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2009 ACCESSORIES & EQUIPMENT Exterior - Highlander

2009 ACCESSORIES & EQUIPMENT

Exterior - Highlander

FRONT BUMPER

COMPONENTS

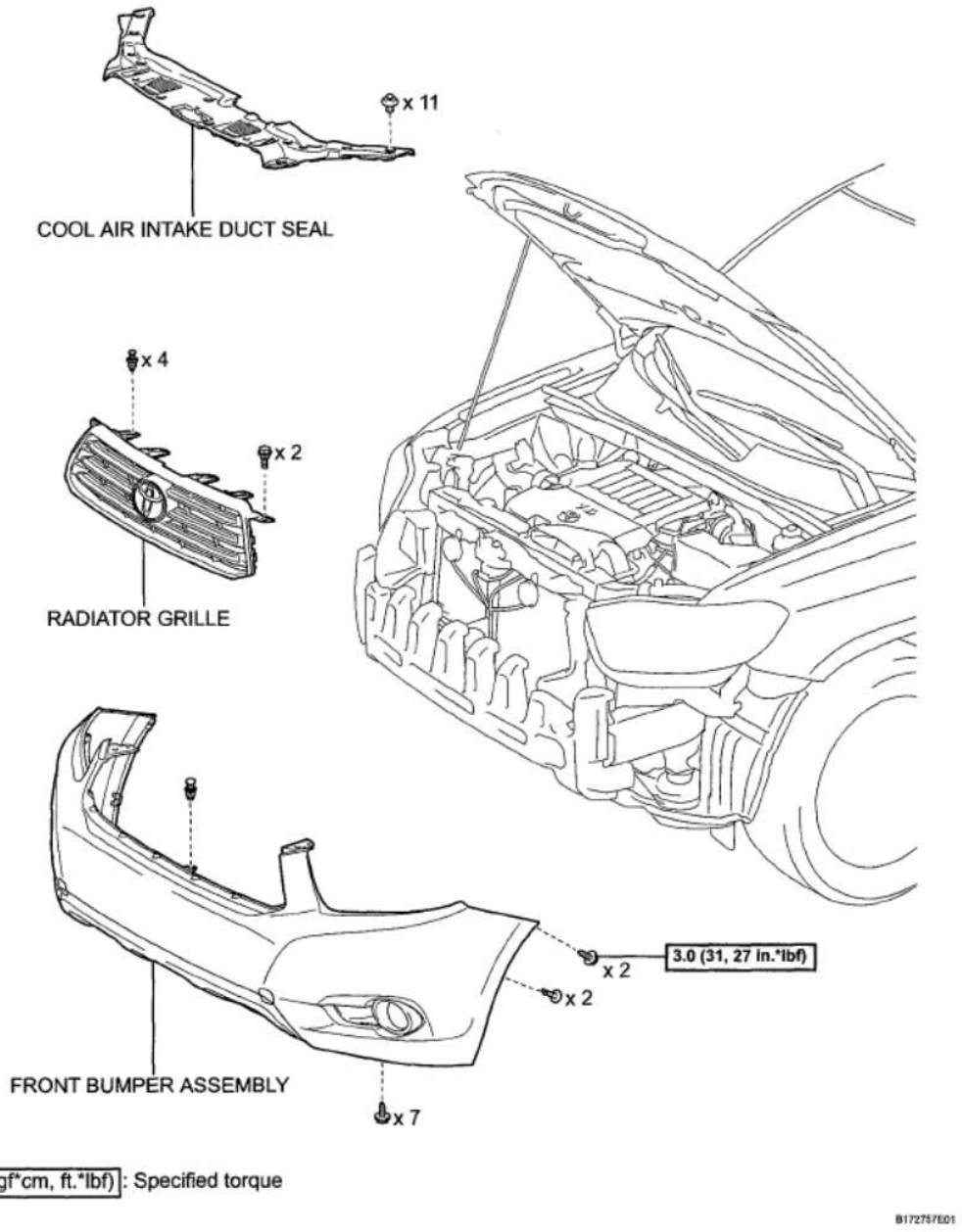
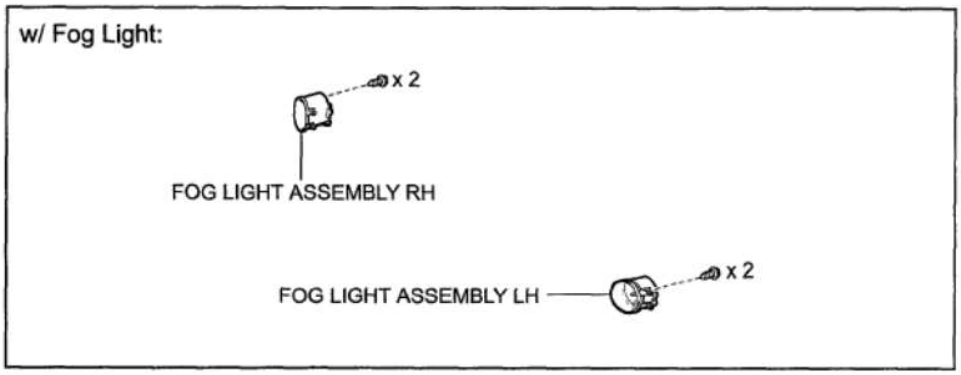


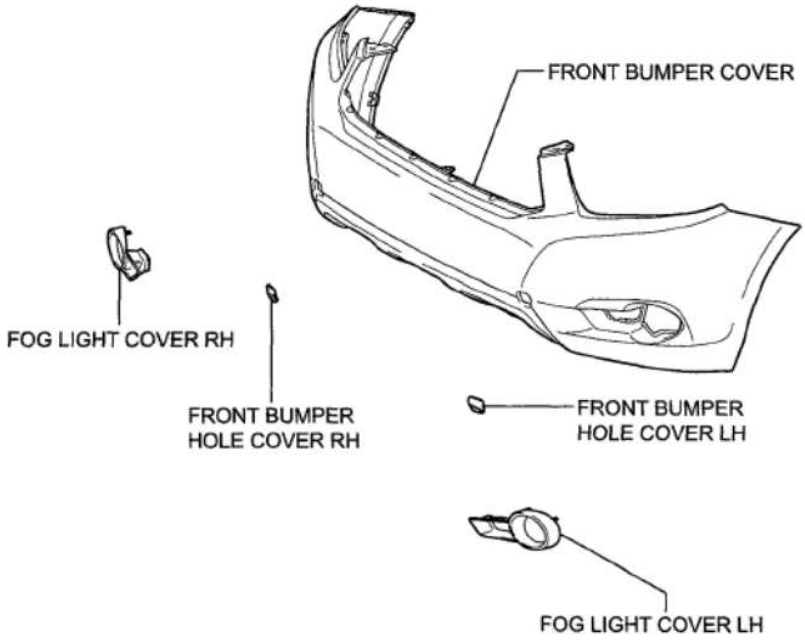
Fig. 1: Identifying Front Bumper Components With Torque Specification (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Fig. 2: Identifying Front Bumper Components With Torque Specification (2 Of 3)
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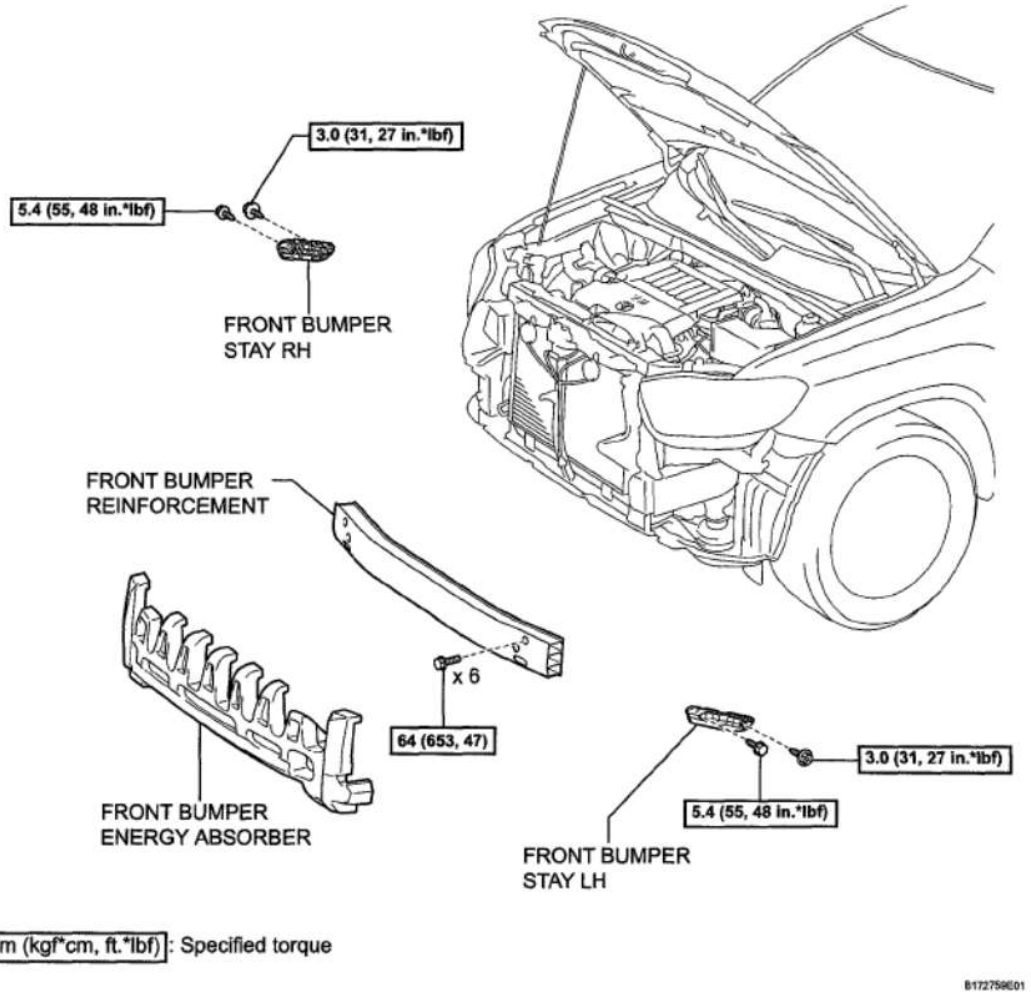


Fig. 3: Identifying Front Bumper Components With Torque Specification (3 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE COOL AIR INTAKE DUCT SEAL** (See **REMOVAL**)
2. **REMOVE RADIATOR GRILLE** (See **REMOVAL**)
3. **REMOVE FRONT BUMPER ASSEMBLY (w/o Fog Light)**
   a. Put protective tape around the front bumper assembly.

   HINT:

   Use the same procedure for the RH side and LH side.

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Fig. 4: Putting Protective Tape Around Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Remove the screw.

HINT:

Use the same procedure for the RH side and LH side.

c. Using a screwdriver, turn the pin 90 degrees and remove the pin hold clip.

HINT:

Use the same procedure for the RH side and LH side.

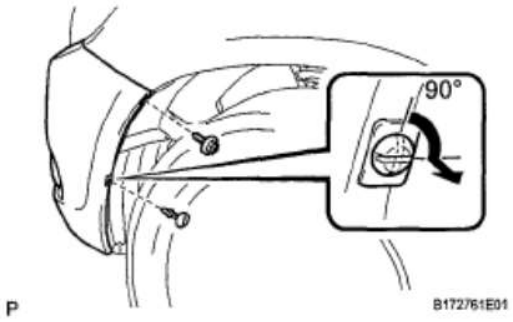


Fig. 5: Turning Pin At 90 Degrees
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Remove the 7 screws and clip.

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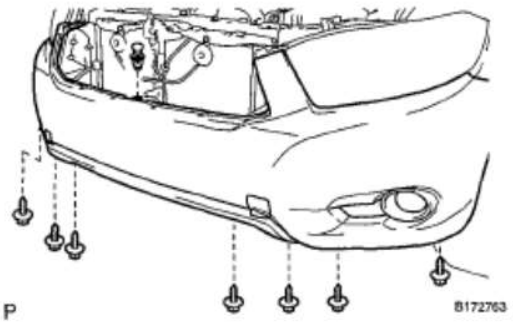


Fig. 6: Identifying Screws And Clip Of Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Disengage the 4 claws and disconnect the front bumper assembly.

HINT:

Use the same procedure for the RH side and LH side.

f. Remove the front bumper assembly.

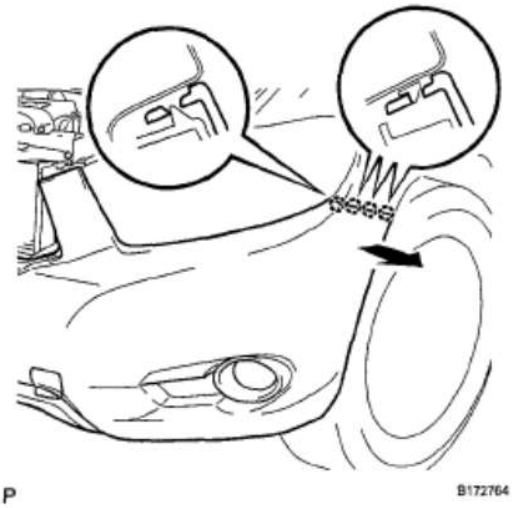


Fig. 7: Disconnecting Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **REMOVE FRONT BUMPER ASSEMBLY (w/ Fog Light)**

a. Put protective tape around the front bumper assembly.

HINT:

Use the same procedure for the RH side and LH side.

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Fig. 8: Putting Protective Tape Around Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Remove the screw.

HINT:

Use the same procedure for the RH side and LH side.

c. Using a screwdriver, turn the pin 90 degrees and remove the pin hold clip.

HINT:

Use the same procedure for the RH side and LH side.

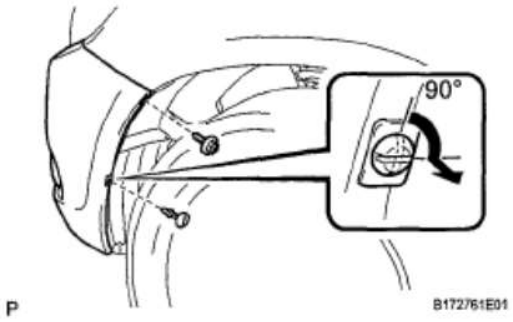


Fig. 9: Turning Pin At 90 Degrees
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Remove the 7 screws and clip.

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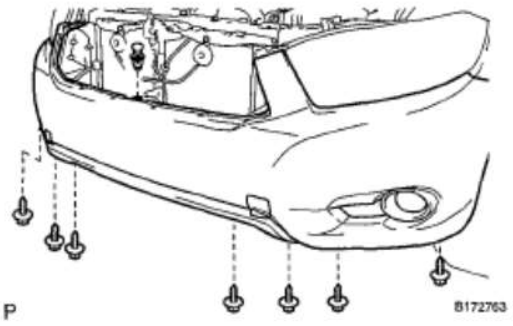


Fig. 10: Identifying Screws And Clip Of Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Disengage the 4 claws and disconnect the front bumper assembly.

HINT:

Use the same procedure for the RH side and LH side.

f. Disconnect each fog light connector, and then remove the front bumper assembly.



Fig. 11: Disconnecting Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISASSEMBLY

1. **REMOVE FOG LIGHT ASSEMBLY LH (w/ Fog Light)** (See **REMOVAL**)
2. **REMOVE FOG LIGHT ASSEMBLY RH (w/ Fog Light)**

HINT:

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Use the same procedure for the RH side and LH side.

3. **REMOVE FOG LIGHT COVER LH**
   a. Disengage the 6 claws and remove the fog light cover LH.
4. **REMOVE FOG LIGHT COVER RH**

HINT:

Use the same procedure for the RH side and LH side.

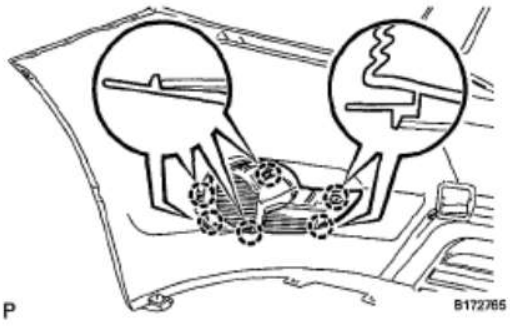


Fig. 12: Identifying Claws On Fog Light Cover LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **REMOVE FRONT BUMPER HOLE COVER LH**
   a. Disengage the 2 claws and remove the hole cover LH.
6. **REMOVE FRONT BUMPER HOLE COVER RH**

HINT:

Use the same procedure for the RH side and LH side.



Fig. 13: Identifying Claws On Hole Cover LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **REMOVE FRONT BUMPER ENERGY ABSORBER**
   a. Disengage the 2 guides and remove the front bumper energy absorber.

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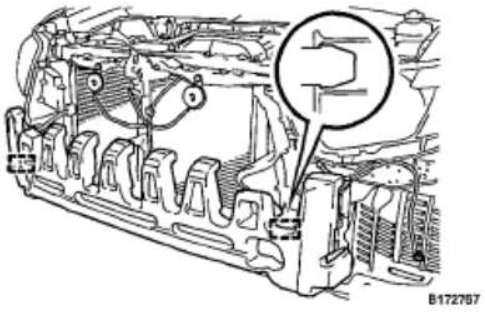


Fig. 14: Identifying Front Bumper Energy Absorber Guides
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **REMOVE FRONT BUMPER REINFORCEMENT**
   a. Remove the 6 bolts and front bumper reinforcement.

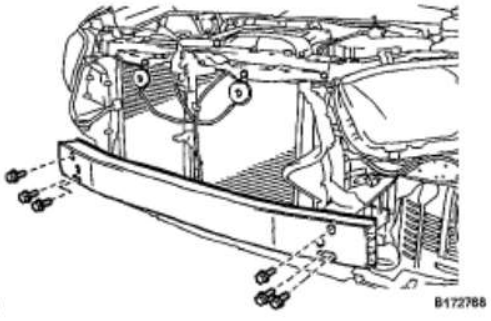


Fig. 15: Identifying Front Bumper Reinforcement Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **REMOVE FRONT BUMPER STAY LH**
   a. Remove the bolt and screw.
   b. Disengage the 2 claws and remove the front bumper stay LH.
10. **REMOVE FRONT BUMPER STAY RH**

HINT:

Use the same procedures for the RH side and LH side.

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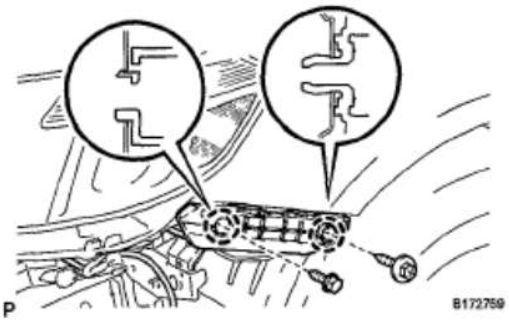


Fig. 16: Identifying Front Bumper Stay LH With Claws, Bolts And Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REASSEMBLY

1. **INSTALL FRONT BUMPER STAY LH**
   a. Engage the 2 claws and install the front bumper stay LH.
   b. Install the bolt and screw.

   Torque: Bolt

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

   Screw

   3.0 N*m (31 kgf*cm, 27 in.*lbf)

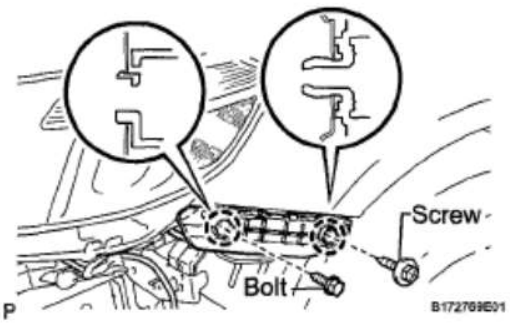


Fig. 17: Identifying Front Bumper Stay LH With Claws, Bolt And Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL FRONT BUMPER STAY RH**

   HINT:

   Use the same procedures for the RH side and LH side.

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3. **INSTALL FRONT BUMPER REINFORCEMENT**
   a. Install the front bumper reinforcement with the 6 bolts.

   Torque: 64 N*m (653 kgf*cm, 47 ft.*lbf)

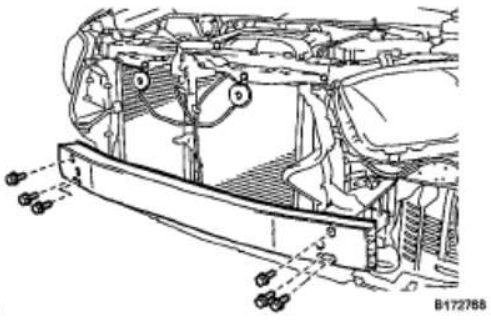


Fig. 18: Identifying Front Bumper Reinforcement Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL FRONT BUMPER ENERGY ABSORBER**
   a. Engage the 2 guides and install the front bumper energy absorber.

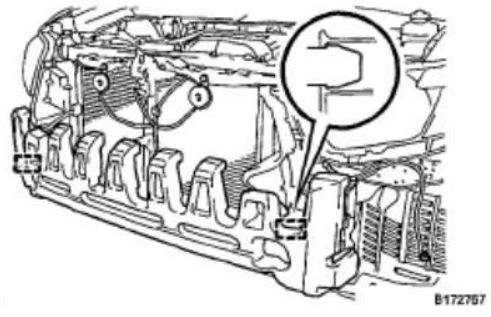


Fig. 19: Identifying Front Bumper Energy Absorber Guides
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL FRONT BUMPER HOLE COVER LH**
   a. Engage the 2 claws and install the front bumper hole cover LH.
6. **INSTALL FRONT BUMPER HOLE COVER RH**

   HINT:

   Use the same procedure for the RH side and LH side.

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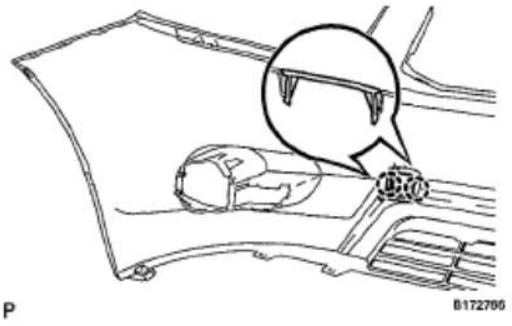


Fig. 20: Identifying Claws On Hole Cover LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **INSTALL FOG LIGHT COVER LH**
   a. Engage the 6 claws and install the fog light cover LH.
8. **INSTALL FOG LIGHT COVER RH**

   HINT:

   Use the same procedure for the RH side and LH side.

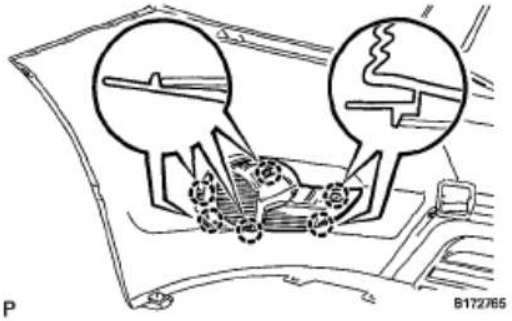


Fig. 21: Identifying Claws On Fog Light Cover LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **INSTALL FOG LIGHT ASSEMBLY LH (w/ Fog Light)** (See **REASSEMBLY**)
10. **INSTALL FOG LIGHT ASSEMBLY RH (w/ Fog Light)**

    HINT:

    Use the same procedure for the RH side and LH side.

INSTALLATION

1. **INSTALL FRONT BUMPER ASSEMBLY (w/o Fog Light)**
   a. Engage the 4 claws and install the front bumper assembly.

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HINT:

Use the same procedure for the RH side and LH side.



Fig. 22: Identifying Claws On Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Install the clip and 7 screws.

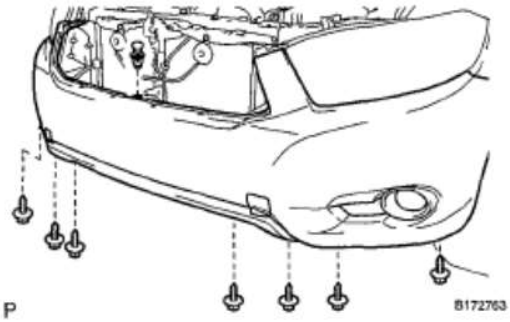


Fig. 23: Identifying Screws And Clip Of Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Install the screw and pin hold clip.

Torque: 3.0 N*m (31 kgf*cm, 27 in.*lbf)

HINT:

Use the same procedure for the RH side and LH side.

2. **INSTALL FRONT BUMPER ASSEMBLY (w/ Fog Light)**
   a. Connect each fog light connector, and then install the front bumper assembly.

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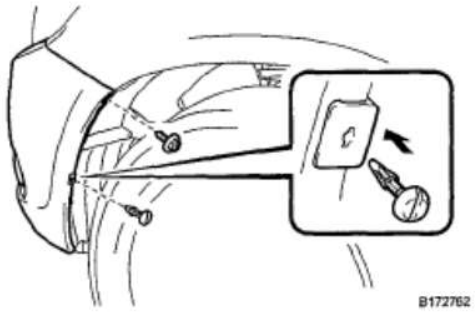


Fig. 24: Installing Screw And Pin Hold Clip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Engage the 4 claws.

HINT:

Use the same procedure for the RH side and LH side.



Fig. 25: Identifying Claws On Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Install the clip and 7 screws.

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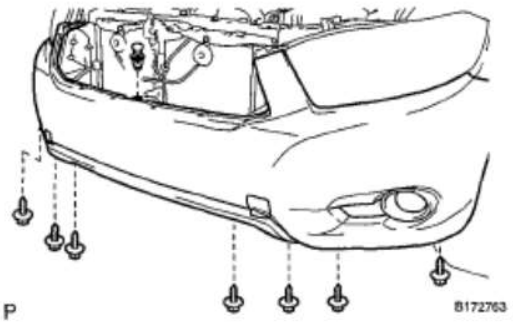


Fig. 26: Identifying Screws And Clip Of Front Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Install the screw and pin hold clip.

Torque: 3.0 N*m (31 kgf*cm, 27 in.*lbf)

HINT:

Use the same procedure for the RH side and LH side.

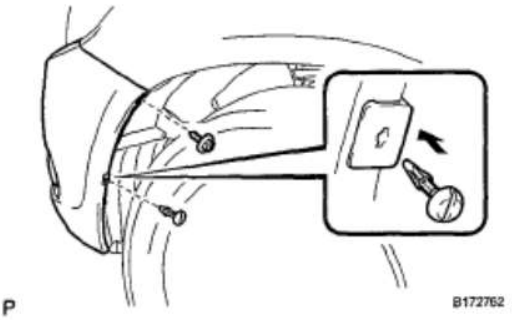


Fig. 27: Installing Screw And Pin Hold Clip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL RADIATOR GRILLE** (See **INSTALLATION**)
4. **INSTALL COOL AIR INTAKE DUCT SEAL** (See **INSTALLATION**)
5. **VEHICLE PREPARATION FOR FOG LIGHT AIMING ADJUSTMENT (w/ Fog Light)** (See **REMOVAL**)
6. **PREPARATION FOR FOG LIGHT AIMING (w/ Fog Light)** (See **ADJUSTMENT**)
7. **INSPECT FOG LIGHT AIMING (w/ Fog Light)** (See **ADJUSTMENT**)
8. **ADJUST FOG LIGHT AIMING (w/ Fog Light)** (See **REASSEMBLY**)

REAR BUMPER

COMPONENTS

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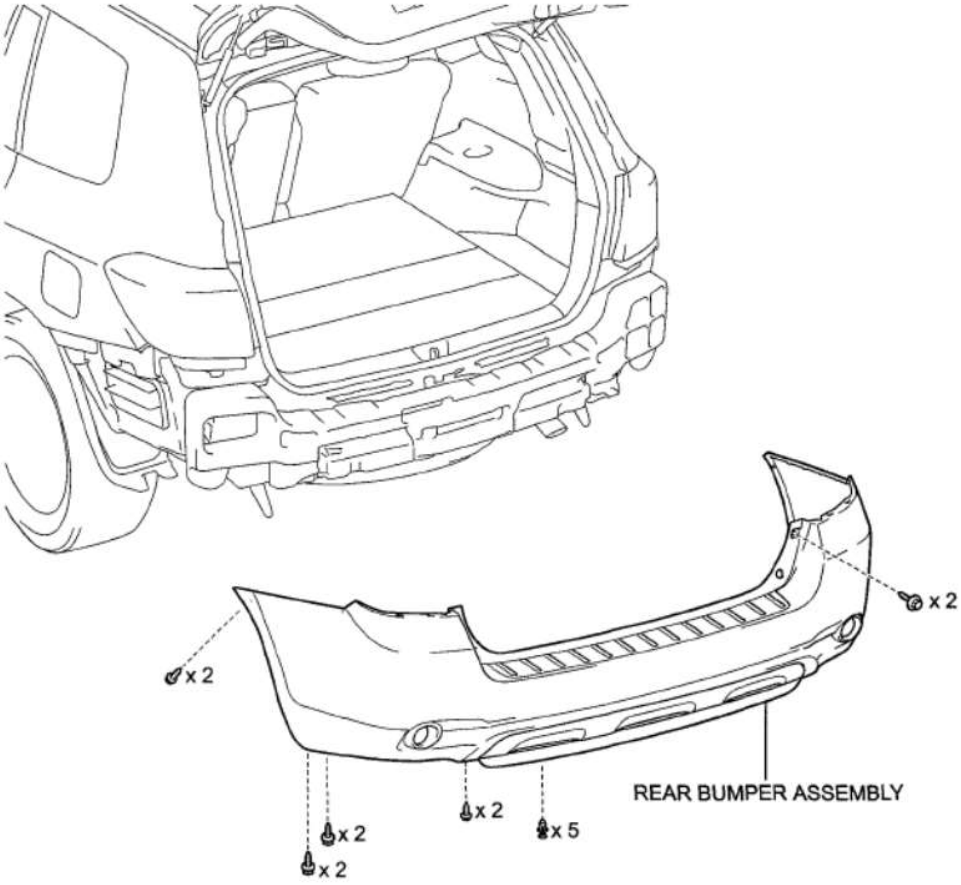


Fig. 28: Identifying Rear Bumper Components (1 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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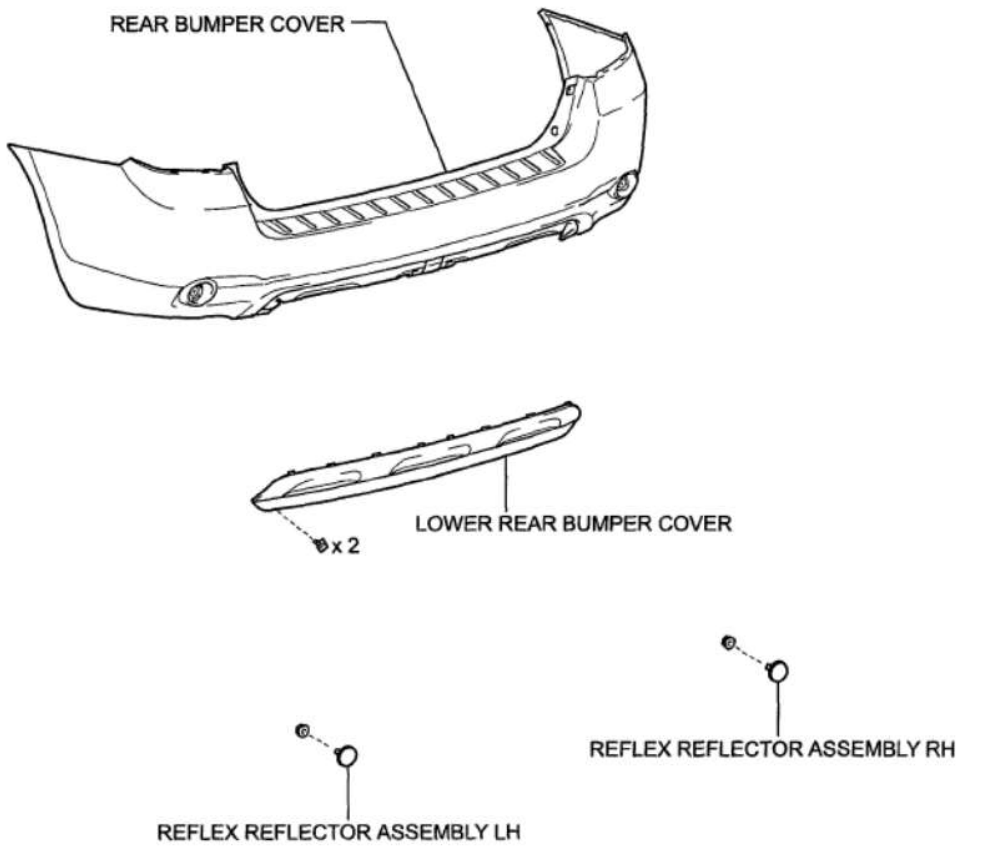


Fig. 29: Identifying Rear Bumper Components (2 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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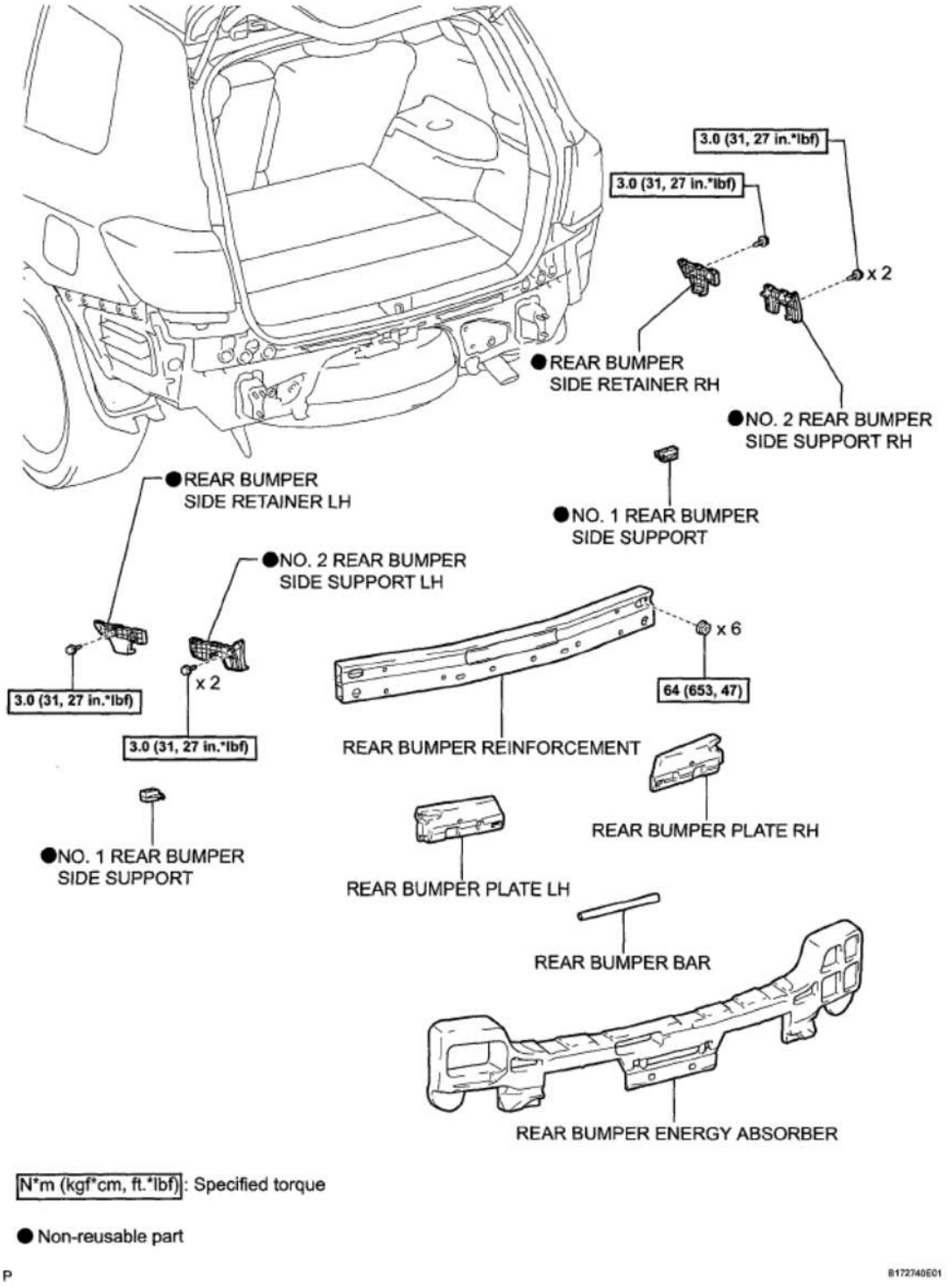


Fig. 30: Identifying Rear Bumper Components With Torque Specifications (3 Of 3)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

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1. **REMOVE REAR BUMPER ASSEMBLY**

   a. Put protective tape around the rear bumper assembly.



Fig. 31: Putting Protective Tape Around Rear Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Remove the 5 clips, 8 screws and 2 bolts.



Fig. 32: Identifying Rear Bumper Assembly With Clips, Screws And Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Disengage the 8 claws and disconnect the rear bumper assembly.

      HINT:

      Use the same procedure for the RH side and LH side.

   d. Remove the rear bumper assembly.

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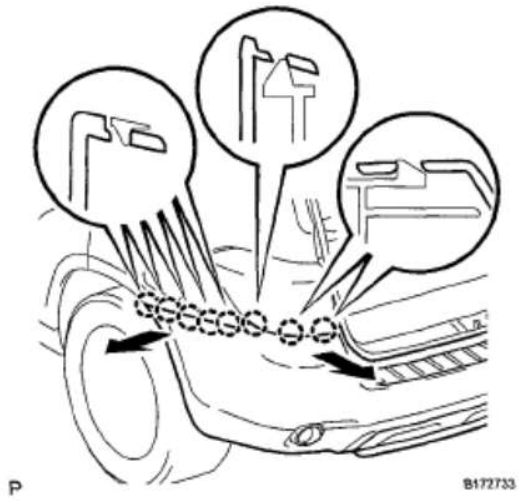


Fig. 33: Disconnecting Rear Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISASSEMBLY

1. **REMOVE REFLEX REFLECTOR ASSEMBLY LH**
   a. Remove the nut and reflex reflector assembly LH.
2. **REMOVE REFLEX REFLECTOR ASSEMBLY RH**

   HINT:

   Use the same procedure for the RH side and LH side.

3. **REMOVE LOWER REAR BUMPER COVER**
   a. Remove the 2 clips.

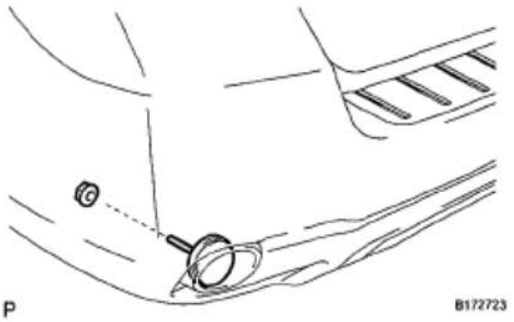


Fig. 34: Identifying Reflex Reflector Assembly LH With Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Disengage the 10 claws and 2 guides, and remove the lower rear bumper cover.

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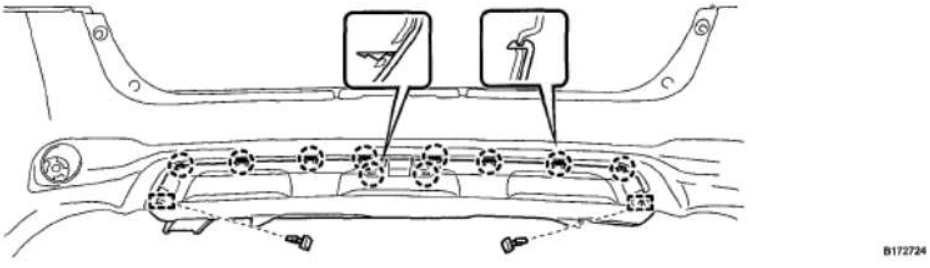


Fig. 35: Identifying Lower Rear Bumper Cover Claws And Guides
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **REMOVE REAR BUMPER ENERGY ABSORBER**
   a. Disengage the 2 guides and remove the rear bumper energy absorber.

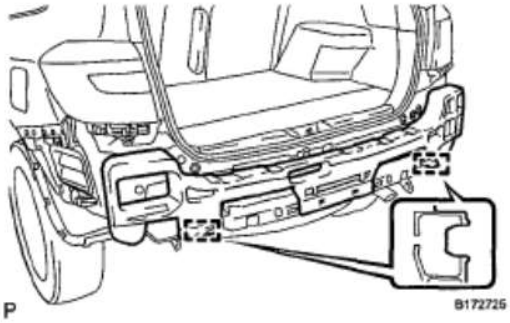


Fig. 36: Identifying Rear Bumper Energy Absorber Guides
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **REMOVE REAR BUMPER BAR**
   a. Remove the rear bumper bar from the rear bumper energy absorber.

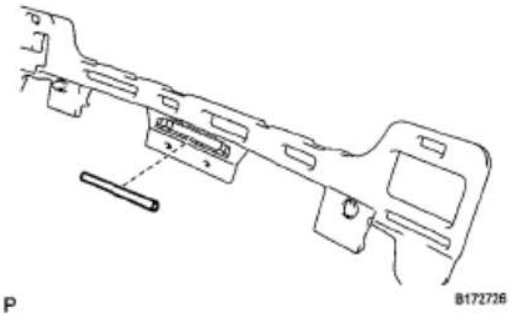


Fig. 37: Identifying Rear Bumper Bar
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **REMOVE REAR BUMPER PLATE LH**
   a. Disengage the 3 claws and remove the rear bumper plate LH.
7. **REMOVE REAR BUMPER PLATE RH**

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HINT:

Use the same procedure for the RH side and LH side.

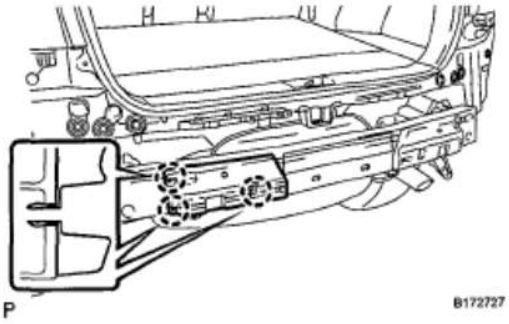


Fig. 38: Identifying Claws On Rear Bumper Plate LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **REMOVE REAR BUMPER REINFORCEMENT**
   a. Remove the 6 nuts and rear bumper reinforcement.

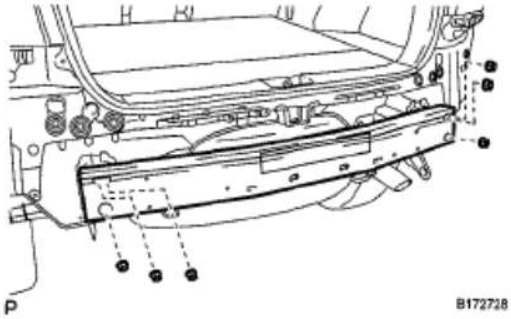


Fig. 39: Identifying Rear Bumper Reinforcement Nuts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **REMOVE REAR BUMPER SIDE RETAINER LH**
   a. Remove the screw.
   b. Disengage the 2 claws and remove the rear bumper side retainer LH.
10. **REMOVE REAR BUMPER SIDE RETAINER RH**

HINT:

Use the same procedures for the RH side and LH side.

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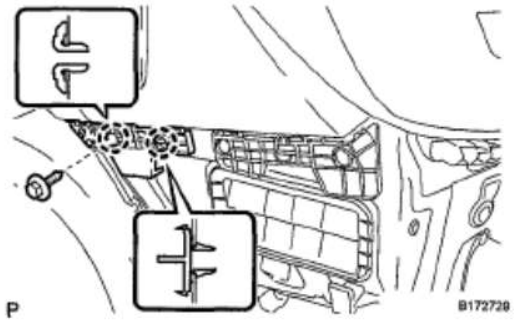


Fig. 40: Identifying Rear Bumper Side Retainer LH With Claws And Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

11. **REMOVE NO. 2 REAR BUMPER SIDE SUPPORT LH**
    a. Remove the 2 screws.
    b. Disengage the 3 claws and remove the No. 2 rear bumper side support LH.
12. **REMOVE NO. 2 REAR BUMPER SIDE SUPPORT RH**

    HINT:

    Use the same procedures for the RH side and LH side.

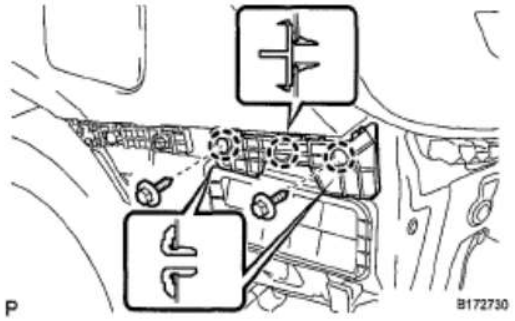


Fig. 41: Identifying No. 2 Rear Bumper Side Support LH With Claws And Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. **REMOVE NO. 1 REAR BUMPER SIDE SUPPORT**
    a. Disengage the 2 claws and remove the No. 1 rear bumper side support.

       HINT:

       Use the same procedure for the RH side and LH side.

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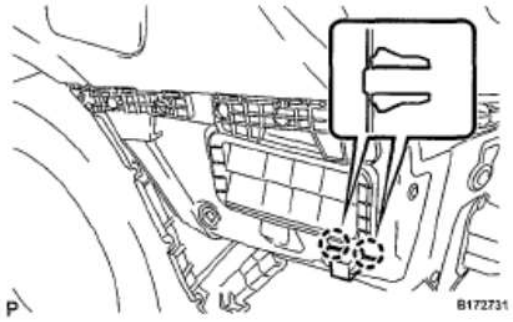


Fig. 42: Identifying Claws On No. 1 Rear Bumper Side Support
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REASSEMBLY

1. **INSTALL NO. 1 REAR BUMPER SIDE SUPPORT**
   a. Engage the 2 claws and install a new No. 1 rear bumper side support.

      HINT:

      Use the same procedure for the RH side and LH side.

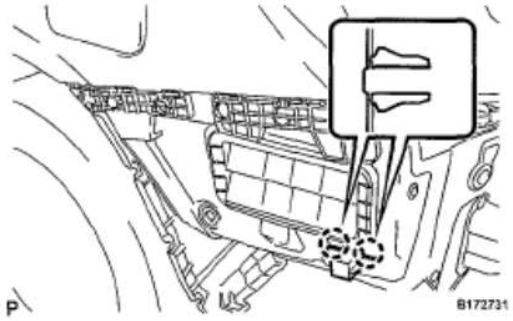


Fig. 43: Identifying Claws On No. 1 Rear Bumper Side Support
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL NO. 2 REAR BUMPER SIDE SUPPORT LH**
   a. Engage the 3 claws and install a new No. 2 rear bumper side support LH.
   b. Install the 2 screws.

      Torque: 3.0 N*m (31 kgf*cm, 27 in.*lbf)

3. **INSTALL NO. 2 REAR BUMPER SIDE SUPPORT RH**

   HINT:

   Use the same procedures for the RH side and LH side.

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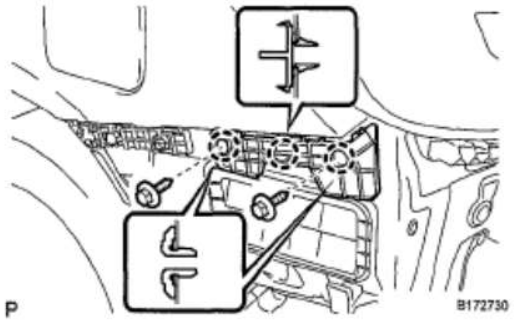


Fig. 44: Identifying No. 2 Rear Bumper Side Support LH With Claws And Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL REAR BUMPER SIDE RETAINER LH**
   a. Engage the 2 claws and install a new rear bumper side retainer LH.
   b. Install the screw.

   Torque: 3.0 N*m (31 kgf*cm, 27 in.*lbf)

5. **INSTALL REAR BUMPER SIDE RETAINER RH**

   HINT:

   Use the same procedures for the RH side and LH side.

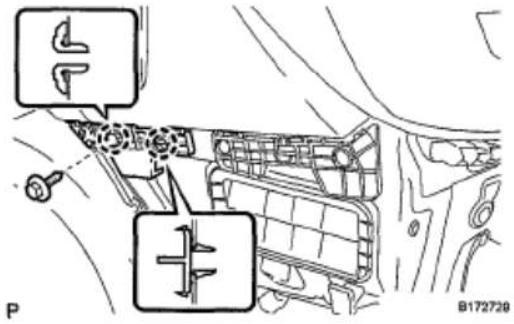


Fig. 45: Identifying Rear Bumper Side Retainer LH With Claws And Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL REAR BUMPER REINFORCEMENT**
   a. Install the rear bumper reinforcement with the 6 nuts.

   Torque: 64 N*m (653 kgf*cm, 47 ft.*lbf)

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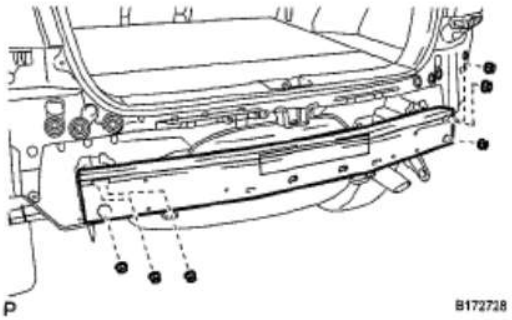


Fig. 46: Identifying Rear Bumper Reinforcement Nuts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **INSTALL REAR BUMPER PLATE LH**
   a. Engage the 3 claws and install the rear bumper plate LH.
8. **INSTALL REAR BUMPER PLATE RH**

   HINT:

   Use the same procedure for the RH side and LH side.

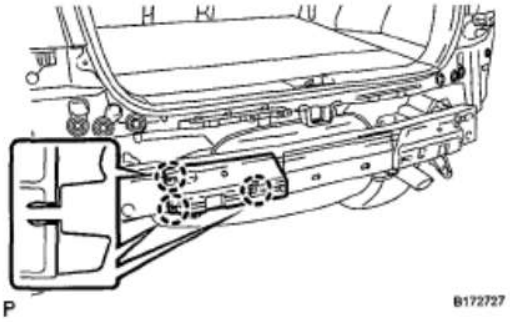
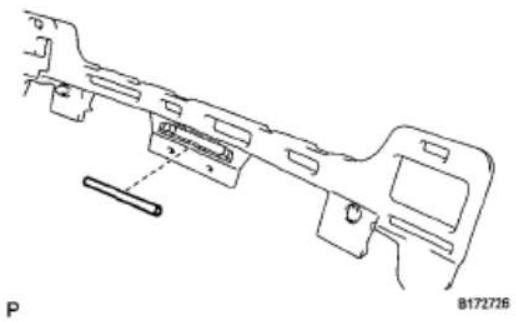


Fig. 47: Identifying Claws On Rear Bumper Plate LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **INSTALL REAR BUMPER BAR**
   a. Install the rear bumper bar on the rear bumper energy absorber.



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Fig. 48: Identifying Rear Bumper Bar
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. **INSTALL REAR BUMPER ENERGY ABSORBER**
    a. Engage the 2 guides and install the rear bumper energy absorber.
11. **INSTALL LOWER REAR BUMPER COVER**
    a. Engage the 10 claws and 2 guides, and install the lower rear bumper cover.
    b. Install the 2 clips.

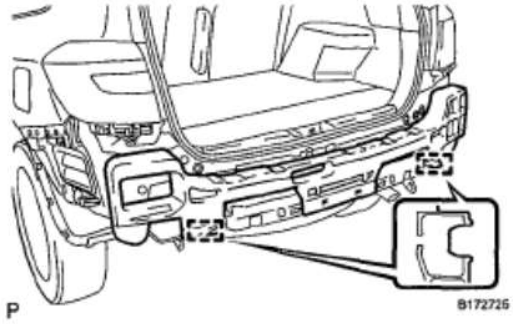


Fig. 49: Identifying Rear Bumper Energy Absorber Guides
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

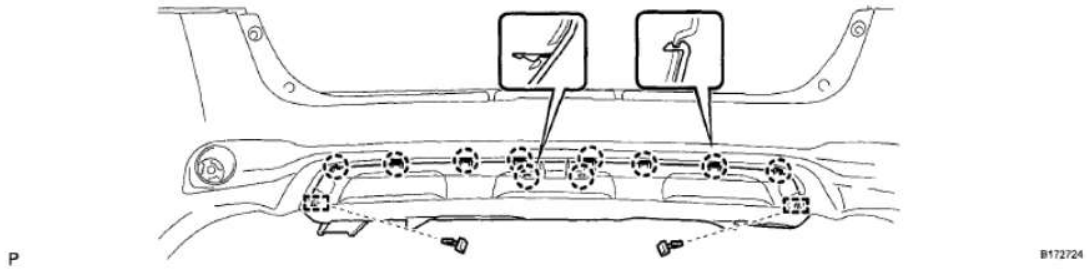


Fig. 50: Identifying Lower Rear Bumper Cover Claws And Guides
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

12. **INSTALL REFLEX REFLECTOR ASSEMBLY LH**
    a. Install the reflex reflector assembly LH with the nut.
13. **INSTALL REFLEX REFLECTOR ASSEMBLY RH**

HINT:

Use the same procedure for the RH side and LH side.

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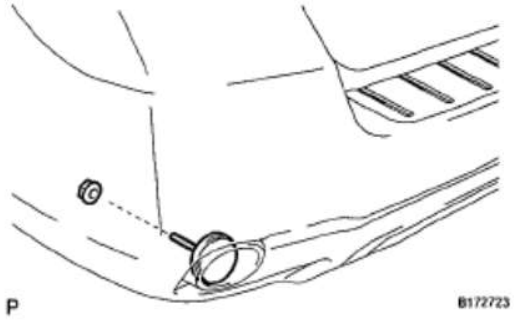


Fig. 51: Identifying Reflex Reflector Assembly LH With Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL REAR BUMPER ASSEMBLY**
   a. Engage the 8 claws and install the rear bumper assembly.

      HINT:

      Use the same procedure for the RH side and LH side.



Fig. 52: Identifying Claws On Rear Bumper Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Install the 5 clips, 8 screws and 2 bolts.

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Fig. 53: Identifying Rear Bumper Assembly With Clips, Screws And Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

RADIATOR GRILLE

COMPONENTS

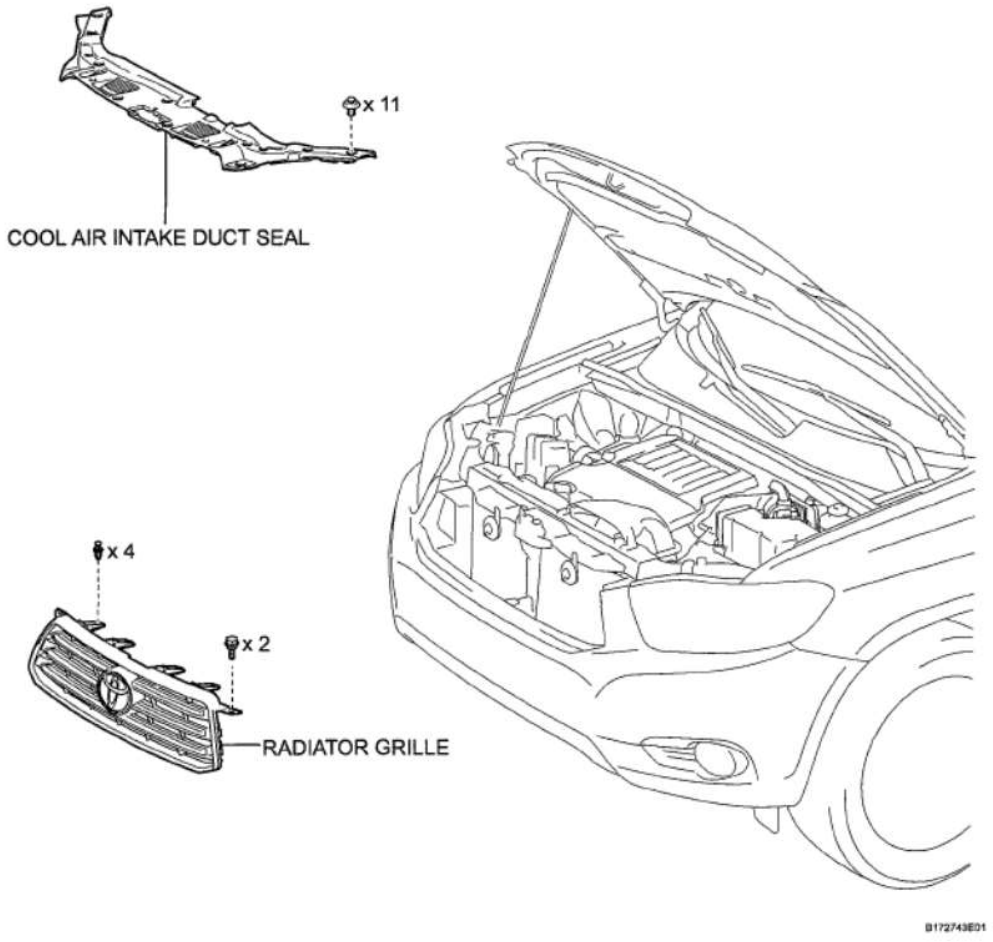
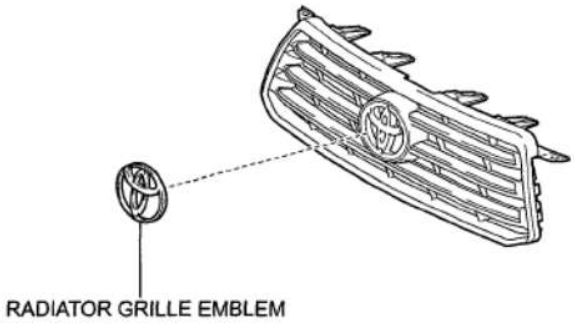


Fig. 54: Identifying Radiator Grille Components (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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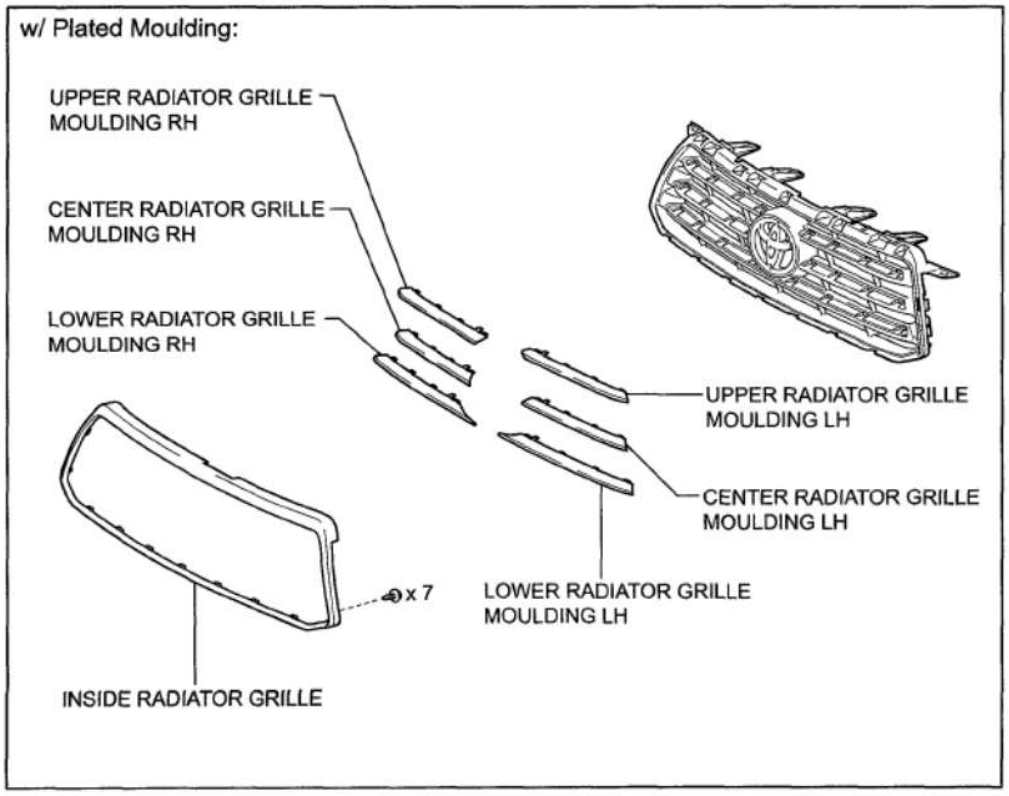


Fig. 55: Identifying Radiator Grille Components (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE COOL AIR INTAKE DUCT SEAL**
   a. Remove the 11 clips and cool air intake duct seal.

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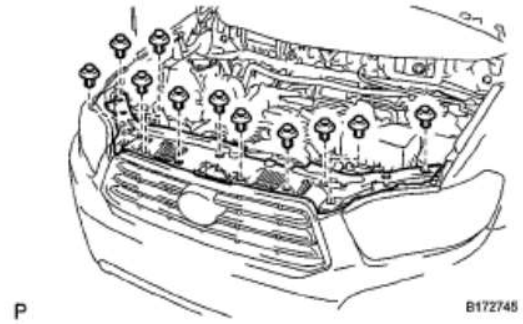


Fig. 56: Identifying Cool Air Intake Duct Seal Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **REMOVE RADIATOR GRILLE**
   a. Put protective tape around the radiator grille.

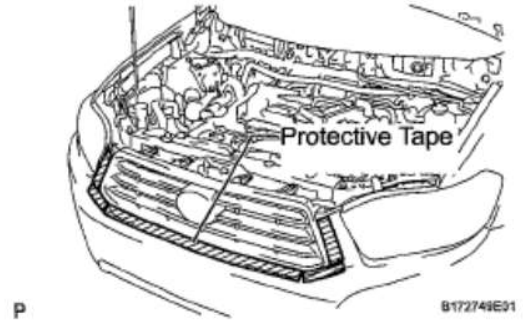


Fig. 57: Putting Protective Tape Around Radiator Grille
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Remove the 2 bolts and 4 clips.

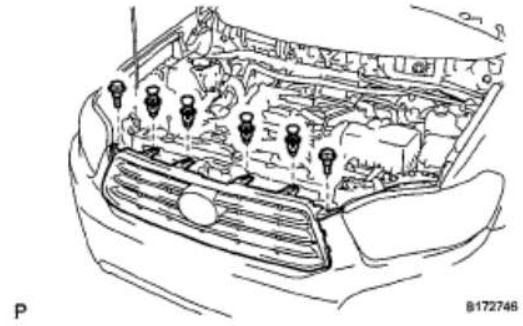


Fig. 58: Identifying Radiator Grille Bolts And Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Disengage the 6 claws and 4 guides, and remove the radiator grille.

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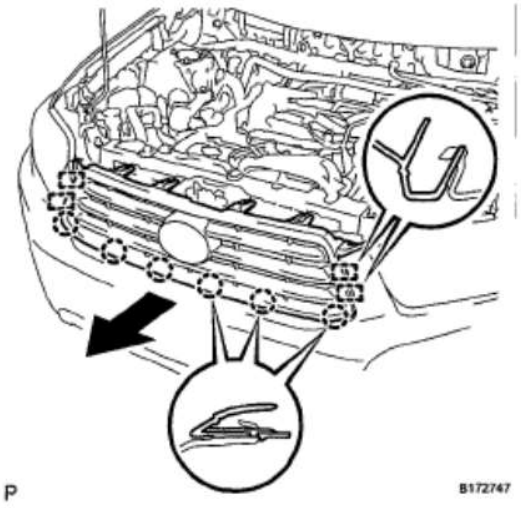


Fig. 59: Removing Radiator Grille
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **REMOVE RADIATOR GRILLE EMBLEM**
   a. Disengage the 3 claws and remove the radiator grille emblem.

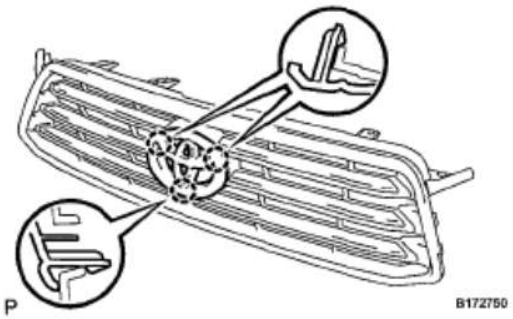


Fig. 60: Identifying Radiator Grille Emblem Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **REMOVE INSIDE RADIATOR GRILLE (w/ Plated Moulding)**
   a. Remove the 7 screws.

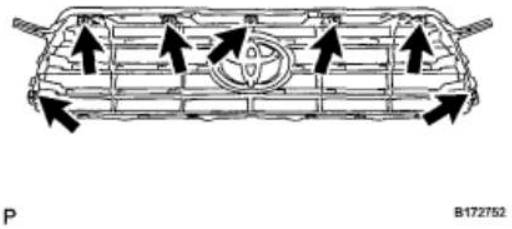


Fig. 61: Locating Inside Radiator Grille Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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b. Disengage the 9 claws and remove the inside radiator grille.

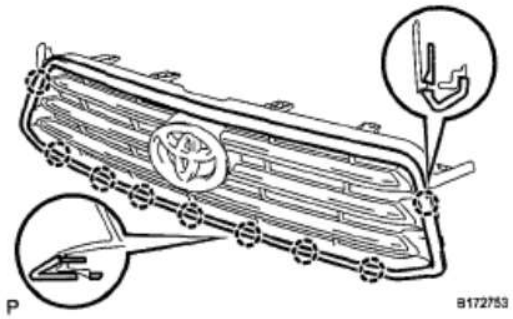


Fig. 62: Identifying Inside Radiator Grille Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **REMOVE UPPER RADIATOR GRILLE MOULDING LH (w/ Plated Moulding)**
   a. Disengage the 4 claws and remove the upper radiator grille moulding LH.
6. **REMOVE UPPER RADIATOR GRILLE MOULDING RH (w/ Plated Moulding)**

HINT:

Use the same procedure for the RH side and LH side.

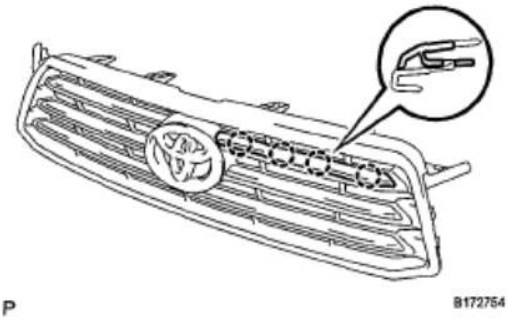


Fig. 63: Identifying Claws On Upper Radiator Grille Moulding LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **REMOVE CENTER RADIATOR GRILLE MOULDING LH (w/ Plated Moulding)**
   a. Disengage the 4 claws and remove the center radiator grille moulding LH.
8. **REMOVE CENTER RADIATOR GRILLE MOULDING RH (w/ Plated Moulding)**

HINT:

Use the same procedure for the RH side and LH side.

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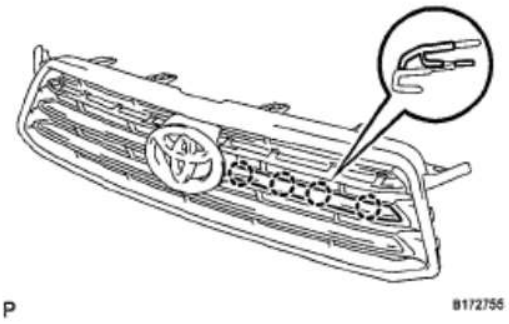


Fig. 64: Identifying Claws On Center Radiator Grille Moulding LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **REMOVE LOWER RADIATOR GRILLE MOULDING LH (w/ Plated Moulding)**
   a. Disengage the 4 claws and remove the lower radiator grille moulding LH.
10. **REMOVE LOWER RADIATOR GRILLE MOULDING RH (w/ Plated Moulding)**

HINT:

Use the same procedure for the RH side and LH side.

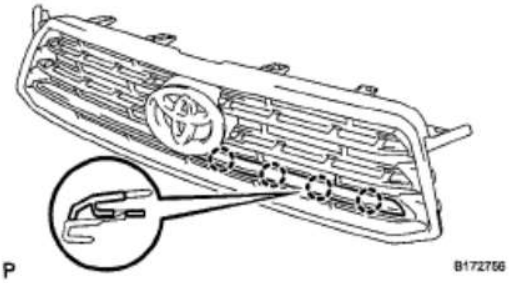


Fig. 65: Identifying Claws On Lower Radiator Grille Moulding LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL LOWER RADIATOR GRILLE MOULDING LH (w/ Plated Moulding)**
   a. Engage the 4 claws and install the lower radiator grille moulding LH.
2. **INSTALL LOWER RADIATOR GRILLE MOULDING RH (w/ Plated Moulding)**

HINT:

Use the same procedure for the RH side and LH side.

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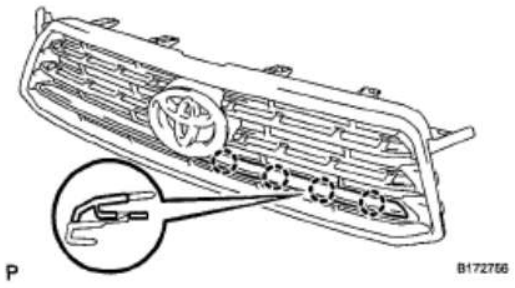


Fig. 66: Identifying Claws On Lower Radiator Grille Moulding LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL CENTER RADIATOR GRILLE MOULDING LH (w/ Plated Moulding)**
   a. Engage the 4 claws and install the center radiator grille moulding LH.
4. **INSTALL CENTER RADIATOR GRILLE MOULDING RH (w/ Plated Moulding)**

HINT:

Use the same procedure for the RH side and LH side.

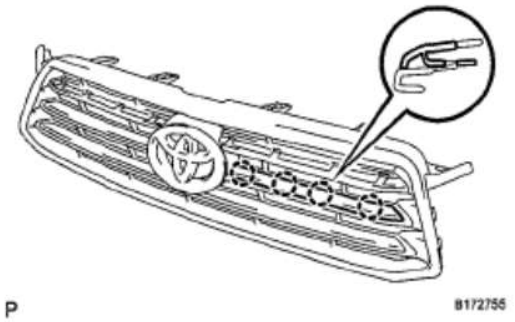


Fig. 67: Identifying Claws On Center Radiator Grille Moulding LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL UPPER RADIATOR GRILLE MOULDING LH (w/ Plated Moulding)**
   a. Engage the 4 claws and install the upper radiator grille moulding LH.
6. **INSTALL UPPER RADIATOR GRILLE MOULDING RH (w/ Plated Moulding)**

HINT:

Use the same procedure for the RH side and LH side.

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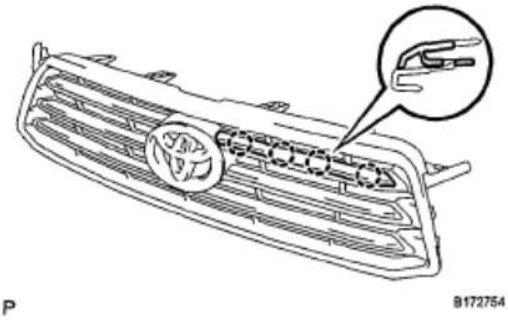


Fig. 68: Identifying Claws On Upper Radiator Grille Moulding LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **INSTALL INSIDE RADIATOR GRILLE (w/ Plated Moulding)**
   a. Engage the 9 claws and install the inside radiator grille.

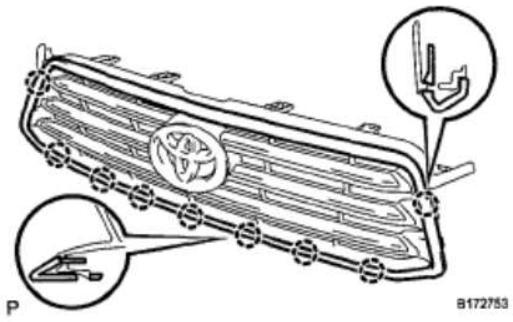


Fig. 69: Identifying Inside Radiator Grille Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Install the 7 screws.

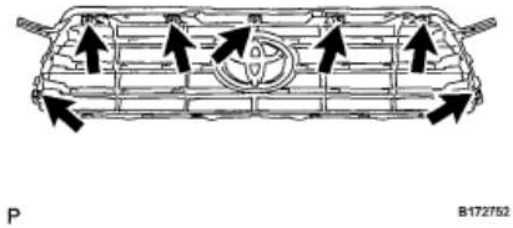


Fig. 70: Locating Inside Radiator Grille Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **INSTALL RADIATOR GRILLE EMBLEM**
   a. Engage the 3 claws and install the radiator grille emblem.

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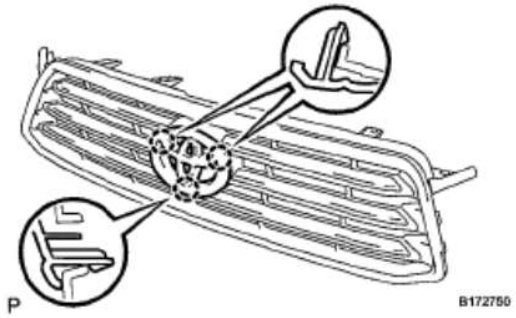


Fig. 71: Identifying Radiator Grille Emblem Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

9. **INSTALL RADIATOR GRILLE**
   a. Engage the 4 guides and 6 claws, and install the radiator grille.

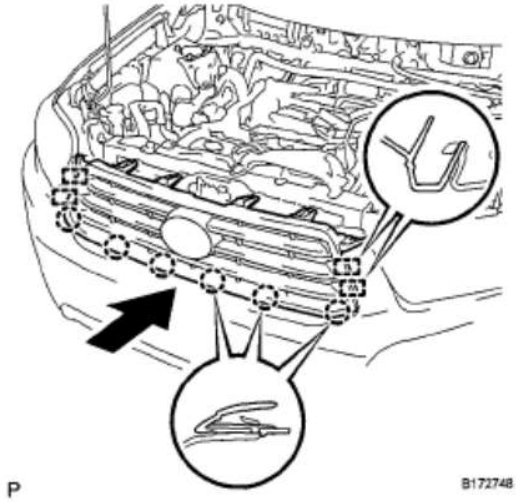


Fig. 72: Installing Radiator Grille
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Install the 4 clips and 2 bolts.



Fig. 73: Identifying Radiator Grille Bolts And Clips

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

10. **INSTALL COOL AIR INTAKE DUCT SEAL**
    a. Install the cool air intake duct seal with the 11 clips.

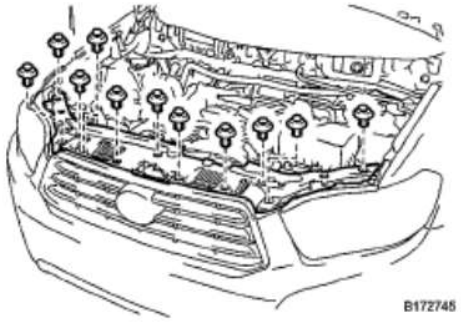


Fig. 74: Identifying Cool Air Intake Duct Seal Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NAME PLATE

COMPONENTS

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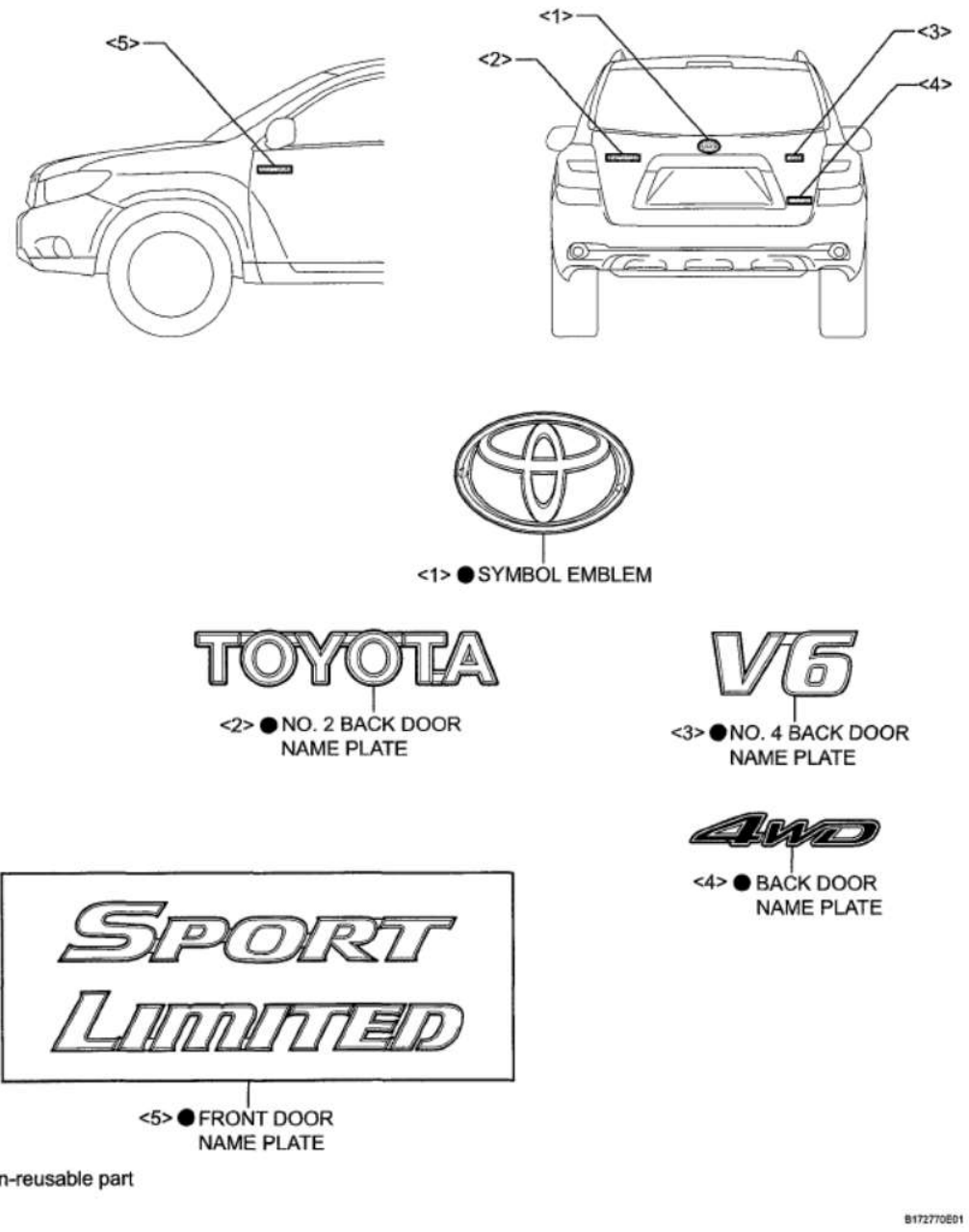


Fig. 75: Identifying Name Plate Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

HINT:

When removing the name plate and emblem heat the vehicle body, name plate and emblem using a heat light.

Heating temperature

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TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)
Name Plate, Emblem	20 to 30°C (68 to 86°F)

NOTE: Do not heat the vehicle body, name plate or emblem excessively.

1. **REMOVE SYMBOL EMBLEM**
   a. Put protective tape around the symbol emblem.
   b. Using a moulding remover, peel off the double-sided tape and remove the symbol emblem.

NOTE: Be careful not to damage the vehicle body.

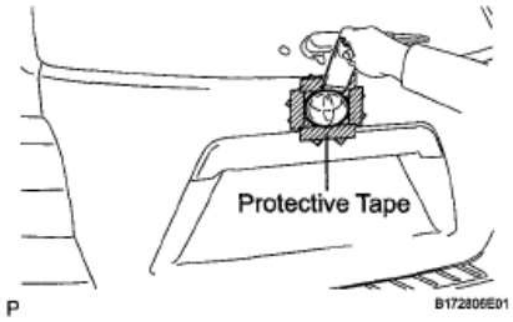


Fig. 76: Putting Protective Tape Around Emblem Symbol Emblem
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **REMOVE NO. 2 BACK DOOR NAME PLATE**
   a. Put protective tape around the name plate.
   b. Using a moulding remover, peel off the double-sided tape and remove the name plate.

NOTE: Be careful not to damage the vehicle body.

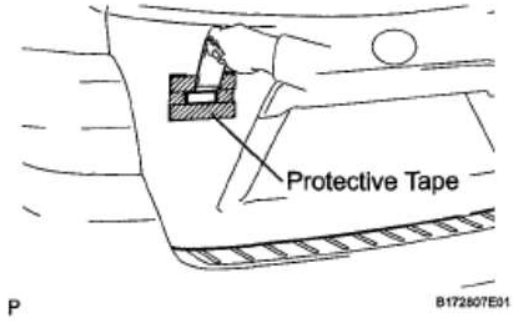


Fig. 77: Putting Protective Tape Around No. 2 Back Door Name Plate
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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3. **REMOVE NO. 4 BACK DOOR NAME PLATE**
   a. Put protective tape around the name plate.
   b. Using a moulding remover, peel off the double-sided tape and remove the name plate.

NOTE: Be careful not to damage the vehicle body.

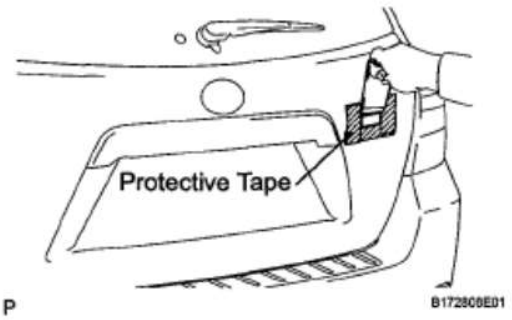


Fig. 78: Putting Protective Tape Around No. 4 Back Door Name Plate
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **REMOVE BACK DOOR NAME PLATE**
   a. Put protective tape around the name plate.
   b. Using a moulding remover, peel off the double-sided tape and remove the name plate.

NOTE: Be careful not to damage the vehicle body.

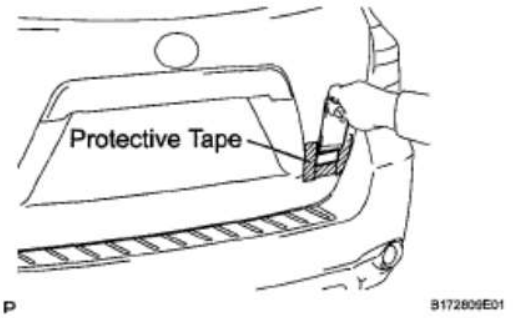


Fig. 79: Putting Protective Tape Around Back Door Name Plate
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **REMOVE FRONT DOOR NAME PLATE**
   a. Put protective tape around the name plate.
   b. Using a moulding remover, peel off the double-sided tape and remove the name plate.

NOTE: Be careful not to damage the vehicle body.

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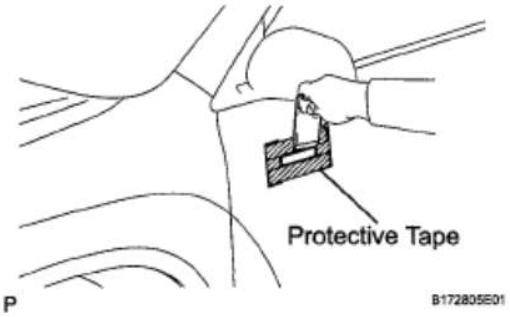


Fig. 80: Putting Protective Tape Around Front Door Name Plate
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

HINT:

When installing a new name plate and emblem, heat the vehicle body, name plate and emblem using a heat light.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)
Name Plate, Emblem	20 to 30°C (68 to 86°F)

NOTE: Do not heat the vehicle body, name plate or emblem excessively.

1. **INSTALL SYMBOL EMBLEM**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.
      2. Remove any double-sided tape from the vehicle body.
      3. Wipe off any tape adhesive residue with cleaner.
   b. Install a new symbol emblem.
      1. Using a heat light, heat the vehicle body and a new symbol emblem.
      2. Remove the release paper from the symbol emblem.

         HINT:

         After removing the release paper, keep the exposed adhesive free from foreign matter.

      3. Install the symbol emblem as shown in the illustration.

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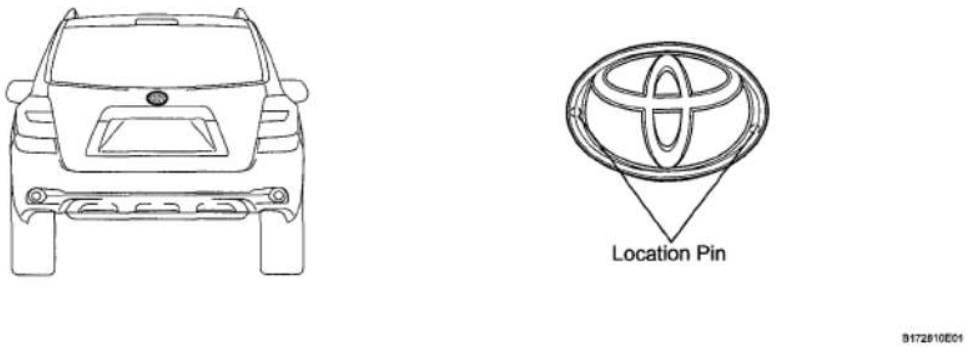


Fig. 81: Identifying Pin Location Of Symbol Emblem
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL NO. 2 BACK DOOR NAME PLATE**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.
      2. Remove any double-sided tape from the vehicle body.
      3. Wipe off any tape adhesive residue with cleaner.
   b. Install a new name plate.
      1. Using a heat light, heat the vehicle body and a new name plate.
      2. Remove the release paper from the name plate.

         HINT:

         After removing the release paper, keep the exposed adhesive free from foreign matter.

      3. Install the name plate as shown in the illustration.

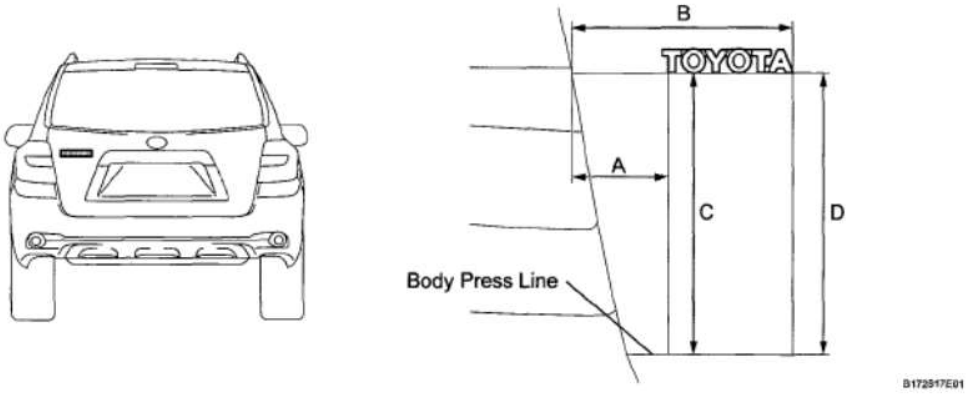


Fig. 82: Identifying No. 2 Back Door Name Plate Dimension
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard measurement

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STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	96.9 mm (3.815 in.)
B	218.9 mm (8.618 in.)
C	277.8 mm (10.937 in.)
D	277.0 mm (10.905 in.)

3. **INSTALL NO. 4 BACK DOOR NAME PLATE**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.
      2. Remove any double-sided tape from the vehicle body.
      3. Wipe off any tape adhesive residue with cleaner.
   b. Install a new name plate.
      1. Using a heat light, heat the vehicle body and a new name plate.
      2. Remove the release paper from the name plate.

         HINT:

         After removing the release paper, keep the exposed adhesive free from foreign matter.

      3. Install the name plate as shown in the illustration.

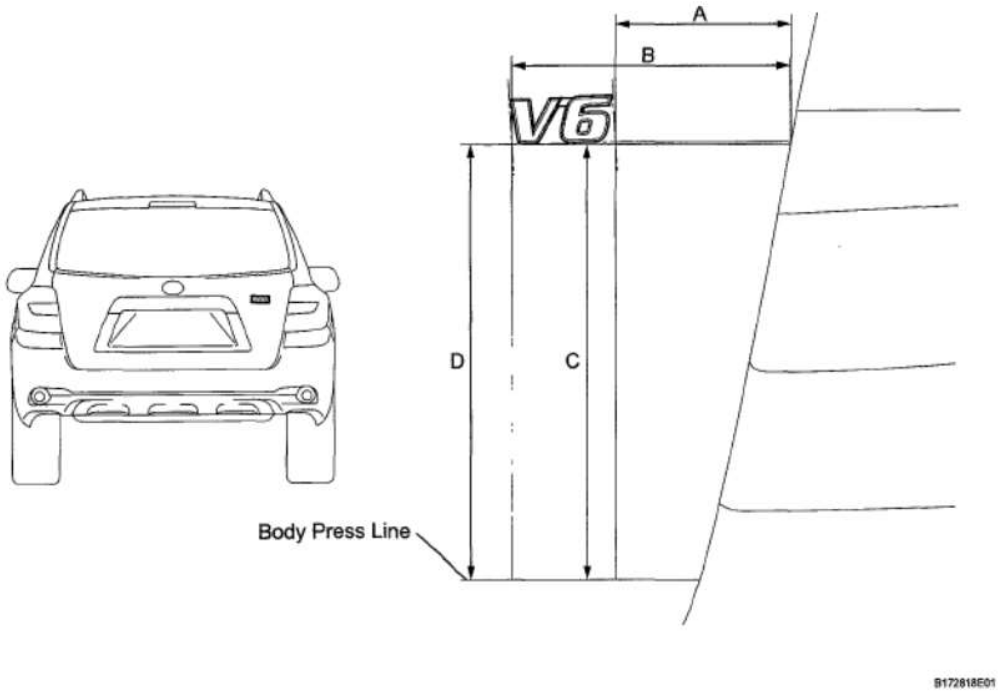


Fig. 83: Identifying No. 4 Back Door Name Plate Dimension
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Standard measurement

STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	105.1 mm (4.138 in.)
B	166.0 mm (6.535 in.)
C	264.5 mm (10.413 in.)
D	262.3 mm (10.327 in.)

4. **INSTALL BACK DOOR NAME PLATE**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.
      2. Remove any double-sided tape from the vehicle body.
      3. Wipe off any tape adhesive residue with cleaner.
   b. Install a new name plate.
      1. Using a heat light, heat the vehicle body and a new name plate.
      2. Remove the release paper from the name plate.

         HINT:

         After removing the release paper, keep the exposed adhesive free from foreign matter.

      3. Install the name plate as shown in the illustration.

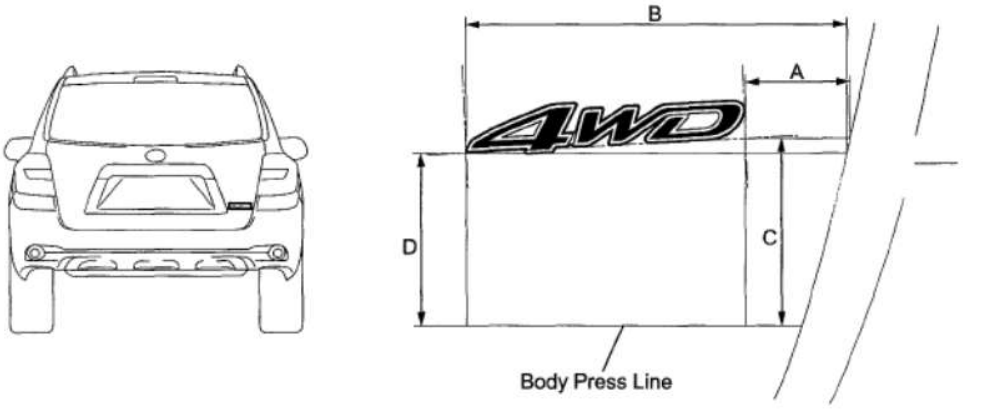


Fig. 84: Identifying Back Door Name Plate Dimension
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard measurement

STANDARD MEASUREMENT REFERENCE

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Dimension	Measurement
A	37.5 mm (1.476 in.)
B	141.3 mm (5.563 in.)
C	69.5 mm (2.736 in.)
D	65.4 mm (2.575 in.)

5. **INSTALL FRONT DOOR NAME PLATE**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.
      2. Remove any double-sided tape from the vehicle body.
      3. Wipe off any tape adhesive residue with cleaner.
   b. Install a new name plate.
      1. Using a heat light, heat the vehicle body and a new name plate.
      2. Remove the release paper from the name plate.

         HINT:

         After removing the release paper, keep the exposed adhesive free from foreign matter.

      3. Install the name plate as shown in the illustration.

         for SPORT plate on LH side:

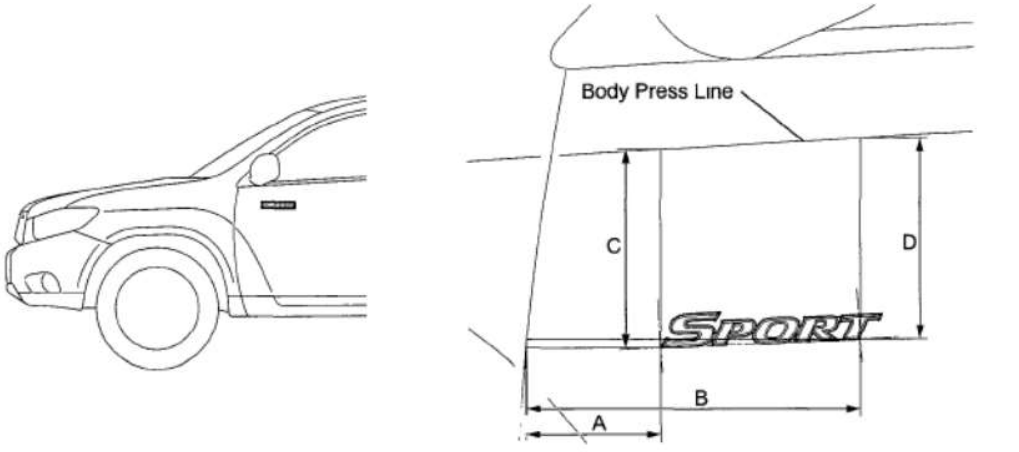


Fig. 85: Identifying Sport Plate Dimension (LH Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard measurement

STANDARD MEASUREMENT REFERENCE

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Dimension	Measurement
A	103.9 mm (4.091 in.)
B	255.9 mm (10.075 in.)
C	173.3 mm (6.823 in.)
D	174.7 mm (6.878 in.)

for SPORT plate on RH side:

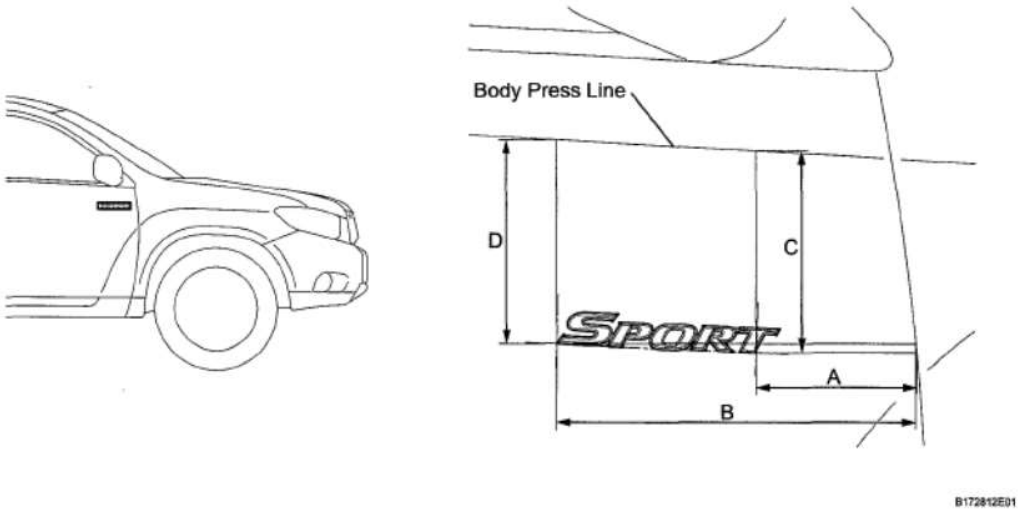


Fig. 86: Identifying Sport Plate Dimension (RH Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard measurement

STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	121.1 mm (4.768 in.)
B	273.0 mm (10.748 in.)
C	173.4 mm (6.827 in.)
D	174.9 mm (6.886 in.)

for LIMITED plate on LH side:

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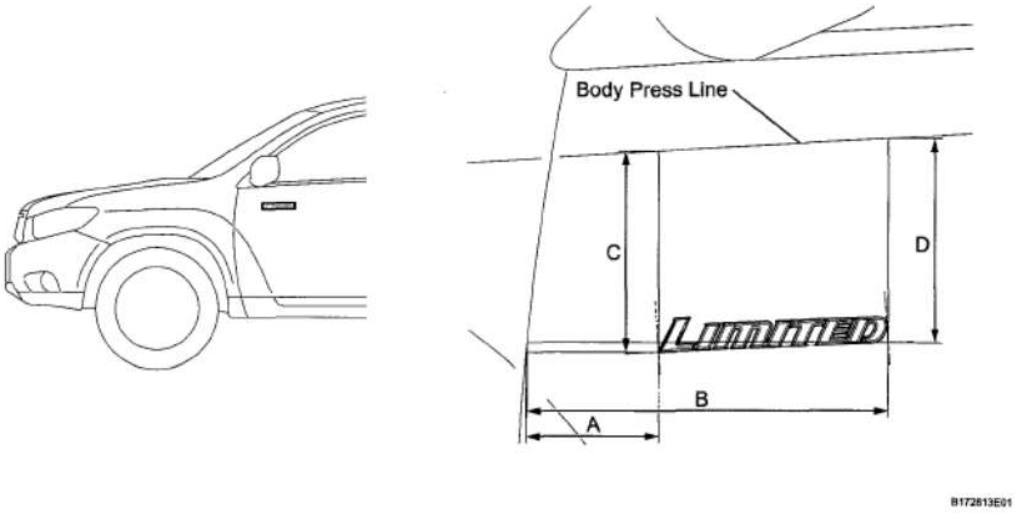


Fig. 87: Identifying Limited Plate Dimension (LH Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Standard measurement

STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	100.6 mm (3.961 in.)
B	276.3 mm (10.878 in.)
C	173.3 mm (6.823 in.)
D	174.9 mm (6.886 in.)

for LIMITED plate on RH side:

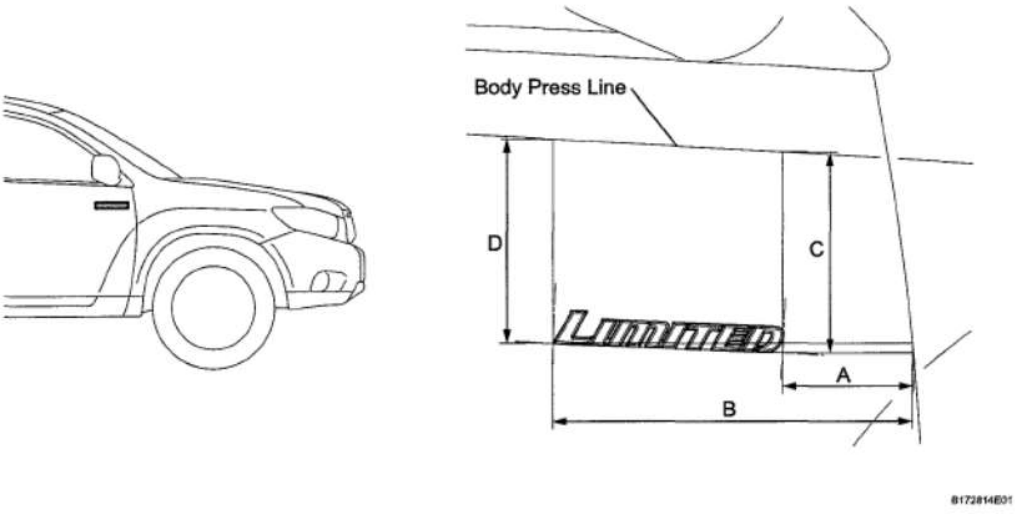


Fig. 88: Identifying Limited Plate Dimension (RH Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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Standard measurement

STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	100.9 mm (3.972 in.)
B	276.3 mm (10.878 in.)
C	173.3 mm (6.823 in.)
D	174.9 mm (6.886 in.)

REAR SPOILER

COMPONENTS

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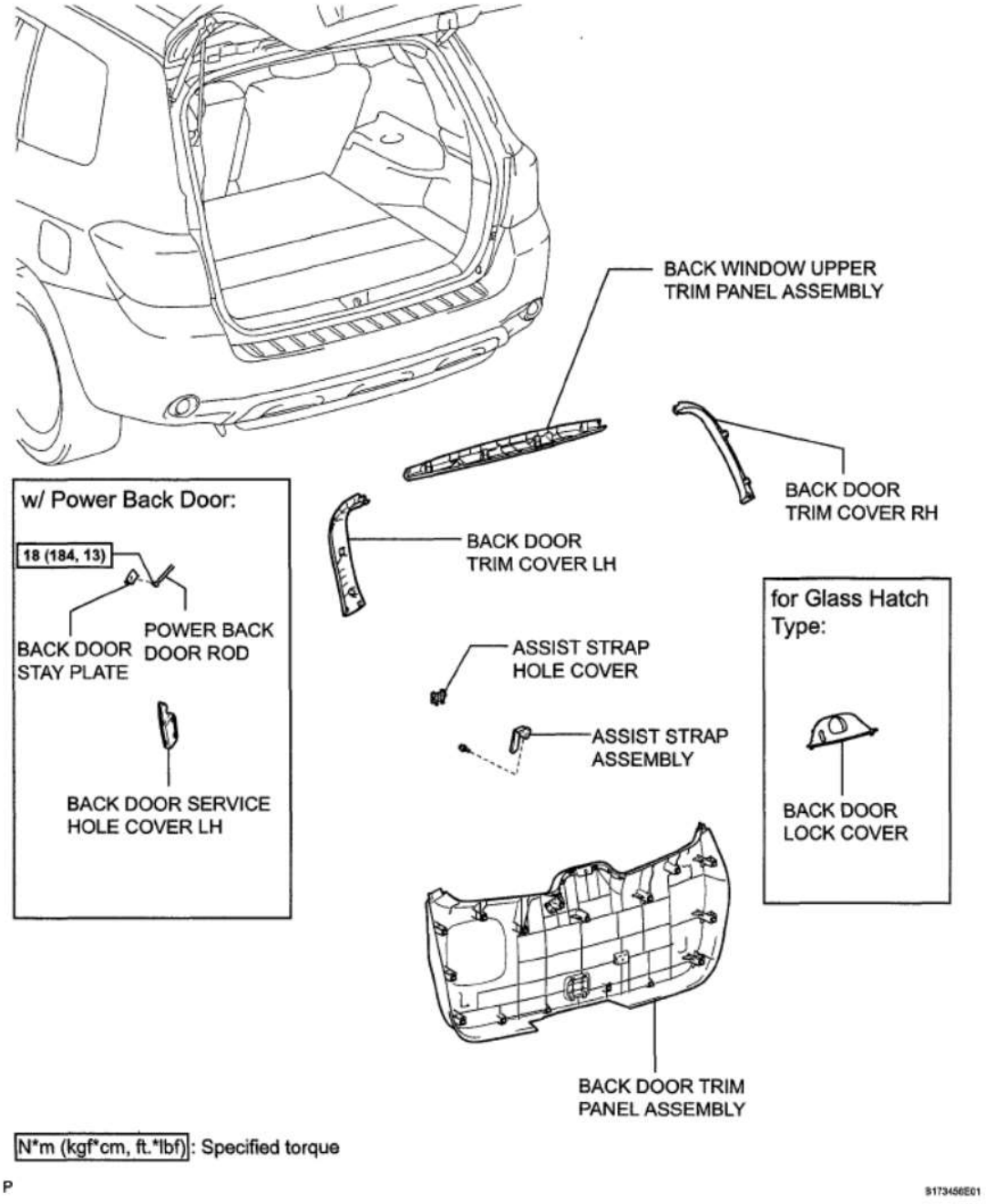


Fig. 89: Identifying Rear Spoiler Components With Torque Specification (1 Of 5)
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for Fixed Glass Type:

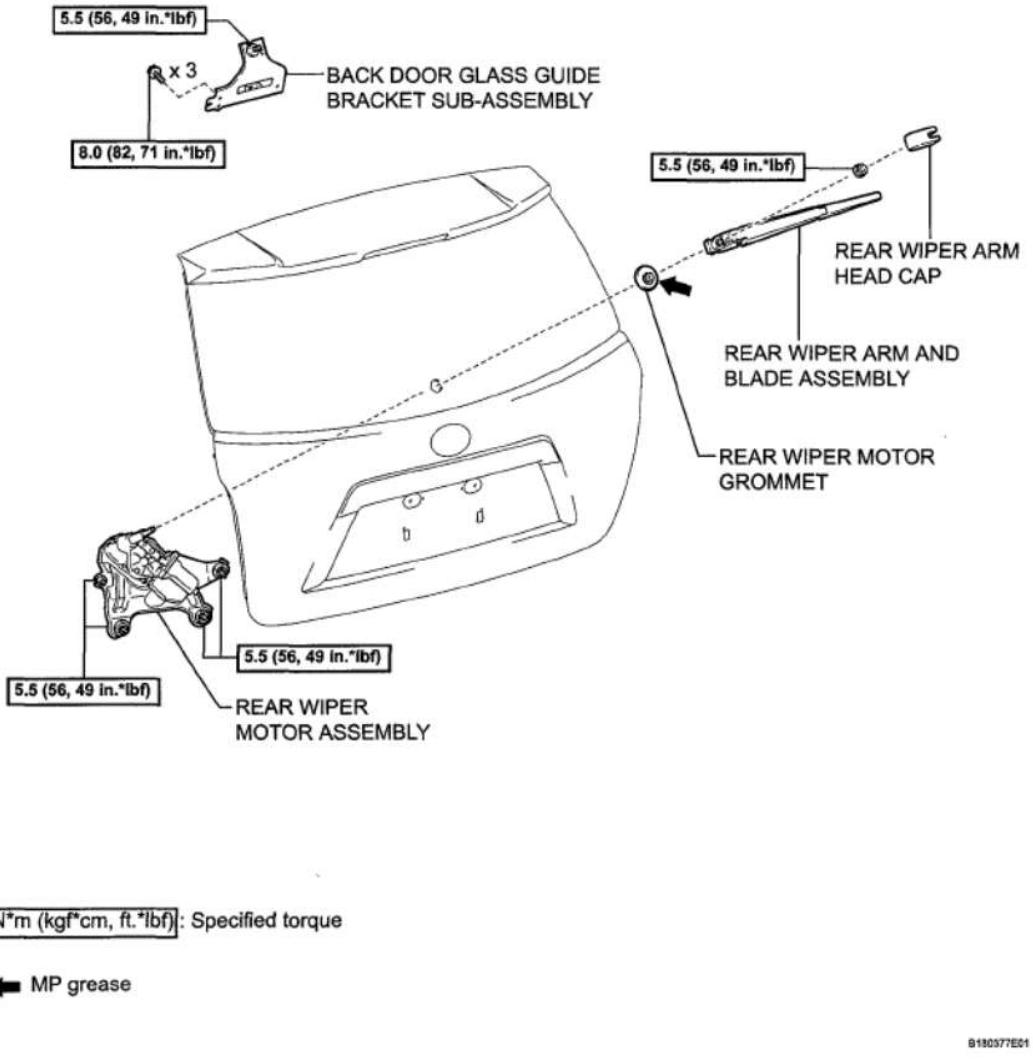


Fig. 90: Identifying Rear Spoiler Components With Torque Specification (2 Of 5)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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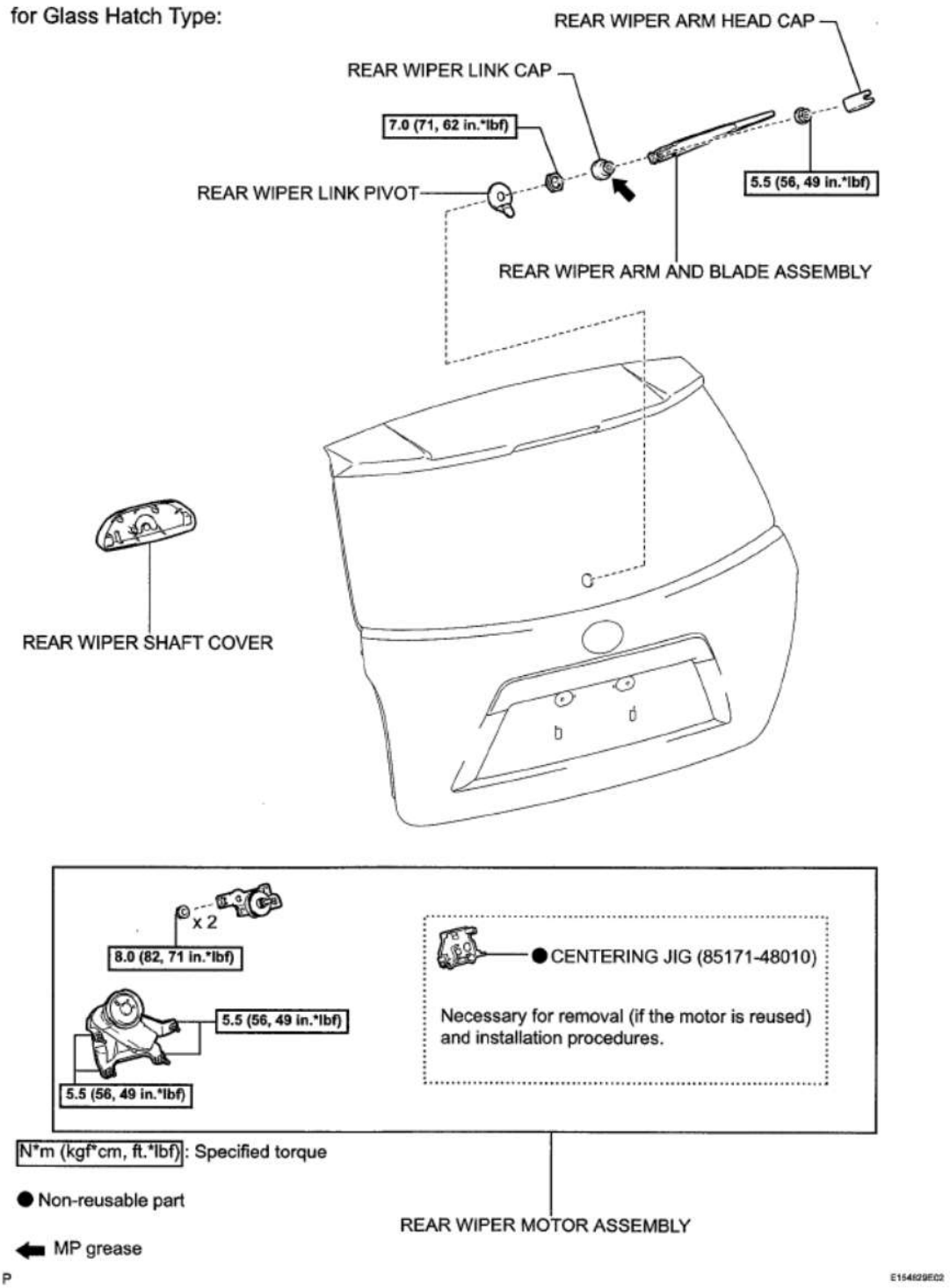


Fig. 91: Identifying Rear Spoiler Components With Torque Specification (3 Of 5)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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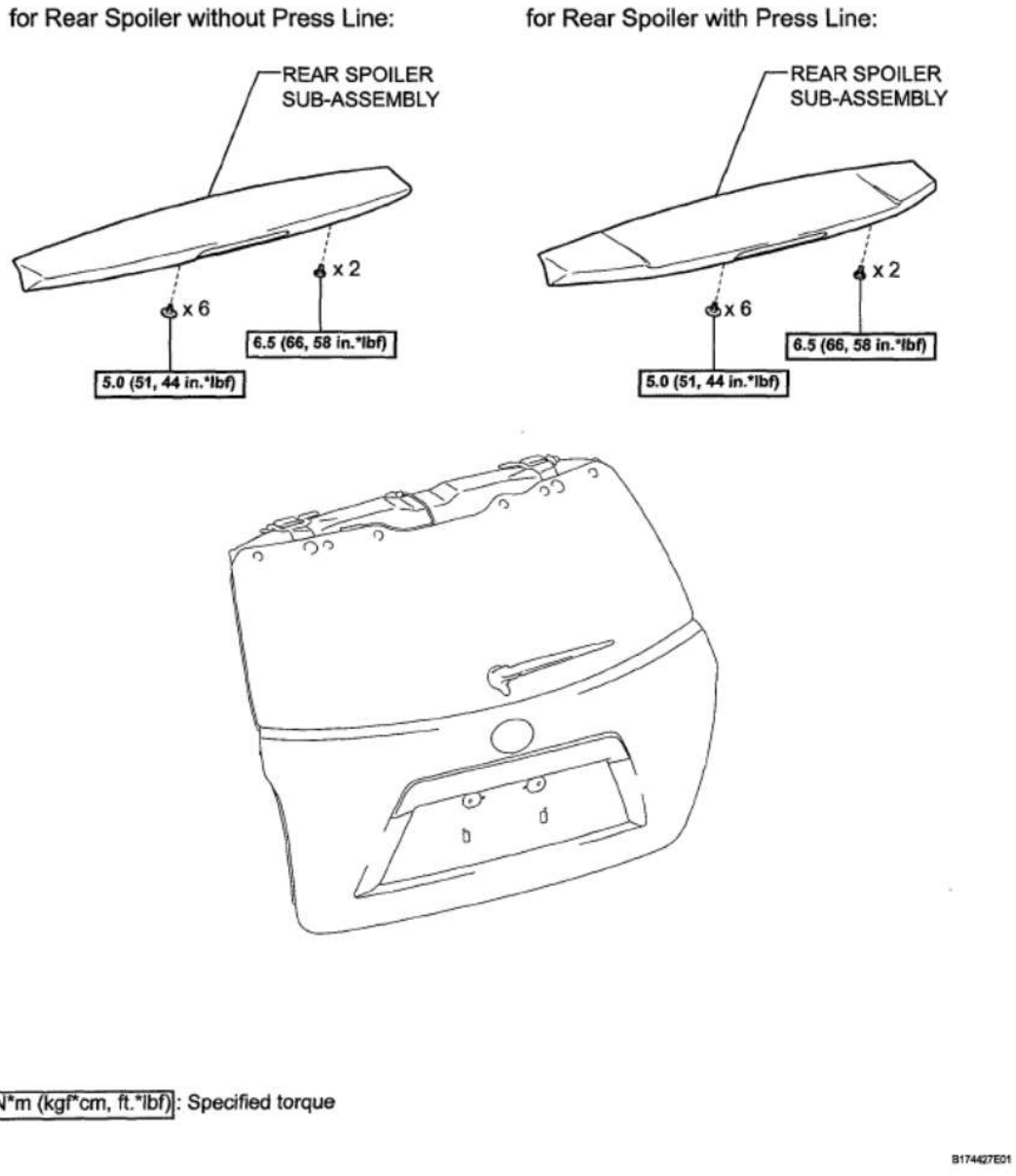


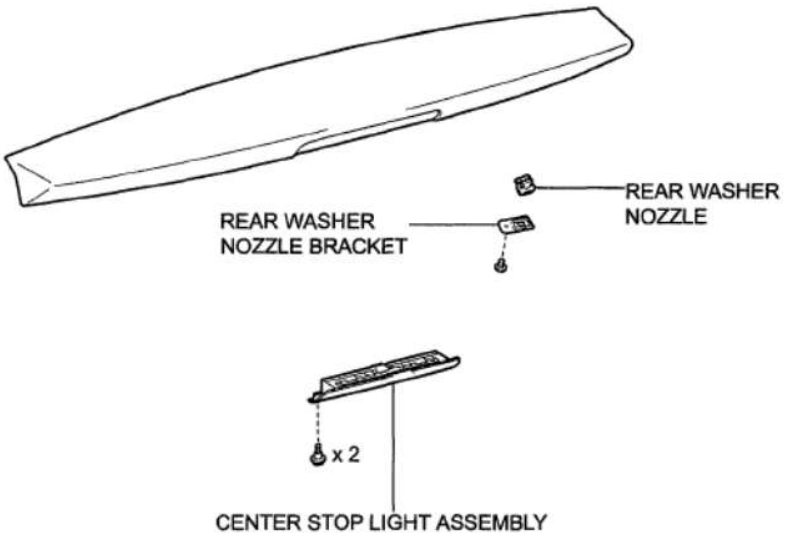
Fig. 92: Identifying Rear Spoiler Components With Torque Specification (4 Of 5)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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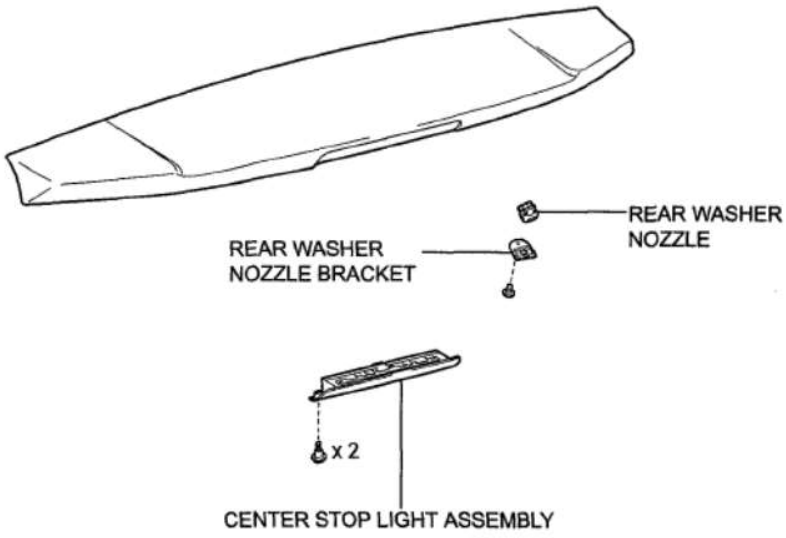
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for Rear Spoiler without Press Line:



for Rear Spoiler with Press Line:



P B174429E01

Fig. 93: Identifying Rear Spoiler Components With Torque Specification (5 Of 5)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **PRECAUTION**

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NOTE: **If a rear spoiler sub-assembly is removed and installed, the location of the axis of the rear wiper motor assembly (for Glass Hatch Type) will change, causing the wiping angle to change. Be sure to remove and install the rear wiper motor assembly (for Glass Hatch Type) using the centering jig.**

2. **REMOVE BACK WINDOW UPPER TRIM PANEL ASSEMBLY** (See **DISASSEMBLY**)
3. **REMOVE BACK DOOR TRIM COVER LH (w/o Power Back Door)** (See **DISASSEMBLY**)
4. **REMOVE BACK DOOR SERVICE HOLE COVER LH (w/ Power Back Door)** (See **DISASSEMBLY**)
5. **DISCONNECT POWER BACK DOOR ROD (w/ Power Back Door)** (See **DISASSEMBLY**)
6. **REMOVE BACK DOOR TRIM COVER LH (w/ Power Back Door)** (See **DISASSEMBLY**)
7. **REMOVE BACK DOOR TRIM COVER RH** (See **DISASSEMBLY**)
8. **REMOVE BACK DOOR LOCK COVER (for Glass Hatch Type)** (See **DISASSEMBLY**)
9. **REMOVE ASSIST STRAP HOLE COVER** (See **DISASSEMBLY**)
10. **REMOVE ASSIST STRAP ASSEMBLY** (See **DISASSEMBLY**)
11. **REMOVE BACK DOOR TRIM PANEL ASSEMBLY** (See **DISASSEMBLY**)
12. **REMOVE REAR WIPER SHAFT COVER (for Glass Hatch Type)** (See **REMOVAL**)
13. **REMOVE REAR WIPER ARM HEAD CAP** (See **REMOVAL**)
14. **REMOVE REAR WIPER ARM AND BLADE ASSEMBLY** (See **REMOVAL**)
15. **REMOVE REAR WIPER LINK CAP (for Glass Hatch Type)** (See **REMOVAL**)
16. **REMOVE REAR WIPER MOTOR GROMMET (for Fixed Glass Type)** (See **REMOVAL**)
17. **REMOVE REAR WIPER LINK PIVOT (for Glass Hatch Type)** (See **REMOVAL**)
18. **REMOVE REAR WIPER MOTOR ASSEMBLY (for Fixed Glass Type)** (See **REMOVAL**)
19. **REMOVE REAR WIPER MOTOR ASSEMBLY (for Glass Hatch Type)** (See **REMOVAL**)
20. **REMOVE BACK DOOR GLASS GUIDE BRACKET SUB-ASSEMBLY (for Fixed Glass Type)** (See **DISASSEMBLY**)
21. **REMOVE REAR SPOILER SUB-ASSEMBLY**
    a. Put protective tape around the rear spoiler sub-assembly.
    b. Disconnect the wire harness.

NOTE: **Do not allow the disconnected wire harness to get caught between the back door and the vehicle body to prevent it from being damaged.**

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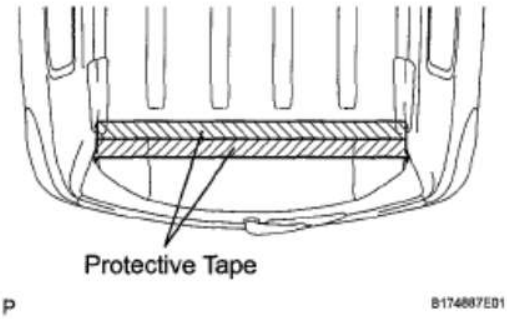


Fig. 94: Putting Protective Tape Around Rear Spoiler Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Turn back the wire harness grommet.
2. Disengage the 4 claws and pull out the wire harness from the vehicle.

NOTE: Do not forcefully pull out the wire harness.

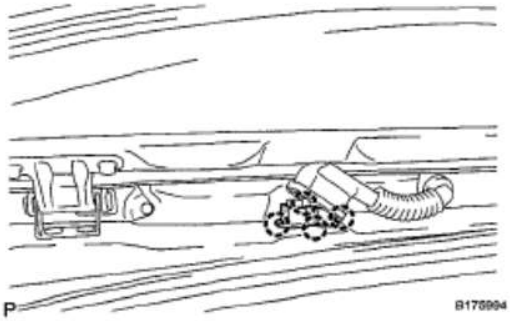


Fig. 95: Identifying Claws On Wire Harness
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Disconnect the 2 connectors.
4. Disconnect the rear washer hose.

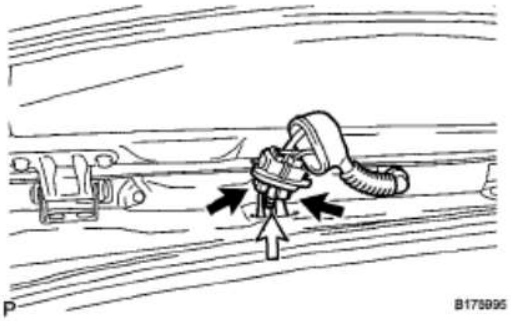


Fig. 96: Locating Connectors
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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5. Disengage the grommet.
6. Disconnect the connector.

c. Using a "TORX" socket wrench (T30), remove the 2 screws (A).

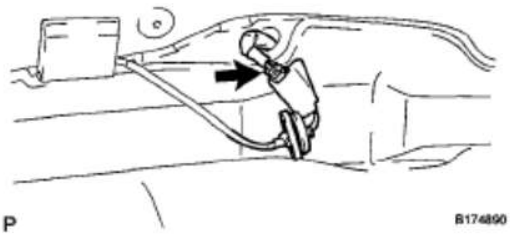


Fig. 97: Locating Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Using a "TORX" socket wrench (T30), remove the 6 screws (B).

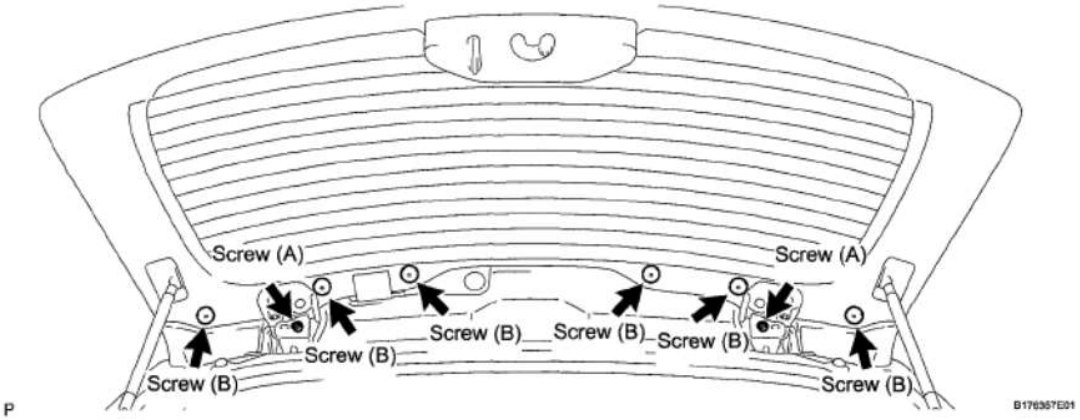
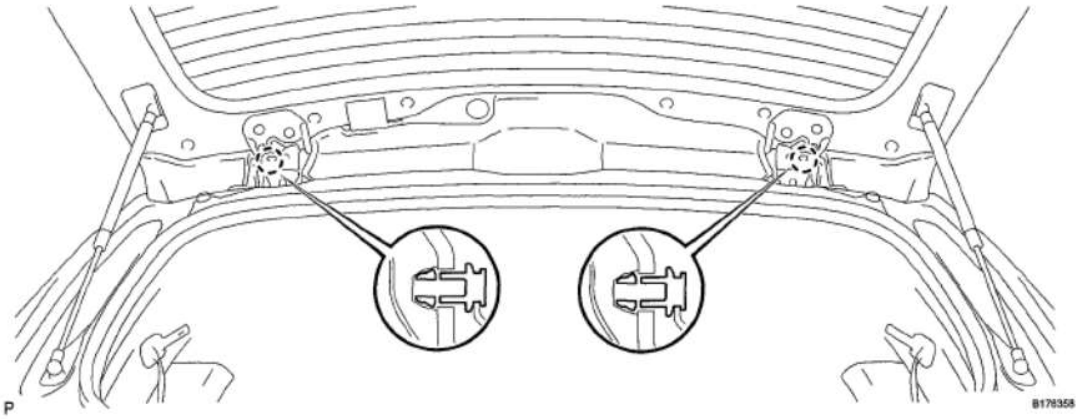


Fig. 98: Locating Rear Spoiler Sub-Assembly Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Disengage the 2 claws.



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Fig. 99: Identifying Claws On Rear Spoiler Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

f. Raise and lower the glass hatch and the back door respectively. Pull out the wire harness from the vehicle and remove the rear spoiler sub-assembly.

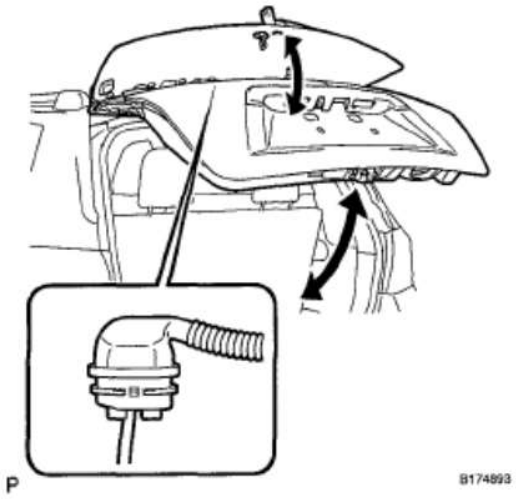


Fig. 100: Pulling Out Wire Harness From Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

22. **REMOVE REAR WASHER NOZZLE (for Rear Spoiler without Press Line)**
    a. Remove the screw and rear washer nozzle bracket.

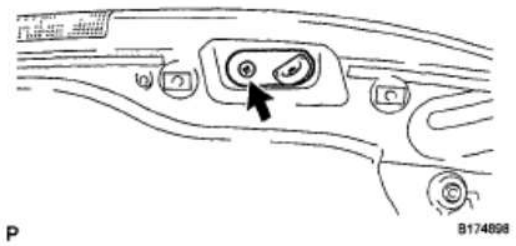


Fig. 101: Locating Rear Washer Nozzle Bracket Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

    b. Disengage the claws and remove the rear washer nozzle.
23. **REMOVE CENTER STOP LIGHT ASSEMBLY (for Rear Spoiler without Press Line)** (See **REMOVAL**)

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Fig. 102: Identifying Rear Washer Nozzle Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

24. **REMOVE REAR WASHER NOZZLE (for Rear Spoiler with Press Line)**
    a. Remove the screw and rear washer nozzle bracket.

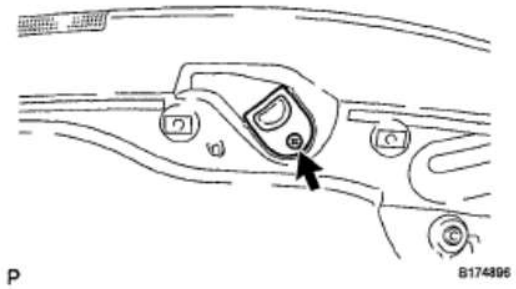


Fig. 103: Locating Rear Washer Nozzle Bracket Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

    b. Disengage the claws and remove the rear washer nozzle.

25. **REMOVE CENTER STOP LIGHT ASSEMBLY (for Rear Spoiler with Press Line)** (See **HIGH MOUNTED STOP LIGHT ASSEMBLY (FOR REAR SPOILER WITH PRESS LINE)**)



Fig. 104: Identifying Rear Washer Nozzle Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

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1. **PRECAUTION**

NOTE:

- **If a rear spoiler sub-assembly is removed and installed, the location of the axis of the rear wiper motor assembly (for Glass Hatch Type) will change, causing the wiping angle to change. Be sure to remove and install the rear wiper motor assembly (for Glass Hatch Type) using the centering jig.**
- **After installing a rear spoiler sub-assembly, install the rear wiper motor assembly (for Glass Hatch Type), do not open the glass hatch and the back door before installing the rear wiper link pivot.**

2. **INSTALL CENTER STOP LIGHT ASSEMBLY (for Rear Spoiler without Press Line)** (See **INSPECTION**)
3. **INSTALL REAR WASHER NOZZLE (for Rear Spoiler without Press Line)**
   a. Engage the claws and install the rear washer nozzle.



Fig. 105: Identifying Rear Washer Nozzle Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Install the rear washer nozzle bracket with the screw.
4. **INSTALL CENTER STOP LIGHT ASSEMBLY (for Rear Spoiler with Press Line)** (See **INSTALLATION**)

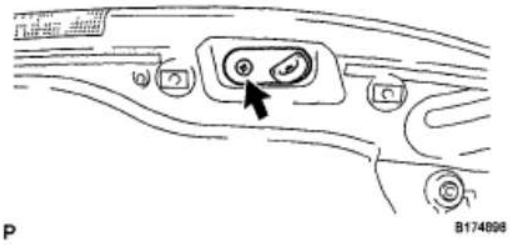


Fig. 106: Locating Rear Washer Nozzle Bracket Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL REAR WASHER NOZZLE (for Rear Spoiler with Press Line)**
   a. Engage the claws and install the rear washer nozzle.

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Fig. 107: Identifying Rear Washer Nozzle Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Install the rear washer nozzle bracket with the screw.

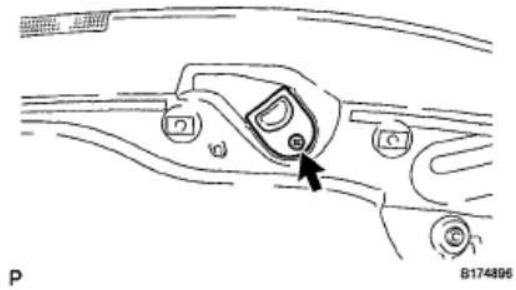
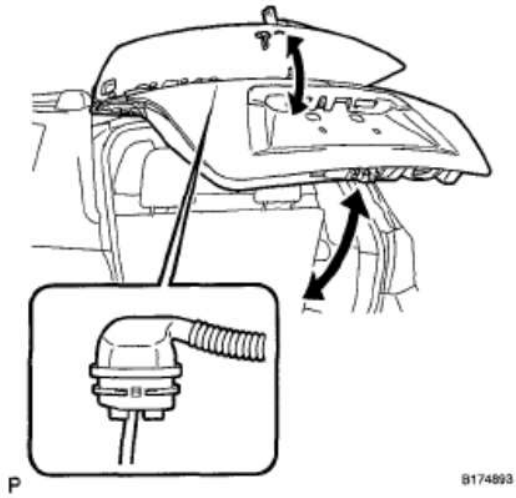


Fig. 108: Locating Rear Washer Nozzle Bracket Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL REAR SPOILER SUB-ASSEMBLY**
   a. Raise and lower the glass hatch and the back door respectively. Pass the wire harness into the vehicle and temporarily install the rear spoiler sub-assembly.
   b. Engage the 2 claws.



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Fig. 109: Pulling Out Wire Harness From Vehicle
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

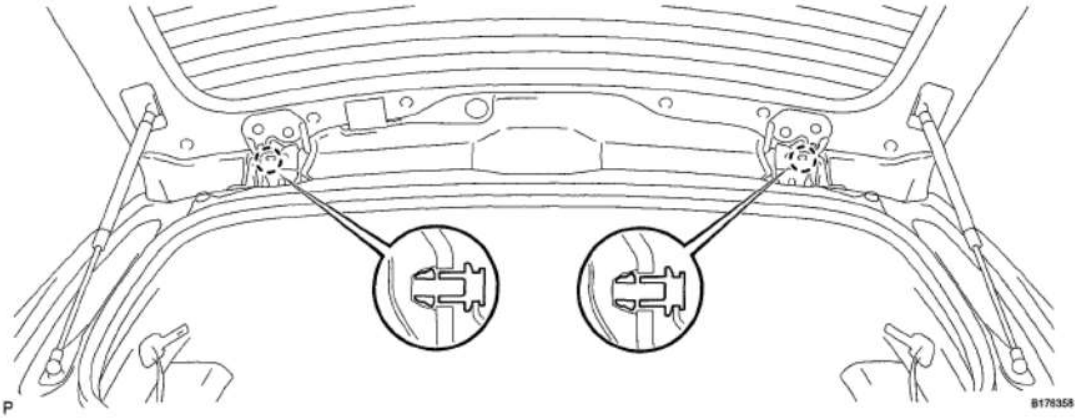


Fig. 110: Identifying Claws On Rear Spoiler Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Temporarily install the 8 screws.

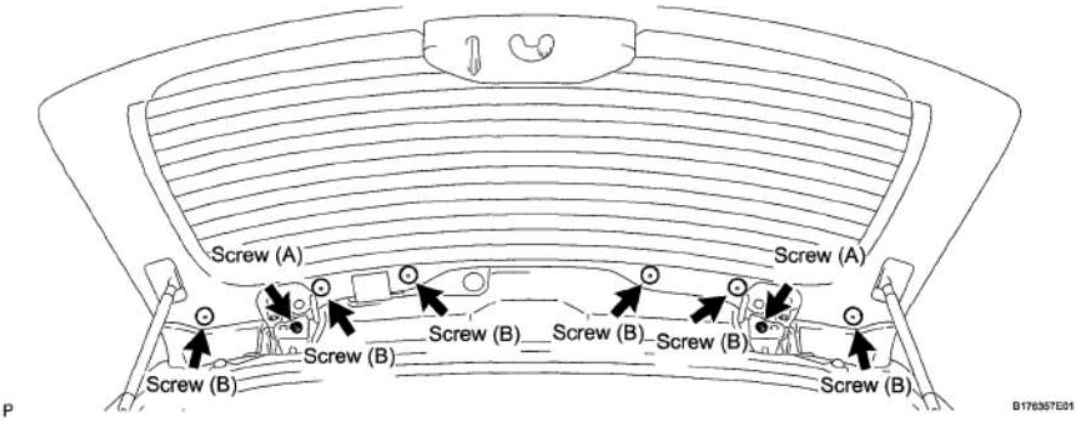


Fig. 111: Locating Rear Spoiler Sub-Assembly Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Using a "TORX" socket wrench (T30), fully tighten the 6 screws (B).

Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

e. Using a "TORX" socket wrench (T30), fully tighten the 2 screws (A).

Torque: 6.5 N*m (66 kgf*cm, 58 in.*lbf)

f. Connect the wire harness.
   1. Connect the connector.

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2. Engage the grommet.

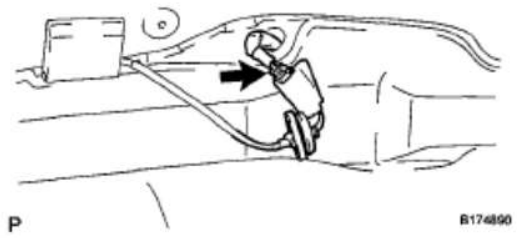


Fig. 112: Locating Connector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Connect the rear washer hose.
4. Connect the 2 connectors.

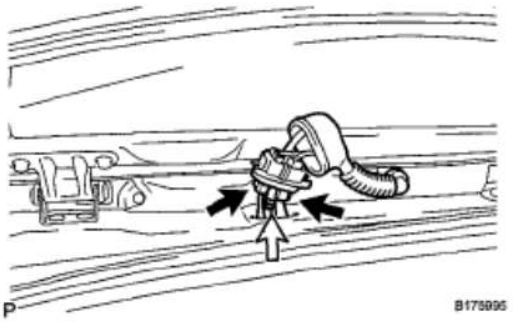
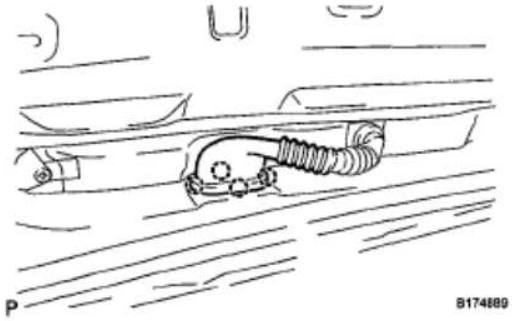


Fig. 113: Locating Connectors
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. Install the wire harness grommet to the wire harness.
6. Engage the 4 claws and install the wire harness.
7. **INSTALL BACK DOOR GLASS GUIDE BRACKET SUB-ASSEMBLY (for Fixed Glass Type)** (See **REASSEMBLY**)
8. **INSTALL REAR WIPER MOTOR ASSEMBLY (for Fixed Glass Type)** (See **INSTALLATION**)
9. **INSTALL REAR WIPER MOTOR ASSEMBLY (for Glass Hatch Type)** (See **INSTALLATION**)



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Fig. 114: Identifying Claws On Wire Harness
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. **INSTALL REAR WIPER MOTOR GROMMET (for Fixed Glass Type)** (See **INSTALLATION**)
11. **INSTALL REAR WIPER LINK PIVOT (for Glass Hatch Type)** (See **INSTALLATION**)
12. **INSTALL REAR WIPER LINK CAP (for Glass Hatch Type)** (See **INSTALLATION**)
13. **INSTALL REAR WIPER ARM AND BLADE ASSEMBLY (for Fixed Glass Type)** (See **INSTALLATION**)
14. **INSTALL REAR WIPER ARM AND BLADE ASSEMBLY (for Glass Hatch Type)** (See **INSTALLATION**)
15. **INSTALL REAR WIPER ARM HEAD CAP** (See **INSTALLATION**)
16. **INSTALL REAR WIPER SHAFT COVER (for Glass Hatch Type)** (See **INSTALLATION**)
17. **INSTALL BACK DOOR TRIM PANEL ASSEMBLY** (See **REASSEMBLY**)
18. **INSTALL ASSIST STRAP ASSEMBLY** (See **REASSEMBLY**)
19. **INSTALL ASSIST STRAP HOLE COVER** (See **REASSEMBLY**)
20. **INSTALL BACK DOOR LOCK COVER (for Glass Hatch Type)** (See **REASSEMBLY**)
21. **INSTALL BACK DOOR TRIM COVER LH (w/o Power Back Door)** (See **REASSEMBLY**)
22. **INSTALL BACK DOOR TRIM COVER LH (w/ Power Back Door)** (See **REASSEMBLY**)
23. **CONNECT POWER BACK DOOR ROD (w/ Power Back Door)** (See **REASSEMBLY**)
24. **INSTALL BACK DOOR SERVICE HOLE COVER LH (w/ Power Back Door)** (See **REASSEMBLY**)
25. **INSTALL BACK DOOR TRIM COVER RH** (See **REASSEMBLY**)
26. **INSTALL BACK WINDOW UPPER TRIM PANEL ASSEMBLY** (See **REASSEMBLY**)
27. **INSPECT REAR WASHER NOZZLE** (See **ON-VEHICLE INSPECTION**)

ROOF RACK

COMPONENTS

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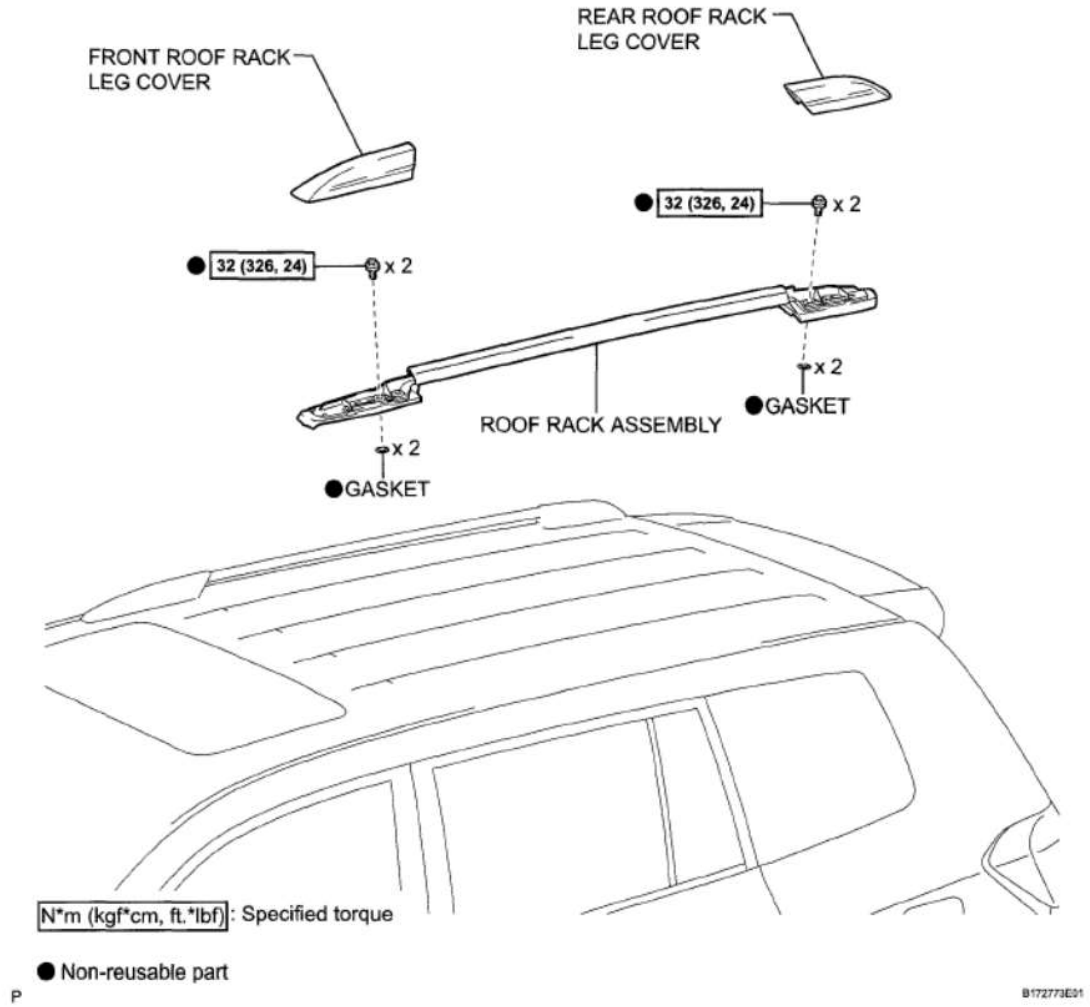


Fig. 115: Identifying Roof Rack Components With Torque Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE FRONT ROOF RACK LEG COVER**
   a. Put protective tape around the front roof rack leg cover.
   b. Using a moulding remover, disengage the 4 claws.

NOTE: Be careful not to damage the claws.

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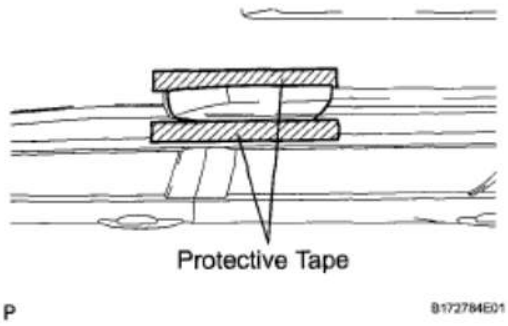


Fig. 116: Putting Protective Tape Around Front Roof Rack Leg Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Disengage the guide and remove the front roof rack leg cover.



Fig. 117: Removing Front Roof Rack Leg Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **REMOVE REAR ROOF RACK LEG COVER**
   a. Put protective tape around the rear roof rack leg cover.
   b. Using a moulding remover, disengage the 4 claws.

NOTE: Be careful not to damage the claws.

c. Disengage the guide and remove the rear roof rack leg cover.

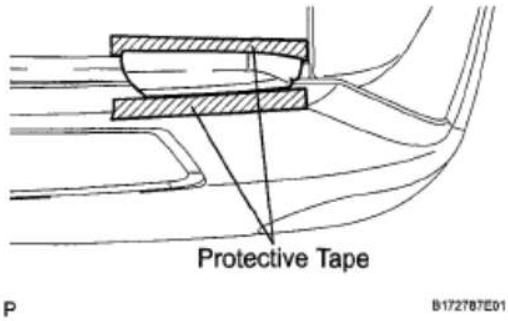


Fig. 118: Putting Protective Tape Around Rear Roof Rack Leg Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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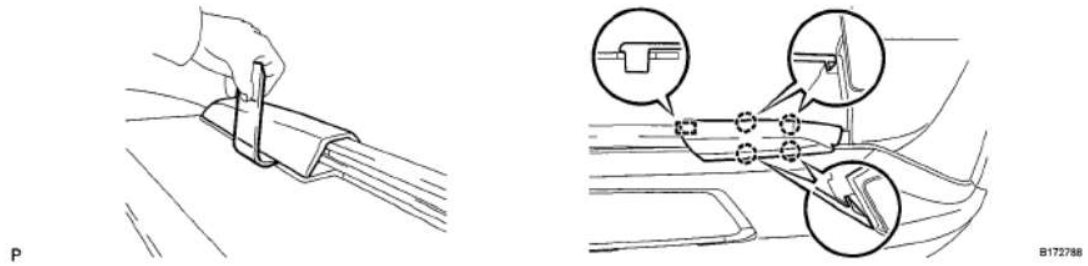


Fig. 119: Removing Rear Roof Rack Leg Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **REMOVE ROOF RACK ASSEMBLY**
   a. Remove the 4 bolts and roof rack assembly.

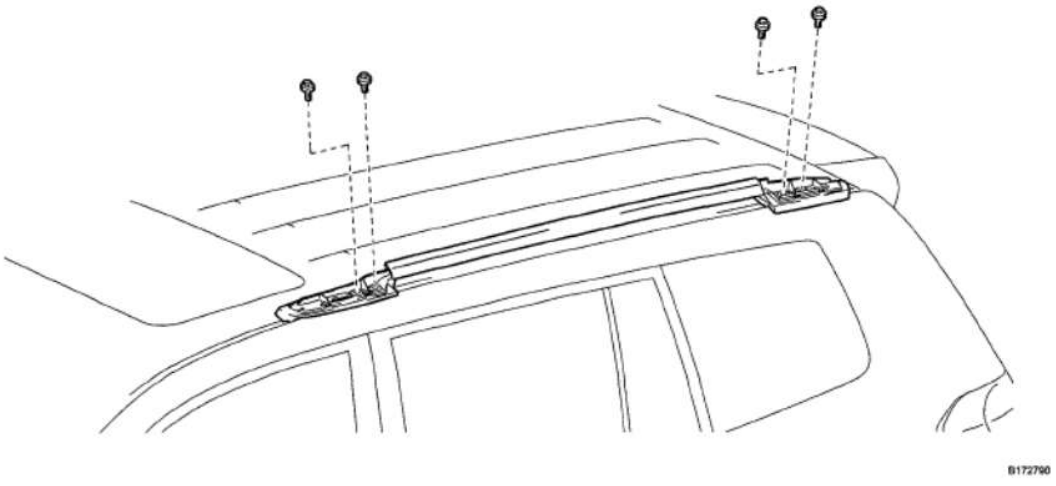


Fig. 120: Identifying Roof Rack Assembly With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Remove the 4 gaskets.

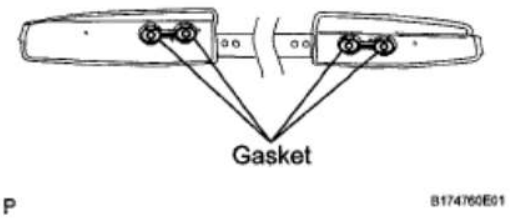


Fig. 121: Identifying Roof Rack Assembly Gaskets
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL ROOF RACK ASSEMBLY**

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a. Install 4 new gaskets.
b. Install the roof rack assembly with 4 new bolts.

Torque: 32 N*m (326 kgf*cm, 24 ft.*lbf)

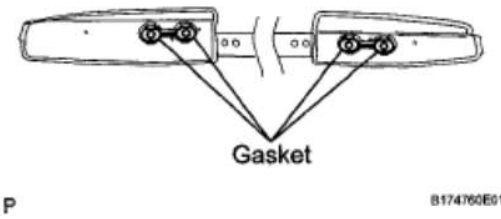


Fig. 122: Identifying Roof Rack Assembly Gaskets
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

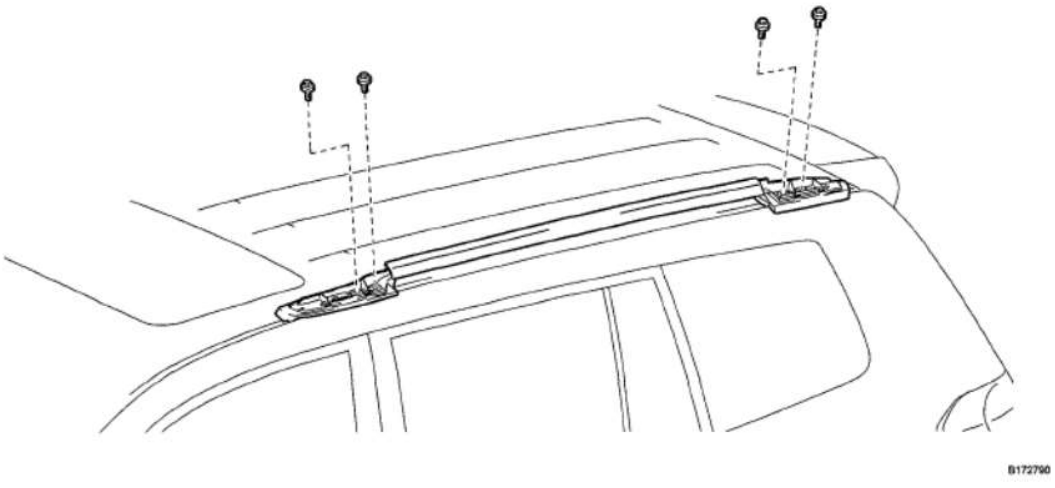


Fig. 123: Identifying Roof Rack Assembly With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL FRONT ROOF RACK LEG COVER**
   a. Engage the guide and 4 claws, and install the front roof rack leg cover.

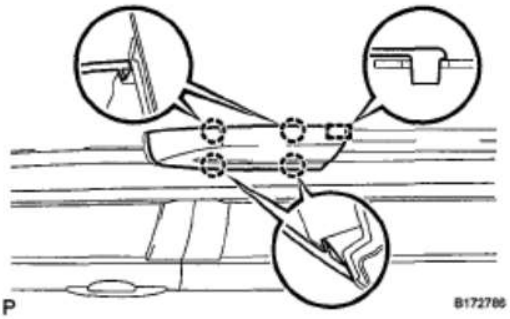


Fig. 124: Identifying Front Roof Rack Leg Cover Guide And Claws

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

3. **INSTALL REAR ROOF RACK LEG COVER**
   a. Engage the guide and 4 claws, and install the rear roof rack leg cover.

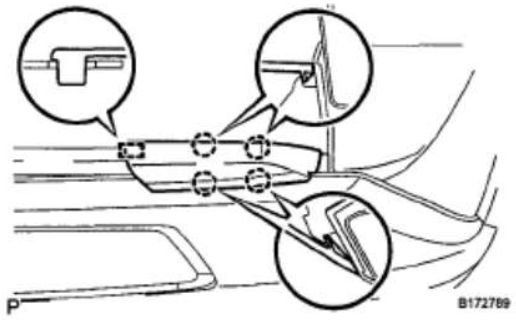


Fig. 125: Identifying Rear Roof Rack Leg Cover Guide And Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

FRONT DOOR BELT MOULDING

COMPONENTS

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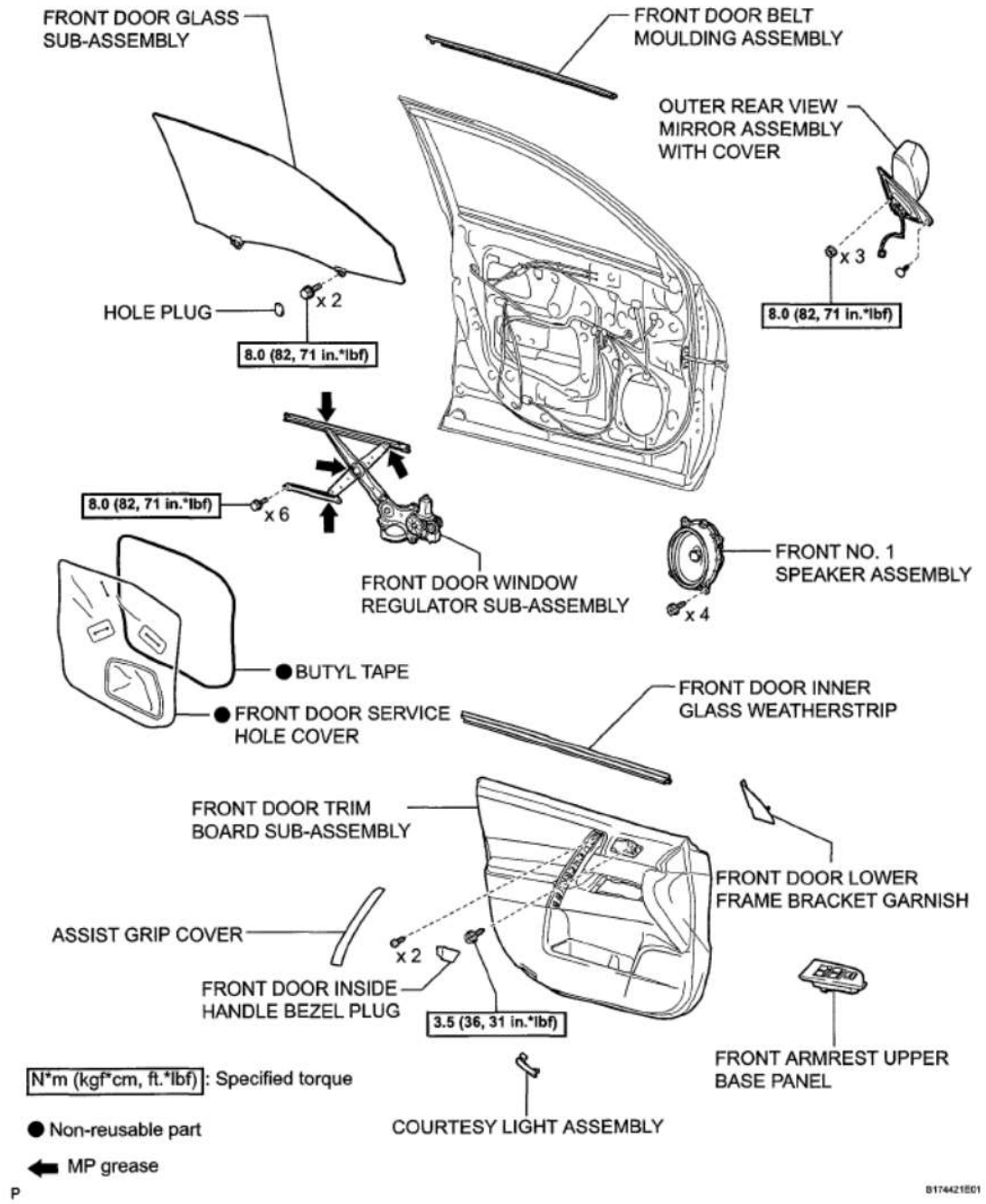


Fig. 126: Identifying Front Door Belt Moulding Components With Torque Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **DISCONNECT NEGATIVE BATTERY TERMINAL**

CAUTION: Wait for 90 seconds after disconnecting the terminal to prevent airbag deployment (See AIRBAG SYSTEM).

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NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

2. **REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH** (See **DISASSEMBLY**)
3. **REMOVE FRONT DOOR INSIDE HANDLE BEZEL PLUG** (See **DISASSEMBLY**)
4. **REMOVE FRONT ARMREST UPPER BASE PANEL** (See **DISASSEMBLY**)
5. **REMOVE ASSIST GRIP COVER** (See **DISASSEMBLY**)
6. **REMOVE COURTESY LIGHT ASSEMBLY** (See **DISASSEMBLY**)
7. **REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY** (See **DISASSEMBLY**)
8. **REMOVE FRONT DOOR INNER GLASS WEATHERSTRIP** (See **DISASSEMBLY**)
9. **REMOVE FRONT NO. 1 SPEAKER ASSEMBLY** (See **INSTALLATION**)
10. **REMOVE OUTER REAR VIEW MIRROR ASSEMBLY WITH COVER** (See **REMOVAL**)
11. **REMOVE FRONT DOOR SERVICE HOLE COVER** (See **DISASSEMBLY**)
12. **REMOVE FRONT DOOR GLASS SUB-ASSEMBLY** (See **DISASSEMBLY**)
13. **REMOVE FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **DISASSEMBLY**)
14. **REMOVE FRONT DOOR BELT MOULDING ASSEMBLY**

a. Put protective tape around the front door belt moulding assembly.

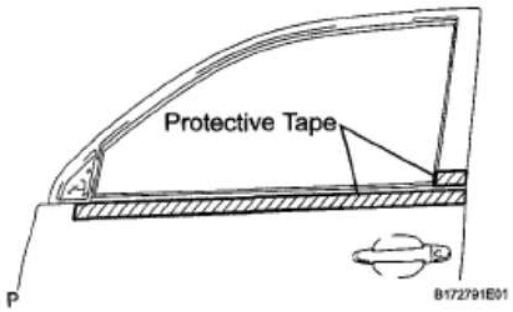


Fig. 127: Putting Protective Tape Around Front Door Belt Moulding Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Disengage the 6 claws and remove the front door belt moulding assembly.

NOTE: Be careful when removing the moulding as there are claws attached to the front and rear ends of the moulding.

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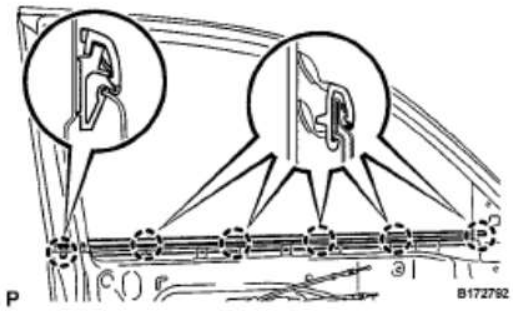


Fig. 128: Identifying Claws On Front Door Belt Moulding Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL FRONT DOOR BELT MOULDING ASSEMBLY**
   a. Engage the 6 claws and install the front door belt moulding assembly.
2. **INSTALL FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **REASSEMBLY**)
3. **INSTALL FRONT DOOR GLASS SUB-ASSEMBLY** (See **REASSEMBLY**)

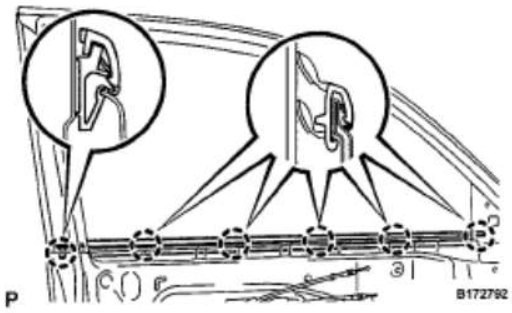


Fig. 129: Identifying Claws On Front Door Belt Moulding Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL FRONT DOOR SERVICE HOLE COVER** (See **REASSEMBLY**)
5. **INSTALL OUTER REAR VIEW MIRROR ASSEMBLY WITH COVER** (See **INSTALLATION**)
6. **INSTALL FRONT NO. 1 SPEAKER ASSEMBLY** (See **INSTALLATION**)
7. **INSTALL FRONT DOOR INNER GLASS WEATHERSTRIP** (See **REASSEMBLY**)
8. **INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY** (See **REASSEMBLY**)
9. **INSTALL COURTESY LIGHT ASSEMBLY** (See **REASSEMBLY**)
10. **INSTALL ASSIST GRIP COVER** (See **REASSEMBLY**)
11. **INSTALL FRONT ARMREST UPPER BASE PANEL** (See **REASSEMBLY**)
12. **INSTALL FRONT DOOR INSIDE HANDLE BEZEL PLUG** (See **REASSEMBLY**)
13. **INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH** (See **REASSEMBLY**)
14. **CONNECT NEGATIVE BATTERY TERMINAL**

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NOTE: **When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).**

15. **INITIALIZE POWER WINDOW CONTROL SYSTEM (for Driver Side)**

(See **CUSTOMIZE PARAMETERS**)

REAR DOOR BELT MOULDING

COMPONENTS

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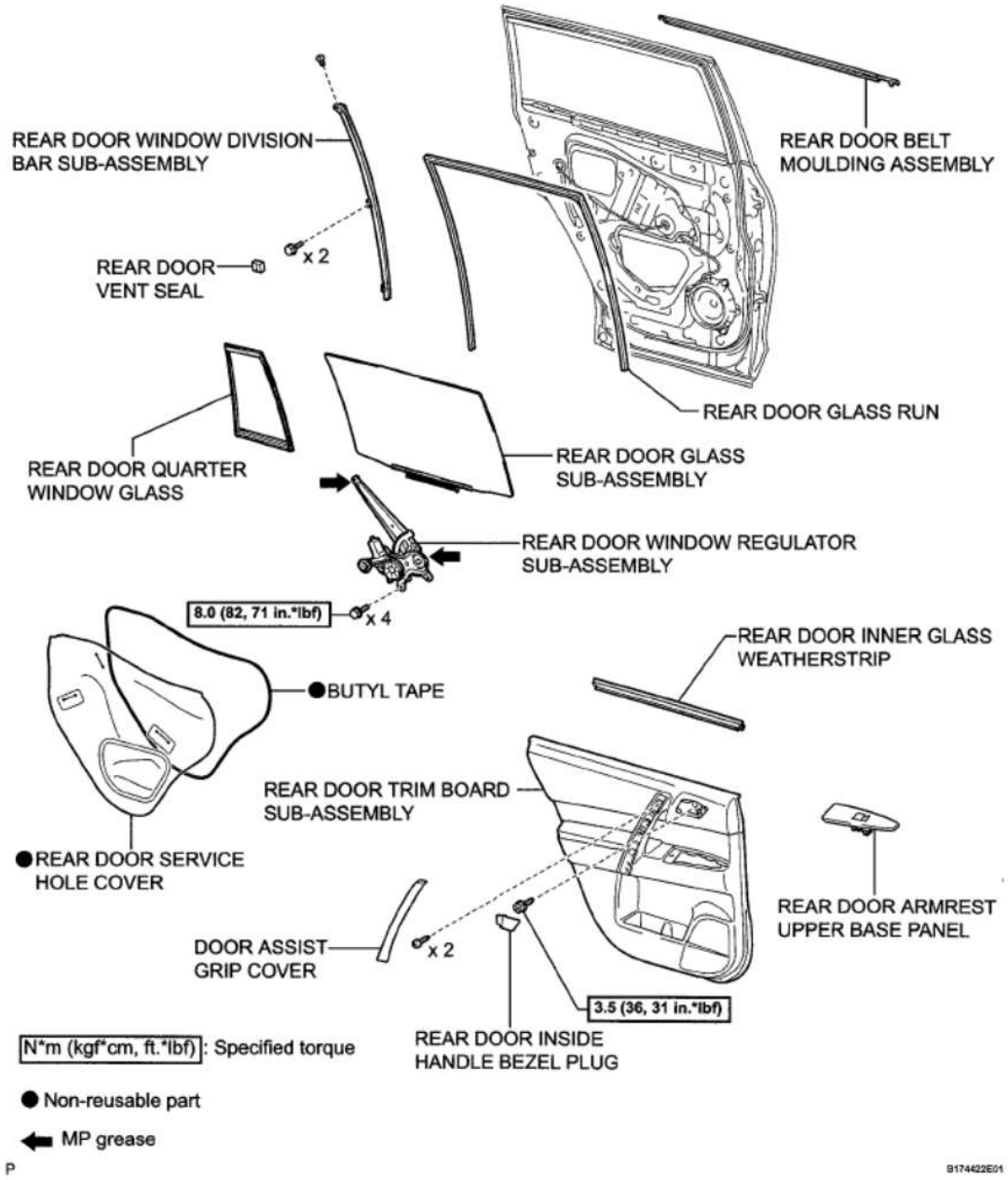


Fig. 130: Identifying Rear Door Belt Moulding Components With Torque Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **DISCONNECT NEGATIVE BATTERY TERMINAL**

CAUTION: Wait for 90 seconds after disconnecting the terminal to prevent airbag deployment (See AIRBAG SYSTEM).

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NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

2. **REMOVE REAR DOOR INSIDE HANDLE BEZEL PLUG** (See **DISASSEMBLY**)
3. **REMOVE REAR DOOR ARMREST UPPER BASE PANEL** (See **DISASSEMBLY**)
4. **REMOVE DOOR ASSIST GRIP COVER** (See **DISASSEMBLY**)
5. **REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY** (See **DISASSEMBLY**)
6. **REMOVE REAR DOOR INNER GLASS WEATHERSTRIP** (See **DISASSEMBLY**)
7. **REMOVE REAR DOOR SERVICE HOLE COVER** (See **DISASSEMBLY**)
8. **REMOVE REAR DOOR GLASS RUN** (See **DISASSEMBLY**)
9. **REMOVE REAR DOOR WINDOW DIVISION BAR SUB-ASSEMBLY** (See **DISASSEMBLY**)
10. **REMOVE REAR DOOR QUARTER WINDOW GLASS** (See **DISASSEMBLY**)
11. **REMOVE REAR DOOR GLASS SUB-ASSEMBLY** (See **DISASSEMBLY**)
12. **REMOVE REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **DISASSEMBLY**)
13. **REMOVE REAR DOOR BELT MOULDING ASSEMBLY**
    a. Put protective tape around the rear door belt moulding assembly.

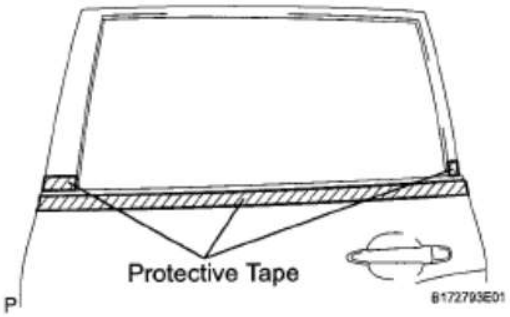


Fig. 131: Putting Protective Tape Around Rear Door Belt Moulding Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

    b. Disengage the 6 claws and remove the rear door belt moulding assembly.

NOTE: Be careful when removing the moulding as there are claws attached to the front end of the moulding.

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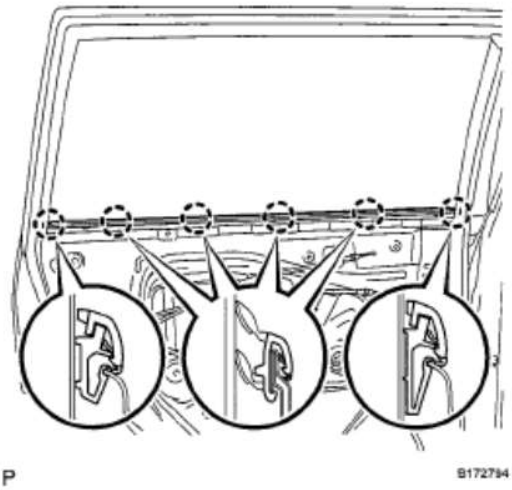


Fig. 132: Identifying Claws On Rear Door Belt Moulding Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL REAR DOOR BELT MOULDING ASSEMBLY**
   a. Engage the 6 claws and install the rear door belt moulding assembly.
2. **INSTALL REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **REASSEMBLY**)
3. **INSTALL REAR DOOR GLASS RUN** (See **REASSEMBLY**)
4. **INSTALL REAR DOOR GLASS SUB-ASSEMBLY** (See **REASSEMBLY**)
5. **INSTALL REAR DOOR QUARTER WINDOW GLASS** (See **REASSEMBLY**)
6. **INSTALL REAR DOOR WINDOW DIVISION BAR SUB-ASSEMBLY** (See **REASSEMBLY**)

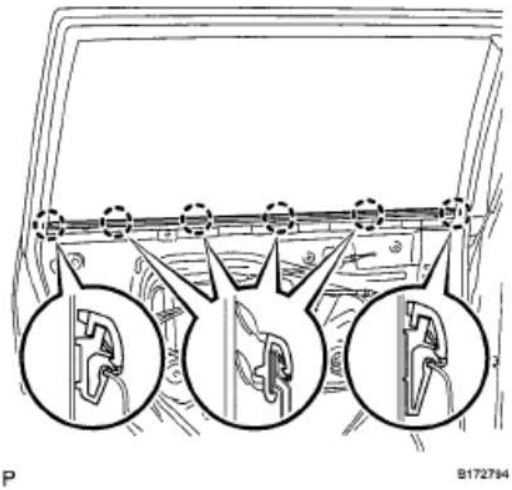


Fig. 133: Identifying Claws On Rear Door Belt Moulding Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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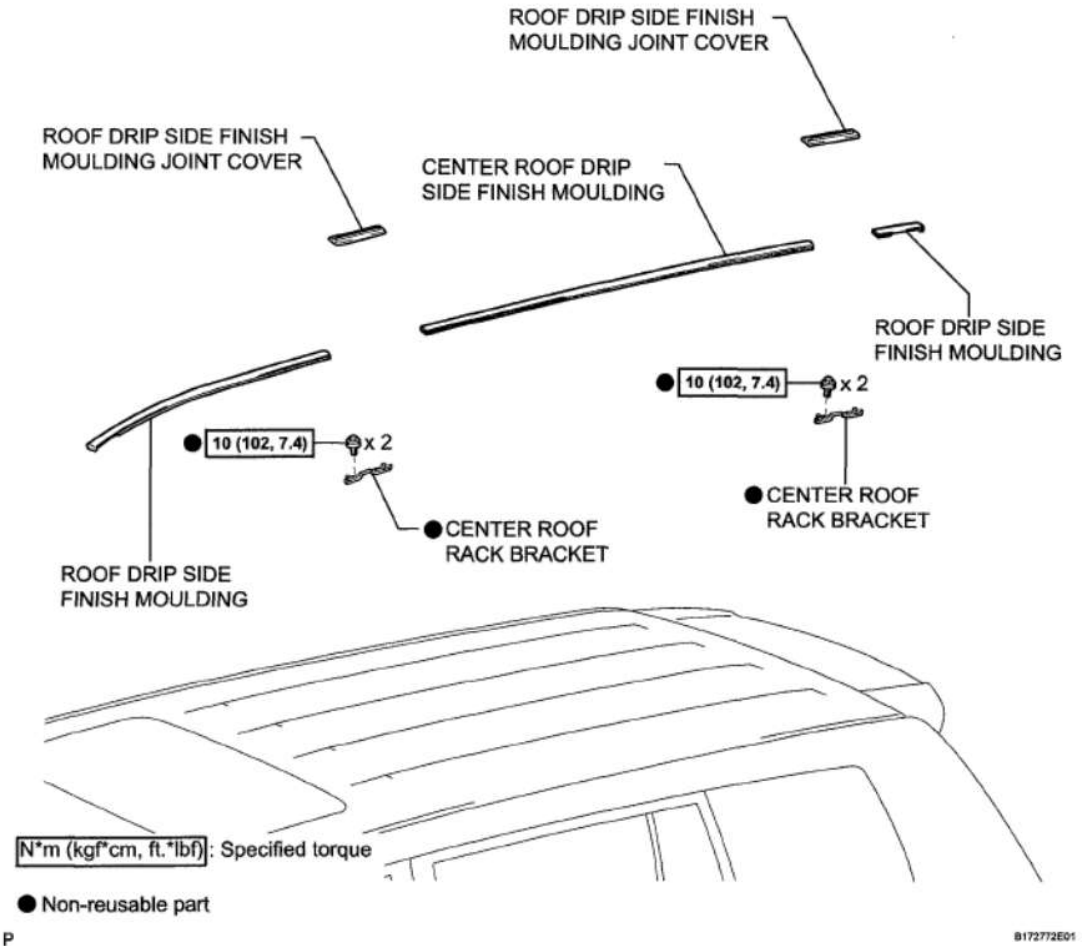
7. **INSTALL REAR DOOR SERVICE HOLE COVER** (See **REASSEMBLY**)
8. **INSTALL REAR DOOR INNER GLASS WEATHERSTRIP** (See **REASSEMBLY**)
9. **INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY** (See **REASSEMBLY**)
10. **INSTALL DOOR ASSIST GRIP COVER** (See **REASSEMBLY**)
11. **INSTALL REAR DOOR ARMREST UPPER BASE PANEL** (See **REASSEMBLY**)
12. **INSTALL REAR DOOR INSIDE HANDLE BEZEL PLUG** (See **REASSEMBLY**)
13. **CONNECT NEGATIVE BATTERY TERMINAL**

NOTE: **When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).**

ROOF DRIP SIDE FINISH MOULDING

COMPONENTS

w/o Roof Rack:



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Fig. 134: Identifying Roof Drip Side Finish Moulding Components With Torque Specification (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

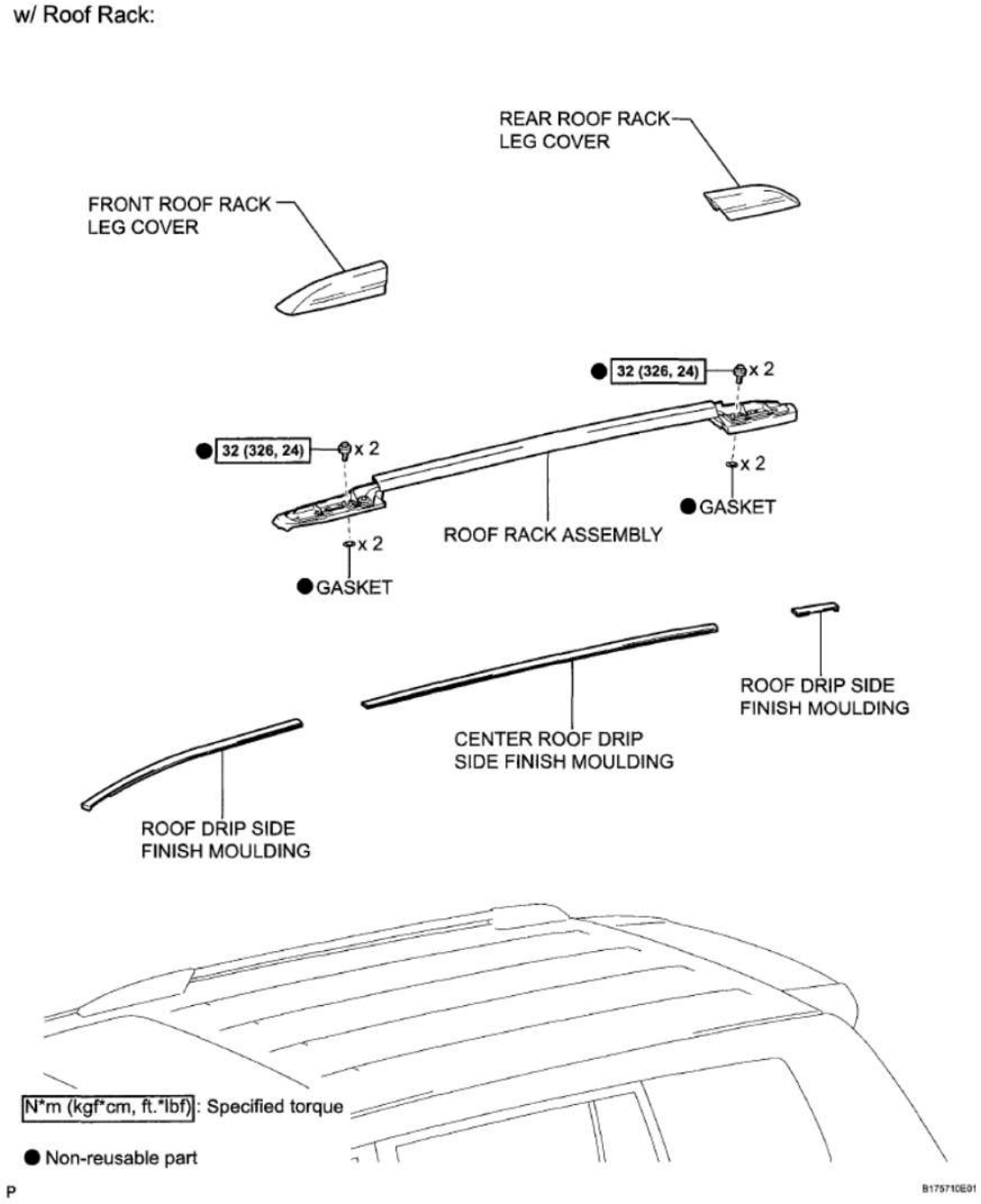


Fig. 135: Identifying Roof Drip Side Finish Moulding Components With Torque Specification (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE ROOF DRIP SIDE FINISH MOULDING JOINT COVER (w/o Roof Rack)**

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a. Disengage the clip and claw, and remove the roof drip side finish moulding joint cover as shown in the illustration.

HINT:

Use the same procedure for the rear side and front side.

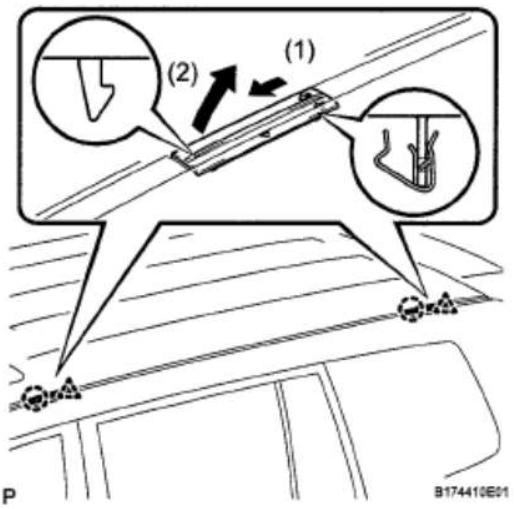


Fig. 136: Removing Roof Drip Side Finish Moulding Joint Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **REMOVE FRONT ROOF RACK LEG COVER (w/ Roof Rack)** (See **REMOVAL**)
3. **REMOVE REAR ROOF RACK LEG COVER (w/ Roof Rack)** (See **REMOVAL**)
4. **REMOVE ROOF RACK ASSEMBLY (w/ Roof Rack)** (See **REMOVAL**)
5. **REMOVE CENTER ROOF DRIP SIDE FINISH MOULDING**
   a. Place a matchmark on the vehicle body on the location indicated in the illustration.
   b. Remove the center roof drip side finish moulding.

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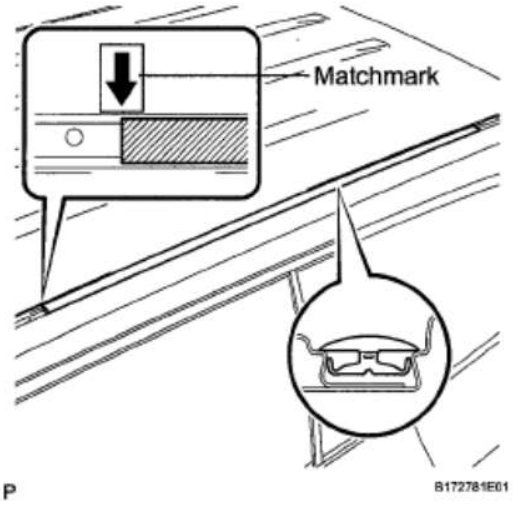


Fig. 137: Identifying Matchmark On Vehicle Body
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **REMOVE ROOF DRIP SIDE FINISH MOULDING (for Front Side)**
   a. Disengage the clip and remove the roof drip side finish moulding.

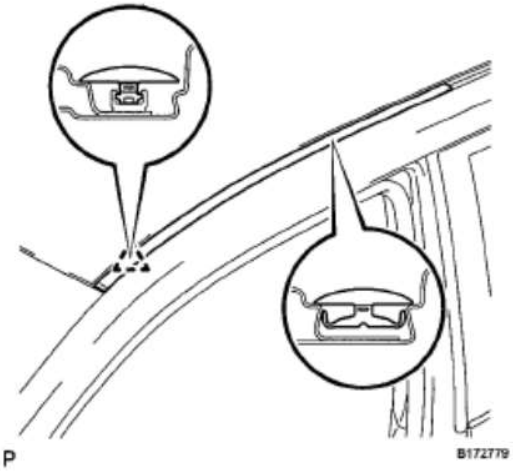


Fig. 138: Identifying Roof Drip Side Finish Moulding Clip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **REMOVE ROOF DRIP SIDE FINISH MOULDING (for Rear Side)**
   a. Disengage the clip and remove the roof drip side finish moulding.

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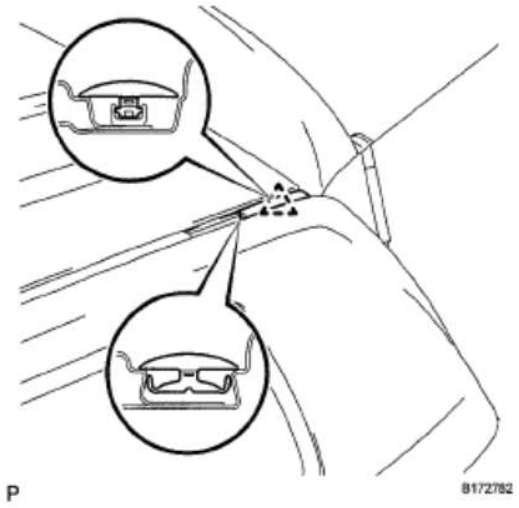


Fig. 139: Identifying Roof Drip Side Finish Moulding Clip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **REMOVE CENTER ROOF RACK BRACKET (w/o Roof Rack)**
   a. Remove the 2 bolts and center roof rack bracket.

   HINT:

   Use the same procedure for the rear side and front side.

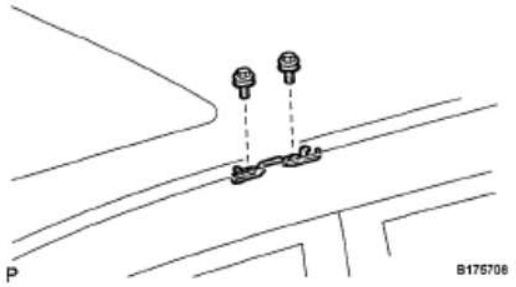


Fig. 140: Identifying Center Roof Rack Bracket Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL CENTER ROOF RACK BRACKET (w/o Roof Rack)**
   a. Install a new center roof rack bracket with 2 new bolts as shown in the illustration.

   Torque: 10 N*m (102 kgf*cm, 7.4 ft.*lbf)

   HINT:

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Use the same procedure for the rear side and front side.

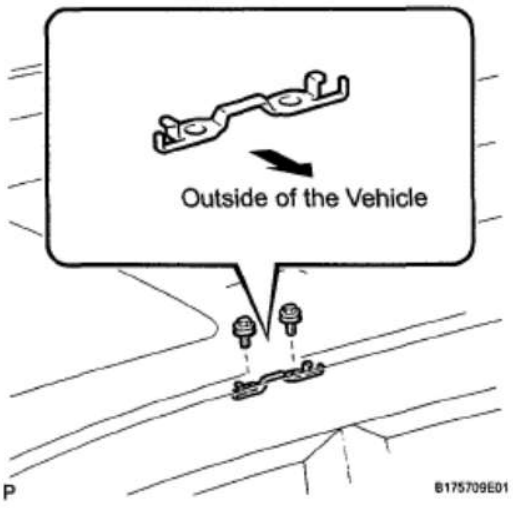


Fig. 141: Installing Center Roof Rack Bracket With Bolts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL ROOF DRIP SIDE FINISH MOULDING (for Front Side)**
   a. Engage the clip and install the roof drip side finish moulding as shown in the illustration.

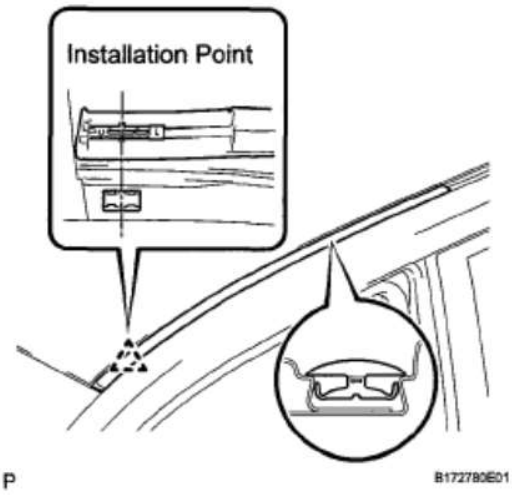


Fig. 142: Identifying Installation Point Of Roof Drip Side Finish Moulding
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL ROOF DRIP SIDE FINISH MOULDING (for Rear Side)**
   a. Engage the clip and install the roof drip side finish moulding as shown in the illustration.

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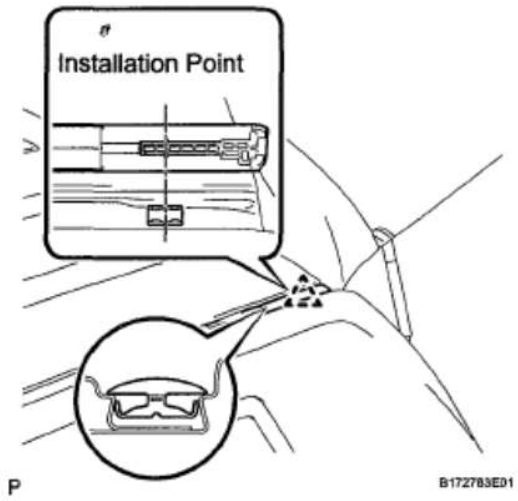


Fig. 143: Identifying Installation Point Of Roof Drip Side Finish Moulding
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL CENTER ROOF DRIP SIDE FINISH MOULDING**
   a. Position the center roof drip side finish moulding by aligning it with the matchmark on the vehicle body as shown in the illustration.
   b. Install the center roof drip side finish moulding.

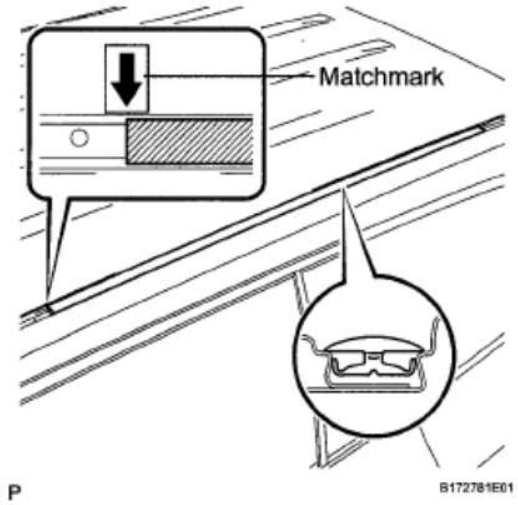


Fig. 144: Positioning Center Roof Drip Side Finish Moulding
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL ROOF DRIP SIDE FINISH MOULDING JOINT COVER (w/o Roof Rack)**
   a. Engage the claw and clip, and install the roof drip side finish moulding joint cover as shown in the illustration.

   HINT:

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Use the same procedure for the rear side and front side.

6. **INSTALL ROOF RACK ASSEMBLY (w/ Roof Rack)** (See **INSTALLATION**)
7. **INSTALL FRONT ROOF RACK LEG COVER (w/ Roof Rack)** (See **INSTALLATION**)
8. **INSTALL REAR ROOF RACK LEG COVER (w/ Roof Rack)** (See **INSTALLATION**)

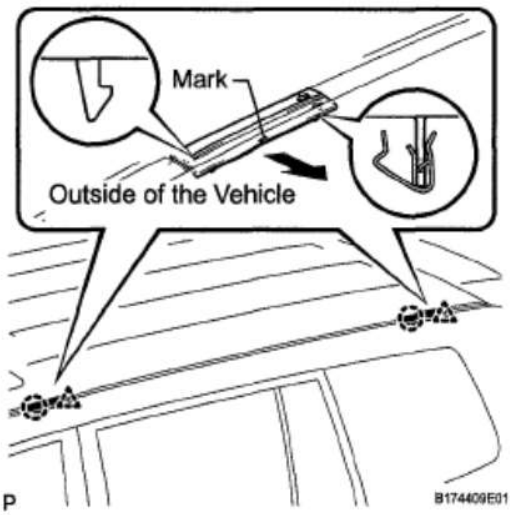


Fig. 145: Installing Roof Drip Side Finish Moulding Joint Cover
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

SIDE MUDGUARD

COMPONENTS

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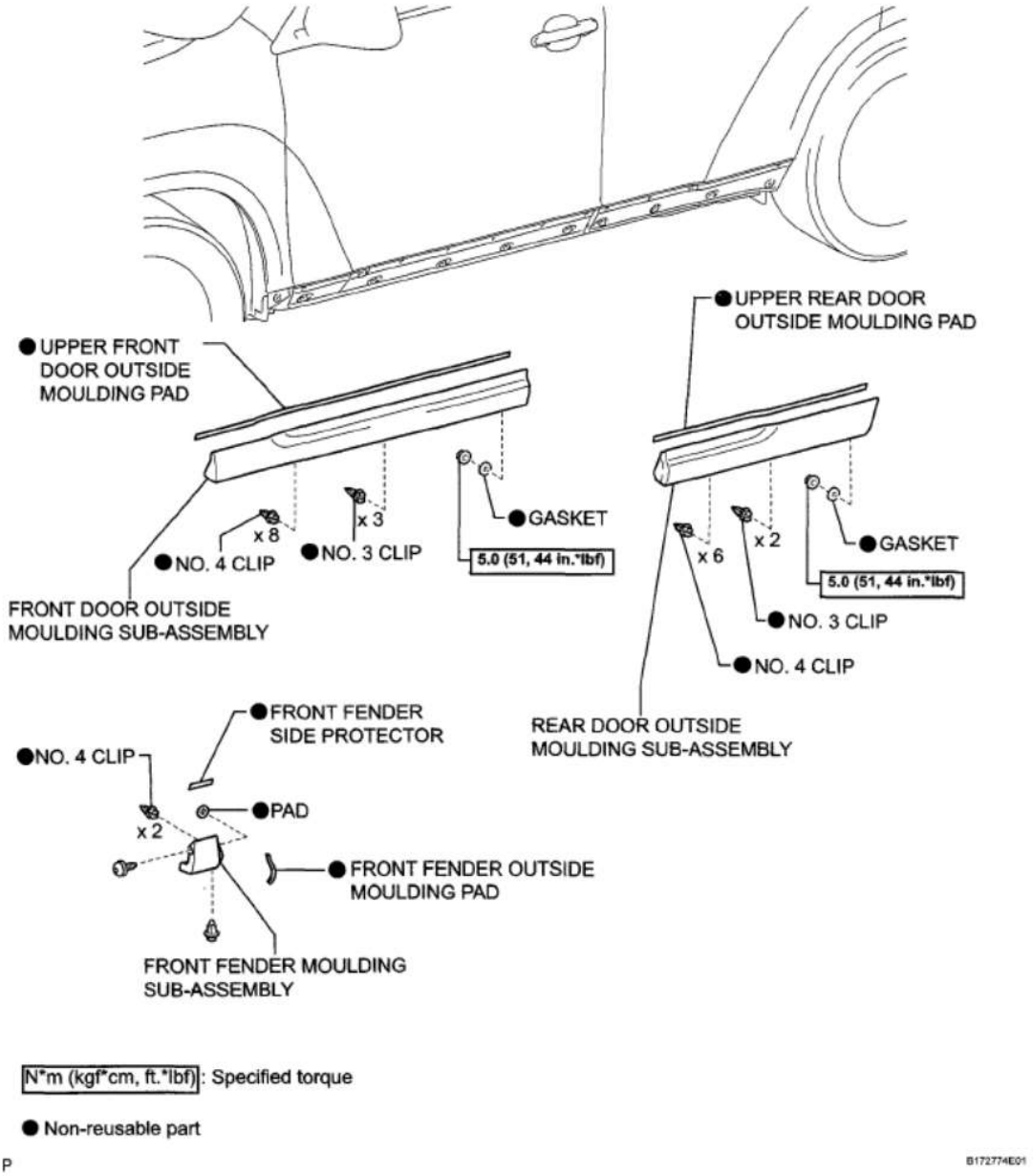


Fig. 146: Identifying Side Mudguard Components With Torque Specification
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

HINT:

When removing the side mudguard, heat the vehicle body and side mudguard using a heat light.

Heating temperature

TEMPERATURE SPECIFICATION

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Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)
Side Mudguard	20 to 30°C (68 to 86°F)

NOTE: Do not heat the vehicle body or side mudguard excessively.

1. **REMOVE FRONT FENDER MOULDING SUB-ASSEMBLY**
   a. Remove the clip.
   b. Using a 4 mm hexagon wrench, remove the screw.

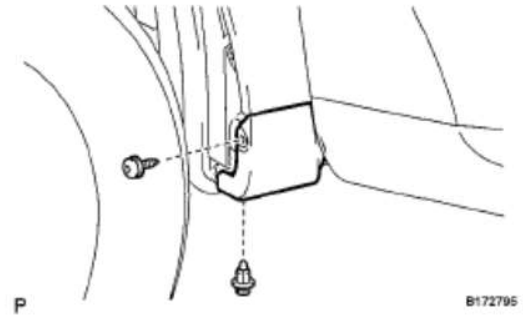


Fig. 147: Identifying Front Fender Moulding Sub-Assembly With Clip And Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Peel off the front fender side protector and disengage the 3 clips, and then remove the front fender moulding sub-assembly.
   d. Remove the pad from the front fender moulding sub-assembly.
   e. Remove the 2 No. 4 clips from the front fender moulding sub-assembly.

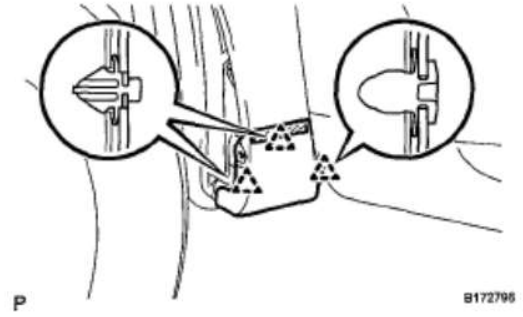


Fig. 148: Identifying Front Fender Moulding Sub-Assembly With Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   f. Remove the front fender side protector from the front fender moulding sub-assembly.

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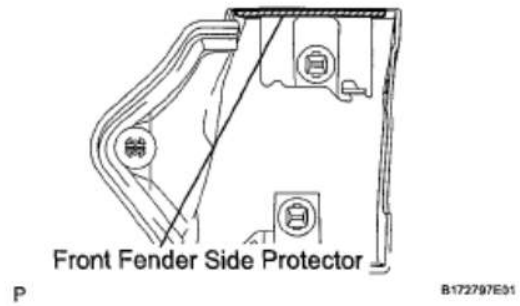


Fig. 149: Identifying Front Fender Side Protector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **REMOVE FRONT FENDER OUTSIDE MOULDING PAD**
   a. Remove the front fender outside moulding pad from the front fender moulding sub-assembly.

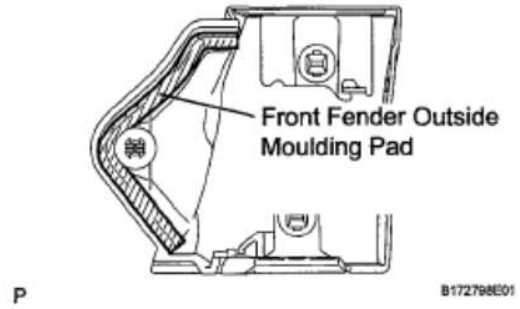


Fig. 150: Identifying Front Fender Outside Moulding Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **REMOVE FRONT DOOR OUTSIDE MOULDING SUB-ASSEMBLY**
   a. Turn back the front door weatherstrip.
   b. Remove the nut.

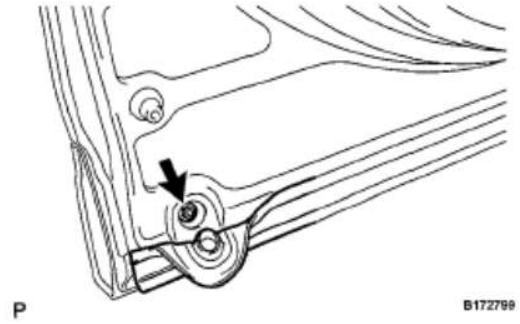


Fig. 151: Locating Front Door Weatherstrip Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Peel off the upper front door outside moulding pad and disengage the 11 clips, and then remove the

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front door outside moulding sub-assembly.

d. Remove the gasket from the front door outside moulding sub-assembly.
e. Remove the 3 No. 3 clips from the front door outside moulding sub-assembly.
f. Remove the 8 No. 4 clips from the front door outside moulding sub-assembly.

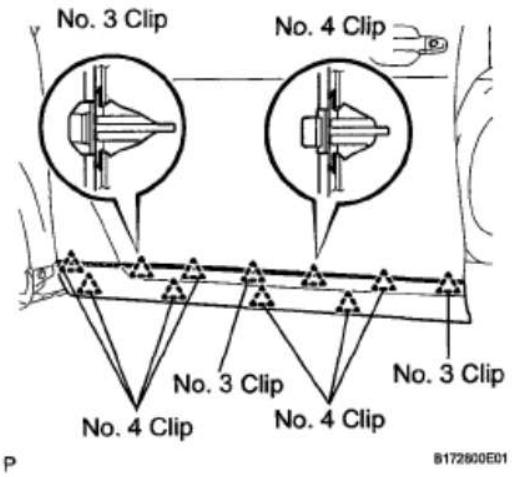


Fig. 152: Identifying Front Door Outside Moulding Sub-Assembly With Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

g. Remove the upper front door outside moulding pad from the front door outside moulding sub-assembly.

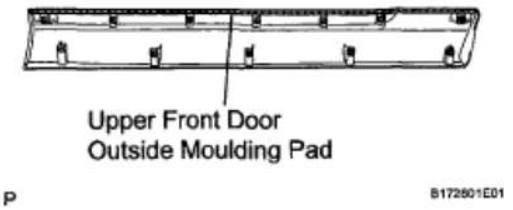


Fig. 153: Identifying Upper Front Door Outside Moulding Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **REMOVE REAR DOOR OUTSIDE MOULDING SUB-ASSEMBLY**
   a. Turn back the rear door No. 2 weatherstrip.
   b. Remove the nut.

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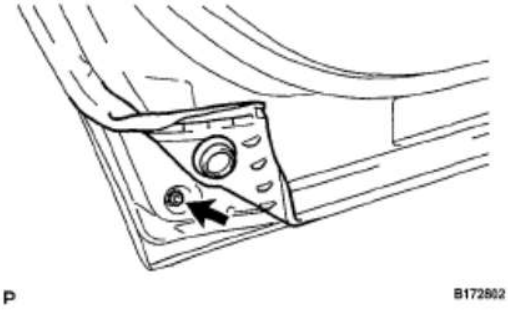


Fig. 154: Locating Rear Door No. 2 Weatherstrip Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Peel off the upper rear door outside moulding pad and disengage the 8 clips, and then remove the rear door outside moulding sub-assembly.
d. Remove the gasket from the rear door outside moulding sub-assembly.
e. Remove the 2 No. 3 clips from the rear door outside moulding sub-assembly.
f. Remove the 6 No. 4 clips from the rear door outside moulding sub-assembly.

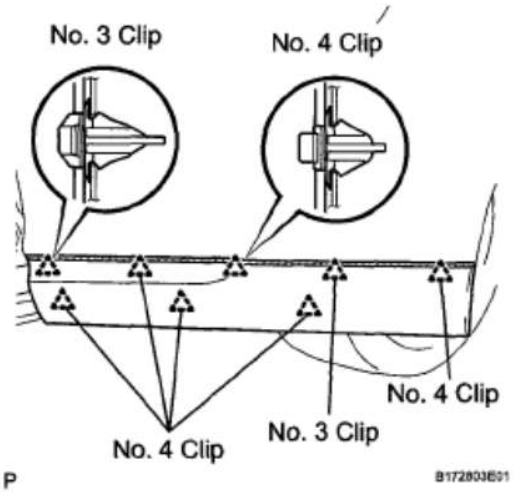


Fig. 155: Identifying Rear Door Outside Moulding Sub-Assembly With Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

g. Remove the upper rear door outside moulding pad from the rear door outside moulding sub-assembly.

INSTALLATION

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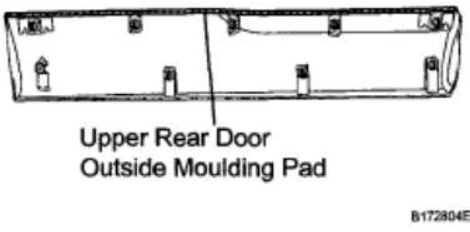


Fig. 156: Identifying Upper Rear Door Outside Moulding Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

When installing the side mudguard, heat the vehicle body and side mudguard using a heat light.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)
Side Mudguard	20 to 30°C (68 to 86°F)

NOTE: Do not heat the vehicle body or side mudguard excessively.

1. **INSTALL REAR DOOR OUTSIDE MOULDING SUB-ASSEMBLY**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.
      2. Remove the upper rear door outside moulding pad from the vehicle body.
      3. Wipe off any tape adhesive residue with cleaner.
   b. Clean the rear door outside moulding sub-assembly. (If reusing the rear door outside moulding sub-assembly)
      1. Using a heat light, heat the rear door outside moulding sub-assembly.
      2. Remove the upper rear door outside moulding pad from the rear door outside moulding sub-assembly.
      3. Wipe off any tape adhesive residue with cleaner.
      4. Install a new upper rear door outside moulding pad to the rear door outside moulding sub-assembly.

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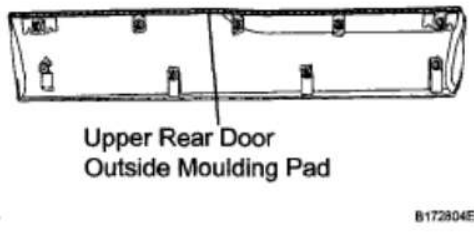


Fig. 157: Identifying Upper Rear Door Outside Moulding Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Install 2 new No. 3 clips on the rear door outside moulding sub-assembly.
d. Install 6 new No. 4 clips on the rear door outside moulding sub-assembly.
e. Install a new gasket on the rear door outside moulding sub-assembly.
f. Install the rear door outside moulding sub-assembly.
   1. Using a heat light, heat the vehicle body and rear door outside moulding sub-assembly.
   2. Remove the release paper from the rear door outside moulding sub-assembly.

      HINT:

      After removing the release paper, keep the exposed adhesive free from foreign matter.

   3. Engage the 8 clips and install the rear door outside moulding sub-assembly.

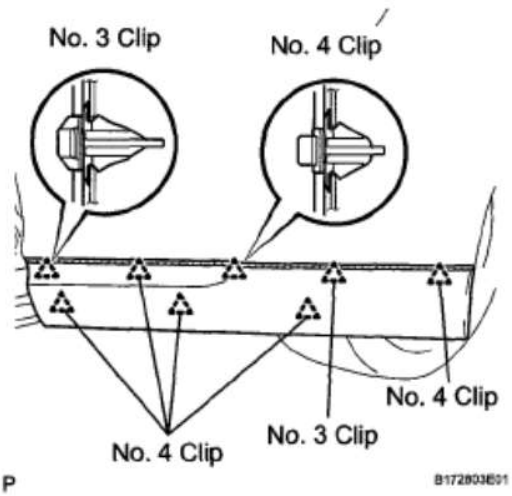


Fig. 158: Identifying Rear Door Outside Moulding Sub-Assembly With Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

g. Install the nut.

   Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

h. Install the rear door No. 2 weatherstrip.

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2. **INSTALL FRONT DOOR OUTSIDE MOULDING SUB-ASSEMBLY**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.
      2. Remove the upper front door outside moulding pad from the vehicle body.
      3. Wipe off any tape adhesive residue with cleaner.

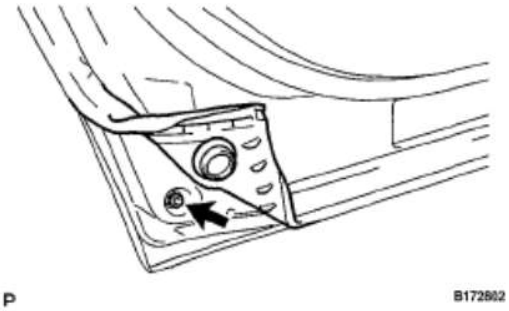


Fig. 159: Locating Rear Door No. 2 Weatherstrip Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Clean the front door outside moulding sub-assembly. (If reusing the front door outside moulding sub-assembly)

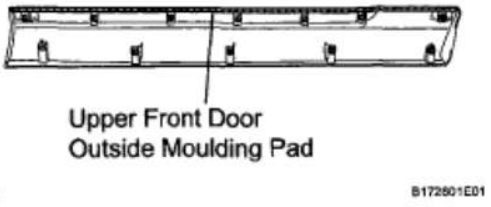


Fig. 160: Identifying Upper Front Door Outside Moulding Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

      1. Using a heat light, heat the front door outside moulding sub-assembly.
      2. Remove the upper front door outside moulding pad from the front door outside moulding sub-assembly.
      3. Wipe off any tape adhesive residue with cleaner.
      4. Install a new upper front door outside moulding pad to the front door outside moulding sub-assembly.
   c. Install 3 new No. 3 clips on the front door outside moulding sub-assembly.
   d. Install 8 new No. 4 clips on the front door outside moulding sub-assembly.
   e. Install a new gasket on the front door outside moulding sub-assembly.
   f. Install the front door outside moulding sub-assembly.
      1. Using a heat light, heat the vehicle body and front door outside moulding sub-assembly.
      2. Remove the release paper from the front door outside moulding sub-assembly.

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HINT:

After removing the release paper, keep the exposed adhesive free from foreign matter.

3. Engage the 11 clips and install the front door outside moulding sub-assembly.

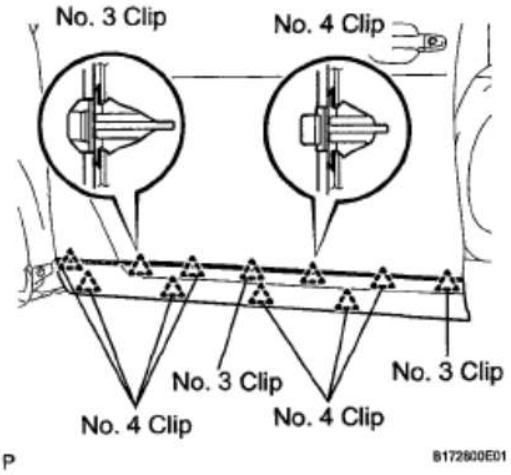


Fig. 161: Identifying Front Door Outside Moulding Sub-Assembly With Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

g. Install the nut.

Torque: 5.0 N*m (51 kgf*cm, 44 in.*lbf)

h. Install the front door weatherstrip.

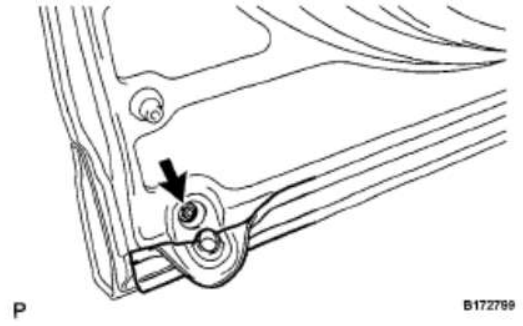


Fig. 162: Locating Front Door Weatherstrip Nut
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL FRONT FENDER OUTSIDE MOULDING PAD**
   a. Wipe off any tape adhesive residue with cleaner.
   b. Remove the release paper from the front fender outside moulding pad.
   c. Install a new front fender outside moulding pad to the front fender moulding sub-assembly.

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4. **INSTALL FRONT FENDER MOULDING SUB-ASSEMBLY**

a. Clean the vehicle body surface.

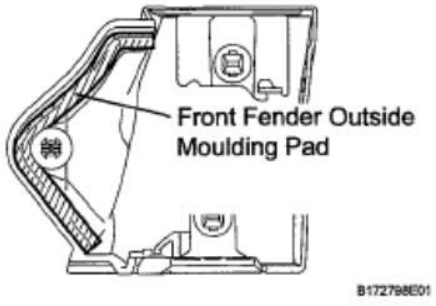


Fig. 163: Identifying Front Fender Outside Moulding Pad
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1. Using a heat light, heat the vehicle body surface.
2. Remove the front fender side protector from the vehicle body.
3. Wipe off any tape adhesive residue with cleaner.

b. Clean the front fender moulding sub-assembly. (If reusing the front fender moulding sub-assembly)

1. Using a heat light, heat the front fender moulding sub-assembly.
2. Remove the front fender side protector from the front fender moulding sub-assembly.
3. Wipe off any tape adhesive residue with cleaner.
4. Install a new front fender side protector to the the front fender moulding sub-assembly.

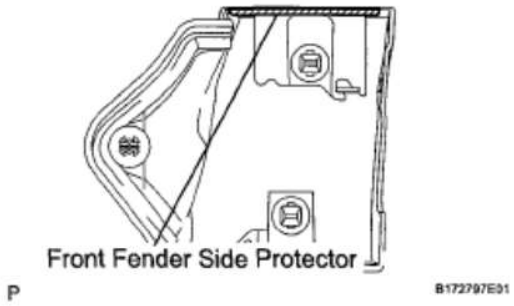


Fig. 164: Identifying Front Fender Side Protector
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Install 2 new No. 4 clips on the front fender moulding sub-assembly.
d. Install a new pad on the front fender moulding sub-assembly.
e. Install the front fender moulding sub-assembly.

1. Using a heat light, heat the vehicle body and the front fender moulding sub-assembly.
2. Remove the release paper from the front fender moulding sub-assembly.

HINT:

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After removing the release paper, keep the exposed adhesive free from foreign matter.

3. Engage the 3 clips and install the front fender moulding sub-assembly.

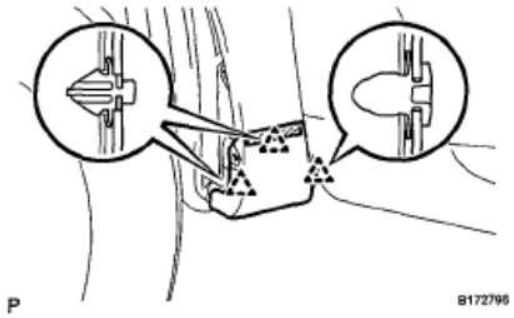


Fig. 165: Identifying Front Fender Moulding Sub-Assembly With Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

f. Using a 4 mm hexagon wrench, install the screw.
g. Install the clip.

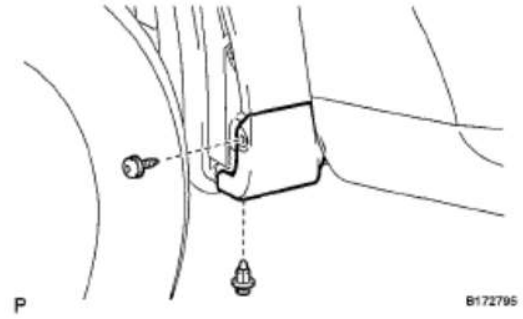


Fig. 166: Identifying Front Fender Moulding Sub-Assembly With Clip And Screw
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

FENDER LINER (FOR FRONT SIDE)

COMPONENTS

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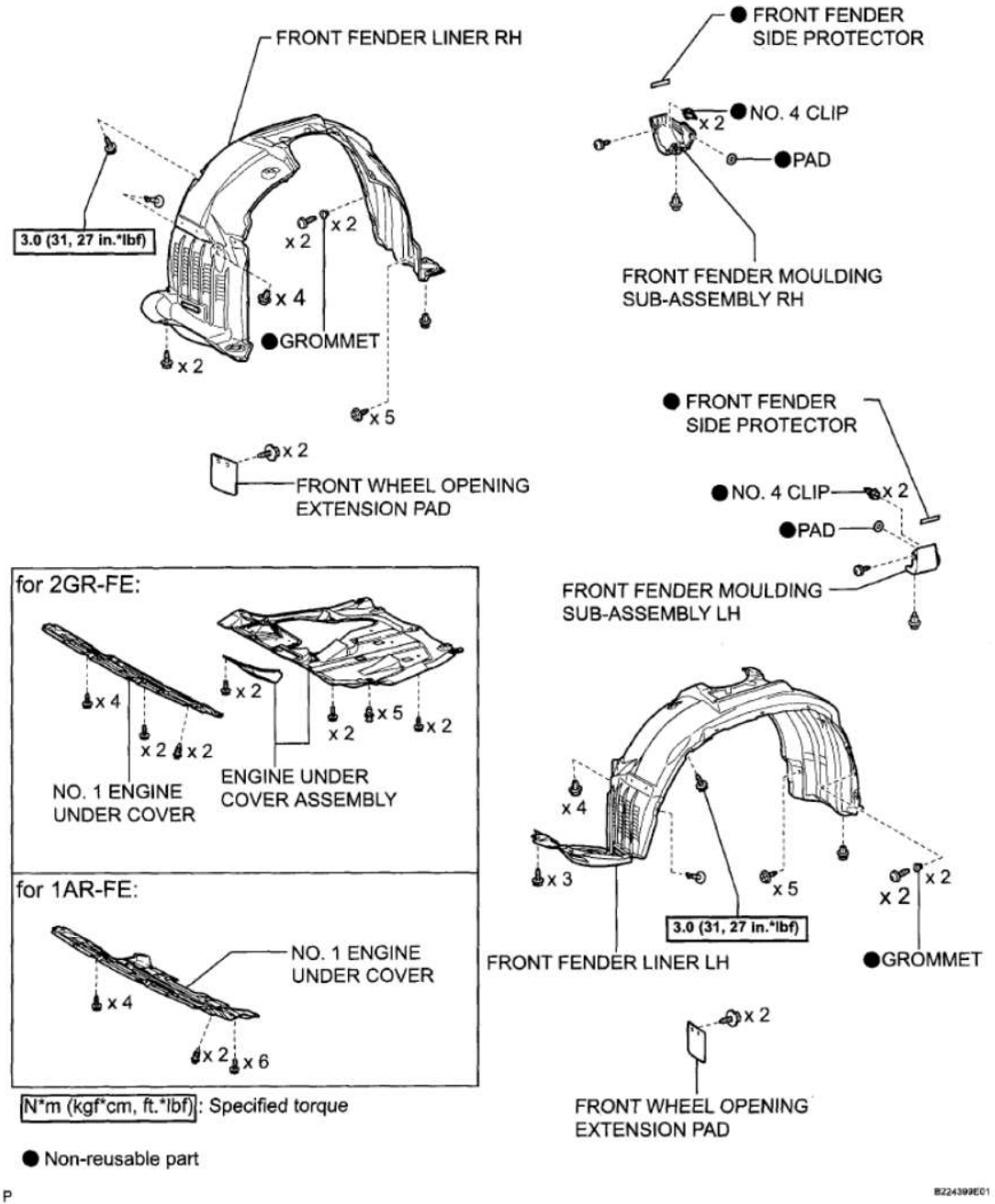


Fig. 167: Identifying Fender Liner Components With Torque Specification (For Front Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE ENGINE UNDER COVER ASSEMBLY (for 2GR-FE)** (See **REMOVAL**)
2. **REMOVE NO. 1 ENGINE UNDER COVER**
3. **REMOVE FRONT FENDER MOULDING SUB-ASSEMBLY LH** (See **REMOVAL**)
4. **REMOVE FRONT FENDER MOULDING SUB-ASSEMBLY RH**

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HINT:

Use the same procedures for the RH side and LH side.

5. **REMOVE FRONT WHEEL OPENING EXTENSION PAD (for LH Side)**
   a. Remove the 2 screws and front wheel opening extension pad.
6. **REMOVE FRONT WHEEL OPENING EXTENSION PAD (for RH Side)**

HINT:

Use the same procedure for the RH side and LH side.

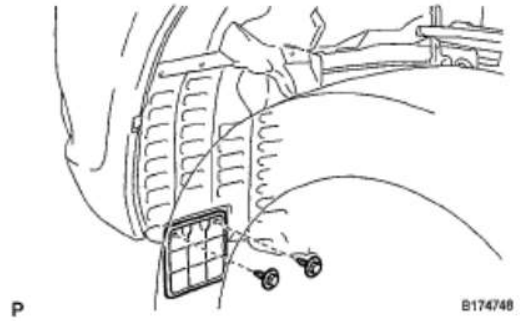


Fig. 168: Identifying Front Wheel Opening Extension Pad Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **REMOVE FRONT FENDER LINER LH**
   a. Remove the screw.
   b. Using a screwdriver, turn the pin 90 degrees and remove the pin hold clip.

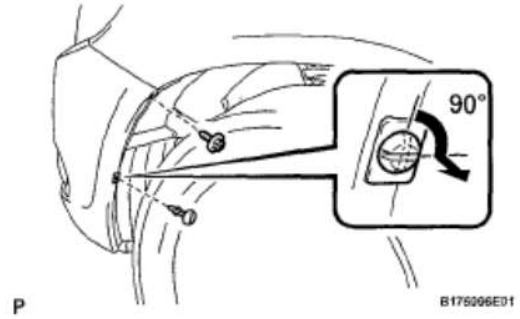


Fig. 169: Turning Pin At 90 Degrees
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Using a 4 mm hexagon wrench, remove the 2 screws.
   d. Remove the 2 grommets.

HINT:

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The grommets need to be replaced with new ones because they will break when they are removed.

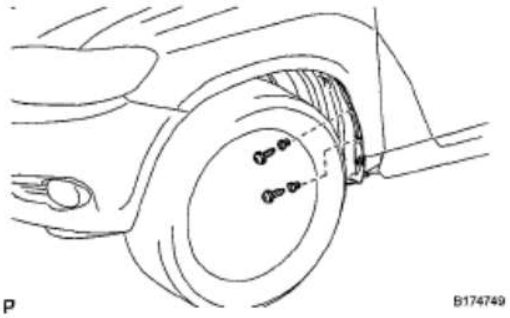


Fig. 170: Identifying Front Fender Liner With Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Remove the 5 clips, 8 screws and front fender liner LH.

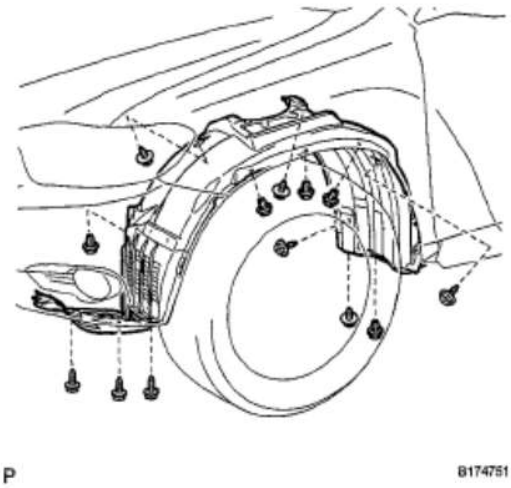


Fig. 171: Identifying Front Fender Liner LH With Clips And Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **REMOVE FRONT FENDER LINER RH**
   a. Remove the screw.
   b. Using a screwdriver, turn the pin 90 degrees and remove the pin hold clip.

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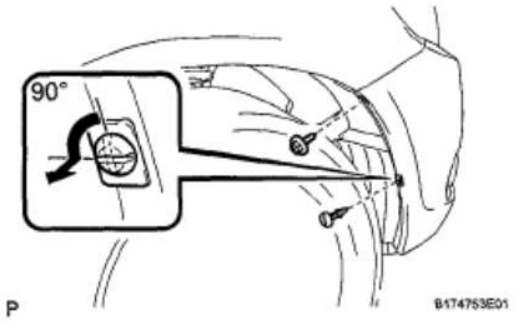


Fig. 172: Turning Pin At 90 Degrees
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

c. Using a 4 mm hexagon wrench, remove the 2 screws.
d. Remove the 2 grommets.

HINT:

The grommets need to be replaced with new ones because they will break when they are removed.

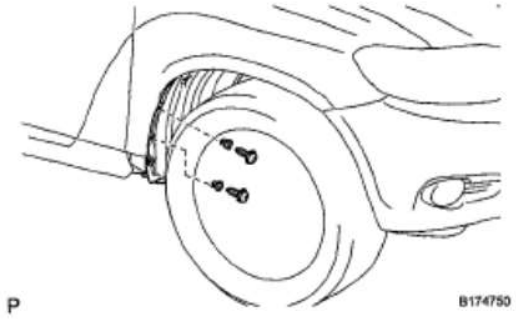


Fig. 173: Identifying Front Fender Liner RH With Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

e. Remove the 5 clips, 7 screws and front fender liner RH.

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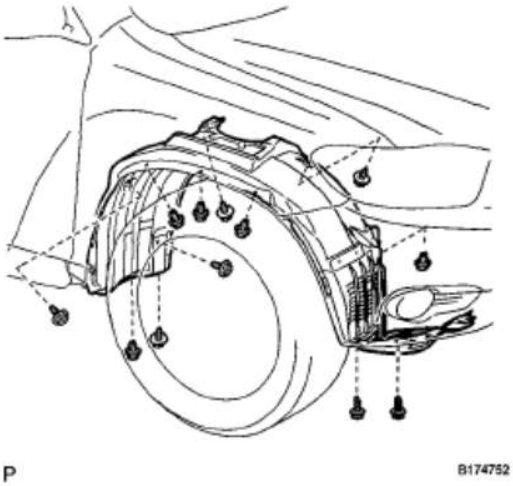


Fig. 174: Identifying Front Fender Liner RH With Clips And Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL FRONT FENDER LINER LH**
   a. Install the front fender liner LH with the 5 clips and 8 screws.

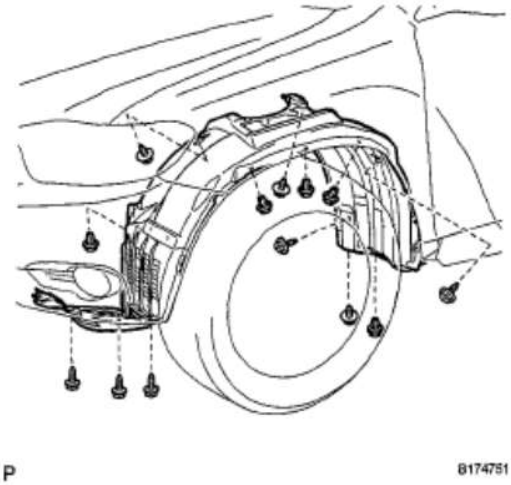


Fig. 175: Identifying Front Fender Liner LH With Clips And Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   b. Install 2 new grommets.
   c. Using a 4 mm hexagon wrench, install the 2 screws.

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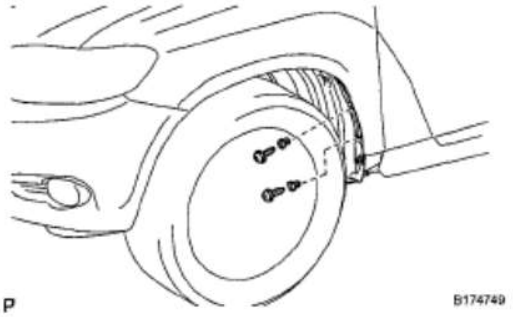


Fig. 176: Identifying Front Fender Liner With Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Install the screw and pin hold clip.

Torque: 3.0 N*m (31 kgf*cm, 27 in.*lbf)

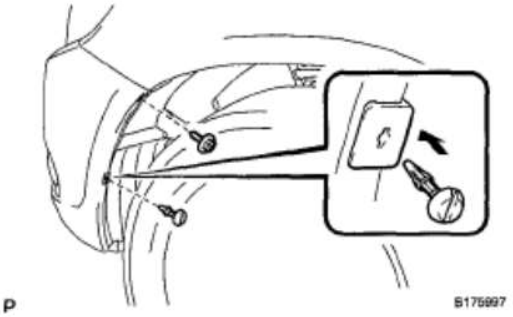
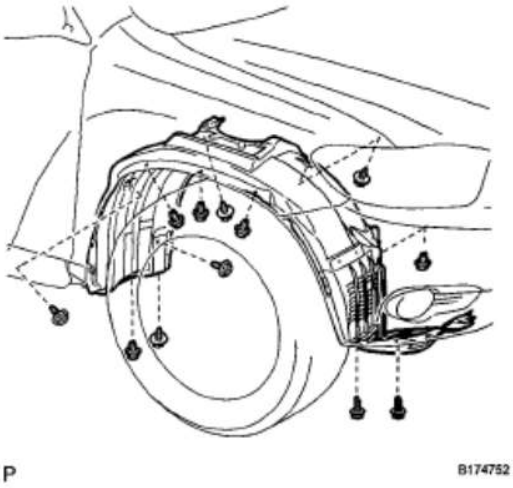


Fig. 177: Installing Screw And Pin Hold Clip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL FRONT FENDER LINER RH**
   a. Install the front fender liner RH with the 5 clips and 7 screws.



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Fig. 178: Identifying Front Fender Liner RH With Clips And Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

b. Install 2 new grommets.
c. Using a 4 mm hexagon wrench, install the 2 screws.

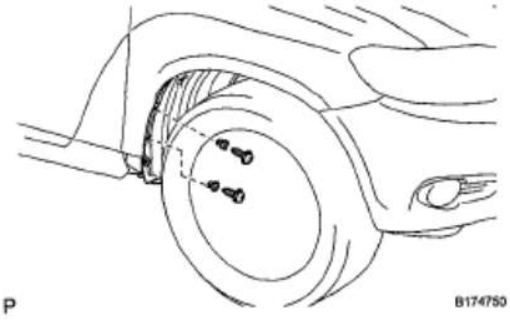


Fig. 179: Identifying Front Fender Liner RH With Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

d. Install the screw and pin hold clip.

Torque: 3.0 N*m (31 kgf*cm, 27 in.*lbf)

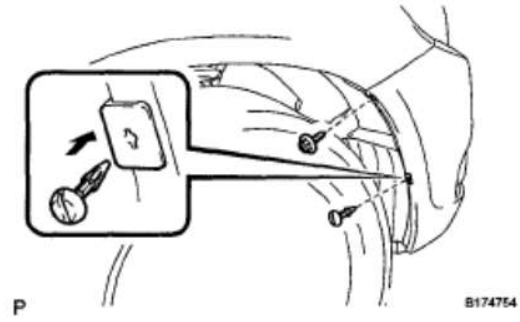


Fig. 180: Installing Screw And Pin Hold Clip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL FRONT WHEEL OPENING EXTENSION PAD (for LH Side)**
   a. Install the front wheel opening extension pad with the 2 screws.
4. **INSTALL FRONT WHEEL OPENING EXTENSION PAD (for RH Side)**

   HINT:

   Use the same procedure for the RH side and LH side.

5. **INSTALL FRONT FENDER MOULDING SUB-ASSEMBLY LH** (See **INSTALLATION**)

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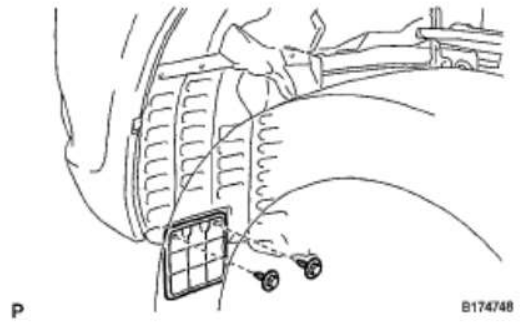


Fig. 181: Identifying Front Wheel Opening Extension Pad Screws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL FRONT FENDER MOULDING SUB-ASSEMBLY RH**

   HINT:

   Use the same procedures for the RH side and LH side.

7. **INSTALL NO. 1 ENGINE UNDER COVER**
8. **INSTALL ENGINE UNDER COVER ASSEMBLY (for 2GR-FE)** (See **INSTALLATION**)

FENDER LINER (FOR REAR SIDE)

COMPONENTS

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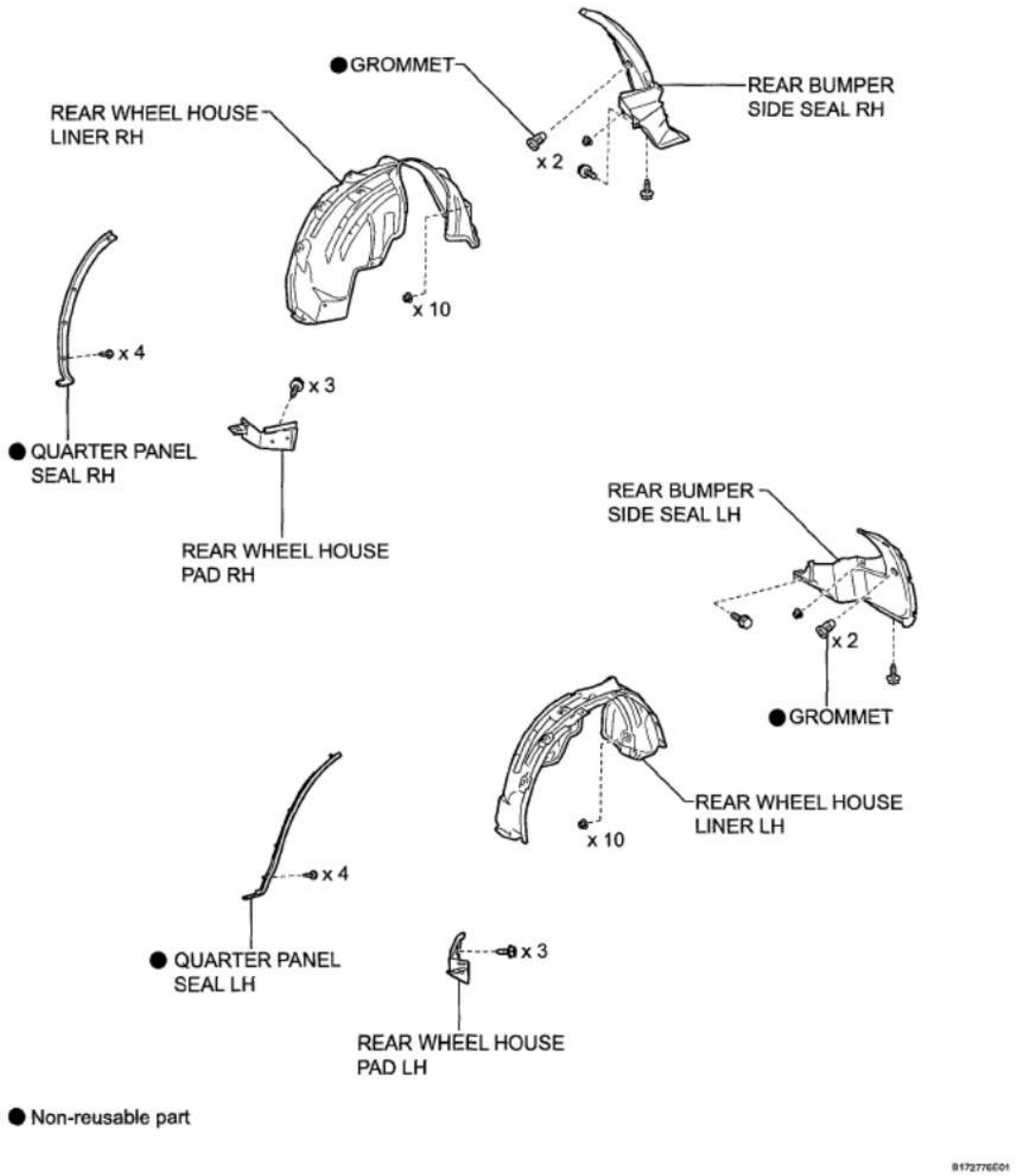


Fig. 182: Identifying Fender Liner Components With Torque Specification (For Rear Side)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE REAR WHEEL HOUSE PAD LH**
   a. Remove the 3 screws and rear wheel house pad LH.
2. **REMOVE REAR WHEEL HOUSE PAD RH**

HINT:

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Use the same procedure for the RH side and LH side.

3. **REMOVE QUARTER PANEL SEAL LH**

HINT:

When removing the quarter panel seal, heat the vehicle body and quarter panel seal using a heat light.

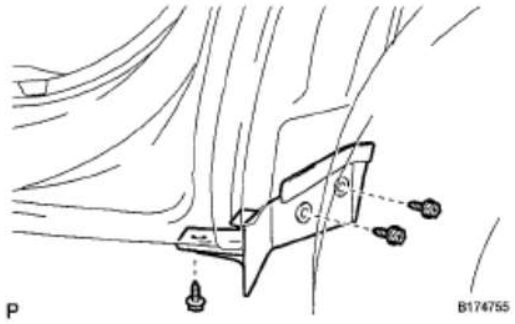


Fig. 183: Identifying Rear Wheel House Pad Screws LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)
Quarter Panel Seal	20 to 30°C (68 to 86°F)

NOTE: Do not heat the vehicle body or quarter panel seal excessively.

a. Remove the 4 screws.
b. Peel off the double-sided tape and remove the quarter panel seal LH.

4. **REMOVE QUARTER PANEL SEAL RH**

HINT:

Use the same procedures for the RH side and LH side.

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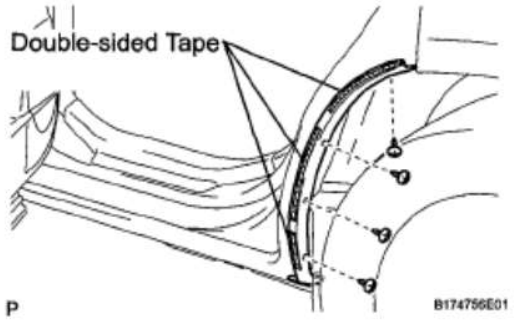


Fig. 184: Peeling Off Double-Sided Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **REMOVE REAR BUMPER SIDE SEAL LH**
   a. Remove the clip, screw and bolt.
   b. Remove the 2 grommets.

      HINT:

      The grommets need to be replaced with new ones because they will break when they are removed.

   c. Remove the rear bumper side seal LH.

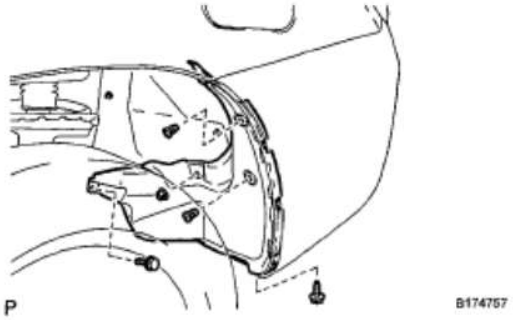


Fig. 185: Identifying Rear Bumper Side Seal LH With Clip, Screw And Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **REMOVE REAR BUMPER SIDE SEAL RH**

   HINT:

   Use the same procedures for the RH side and LH side.

7. **REMOVE REAR WHEEL HOUSE LINER LH**
   a. Remove the 10 clips and rear wheel house liner LH.

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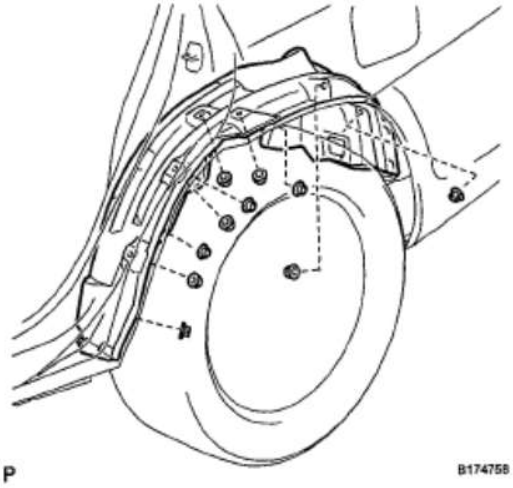


Fig. 186: Identifying Rear Wheel House Liner LH Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **REMOVE REAR WHEEL HOUSE LINER RH**
   a. Remove the 10 clips and rear wheel house liner RH.

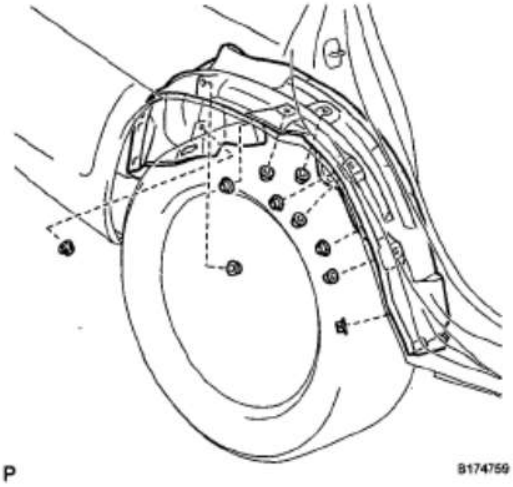


Fig. 187: Identifying Rear Wheel House Liner RH Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL REAR WHEEL HOUSE LINER LH**
   a. Install the rear wheel house liner LH with the 10 clips.

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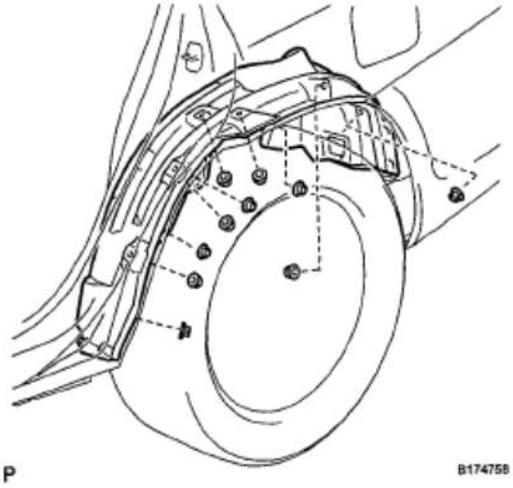


Fig. 188: Identifying Rear Wheel House Liner LH Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL REAR WHEEL HOUSE LINER RH**
   a. Install the rear wheel house liner RH with the 10 clips.

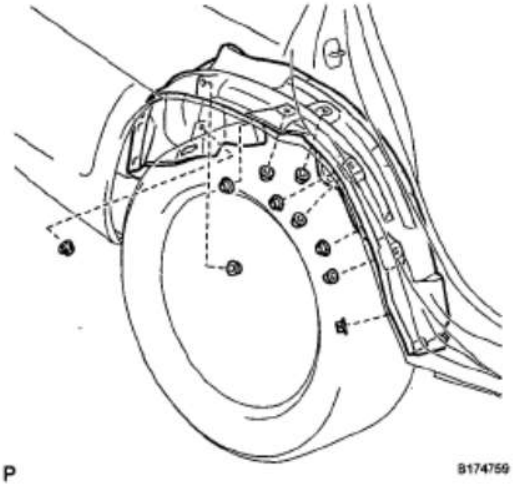


Fig. 189: Identifying Rear Wheel House Liner RH Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL REAR BUMPER SIDE SEAL LH**
   a. Install 2 new grommets.
   b. Install the rear bumper side seal LH with the clip, bolt and screw.
4. **INSTALL REAR BUMPER SIDE SEAL RH**

HINT:

Use the same procedures for the RH side and LH side.

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5. **INSTALL QUARTER PANEL SEAL LH**

HINT:

When installing a new quarter panel seal, heat the vehicle body and quarter panel seal using a heat light.

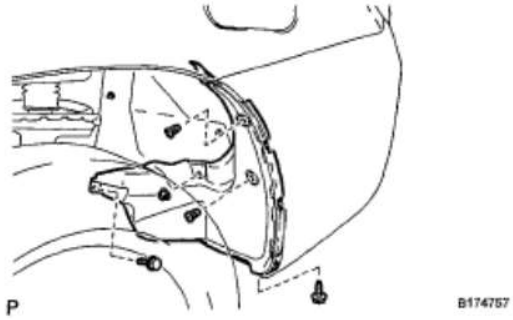


Fig. 190: Identifying Rear Bumper Side Seal LH With Clip, Screw And Bolt
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)
Quarter Panel Seal	20 to 30°C (68 to 86°F)

NOTE: Do not heat the vehicle body or quarter panel seal excessively.

a. Clean the vehicle body surface.
   1. Using a heat light, heat the vehicle body surface.
   2. Remove any double-sided tape from the vehicle body.
   3. Wipe off any tape adhesive residue with cleaner.

b. Install a new quarter panel seal LH.
   1. Using a heat light, heat the vehicle body and a new quarter panel seal LH.
   2. Remove the release paper from the quarter panel seal LH.

      HINT:

      After removing the release paper, keep the exposed adhesive free from foreign matter.

   3. Install the quarter panel seal LH with the 4 screws.

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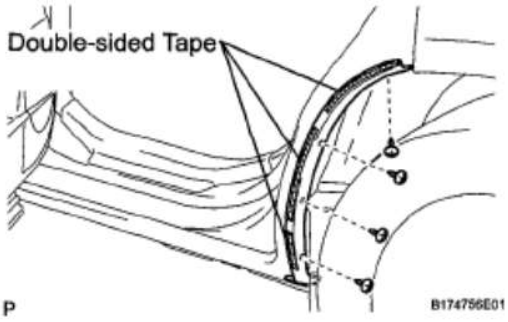


Fig. 191: Peeling Off Double-Sided Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL QUARTER PANEL SEAL RH**

   HINT:

   Use the same procedures for the RH side and LH side.

7. **INSTALL REAR WHEEL HOUSE PAD LH**
   a. Install the rear wheel house pad LH with the 3 screws.
8. **INSTALL REAR WHEEL HOUSE PAD RH**

   HINT:

   Use the same procedure for the RH side and LH side.

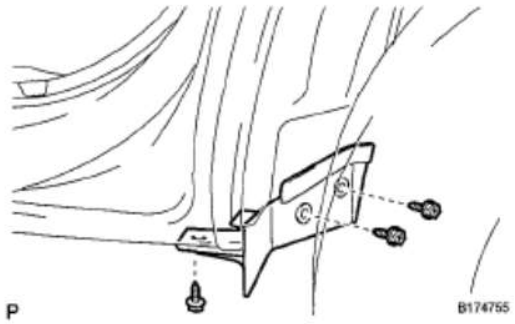


Fig. 192: Identifying Rear Wheel House Pad Screws LH
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

BACK DOOR OUTSIDE GARNISH

COMPONENTS

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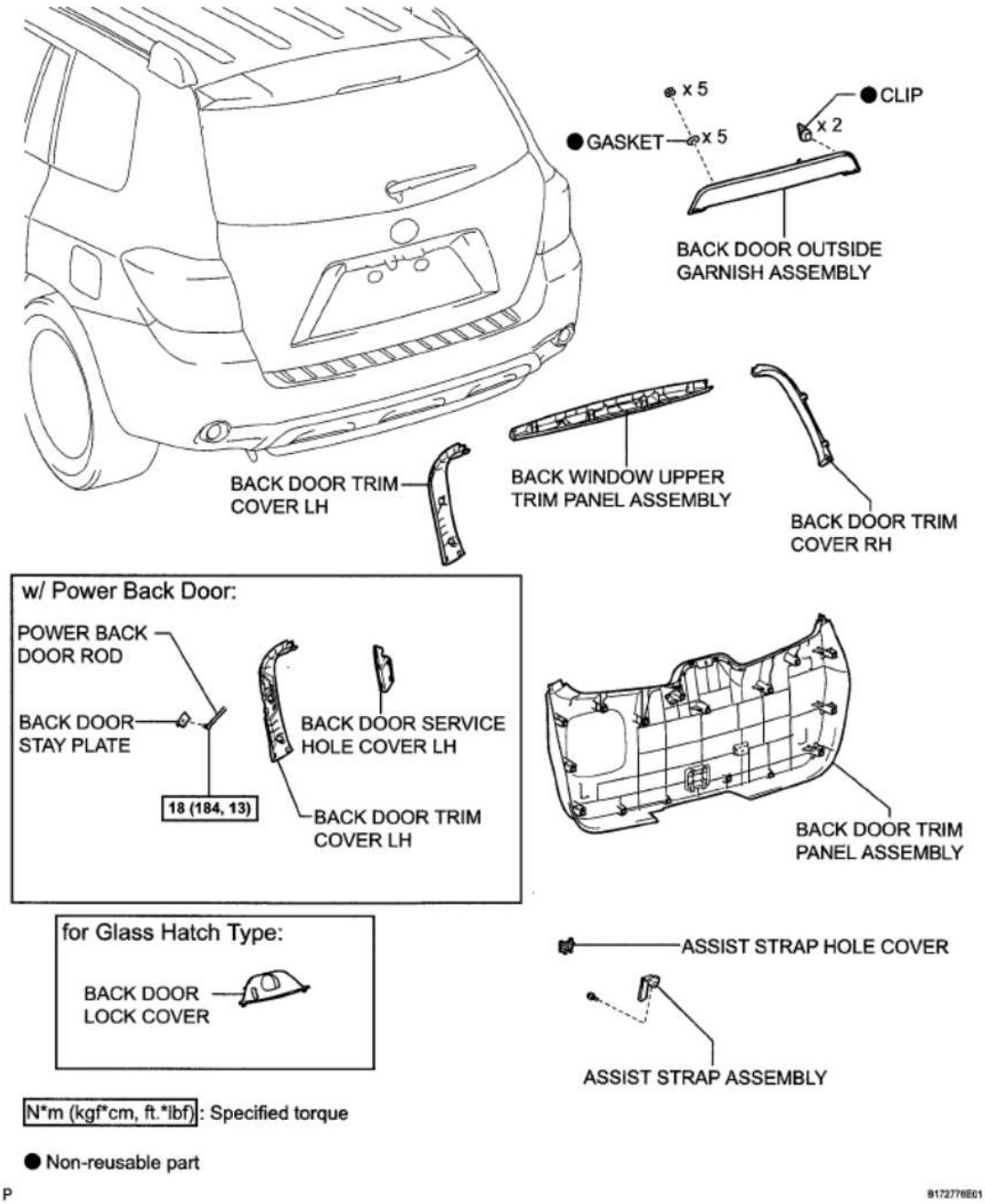


Fig. 193: Identifying Back Door Outside Garnish Components With Torque Specification (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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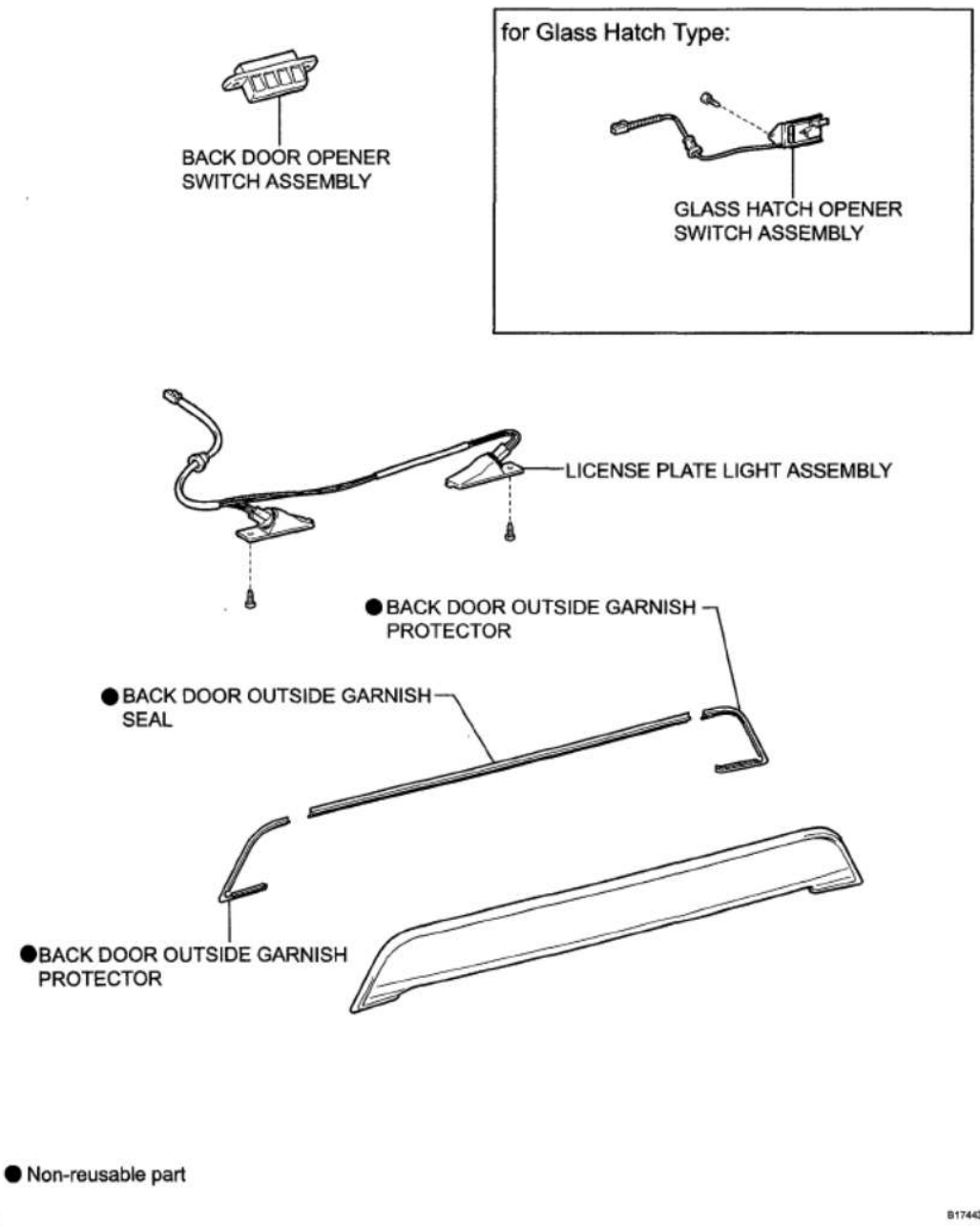


Fig. 194: Identifying Back Door Outside Garnish Components With Torque Specification (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **REMOVE BACK WINDOW UPPER TRIM PANEL ASSEMBLY** (See **DISASSEMBLY**)
2. **REMOVE BACK DOOR TRIM COVER LH (w/o Power Back Door)** (See **DISASSEMBLY**)
3. **REMOVE BACK DOOR SERVICE HOLE COVER LH (w/ Power Back Door)** (See **DISASSEMBLY**)

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4. **DISCONNECT POWER BACK DOOR ROD (w/ Power Back Door)** (See **DISASSEMBLY**)
5. **REMOVE BACK DOOR TRIM COVER LH (w/ Power Back Door)** (See **DISASSEMBLY**)
6. **REMOVE BACK DOOR TRIM COVER RH** (See **DISASSEMBLY**)
7. **REMOVE BACK DOOR LOCK COVER** (See **DISASSEMBLY**)
8. **REMOVE ASSIST STRAP HOLE COVER** (See **DISASSEMBLY**)
9. **REMOVE ASSIST STRAP ASSEMBLY** (See **DISASSEMBLY**)
10. **REMOVE BACK DOOR TRIM PANEL ASSEMBLY** (See **DISASSEMBLY**)
11. **REMOVE BACK DOOR OUTSIDE GARNISH ASSEMBLY**
    a. Disconnect each connector.
    b. Remove the 5 nuts.

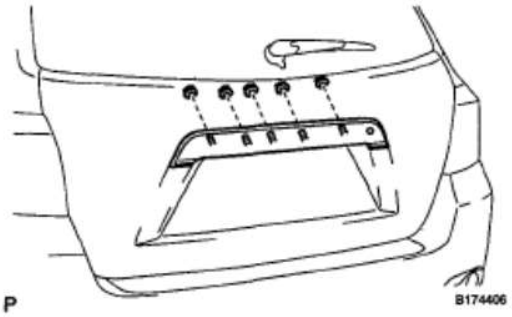


Fig. 195: Identifying Back Door Outside Garnish Assembly Nuts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

    c. Disengage the 2 clips and remove the back door outside garnish assembly.
    d. Remove the 2 clips and 5 gaskets.
12. **REMOVE BACK DOOR OPENER SWITCH ASSEMBLY** (See **REMOVAL**)
13. **REMOVE GLASS HATCH OPENER SWITCH ASSEMBLY (for Glass Hatch Type)** (See **INSPECTION**)
14. **REMOVE LICENSE PLATE LIGHT ASSEMBLY** (See **DISASSEMBLY**)

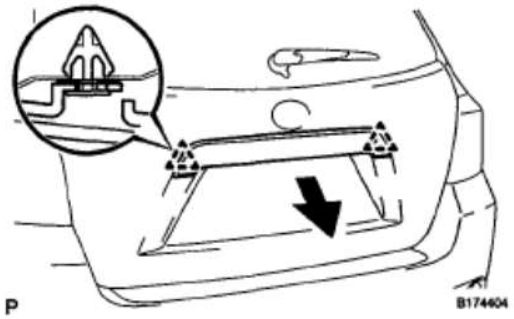


Fig. 196: Removing Back Door Outside Garnish Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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15. **REMOVE BACK DOOR OUTSIDE GARNISH PROTECTOR**
    a. Remove the back door outside garnish protectors.

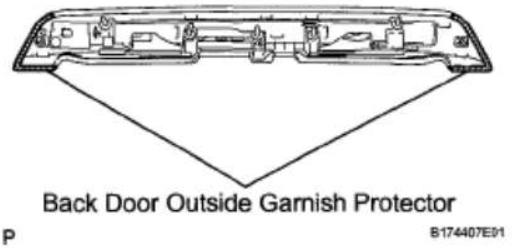


Fig. 197: Identifying Back Door Outside Garnish Protectors
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

16. **REMOVE BACK DOOR OUTSIDE GARNISH SEAL**
    a. Remove the back door outside garnish seal.

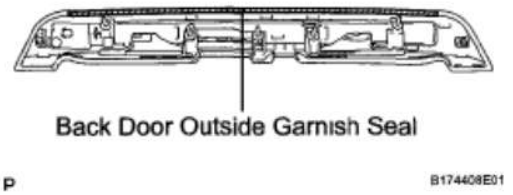


Fig. 198: Identifying Back Door Outside Garnish Seal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

1. **INSTALL BACK DOOR OUTSIDE GARNISH SEAL**
    a. Wipe off any tape adhesive residue with cleaner.
    b. Install a new back door outside garnish seal to the back door outside garnish.

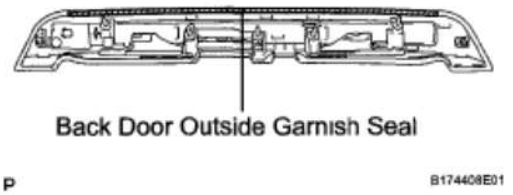


Fig. 199: Identifying Back Door Outside Garnish Seal
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. **INSTALL BACK DOOR OUTSIDE GARNISH PROTECTOR**
    a. Wipe off any tape adhesive residue with cleaner.
    b. Install new back door outside garnish protectors to the back door outside garnish.

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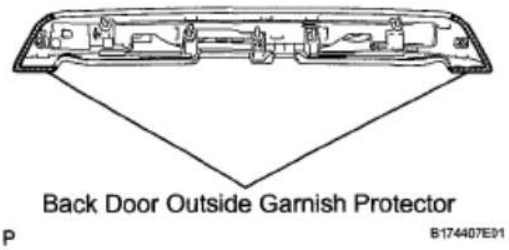


Fig. 200: Identifying Back Door Outside Garnish Protectors
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL LICENSE PLATE LIGHT ASSEMBLY** (See **REASSEMBLY**)
4. **INSTALL BACK DOOR OPENER SWITCH ASSEMBLY** (See **INSTALLATION**)
5. **INSTALL GLASS HATCH OPENER SWITCH ASSEMBLY (for Glass Hatch Type)** (See **INSTALLATION**)
6. **INSTALL BACK DOOR OUTSIDE GARNISH ASSEMBLY**
   a. Install 2 new clips and 5 new gaskets on the back door outside garnish assembly.
   b. Engage the 2 clips and install the back door outside garnish assembly.

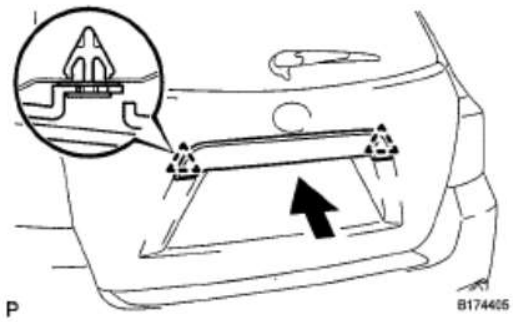


Fig. 201: Installing Clips And Gaskets On Back Door Outside Garnish Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

   c. Install the 5 nuts.
   d. Connect each connector.
7. **INSTALL BACK DOOR TRIM PANEL ASSEMBLY** (See **REASSEMBLY**)
8. **INSTALL ASSIST STRAP ASSEMBLY** (See **REASSEMBLY**)
9. **INSTALL ASSIST STRAP HOLE COVER** (See **REASSEMBLY**)
10. **INSTALL BACK DOOR LOCK COVER** (See **REASSEMBLY**)

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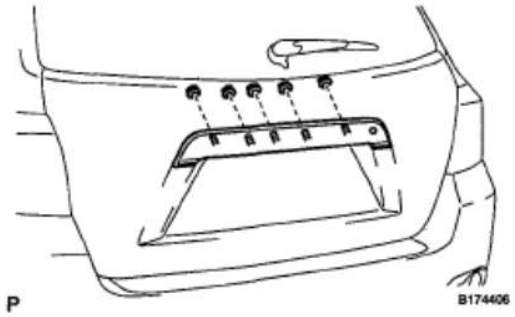


Fig. 202: Identifying Back Door Outside Garnish Assembly Nuts
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

11. **INSTALL BACK DOOR TRIM COVER LH (w/o Power Back Door)** (See **REASSEMBLY**)
12. **INSTALL BACK DOOR TRIM COVER LH (w/ Power Back Door)** (See **REASSEMBLY**)
13. **CONNECT POWER BACK DOOR ROD (w/ Power Back Door)** (See **REASSEMBLY**)
14. **INSTALL BACK DOOR SERVICE HOLE COVER LH (w/ Power Back Door)** (See **REASSEMBLY**)
15. **INSTALL BACK DOOR TRIM COVER RH** (See **REASSEMBLY**)
16. **INSTALL BACK WINDOW UPPER TRIM PANEL ASSEMBLY** (See **REASSEMBLY**)

FRONT DOOR BLACK OUT TAPE

COMPONENTS

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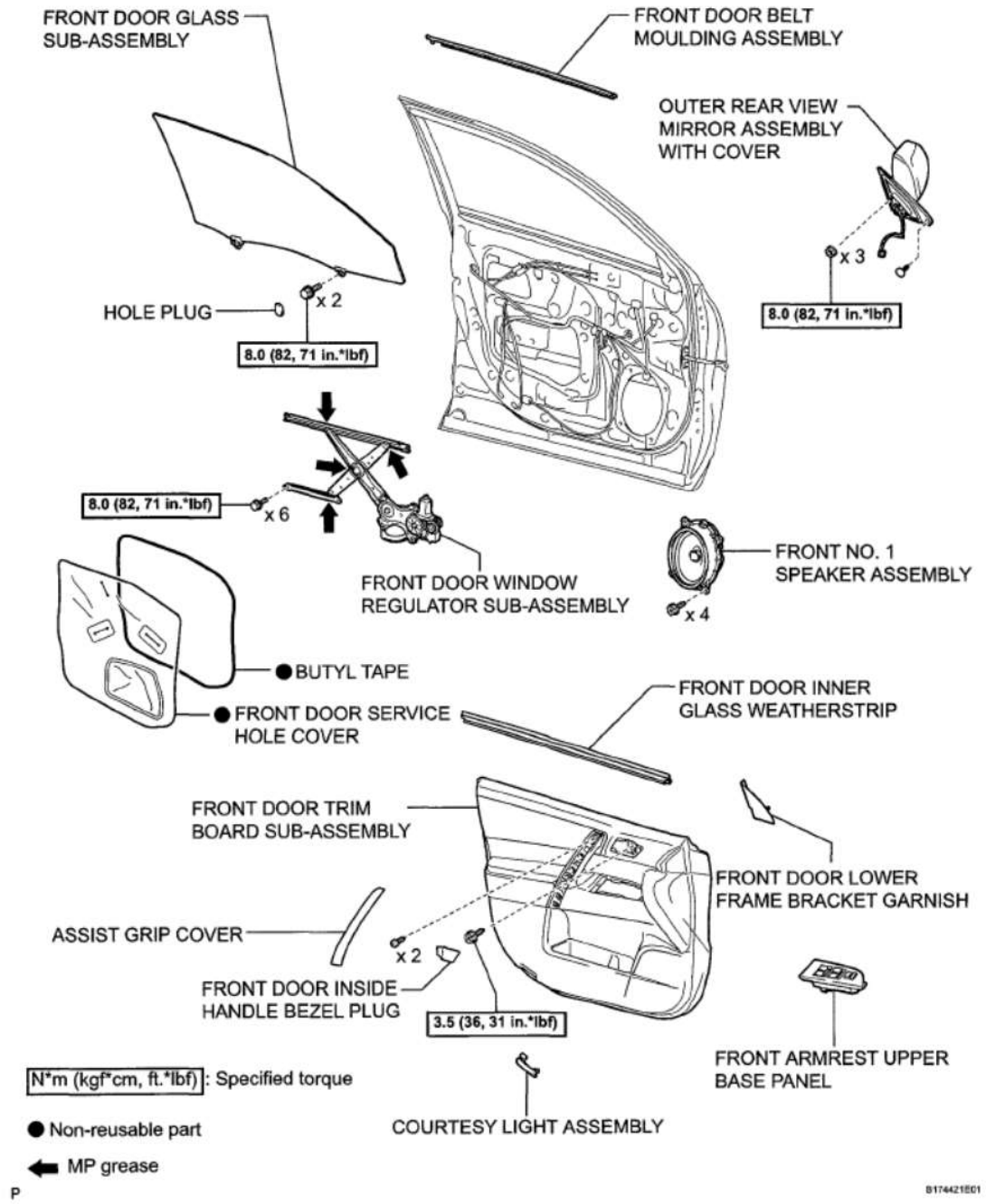


Fig. 203: Identifying Front Door Black Out Tape Components With Torque Specification (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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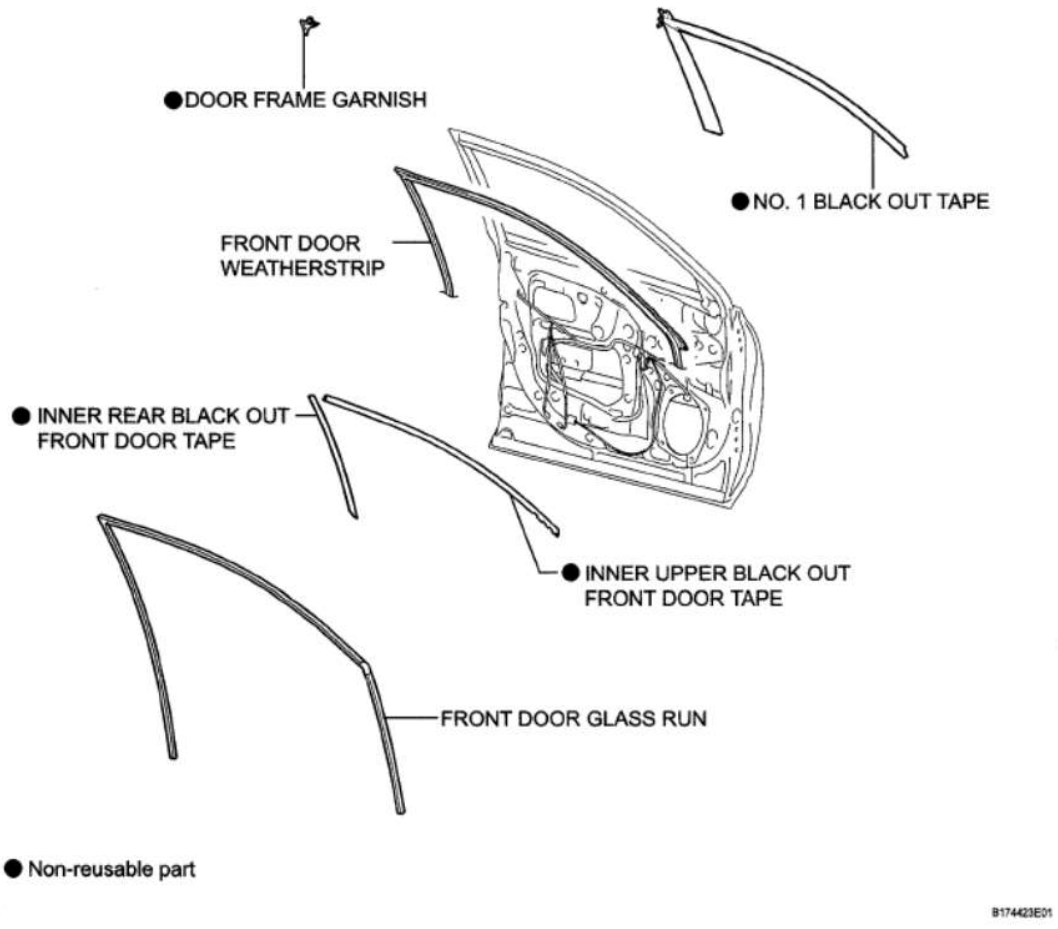


Fig. 204: Identifying Front Door Black Out Tape Components With Torque Specification (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **DISCONNECT NEGATIVE BATTERY TERMINAL**

CAUTION: Wait for 90 seconds after disconnecting the terminal to prevent airbag deployment (See AIRBAG SYSTEM).

NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

2. **REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH** (See **DISASSEMBLY**)
3. **REMOVE FRONT DOOR INSIDE HANDLE BEZEL PLUG** (See **DISASSEMBLY**)
4. **REMOVE FRONT ARMREST UPPER BASE PANEL** (See **DISASSEMBLY**)
5. **REMOVE ASSIST GRIP COVER** (See **DISASSEMBLY**)
6. **REMOVE COURTESY LIGHT ASSEMBLY** (See **DISASSEMBLY**)

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7. **REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY** (See **DISASSEMBLY**)
8. **REMOVE FRONT DOOR INNER GLASS WEATHERSTRIP** (See **DISASSEMBLY**)
9. **REMOVE FRONT NO. 1 SPEAKER ASSEMBLY** (See **INSTALLATION**)
10. **REMOVE OUTER REAR VIEW MIRROR ASSEMBLY WITH COVER** (See **REMOVAL**)
11. **REMOVE FRONT DOOR SERVICE HOLE COVER** (See **DISASSEMBLY**)
12. **REMOVE FRONT DOOR GLASS SUB-ASSEMBLY** (See **DISASSEMBLY**)
13. **REMOVE FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **DISASSEMBLY**)
14. **REMOVE FRONT DOOR GLASS RUN** (See **DISASSEMBLY**)
15. **REMOVE FRONT DOOR BELT MOULDING ASSEMBLY** (See **REMOVAL**)
16. **REMOVE DOOR FRAME GARNISH** (See **DISASSEMBLY**)
17. **REMOVE FRONT DOOR WEATHERSTRIP**
    a. Remove the upper part of the front door weatherstrip to the extent that allows removal of the black out tape.

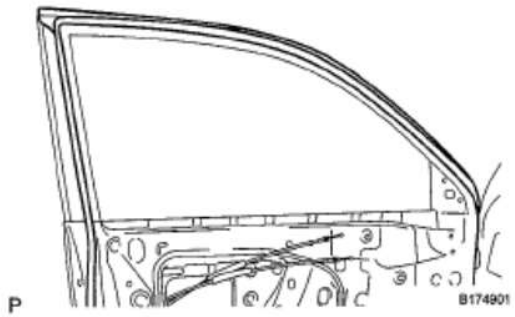


Fig. 205: Identifying Front Door Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

18. **REMOVE NO. 1 BLACK OUT TAPE**
    a. Using a heat light, heat the No. 1 black out tape and vehicle body.

    Heating temperature

    TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

    NOTE: Do not heat the vehicle body excessively.

    b. Pull back an end of the No. 1 black out tape and pull it parallel to the vehicle body to pull it off.
19. **REMOVE INNER UPPER BLACK OUT FRONT DOOR TAPE**
    a. Using a heat light, heat the inner upper black out front door tape and vehicle body.

    Heating temperature

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TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

NOTE: Do not heat the vehicle body excessively.

b. Pull back an end of the inner upper black out front door tape and pull it parallel to the vehicle body to pull it off.

20. **REMOVE INNER REAR BLACK OUT FRONT DOOR TAPE**

a. Using a heat light, heat the inner rear black out front door tape and vehicle body.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

NOTE: Do not heat the vehicle body excessively.

b. Pull back an end of the inner rear black out front door tape and pull it parallel to the vehicle body to pull it off.

INSTALLATION

1. **REPAIR INSTRUCTION**

a. Clean the vehicle body surface.

1. Using a heat light, heat the vehicle body surface.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

NOTE: Do not heat the vehicle body excessively.

2. Wipe off any tape adhesive residue with cleaner.

b. Installation temperature

1. When the ambient temperature is below 15°C (59°F), perform the installation procedure after warming the vehicle body surface (installation surface of the door frame) and tape up to between 20 and 30°C (68 and 86°F) using a heat light. When the ambient temperature is above 35°C (95°F), cool the vehicle body surface (installation surface of the door frame) and tape down to between 20 and 30°C (68 and 86°F) prior to installation.

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HINT:

- The most appropriate temperature for installing the tape is 25°C (77°F).
- When the temperature is low, the tape turns stiff and comes off easily. When the temperature is high, the tape looses elasticity.

c. Before installation

1. Remove any roughness of coating and dirt on and around the vehicle body surface where the tape will be installed (installation surface of the door frame). If any roughness or dirt remains when pressing the tape onto the surface, air will be trapped under the tape and result in a poor appearance.

HINT:

Spray water on the shop floor to settle any dust.

d. Key points for handling the tape

1. The tape bends and rolls up easily. Store the tape between flat pieces of cardboard or other similar objects and keep it dry and level.

NOTE: Do not bend the tape or leave it in high temperature places.

e. Key points for installation of the tape (how to use a squeegee and installation procedure for flat surfaces)

NOTE:

- **Position the tape accurately to achieve a neat finish and to avoid peeling.**
- **The tape cannot be reused because it deforms and will not fit any more after being removed.**

1. To avoid air bubbles, slightly raise the part of the tape that is going to be applied so that its adhesive surface does not touch the vehicle body while applying the tape. Tilt the squeegee at 40 to 50° (for pressing forward) or 30 to 45° (for pulling) to the vehicle body surface and press the tape onto the vehicle body surface with a force of 20 to 30 N (2 to 3 kgf) at a constant slow speed of 3 to 7 cm (1.2 to 2.8 in.) per second.

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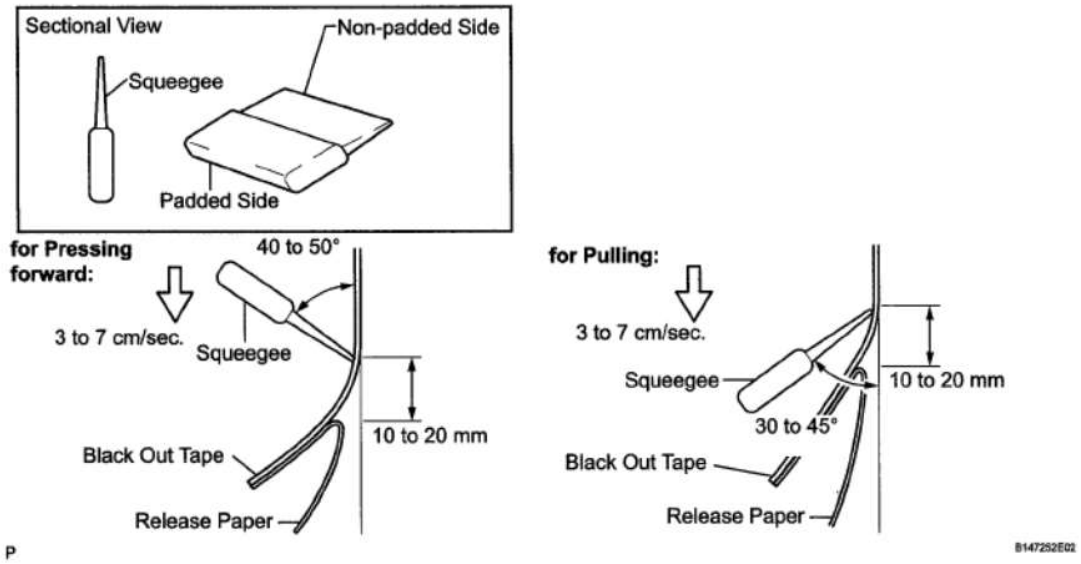


Fig. 206: [Identifying Key Points For Installation Of Tape]
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: Be sure to observe the specified pressing speed, force, and angle of the squeegee to avoid wrinkles or air bubbles.

HINT:

- Either angle of the squeegee (for pressing forward or for pulling) is acceptable.
- Be sure to apply the tape while removing the release paper 10 to 20 mm (0.393 to 0.787 in.) from the edge of the squeegee.

f. Key points for installation of the tape (how to use a squeegee and installation procedure for hemming surfaces)

1. If it is difficult to apply the tape, install it in several steps as shown in the illustration. Use your fingers or the padded surface of a squeegee to slowly apply the tape to the hem of the vehicle, especially for a small hem.

HINT:

When applying tape to the backside of a hem, remove the release paper and use your fingers or the padded surface of a squeegee.

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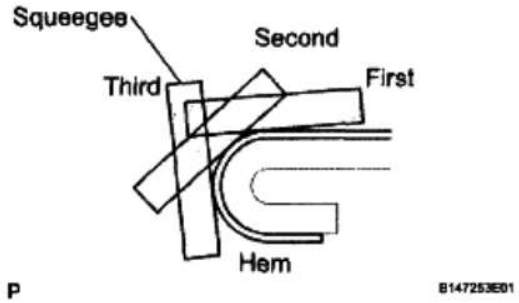


Fig. 207: [Key Points For Installation Of Tape (For Hemming Surfaces)]
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

g. Key points for installation of the tape (how to use a squeegee and installation procedure for corners)
   1. Remove the release paper and apply the tape carefully with your fingers.
   2. Before applying the tape to each corner, heat the tape using a heat light and gradually apply it, avoiding wrinkles on the tape to achieve a neat finish.

h. Check after installation
   1. After completing the application, check if the tape is applied neatly. If the tape is not applied neatly, reapply using new tape.

NOTE: Do not reuse the tape.

2. **INSTALL INNER REAR BLACK OUT FRONT DOOR TAPE**
   a. Referring to the illustration, position the inner rear black out front door tape.
   b. Remove the release paper and apply the tape.

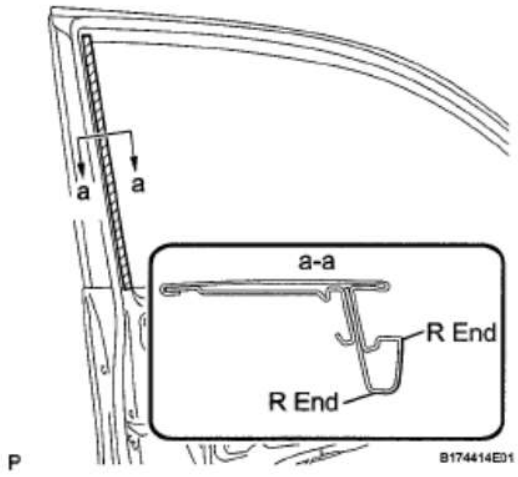


Fig. 208: Positioning Inner Rear Black Out Front Door Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL INNER UPPER BLACK OUT FRONT DOOR TAPE**

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a. Referring to the illustration, position the inner upper black out front door tape.
b. Remove the release paper and apply the tape.

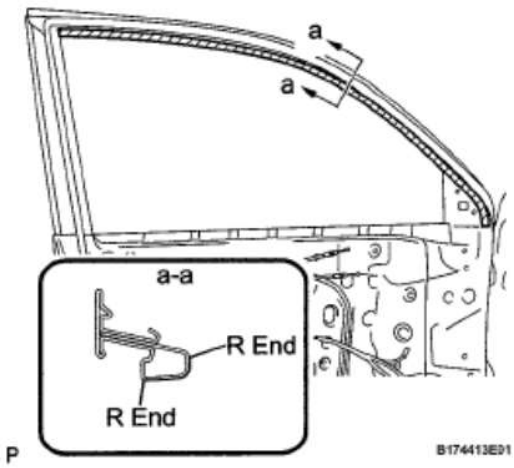


Fig. 209: Positioning Inner Upper Black Out Front Door Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL NO. 1 BLACK OUT TAPE**
   a. Referring to the illustration, position the No. 1 black out tape.

Standard measurement

STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	2 to 4 mm (0.079 to 0.157 in.)
B	4 to 6 mm (0.157 to 0.236 in.)

   b. Remove the release paper and apply the tape.

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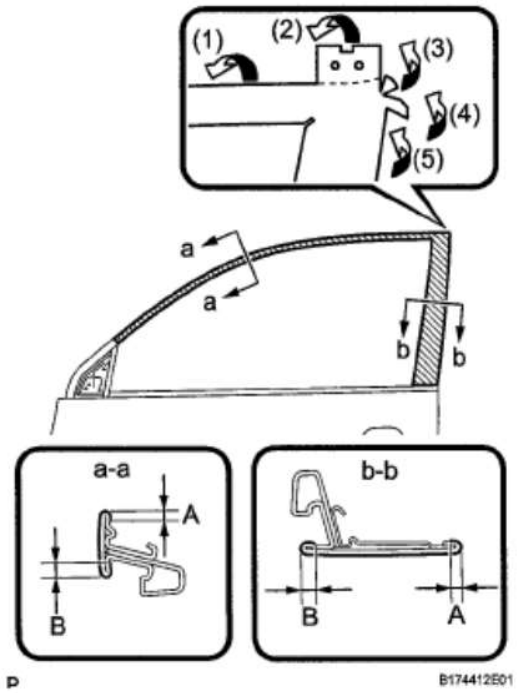


Fig. 210: Positioning No. 1 Black Out Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL FRONT DOOR WEATHERSTRIP**
   a. Install the front door weatherstrip.
6. **INSTALL DOOR FRAME GARNISH** (See **REASSEMBLY**)
7. **INSTALL FRONT DOOR BELT MOULDING ASSEMBLY** (See **INSTALLATION**)

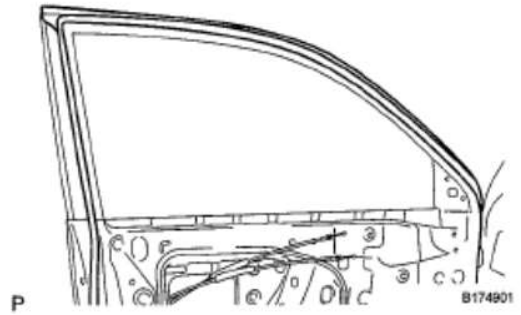


Fig. 211: Identifying Front Door Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

8. **INSTALL FRONT DOOR GLASS RUN** (See **REASSEMBLY**)
9. **INSTALL FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **REASSEMBLY**)
10. **INSTALL FRONT DOOR GLASS SUB-ASSEMBLY** (See **REASSEMBLY**)
11. **INSTALL FRONT DOOR SERVICE HOLE COVER** (See **REASSEMBLY**)

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12. **INSTALL OUTER REAR VIEW MIRROR ASSEMBLY WITH COVER** (See **INSTALLATION**)
13. **INSTALL FRONT NO. 1 SPEAKER ASSEMBLY** (See **INSTALLATION**)
14. **INSTALL FRONT DOOR INNER GLASS WEATHERSTRIP** (See **REASSEMBLY**)
15. **INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY** (See **REASSEMBLY**)
16. **INSTALL COURTESY LIGHT ASSEMBLY** (See **REASSEMBLY**)
17. **INSTALL ASSIST GRIP COVER** (See **REASSEMBLY**)
18. **INSTALL FRONT ARMREST UPPER BASE PANEL** (See **REASSEMBLY**)
19. **INSTALL FRONT DOOR INSIDE HANDLE BEZEL PLUG** (See **REASSEMBLY**)
20. **INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH** (See **REASSEMBLY**)
21. **CONNECT NEGATIVE BATTERY TERMINAL**

NOTE: **When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).**

22. **INITIALIZE WINDOW CONTROL SYSTEM (for Driver Side)**

(See **CUSTOMIZE PARAMETERS**)

REAR DOOR BLACK OUT TAPE

COMPONENTS

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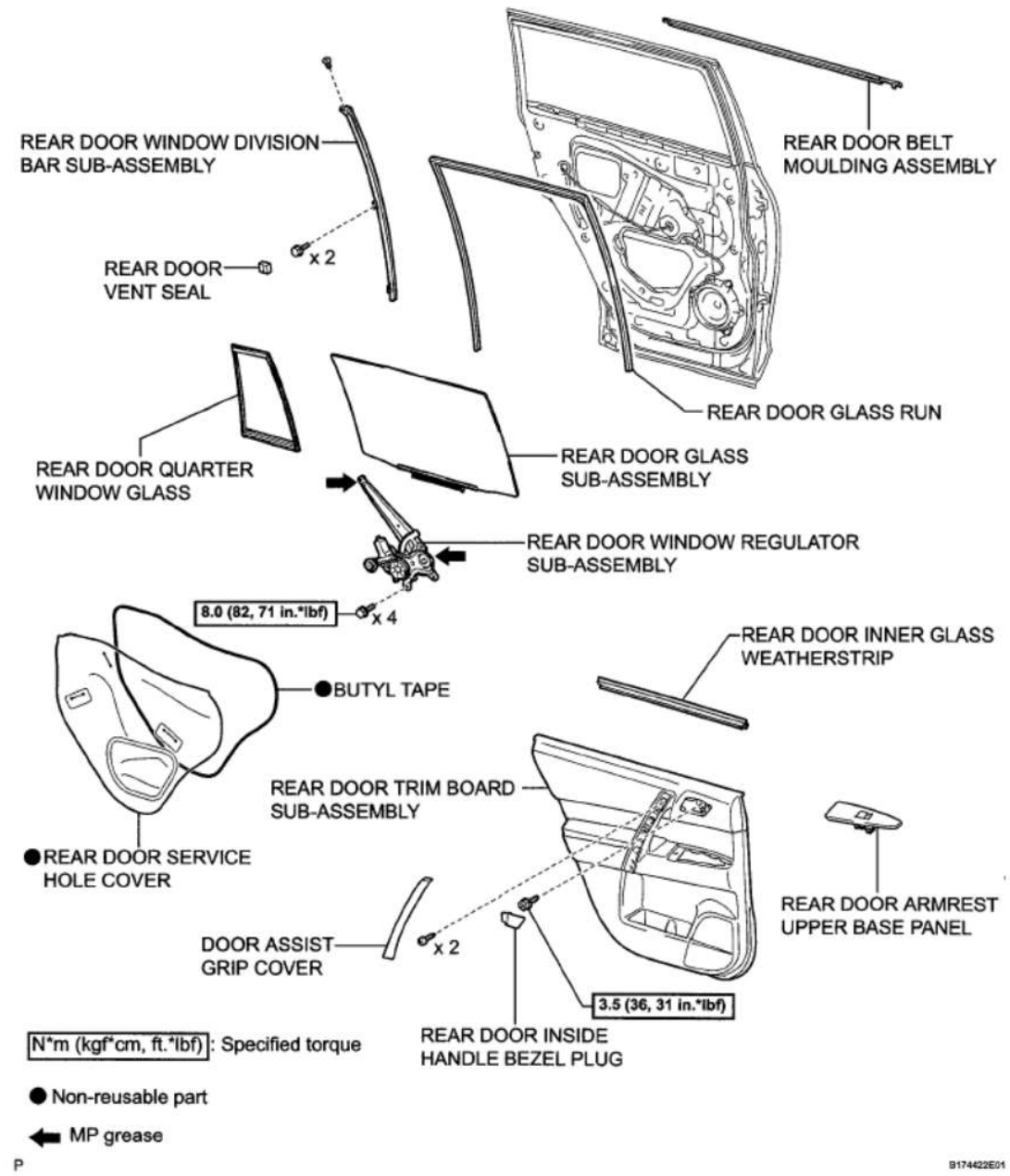


Fig. 212: Identifying Rear Door Black Out Tape Components With Torque Specification (1 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

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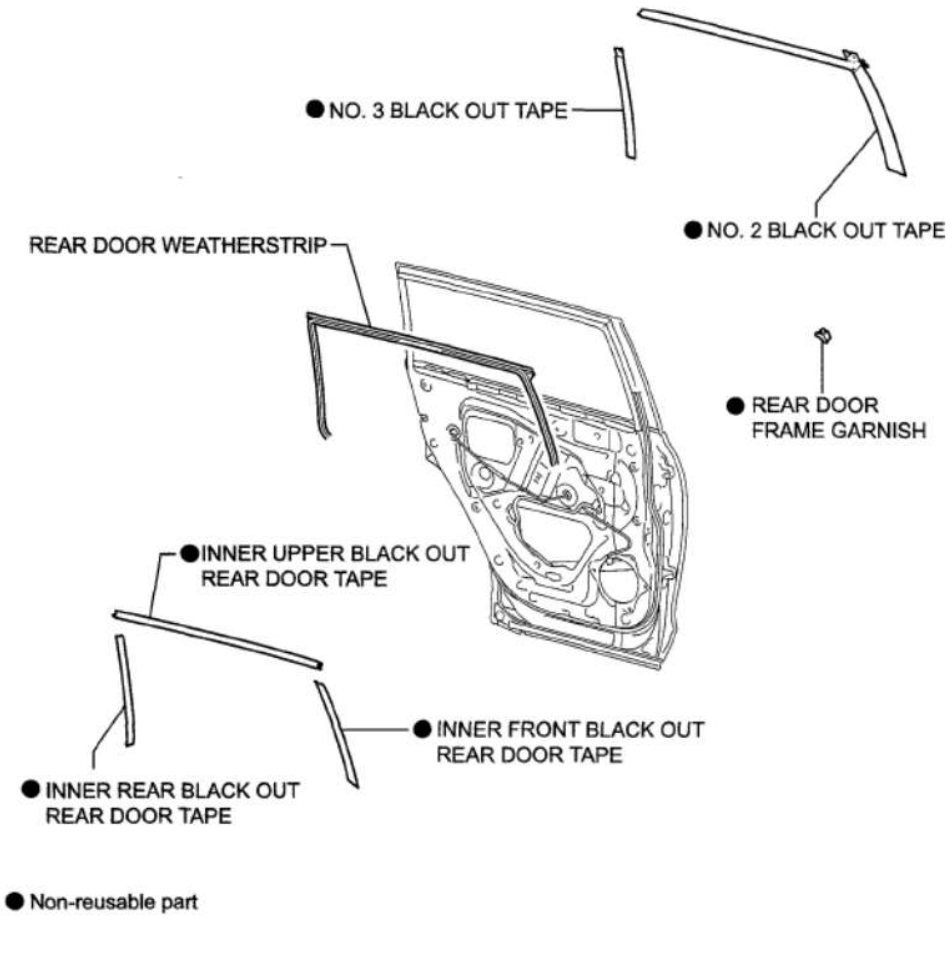


Fig. 213: Identifying Rear Door Black Out Tape Components With Torque Specification (2 Of 2)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

1. **DISCONNECT NEGATIVE BATTERY TERMINAL**

CAUTION: Wait for 90 seconds after disconnecting the terminal to prevent airbag deployment (See AIRBAG SYSTEM).

NOTE: When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).

2. **REMOVE REAR DOOR INSIDE HANDLE BEZEL PLUG** (See **DISASSEMBLY**)
3. **REMOVE REAR DOOR ARMREST UPPER BASE PANEL** (See **DISASSEMBLY**)
4. **REMOVE DOOR ASSIST GRIP COVER** (See **DISASSEMBLY**)
5. **REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY** (See **DISASSEMBLY**)

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6. **REMOVE REAR DOOR INNER GLASS WEATHERSTRIP** (See **DISASSEMBLY**)
7. **REMOVE REAR DOOR SERVICE HOLE COVER** (See **DISASSEMBLY**)
8. **REMOVE REAR DOOR GLASS RUN** (See **DISASSEMBLY**)
9. **REMOVE REAR DOOR WINDOW DIVISION BAR SUB-ASSEMBLY** (See **DISASSEMBLY**)
10. **REMOVE REAR DOOR QUARTER WINDOW GLASS** (See **DISASSEMBLY**)
11. **REMOVE REAR DOOR GLASS SUB-ASSEMBLY** (See **DISASSEMBLY**)
12. **REMOVE REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **DISASSEMBLY**)
13. **REMOVE REAR DOOR BELT MOULDING ASSEMBLY** (See **REMOVAL**)
14. **REMOVE REAR DOOR FRAME GARNISH** (See **DISASSEMBLY**)
15. **REMOVE REAR DOOR WEATHERSTRIP**
    a. Remove the upper part of the rear door weatherstrip to the extent that allows removal of the black out tape.

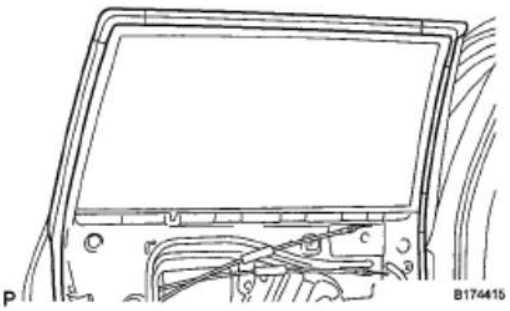


Fig. 214: Identifying Rear Door Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

16. **REMOVE NO. 3 BLACK OUT TAPE**
    a. Using a heat light, heat the No. 3 black out tape and vehicle body.

    Heating temperature

    TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

    NOTE: Do not heat the vehicle body excessively.

    b. Pull back an end of the No. 3 black out tape and pull it parallel to the vehicle body to pull it off.
17. **REMOVE NO. 2 BLACK OUT TAPE**
    a. Using a heat light, heat the No. 2 black out tape and vehicle body.

    Heating temperature

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TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

NOTE: Do not heat the vehicle body excessively.

b. Pull back an end of the No. 2 black out tape and pull it parallel to the vehicle body to pull it off.

18. **REMOVE INNER UPPER BLACK OUT REAR DOOR TAPE**

a. Using a heat light, heat the inner upper black out rear door tape and vehicle body.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

NOTE: Do not heat the vehicle body excessively.

b. Pull back an end of the inner upper black out rear door tape and pull it parallel to the vehicle body to pull it off.

19. **REMOVE INNER FRONT BLACK OUT REAR DOOR TAPE**

a. Using a heat light, heat the inner front black out rear door tape and vehicle body.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

NOTE: Do not heat the vehicle body excessively.

b. Pull back an end of the inner front black out rear door tape and pull it parallel to the vehicle body to pull it off.

20. **REMOVE INNER REAR BLACK OUT REAR DOOR TAPE**

a. Using a heat light, heat the inner rear black out rear door tape and vehicle body.

Heating temperature

TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

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NOTE: Do not heat the vehicle body excessively.

b. Pull back an end of the inner rear black out rear door tape and pull it parallel to the vehicle body to pull it off.

INSTALLATION

1. **REPAIR INSTRUCTION**
   a. Clean the vehicle body surface.
      1. Using a heat light, heat the vehicle body surface.

         Heating temperature

         TEMPERATURE SPECIFICATION

Item	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)

         NOTE: Do not heat the vehicle body excessively.

      2. Wipe off any tape adhesive residue with cleaner.
   b. Installation temperature
      1. When ambient temperature is below 15°C (59°F), perform the installation procedure after warming the vehicle body surface (installation surface of the door frame) and tape up to between 20 and 30°C (68 and 86°F) using a heat light. When ambient temperature is above 35°C (95°F), cool the vehicle body surface (installation surface of the doorframe) and tape down to between 20 and 30°C (68 and 86°F) prior to installation.

         HINT:

         - The most appropriate temperature for installing the tape is 25°C (77°F).
         - When the temperature is low, the tape turns stiff and comes off easily. When the temperature is high, the tape looses elasticity.
   c. Before installation
      1. Remove any roughness of coating and dirt on and around the vehicle body surface where the tape will be installed (installation surface of the door frame). If any roughness or dirt remains when pressing the tape onto the surface, air will be trapped under the tape and result in a poor appearance.

         HINT:

         Spray water on the shop floor to settle any dust.

   d. Key points for handling the tape
      1. The tape bends and rolls up easily. Store the tape between flat pieces of cardboard or other

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similar objects and keep it dry and level.

NOTE: Do not bend the tape or leave it in high temperature places.

e. Key points for installation of the tape (how to use a squeegee and installation procedure for flat surfaces)

NOTE:

- **Position the tape accurately to achieve a neat finish and to avoid peeling.**
- **The tape cannot be reused because it deforms and will not fit any more after being removed.**

1. To avoid air bubbles, slightly raise the part of the tape that is going to be applied so that its adhesive surface does not touch the vehicle body while applying the tape. Tilt the squeegee at 40 to 50° (for pressing forward) or 30 to 45° (for pulling) to the vehicle body surface and press the tape onto the vehicle body surface with a force of 20 to 30 N (2 to 3 kgf) at a constant slow speed of 3 to 7 cm (1.2 to 2.8 in.) per second.

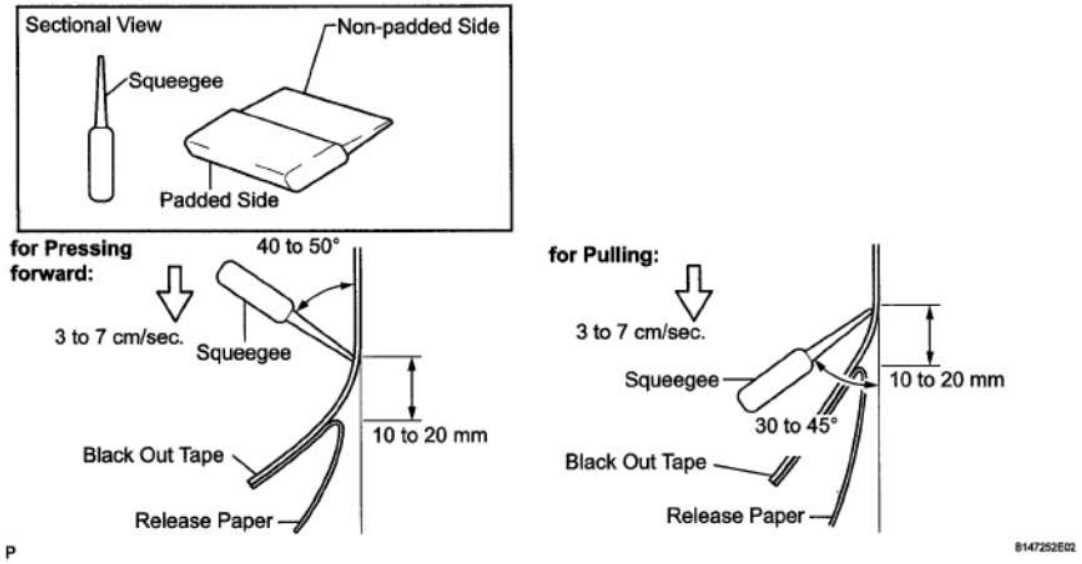


Fig. 215: [Identifying Key Points For Installation Of Tape]
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: Be sure to observe the specified pressing speed, force, and angle of the squeegee to avoid wrinkles or air bubbles.

HINT:

- Either angle of the squeegee (for pressing forward or for pulling) is acceptable.
- Be sure to apply the tape while removing the release paper 10 to 20 mm (0.393 to 0.787 in.) from the edge of the squeegee.

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f. Key points for installation of the tape (how to use a squeegee and installation procedure for hemming surfaces)
   1. If it is difficult to apply the tape, install it in several steps as shown in the illustration. Use your fingers or the padded surface of a squeegee to slowly apply the tape to the hem of the vehicle, especially for a small hem.

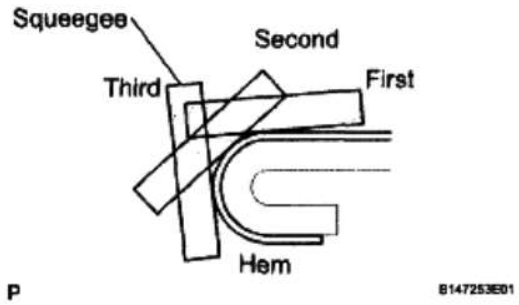


Fig. 216: [Key Points For Installation Of Tape (For Hemming Surfaces)]
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

When applying tape to the backside of a hem, remove the release paper and use your fingers or the padded surface of a squeegee.

g. Key points for installation of the tape (how to use a squeegee and installation procedure for corners)
   1. Remove the release paper and apply the tape carefully with your fingers.
   2. Before applying the tape to each corner, heat the tape using a heat light and gradually apply it, avoiding wrinkles on the tape to achieve a neat finish.

h. Check after installation
   1. After completing the application, check if the tape is applied neatly. If the tape is not applied neatly, reapply using new tape.

NOTE: Do not reuse the tape.

2. **INSTALL INNER REAR BLACK OUT REAR DOOR TAPE**
   a. Referring to the illustration, position the inner rear black out rear door tape.
   b. Remove the release paper and apply the tape.

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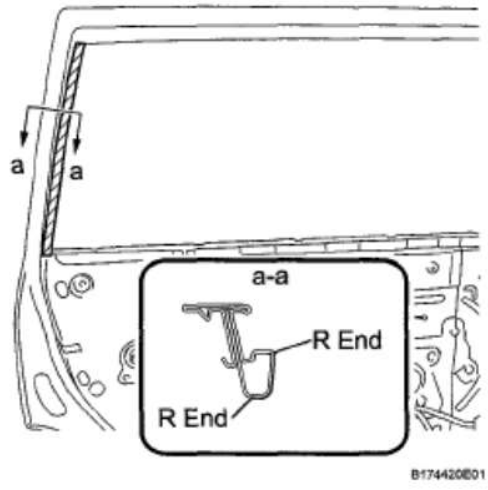


Fig. 217: Positioning Inner Rear Black Out Rear Door Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. **INSTALL INNER FRONT BLACK OUT REAR DOOR TAPE**
   a. Referring to the illustration, position the inner front black out rear door tape.
   b. Remove the release paper and apply the tape.

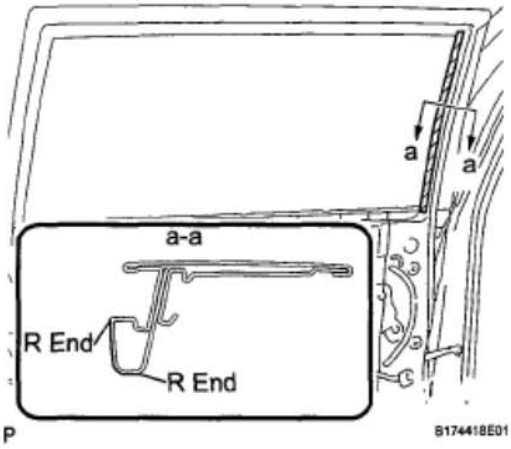


Fig. 218: Positioning Inner Front Black Out Rear Door Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. **INSTALL INNER UPPER BLACK OUT REAR DOOR TAPE**
   a. Referring to the illustration, position the inner upper black out rear door tape.
   b. Remove the release paper and apply the tape.

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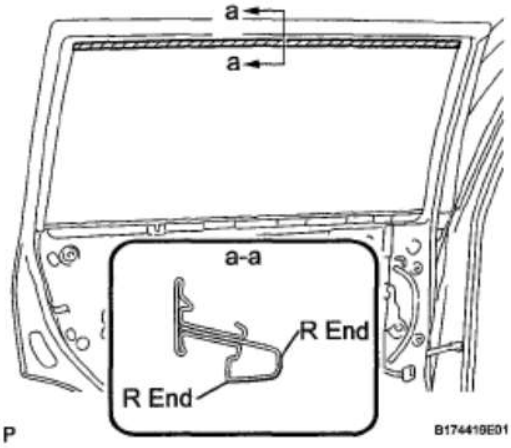


Fig. 219: Positioning Inner Upper Black Out Rear Door Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

5. **INSTALL NO. 2 BLACK OUT TAPE**
   a. Referring to the illustration, position the No. 2 black out tape.

Standard measurement

STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	2 to 4 mm (0.079 to 0.157 in.)
B	4 to 6 mm (0.157 to 0.236 in.)

   b. Remove the release paper and apply the tape.

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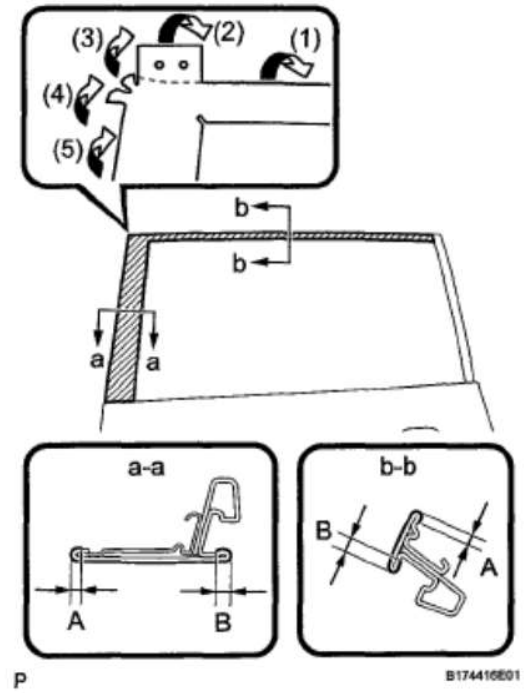


Fig. 220: Positioning No. 2 Black Out Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

6. **INSTALL NO. 3 BLACK OUT TAPE**
   a. Referring to the illustration, position the No. 3 black out tape.

      Standard measurement

      STANDARD MEASUREMENT REFERENCE

Dimension	Measurement
A	2 to 4 mm (0.079 to 0.157 in.)
B	4 to 6 mm (0.157 to 0.236 in.)

   b. Remove the release paper and apply the tape.

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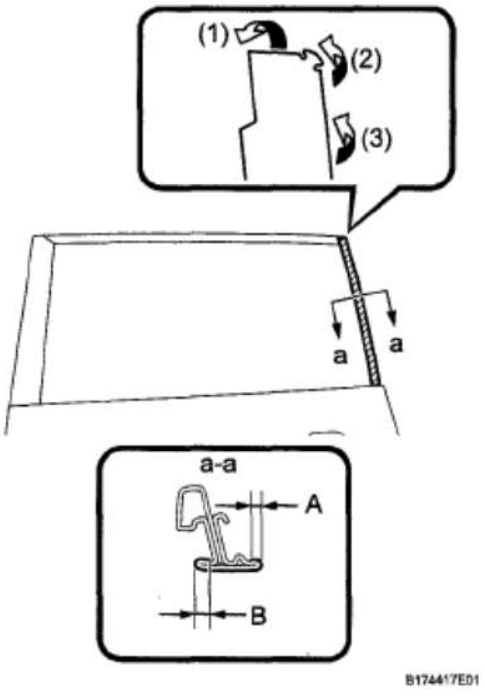


Fig. 221: Positioning No. 3 Black Out Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

7. **INSTALL REAR DOOR WEATHERSTRIP**
   a. Install the rear door weatherstrip.
8. **INSTALL REAR DOOR FRAME GARNISH** (See **REASSEMBLY**)
9. **INSTALL REAR DOOR BELT MOULDING ASSEMBLY** (See **INSTALLATION**)

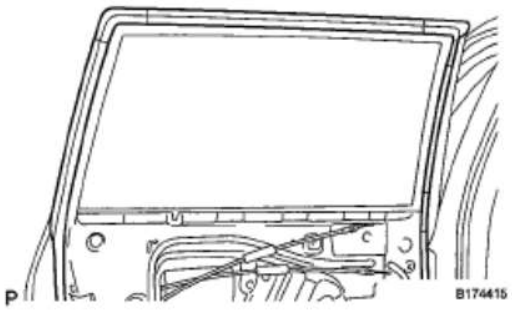


Fig. 222: Identifying Rear Door Weatherstrip
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

10. **INSTALL REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY** (See **REASSEMBLY**)
11. **INSTALL REAR DOOR GLASS RUN** (See **REASSEMBLY**)
12. **INSTALL REAR DOOR GLASS SUB-ASSEMBLY** (See **REASSEMBLY**)
13. **INSTALL REAR DOOR QUARTER WINDOW GLASS** (See **REASSEMBLY**)

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14. **INSTALL REAR DOOR WINDOW DIVISION BAR SUB-ASSEMBLY** (See **REASSEMBLY**)
15. **INSTALL REAR DOOR SERVICE HOLE COVER** (See **REASSEMBLY**)
16. **INSTALL REAR DOOR INNER GLASS WEATHERSTRIP** (See **REASSEMBLY**)
17. **INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY** (See **REASSEMBLY**)
18. **INSTALL DOOR ASSIST GRIP COVER** (See **REASSEMBLY**)
19. **INSTALL REAR DOOR ARMREST UPPER BASE PANEL** (See **REASSEMBLY**)
20. **INSTALL REAR DOOR INSIDE HANDLE BEZEL PLUG** (See **REASSEMBLY**)
21. **CONNECT NEGATIVE BATTERY TERMINAL**

NOTE: **When disconnecting the cable, some systems need to be initialized after the cable is reconnected (See INITIALIZATION).**

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