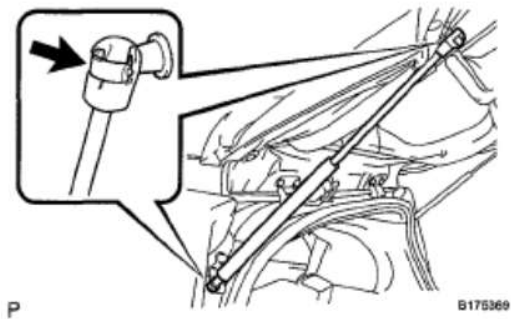


Fig. 159: Identifying Back Door Stay Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISPOSAL

HINT:

- Use the same procedure for both the RH and LH sides.
- The procedure described below is for the LH side.

1. DISPOSE OF BACK DOOR STAY ASSEMBLY

- a. Horizontally fix the stay in a vise with the piston-rod pulled out.
- b. Wearing protective glasses, gradually cut the shaded part between A and B, shown in the illustration, using a metal saw to gradually release the gas.

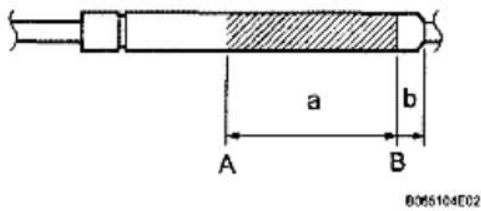


Fig. 160: Identifying Metal Saw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Specification

AREA MEASUREMENT CHART

Area	Measurement
a	80 mm (3.15 in.)
b	20 mm (0.80 in.)

- CAUTION:**
- Cover the area that is being cut with a piece of cloth because there is a possibility that metal shards may be dispersed by the gas.

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- The gas is colorless, odorless and harmless.