

ACCESSORIES & EQUIPMENT

Exterior Panels / Trim (Preparation) - Sienna

EXTERIOR PANELS / TRIM

RECOMMENDED TOOLS

RECOMMENDED TOOLS

	09010-3C120	Set, "TORX" Socket Wrench	
	(09013-1C120)	"TORX" Socket Wrench T-type T30	
	09061-1C110	Clip Remover 10mm	
	09061-1C300	Set, Moulding Remover	
	(09061-1C340)	Remover D, Moulding	

EQUIPMENT

EQUIPMENT

Protective tape	
Piano wire	
Wooden block	
Infrared light	
String	
A non-residue solvent	
Squeegee	
Torque wrench	

ACCESSORIES & EQUIPMENT

Exterior Panels / Trim (Service Information) - Sienna

FRONT BUMPER

COMPONENTS

ILLUSTRATION

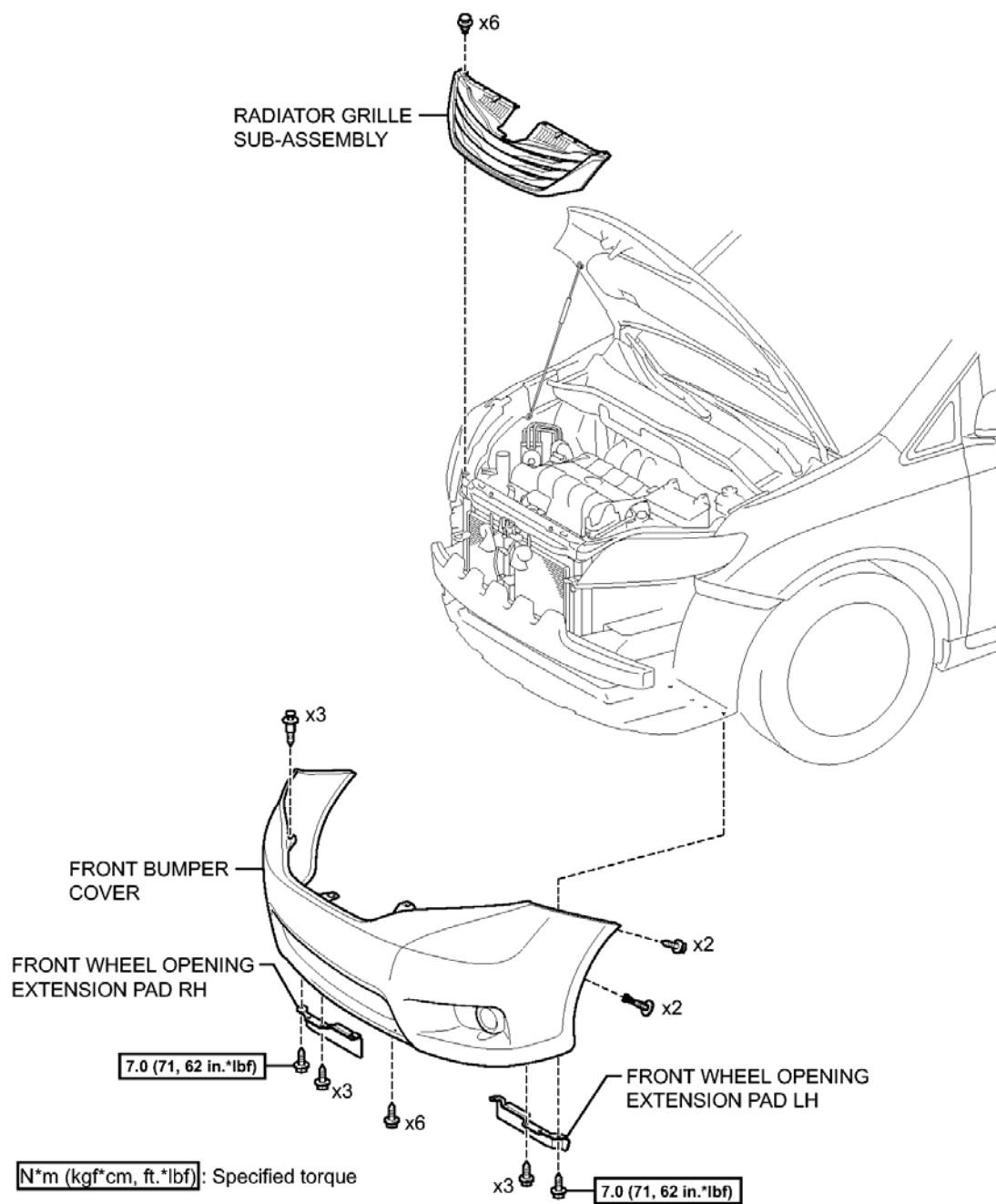
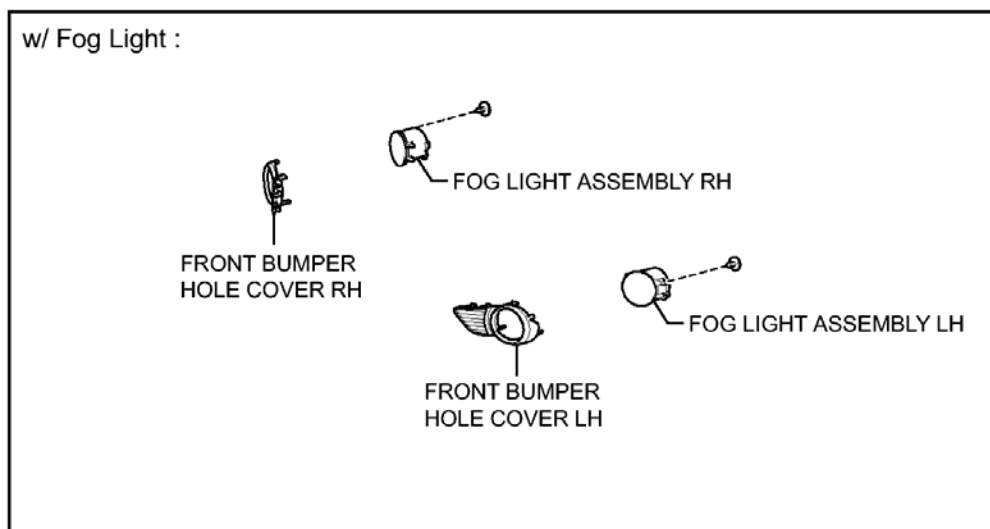
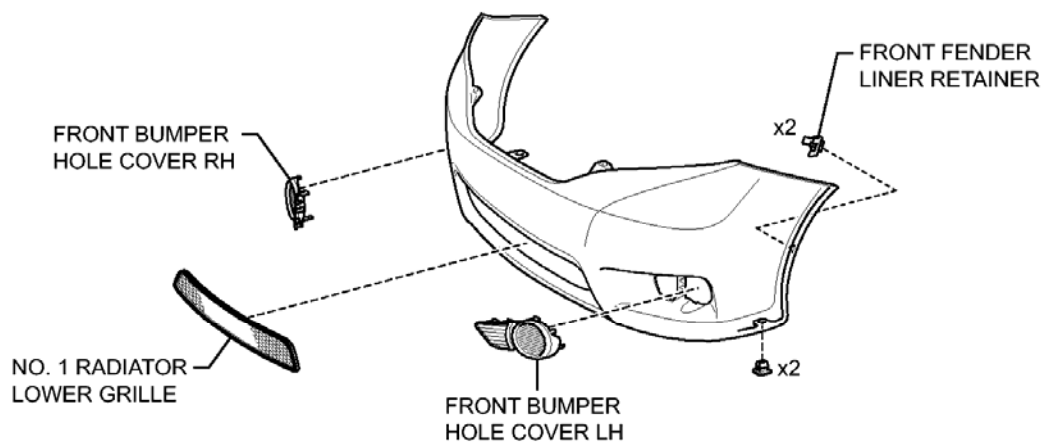


Fig. 1: Front Bumper Replacement Components With Torque Specifications (1 Of 4)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

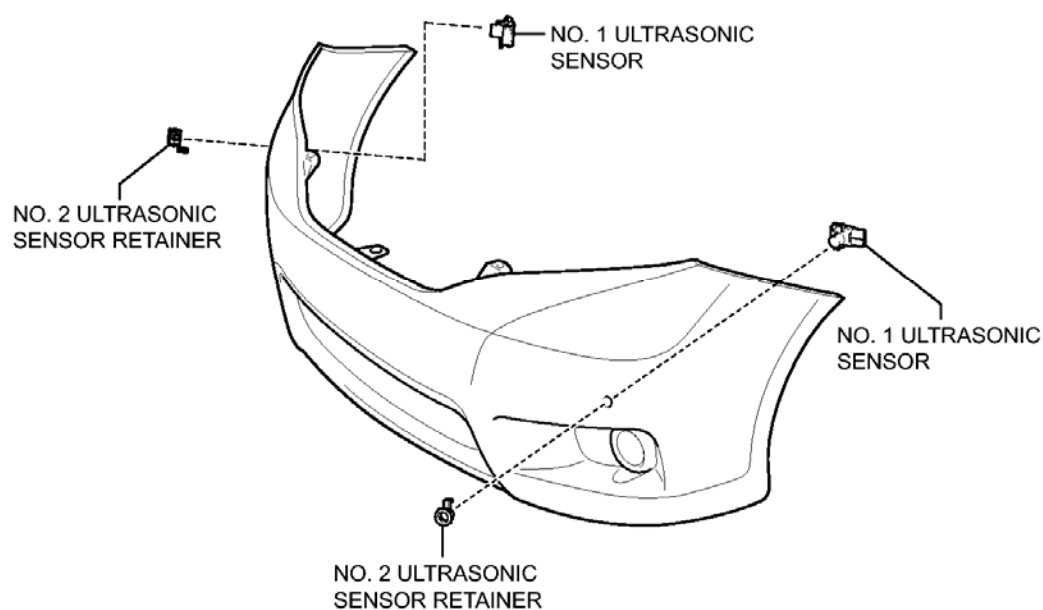
ILLUSTRATION



T
Fig. 2: Front Bumper Replacement Components (2 Of 4)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION

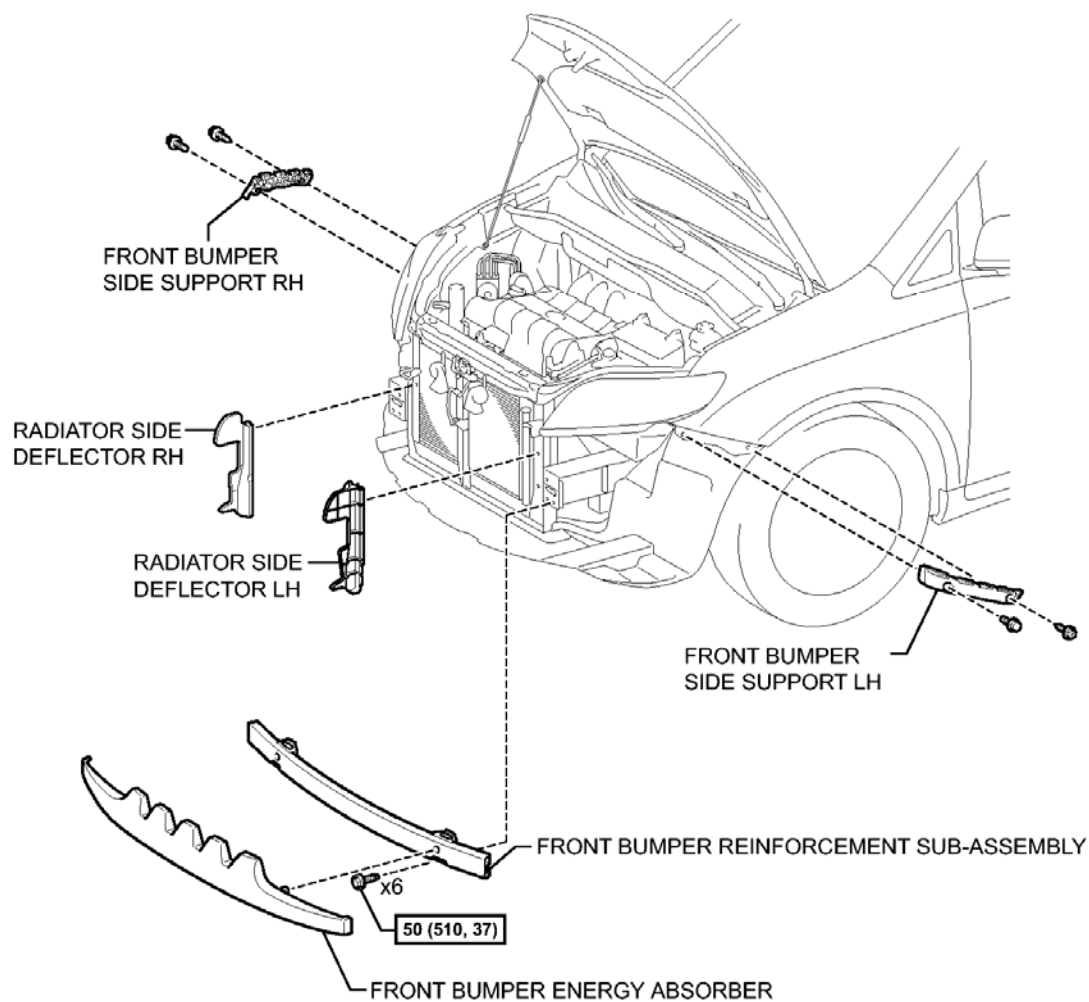
w/ Intuitive Parking Assist System:



T

Fig. 3: Identifying Front Bumper Replacement Components (3 Of 4)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



[N*m (kgf*cm, ft.*lbf)]: Specified torque

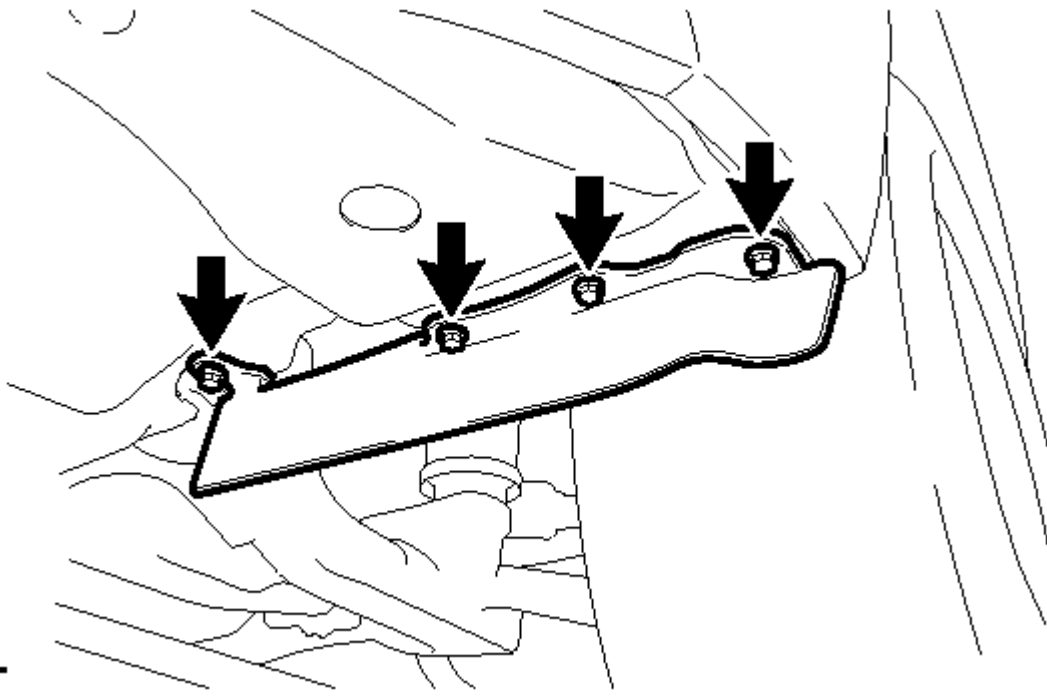
T

Fig. 4: Identifying Front Bumper Replacement Components With Torque Specifications (4 Of 4)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE FRONT WHEEL OPENING EXTENSION PAD LH



T

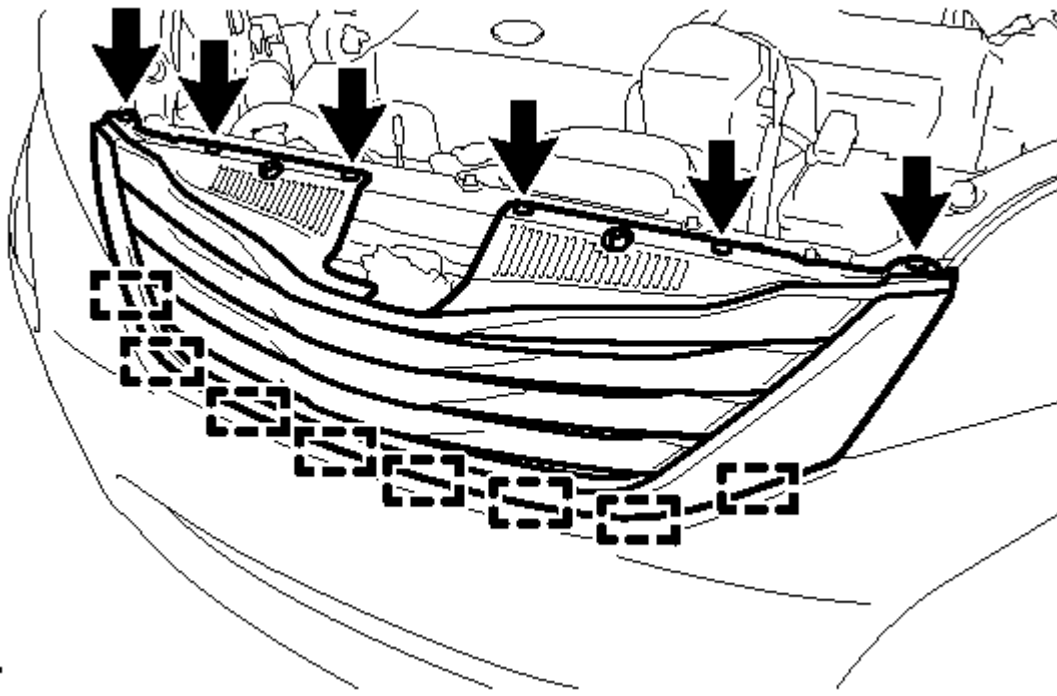
Fig. 5: Identifying Front Wheel Opening Extension Pad LH & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the 4 screws and front wheel opening extension pad.
2. **REMOVE FRONT WHEEL OPENING EXTENSION PAD RH**

HINT:

Use the same procedure as for the LH side.

3. **REMOVE RADIATOR GRILLE SUB-ASSEMBLY**

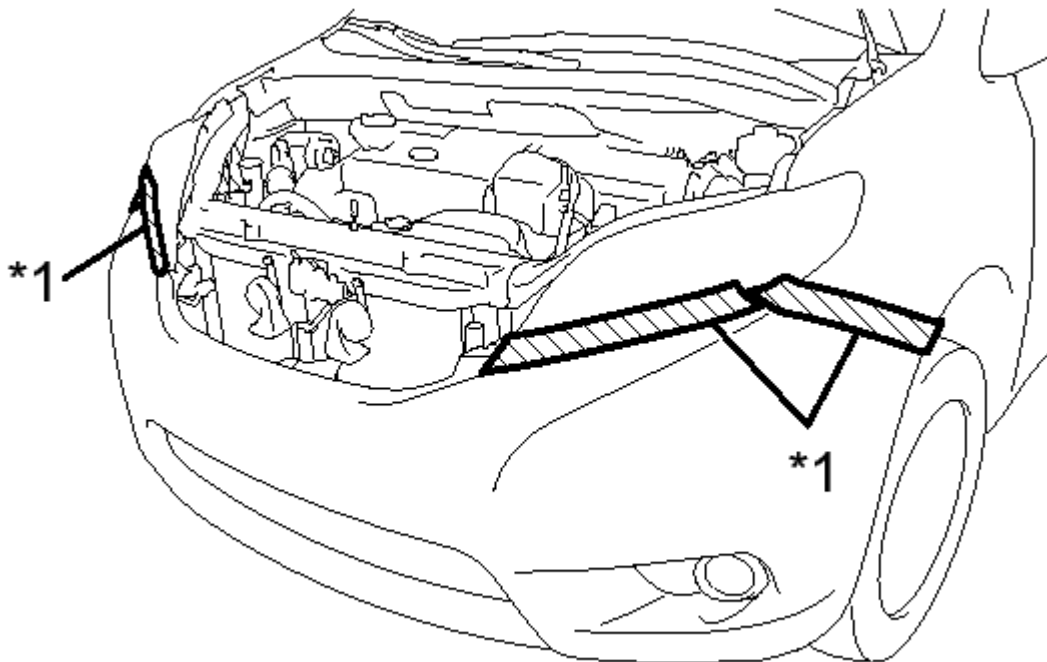


T

Fig. 6: Identifying Radiator Grille Sub-Assembly & Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the 6 clips.
- b. Disengage the 8 guides and remove the radiator grille.

4. REMOVE FRONT BUMPER COVER



T

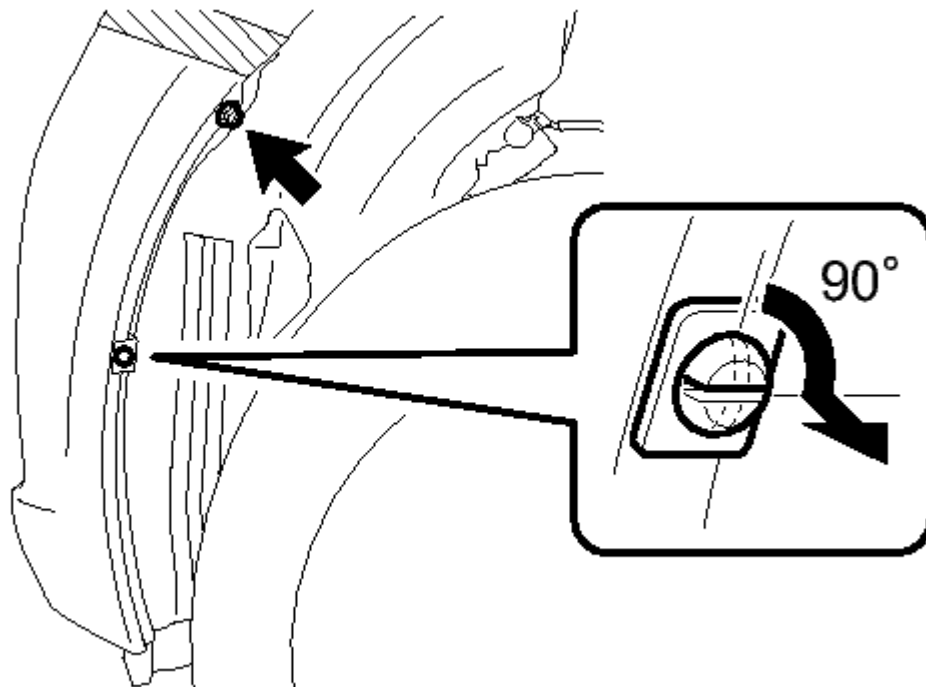
Fig. 7: Identifying Front Bumper Cover Protective Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply protective tape, as shown in the illustration.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

- b. Using a screwdriver, remove the pin hold clip.



T

Fig. 8: Removing Front Bumper Pin Hold Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

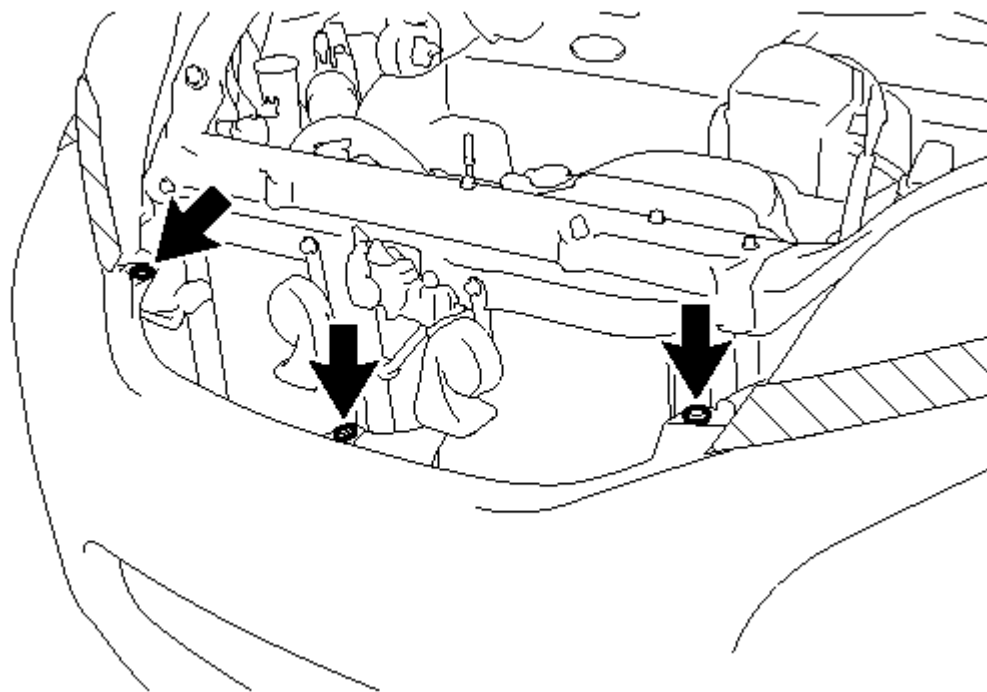
Use the same procedure for the remaining parts.

- c. Remove the screw.

HINT:

Use the same procedure for the remaining parts.

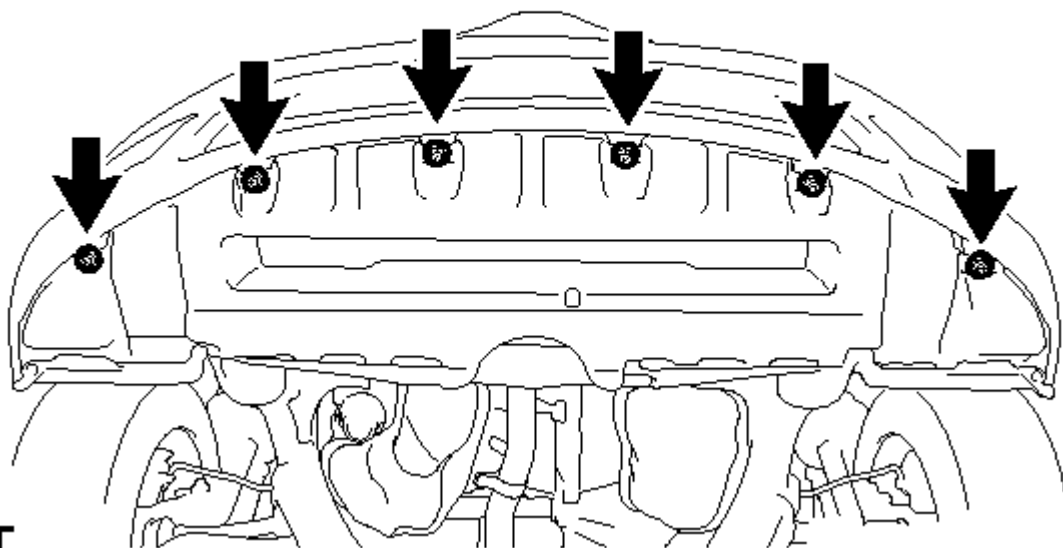
- d. Remove the 3 clips.



T

Fig. 9: Identifying Upper Front Bumper Cover Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

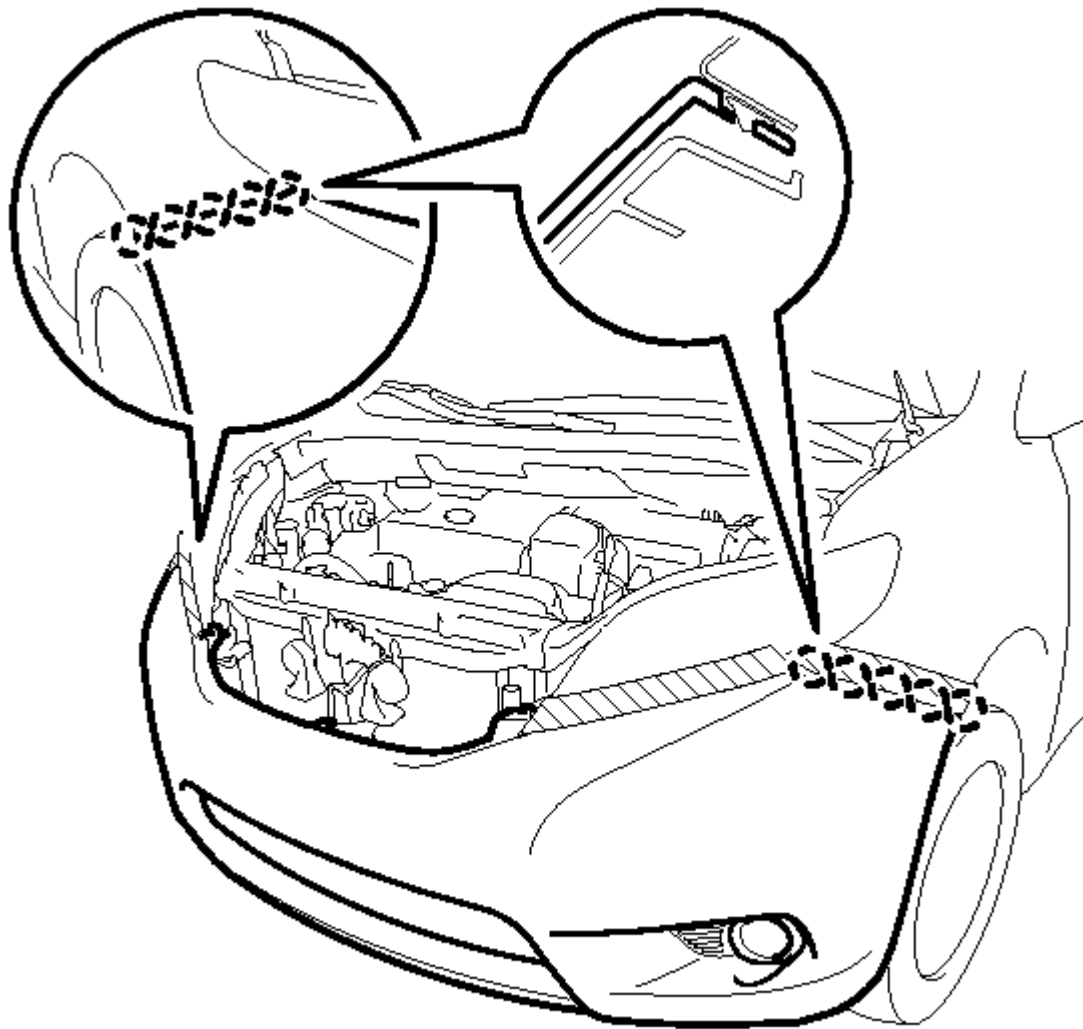
- e. Remove the 6 screws.



T

Fig. 10: Identifying Lower Front Bumper Cover Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- f. Disengage the 10 claws and remove the front bumper cover.



T

Fig. 11: Identifying Front Bumper Cover & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- g. Disconnect the connectors.

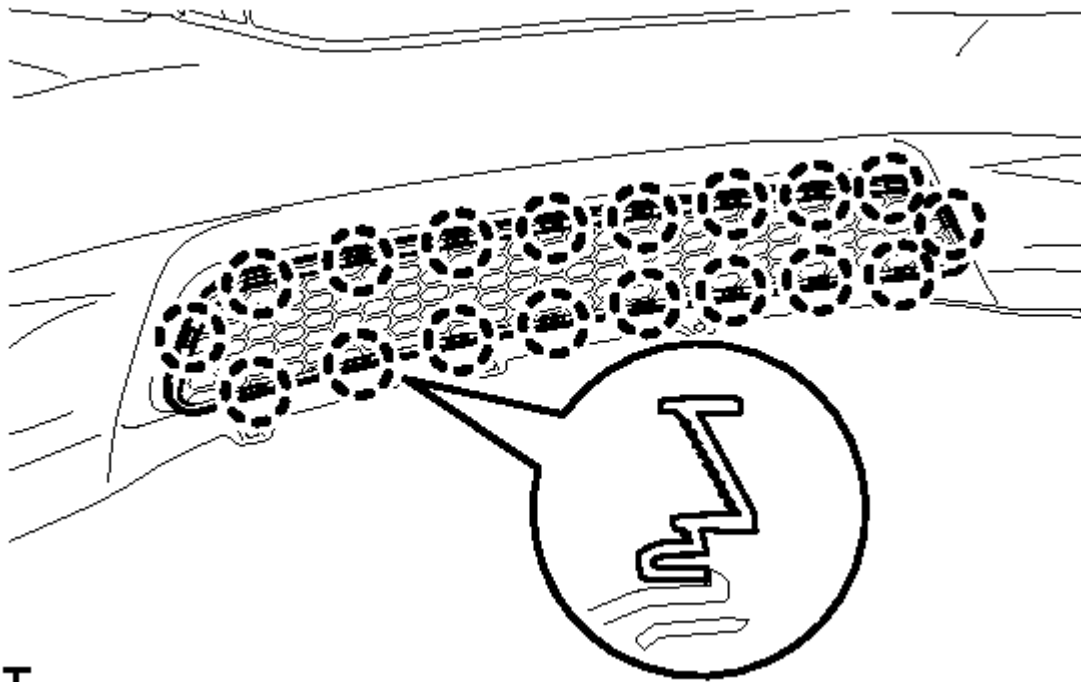
HINT:

If the vehicle is equipped with fog lights, disconnect the connector.

DISASSEMBLY

DISASSEMBLY

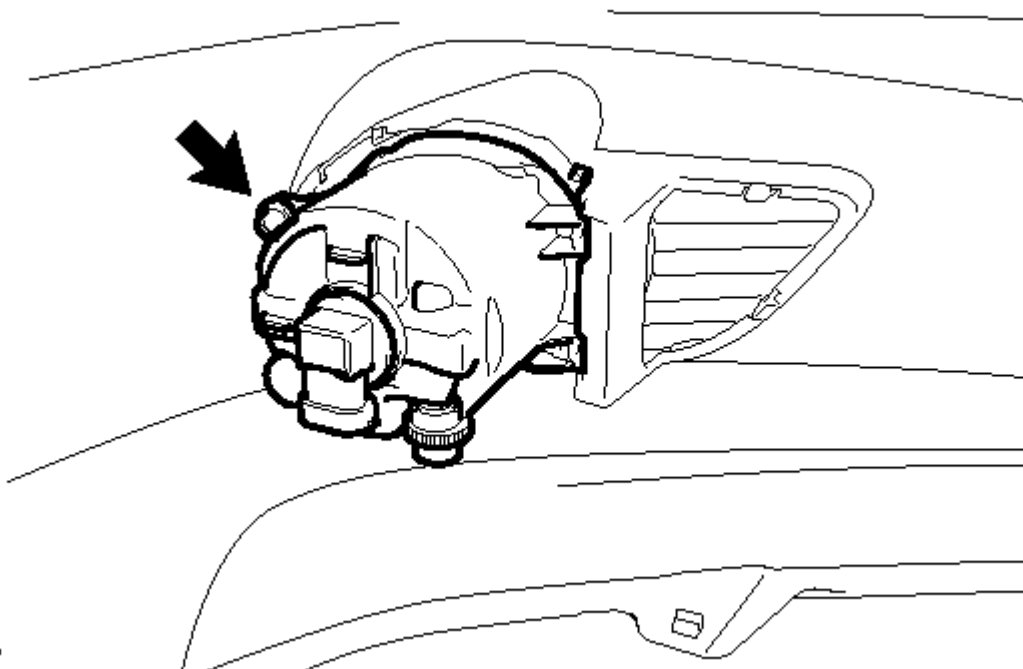
1. REMOVE NO. 1 RADIATOR LOWER GRILLE



T

Fig. 12: Remove/Install No. 1 Radiator Lower Grille & Claws
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disengage the 18 claws and remove the No. 1 radiator lower grille.
2. **REMOVE FOG LIGHT ASSEMBLY LH (w/ Fog Light)**



T

Fig. 13: Remove/Install Fog Light Assembly LH & Fastener

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

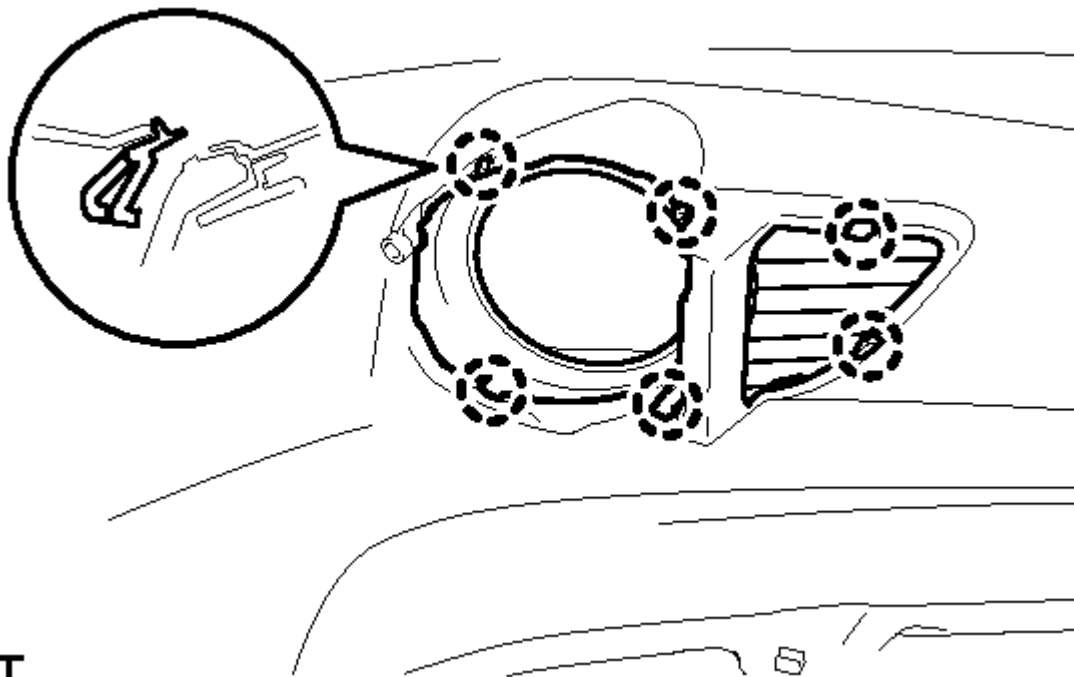
- a. Remove the screw and fog light.

3. REMOVE FOG LIGHT ASSEMBLY RH (w/ Fog Light)

HINT:

Use the same procedure as for the LH side.

4. REMOVE FRONT BUMPER HOLE COVER LH



T

Fig. 14: Remove/Install Front Bumper Hole Cover LH & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

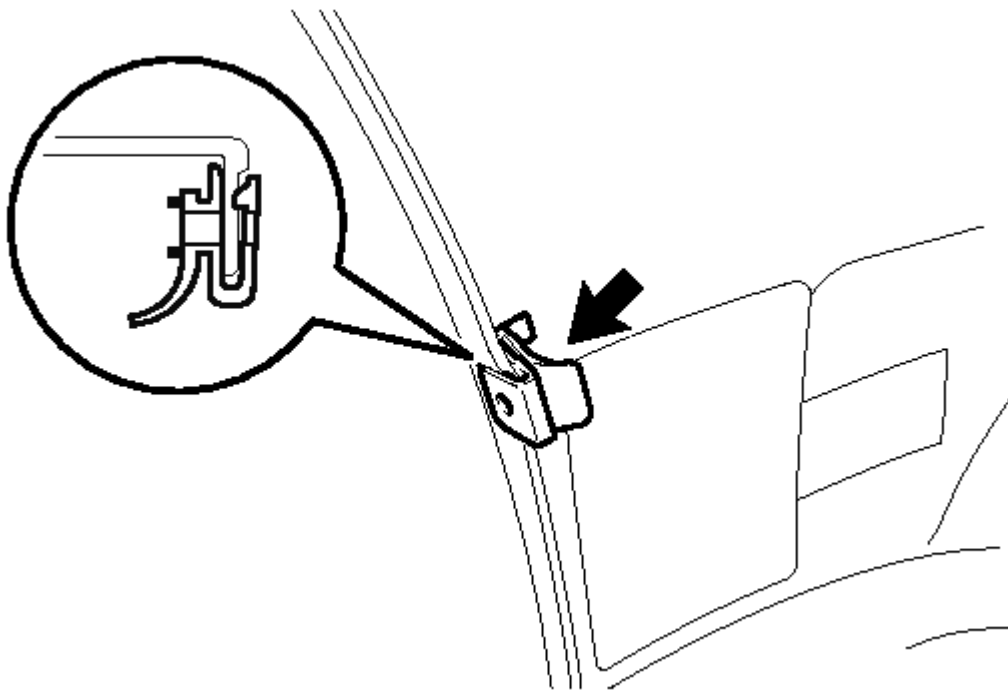
- a. Disengage the 6 claws and remove the front bumper hole cover.

5. REMOVE FRONT BUMPER HOLE COVER RH

HINT:

Use the same procedure as for the LH side.

6. REMOVE FRONT FENDER LINER RETAINER



T

Fig. 15: Remove/Install Front Fender Liner Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the front fender liner retainer.

HINT:

Use the same procedure for the remaining parts.

7. **REMOVE NO. 1 ULTRASONIC SENSOR (w/ Intuitive Parking Assist System)** . Refer to **REMOVAL - Step 2**
8. **REMOVE NO. 2 ULTRASONIC SENSOR RETAINER (w/ Intuitive Parking Assist System)** . Refer to **REMOVAL - Step 3**
9. **REMOVE FRONT BUMPER SIDE SUPPORT LH**

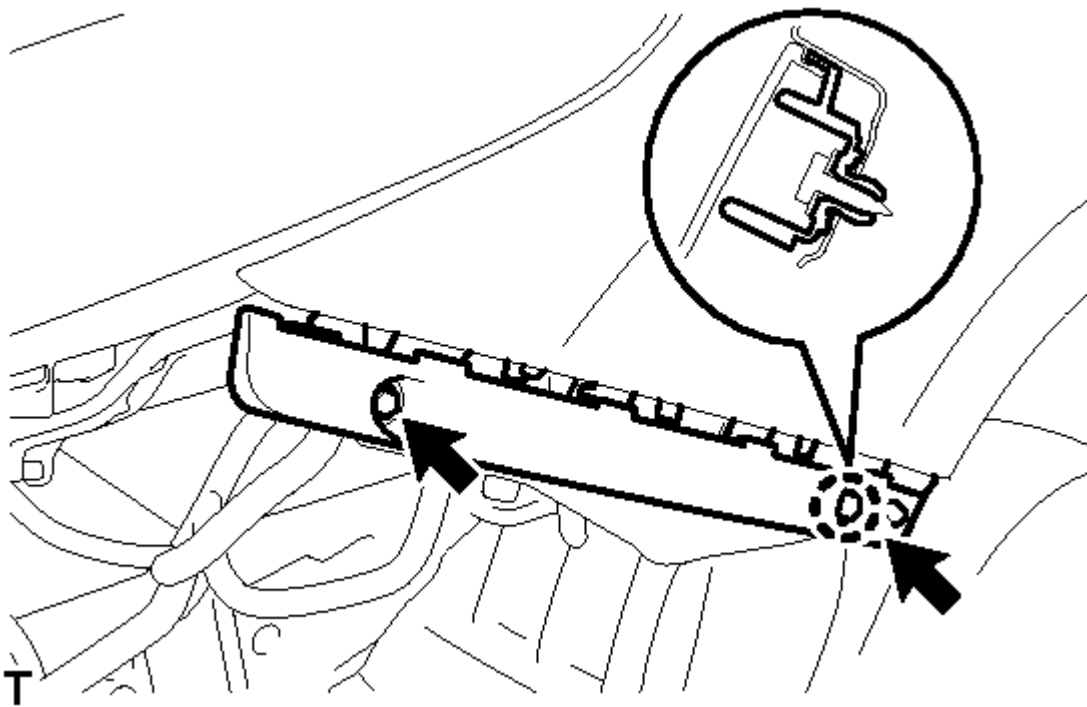


Fig. 16: Remove/Install Front Bumper Side Support LH & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

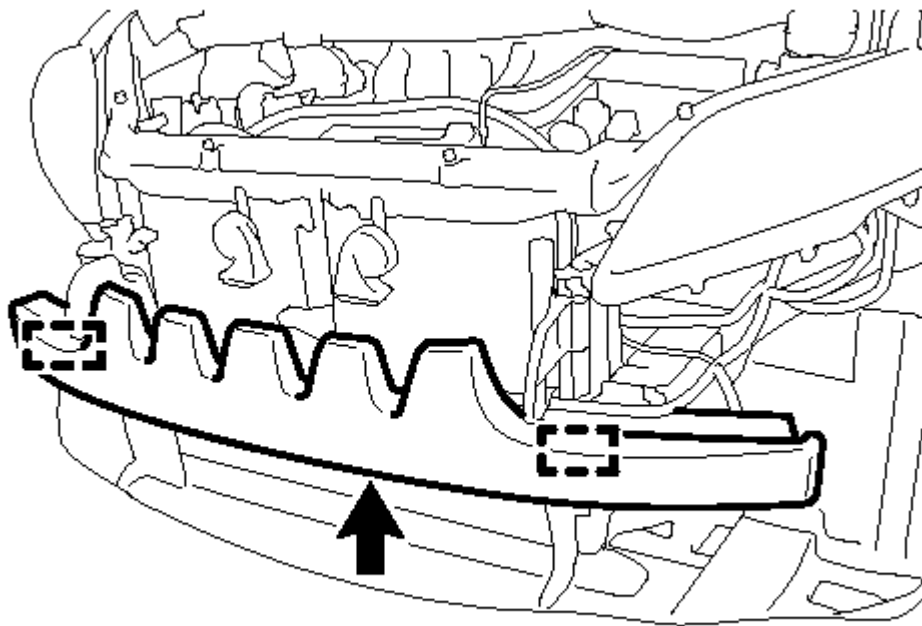
- a. Remove the 2 screws.
- b. Disengage the claw and remove the front bumper side support.

10. REMOVE FRONT BUMPER SIDE SUPPORT RH

HINT:

Use the same procedure as for the LH side.

11. REMOVE FRONT BUMPER ENERGY ABSORBER

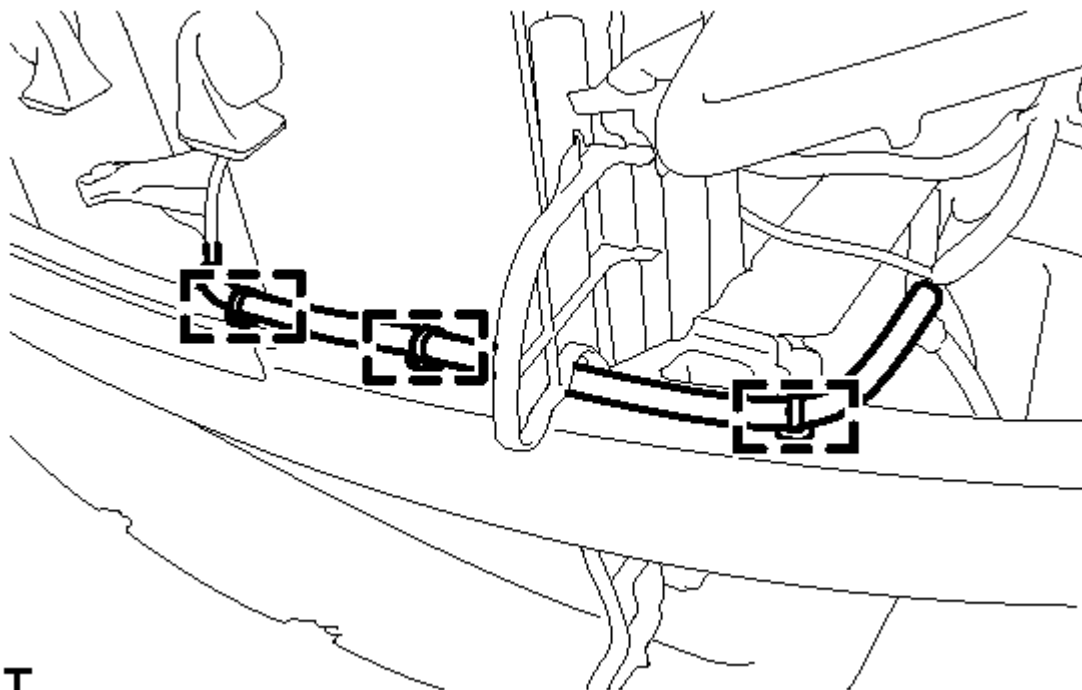


T

Fig. 17: Remove/Install Front Bumper Energy Absorber & Guides
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disengage the 2 guides and remove the front bumper energy absorber.

12. REMOVE FRONT BUMPER REINFORCEMENT SUB-ASSEMBLY

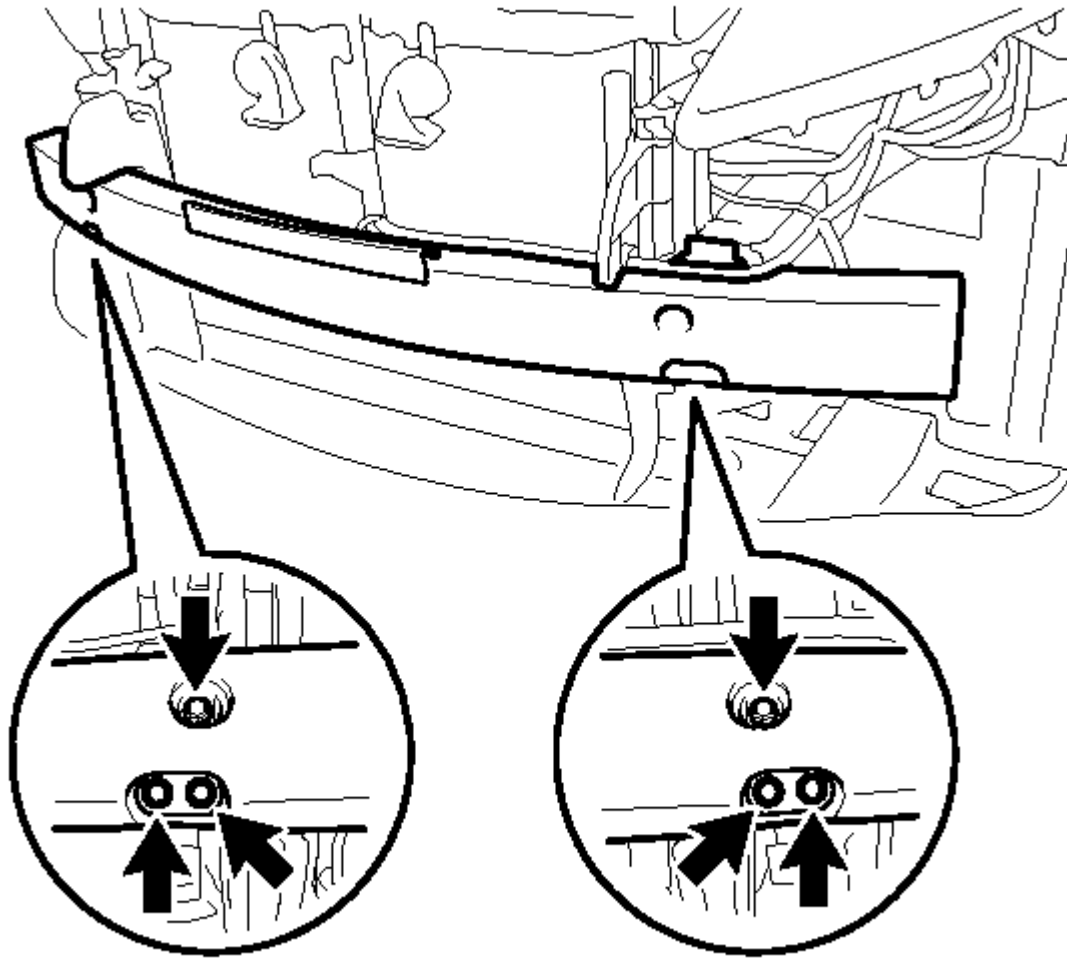


T

Fig. 18: Remove/Install Front Bumper Reinforcement Sub-Assembly Harness Clamps

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

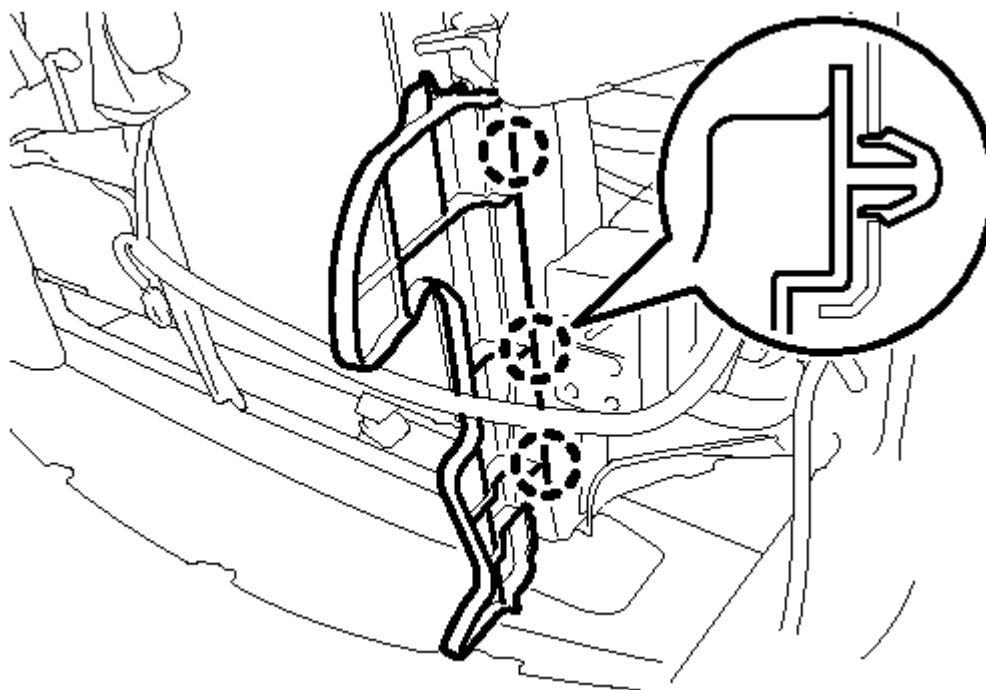
- a. Disengage the 3 clamps and disconnect the wire harness.
- b. Remove the 6 bolts and front bumper reinforcement.



T

Fig. 19: Remove/Install Front Bumper Reinforcement Sub-Assembly & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

13. REMOVE RADIATOR SIDE DEFLECTOR LH



T

Fig. 20: Remove/Install Radiator Side Deflector LH & Claws

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

- a. Disengage the 3 claws and remove the radiator side deflector.

14. REMOVE RADIATOR SIDE DEFLECTOR RH

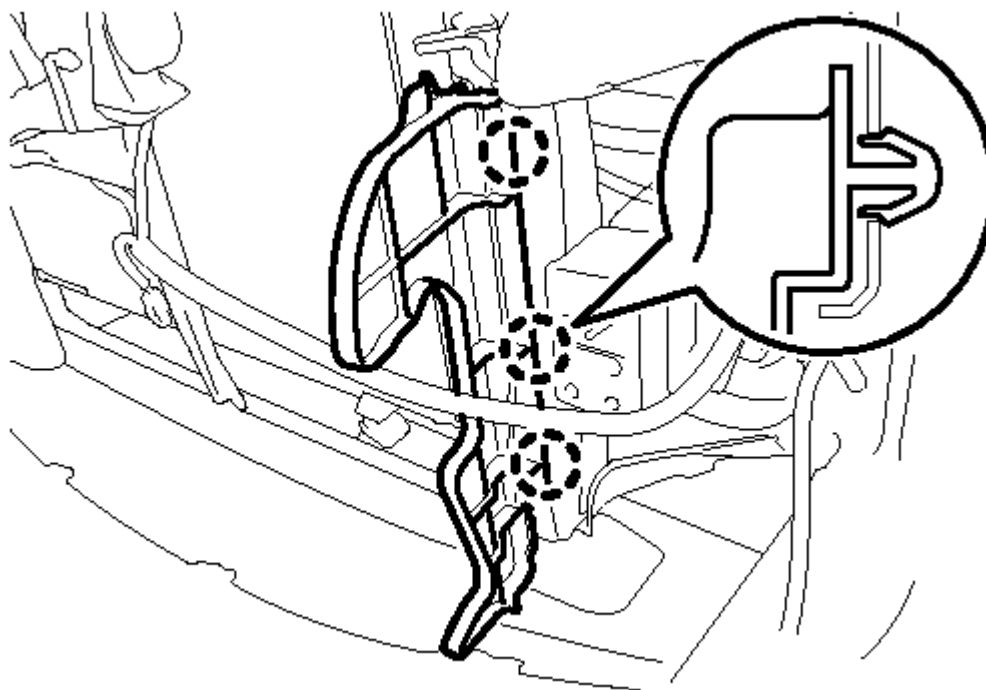
HINT:

Use the same procedure as for the LH side.

REASSEMBLY

REASSEMBLY

1. INSTALL RADIATOR SIDE DEFLECTOR LH



T

Fig. 21: Remove/Install Radiator Side Deflector LH & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

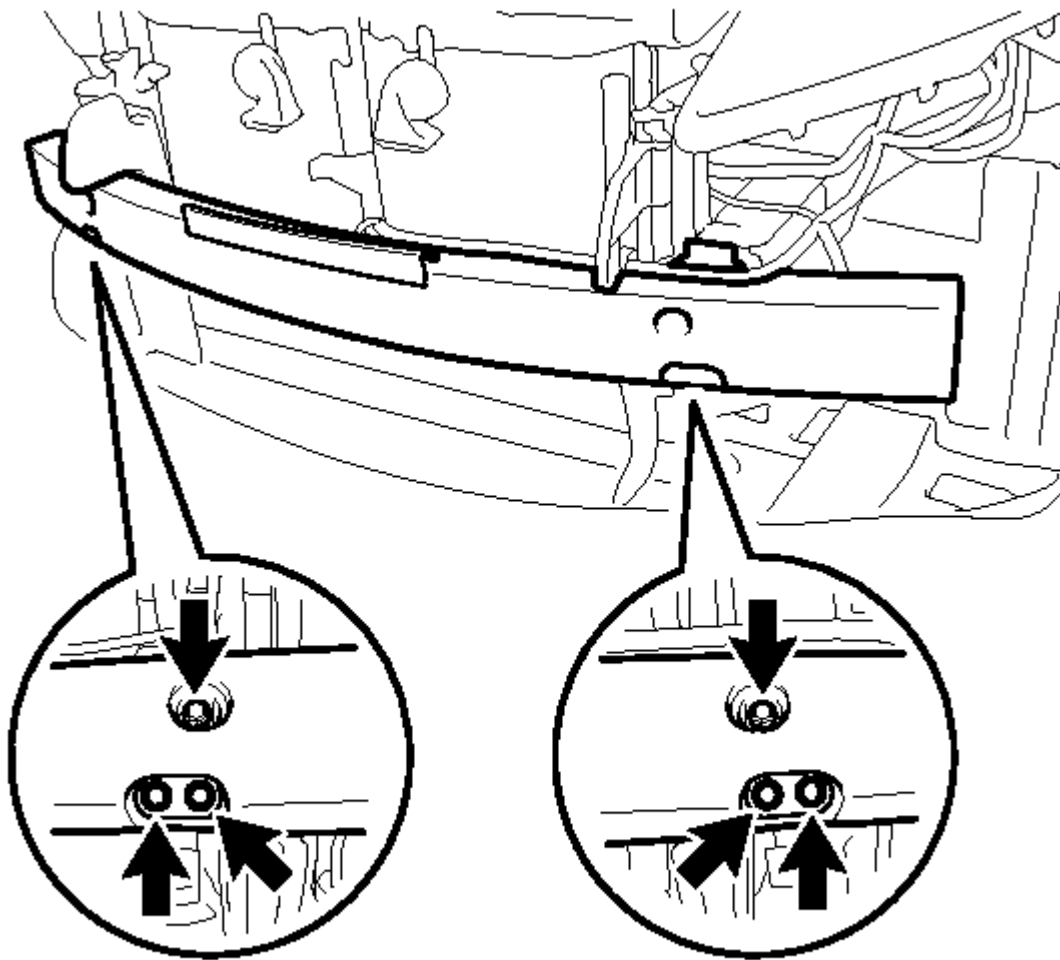
- a. Engage the 3 claws and install the radiator side deflector.

2. INSTALL RADIATOR SIDE DEFLECTOR RH

HINT:

Use the same procedure as for the LH side.

3. INSTALL FRONT BUMPER REINFORCEMENT SUB-ASSEMBLY



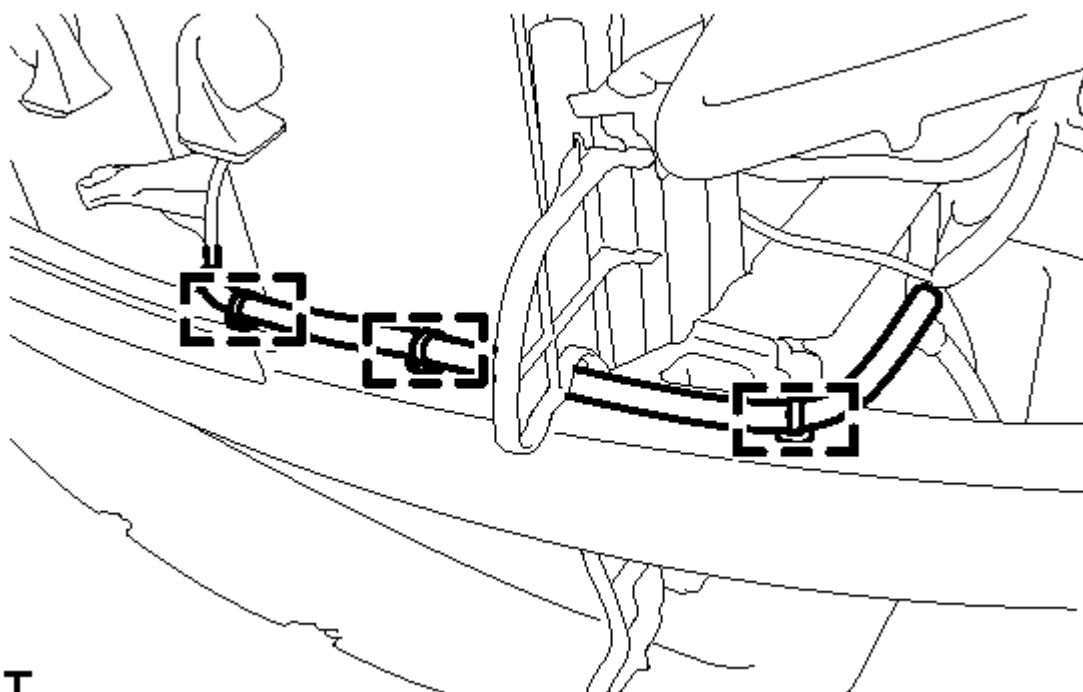
T

Fig. 22: Remove/Install Front Bumper Reinforcement Sub-Assembly & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Install the front bumper reinforcement with the 6 bolts.

Torque: 50 N*m (510 kgf*cm, 37 ft.*lbf)

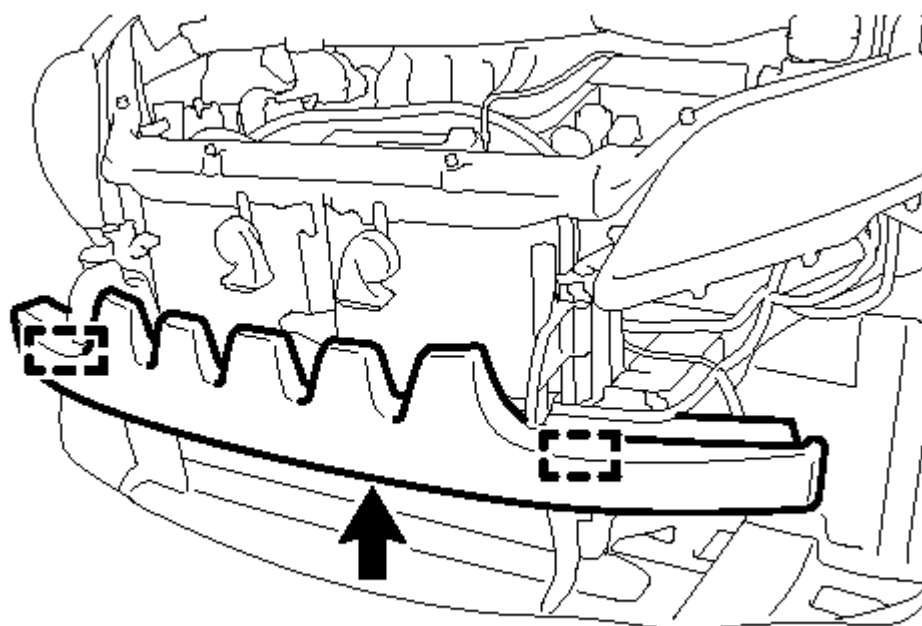
- b. Engage the 3 clamps and install the wire harness.



T

Fig. 23: Remove/Install Front Bumper Reinforcement Sub-Assembly Harness Clamps
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. INSTALL FRONT BUMPER ENERGY ABSORBER



T

Fig. 24: Remove/Install Front Bumper Energy Absorber & Guides
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Engage the 2 guides and install the front bumper energy absorber.

5. INSTALL FRONT BUMPER SIDE SUPPORT LH

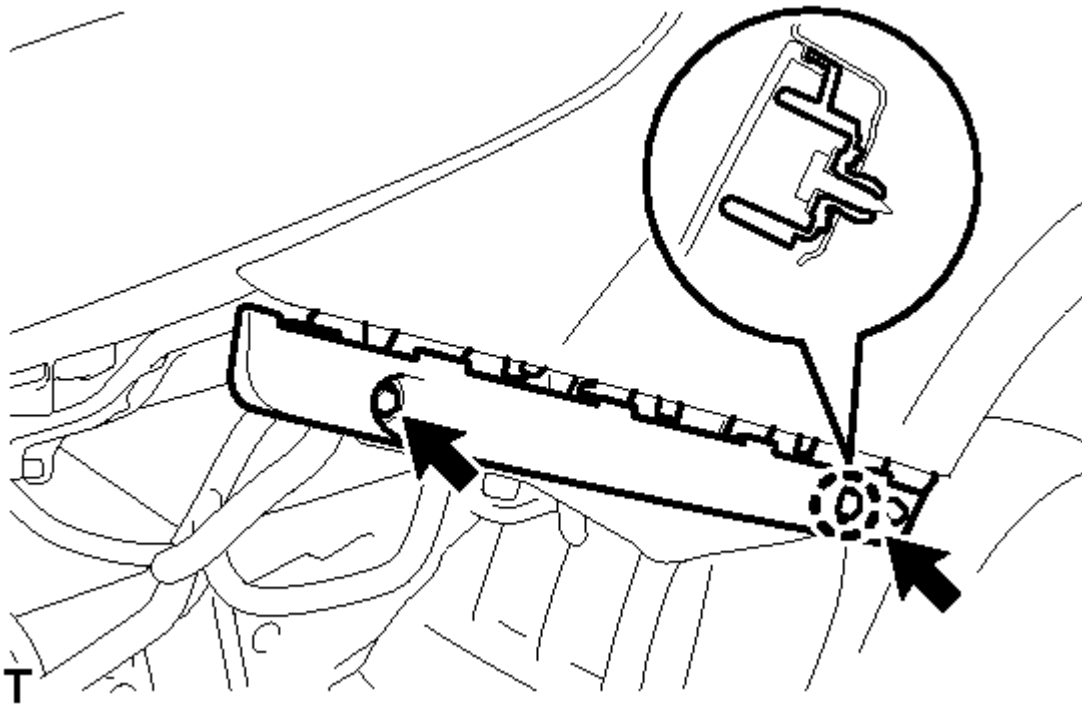


Fig. 25: Remove/Install Front Bumper Side Support LH & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

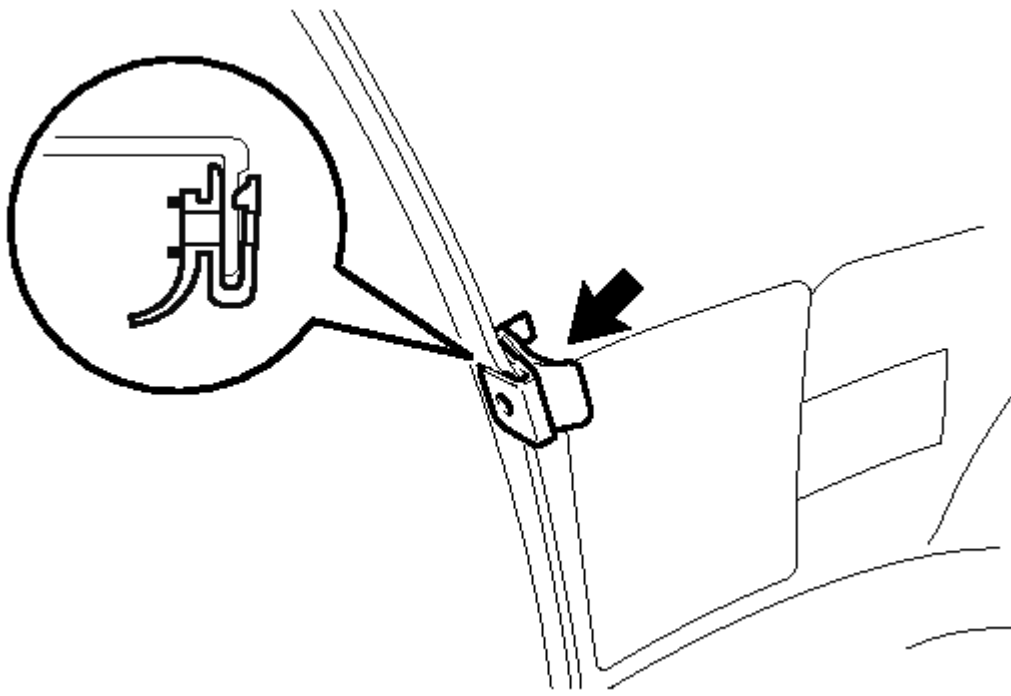
- a. Engage the claw and install the front bumper side support.
- b. Tighten the 2 screws.

6. INSTALL FRONT BUMPER SIDE SUPPORT RH

HINT:

Use the same procedure as for the LH side.

7. **INSTALL NO. 2 ULTRASONIC SENSOR RETAINER (w/ Intuitive Parking Assist System)** . Refer to INSTALLATION - Step 1
8. **INSTALL NO. 1 ULTRASONIC SENSOR (w/ Intuitive Parking Assist System)** . Refer to INSTALLATION - Step 2
9. **INSTALL FRONT FENDER LINER RETAINER**



T

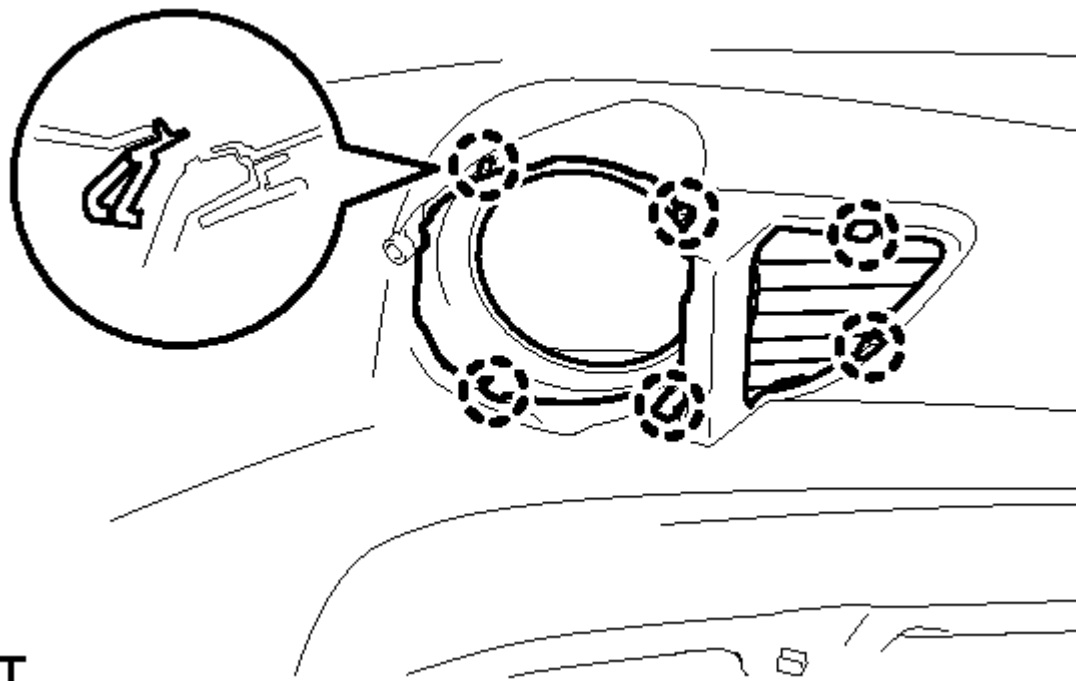
Fig. 26: Remove/Install Front Fender Liner Retainer
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Install the front fender liner retainer.

HINT:

Use the same procedure for the remaining parts.

10. INSTALL FRONT BUMPER HOLE COVER LH



T

Fig. 27: Remove/Install Front Bumper Hole Cover LH & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

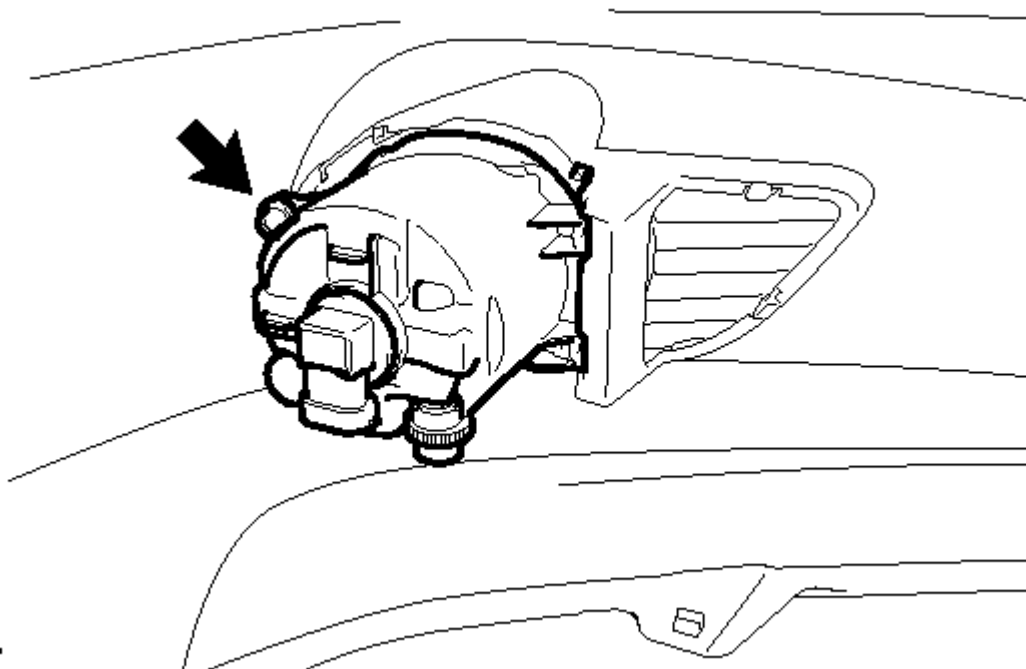
- a. Engage the 6 claws and install the front bumper hole cover.

11. INSTALL FRONT BUMPER HOLE COVER RH

HINT:

Use the same procedure as for the LH side.

12. INSTALL FOG LIGHT ASSEMBLY LH



T

Fig. 28: Remove/Install Fog Light Assembly LH & Fastener
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

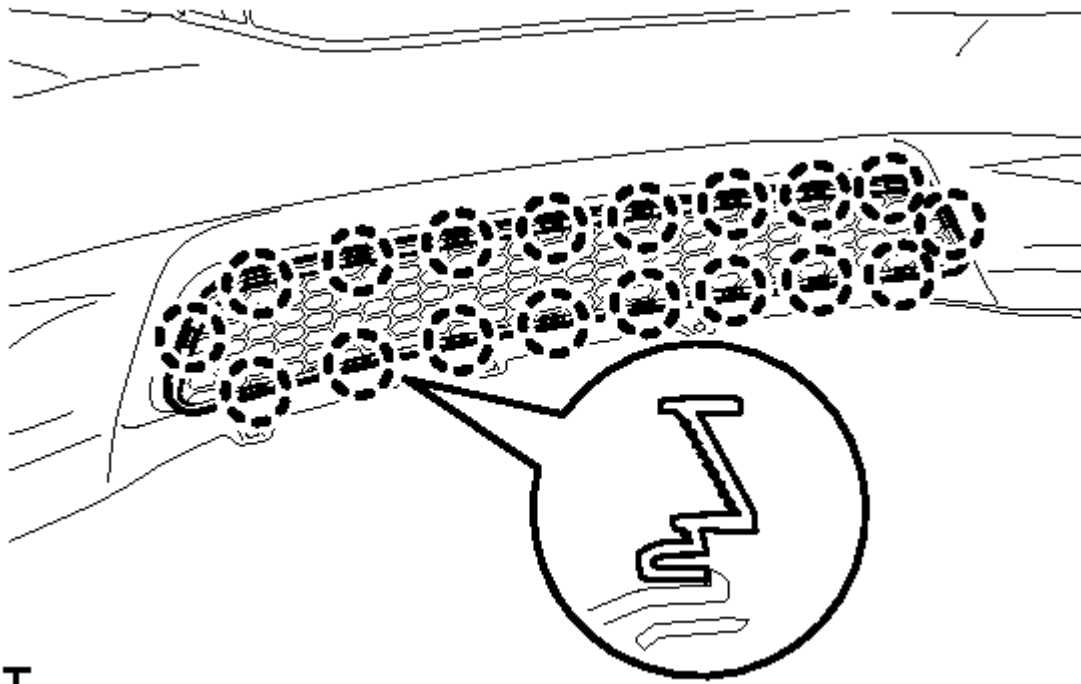
- a. Install the fog light with the screw.

13. INSTALL FOG LIGHT ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

14. INSTALL NO. 1 RADIATOR LOWER GRILLE



T

Fig. 29: Remove/Install No. 1 Radiator Lower Grille & Claws
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Engage the 18 claws and install the No. 1 radiator lower grille.

INSTALLATION

INSTALLATION

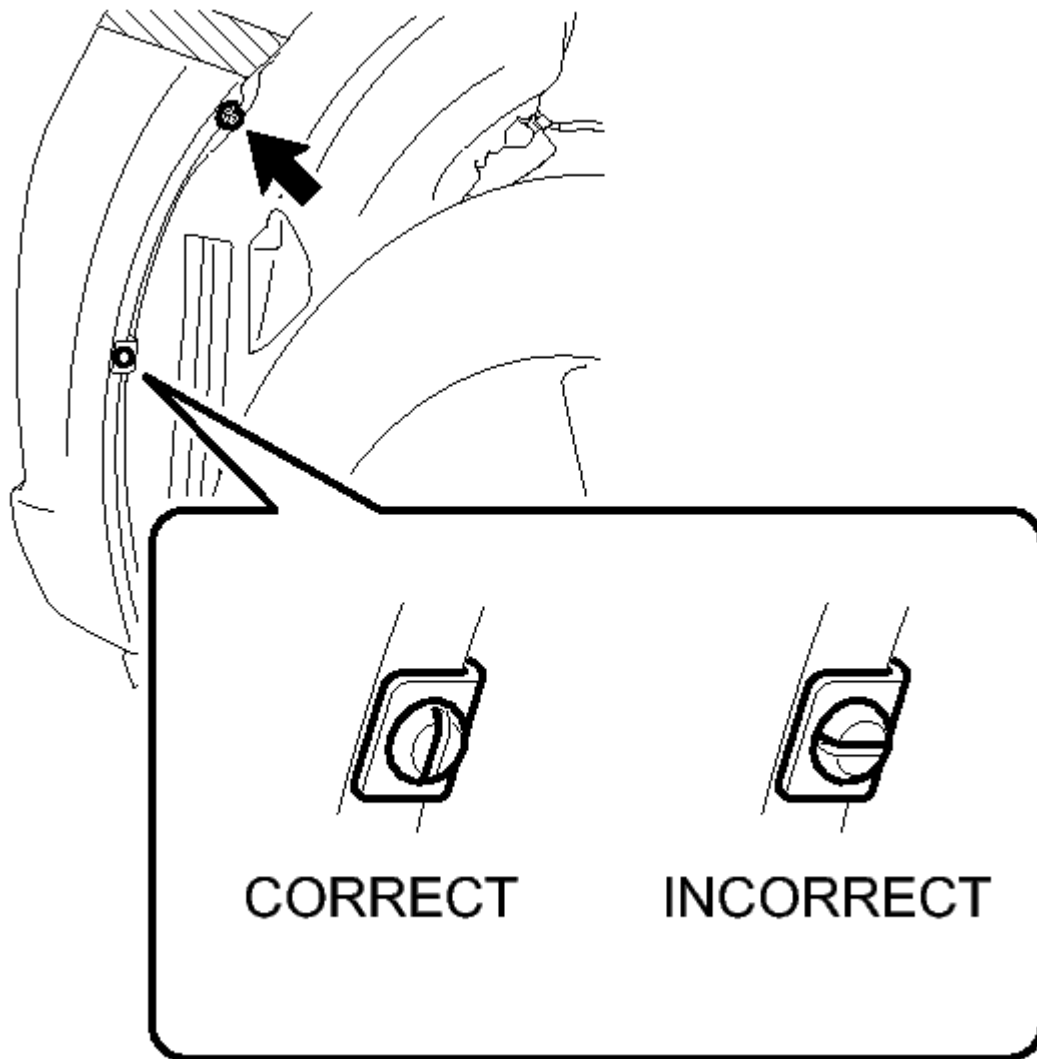
1. INSTALL FRONT BUMPER COVER

- a. Engage the 10 claws and install the front bumper cover
- b. Connect the connectors.

HINT:

If the vehicle is equipped with fog lights, connect the connector.

- c. Tighten the 6 screws.
- d. Install the 3 clips.
- e. Install the pin hold clip.



T

Fig. 30: Identifying Pin Hold Clip Alignment

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

NOTE: Insert the pin hold clip with the slot aligned vertically. Do not rotate the clip after inserting it. After installation, confirm that the slot is vertical.

HINT:

Use the same procedure for the remaining part.

- f. Install the screw.

HINT:

Use the same procedure for the remaining part.

2. INSTALL RADIATOR GRILLE SUB-ASSEMBLY

- a. Engage the 8 guides and install the radiator grille.
- b. Install the 6 clips.

3. INSTALL FRONT WHEEL OPENING EXTENSION PAD LH

- a. Install the front wheel opening extension pad with the 4 screws.

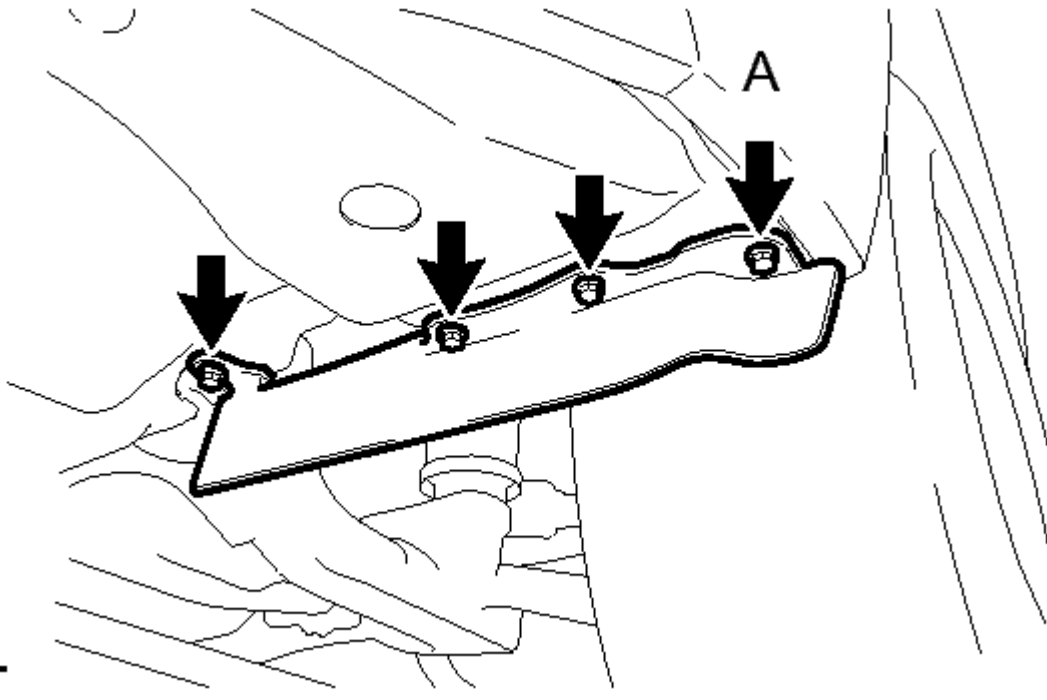


Fig. 31: Identifying Front Wheel Opening Extension Pad LH & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Torque: 7.0 N*m (71 kgf*cm, 62 in.*lbf)

for screw A

4. INSTALL FRONT WHEEL OPENING EXTENSION PAD RH

HINT:

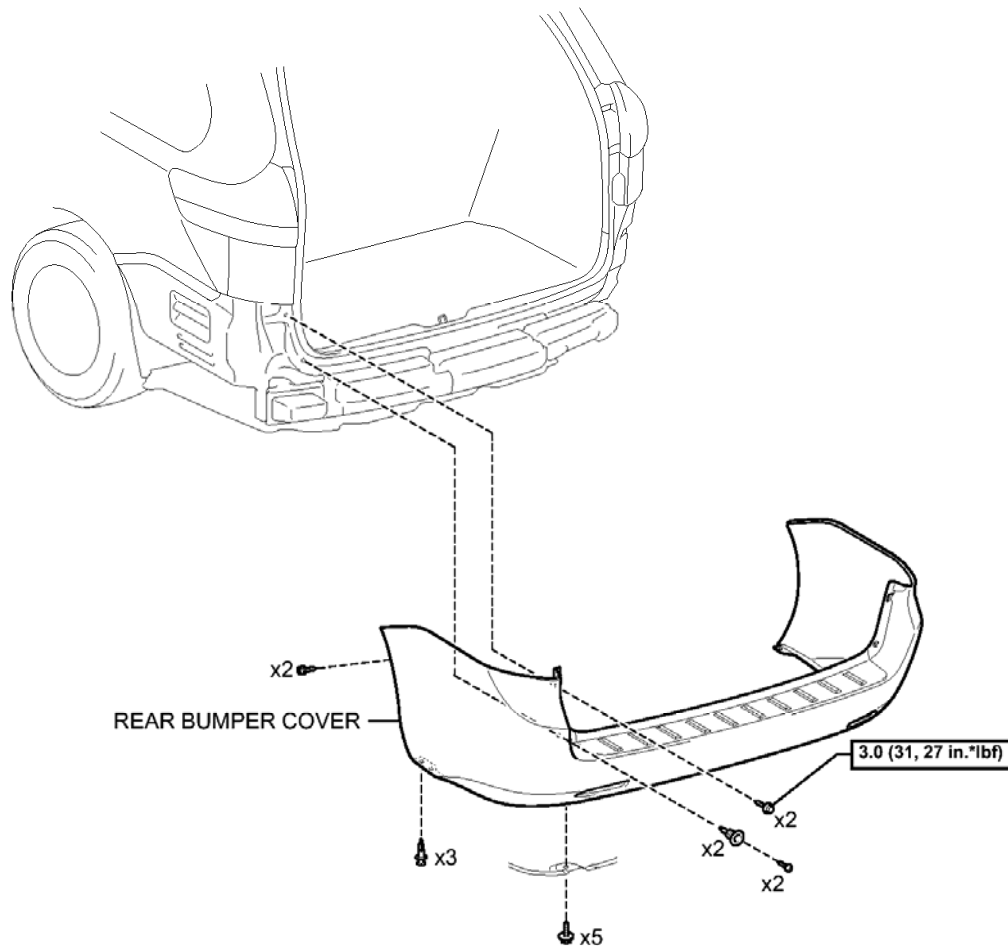
Use the same procedure as for the LH side.

5. **PREPARE VEHICLE FOR FOG LIGHT AIMING ADJUSTMENT (w/ Fog Light)** . Refer to **ADJUSTMENT - Step 1**
6. **PREPARE FOR FOG LIGHT AIMING (w/ Fog Light)** . Refer to **ADJUSTMENT - Step 2**
7. **INSPECT FOG LIGHT AIMING (w/ Fog Light)** . Refer to **ADJUSTMENT - Step 3**
8. **ADJUST FOG LIGHT AIMING (w/ Fog Light)** . Refer to **ADJUSTMENT - Step 4**

REAR BUMPER

COMPONENTS

ILLUSTRATION



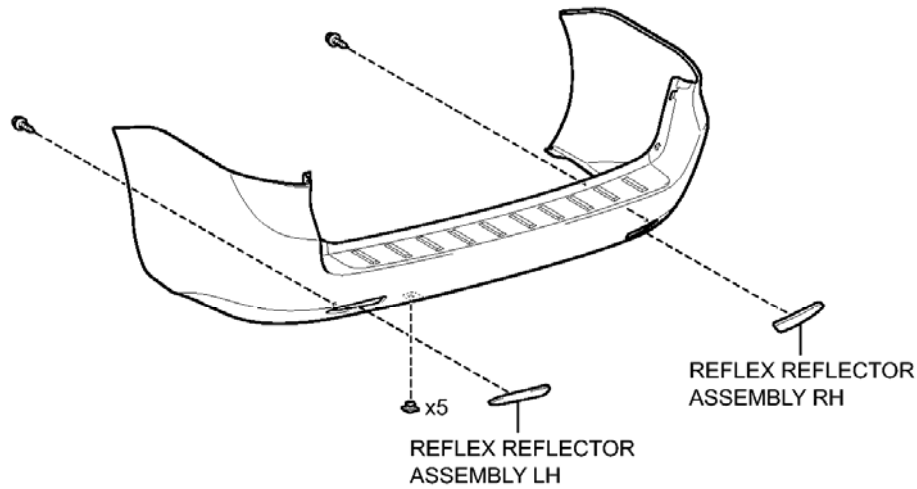
$\boxed{\text{N}^*\text{m (kgf}^*\text{cm, ft.}^*\text{lbf)}}$: Specified torque

T

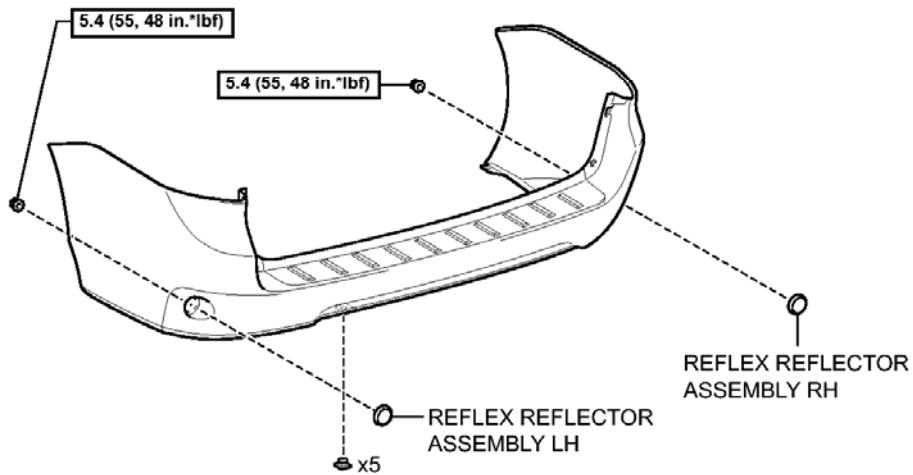
Fig. 32: Rear Bumper Replacement Components With Torque Specifications (1 of 4)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION

except Sport Package:



for Sport Package:

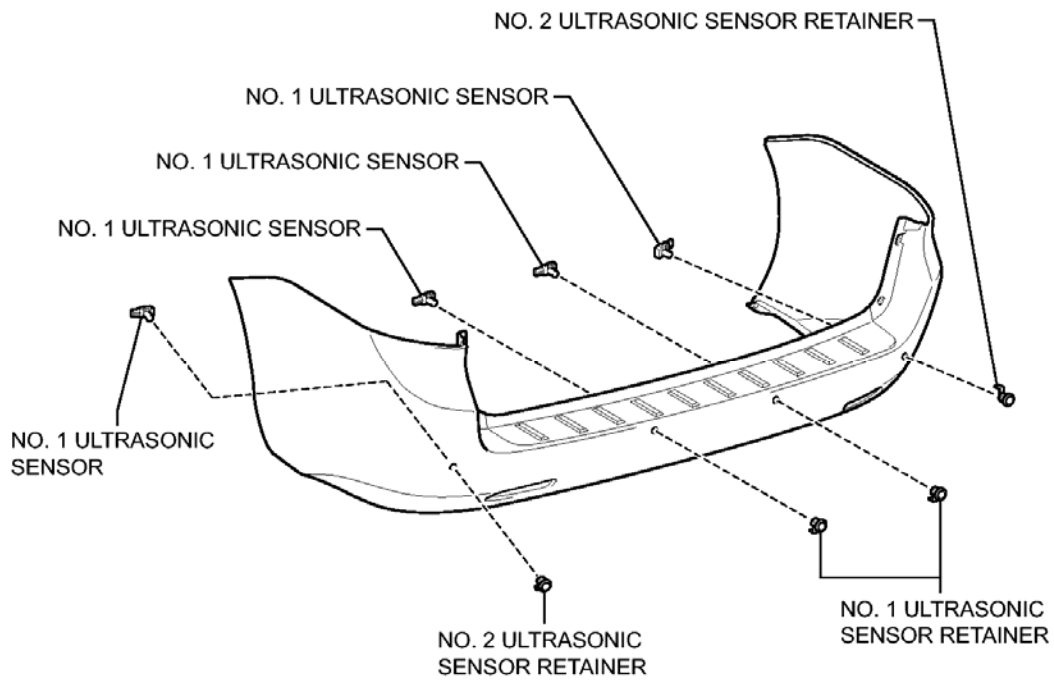


N*m (kgf*cm, ft.*lbf): Specified torque

Fig. 33: Rear Bumper Replacement Components With Torque Specifications (2 of 4)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION

w/ Intuitive Parking Assist System:



T

Fig. 34: Rear Bumper Replacement Components (3 Of 4)

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

ILLUSTRATION

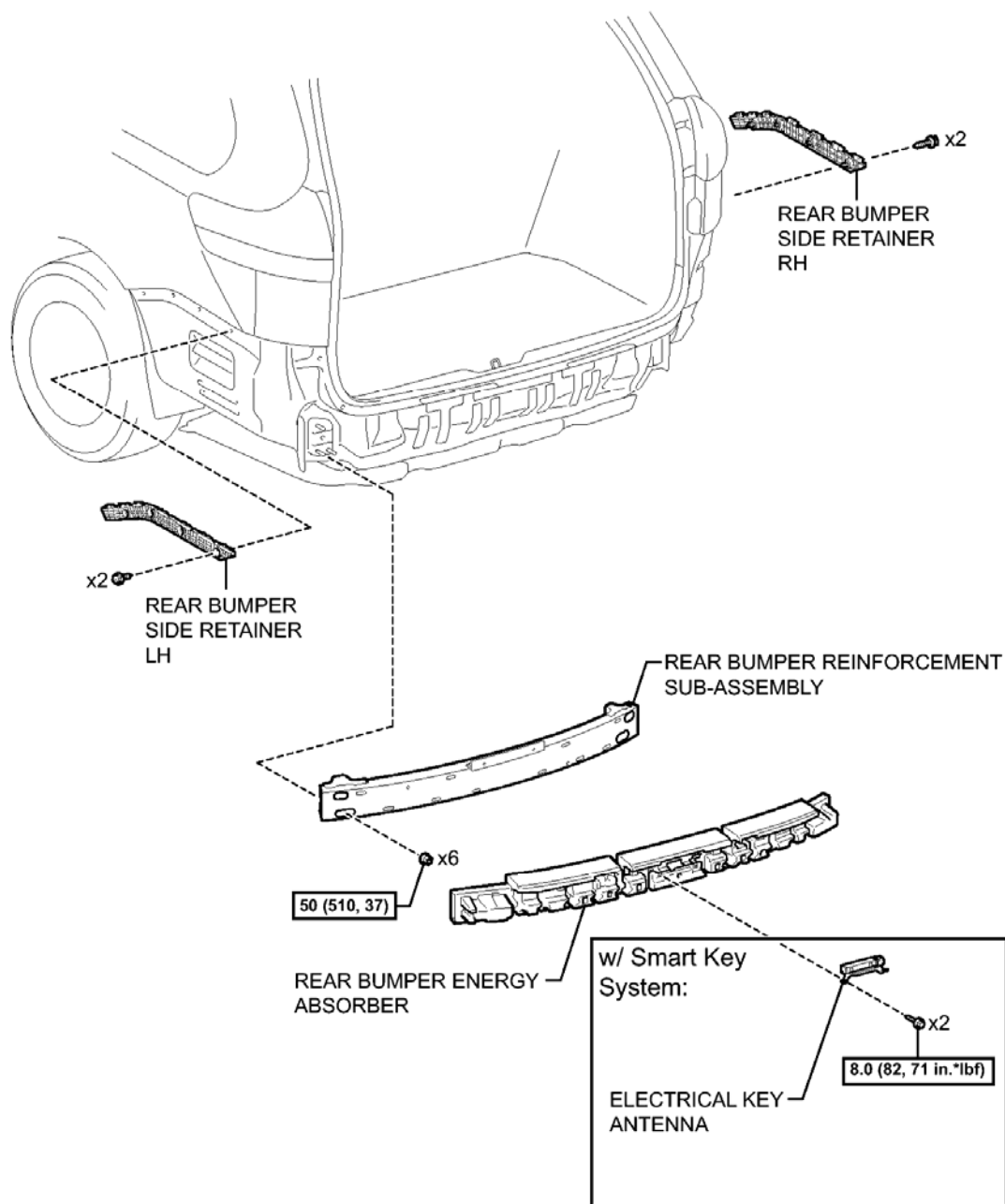


Fig. 35: Rear Bumper Replacement Components With Torque Specifications (4 Of 4)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE REAR BUMPER COVER

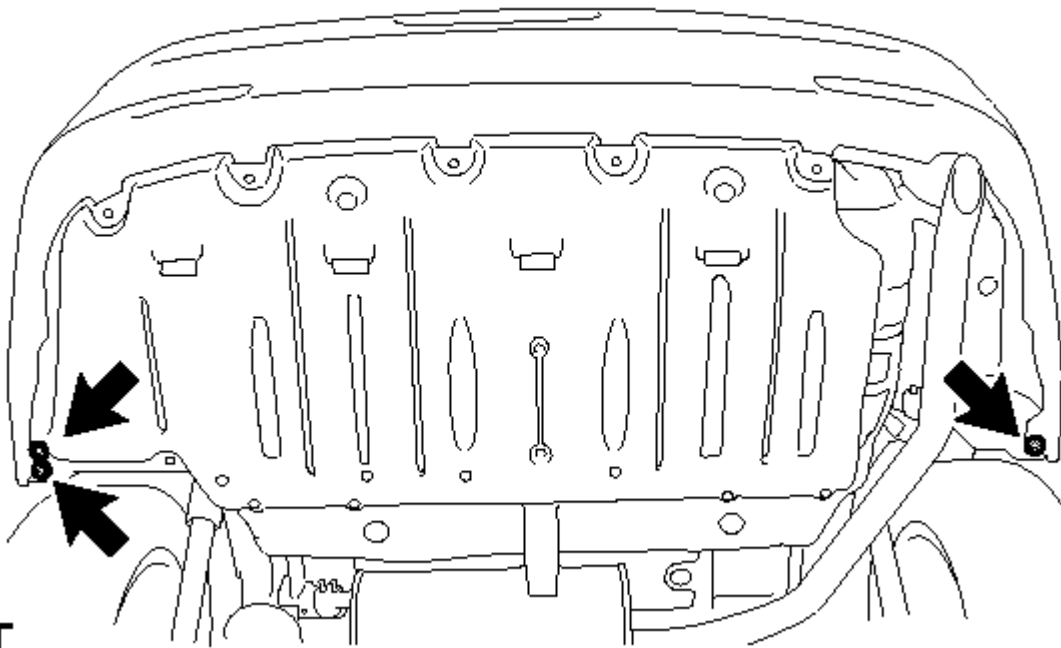
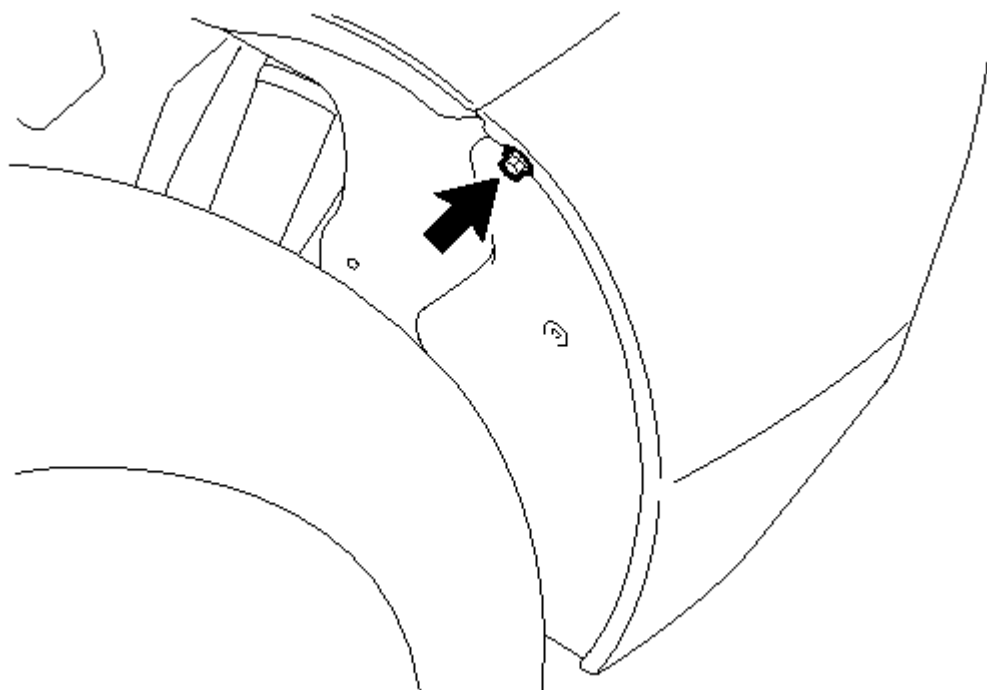


Fig. 36: Identifying Rear Bumper Cover Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the 3 clips.
- b. Remove the screw.



T

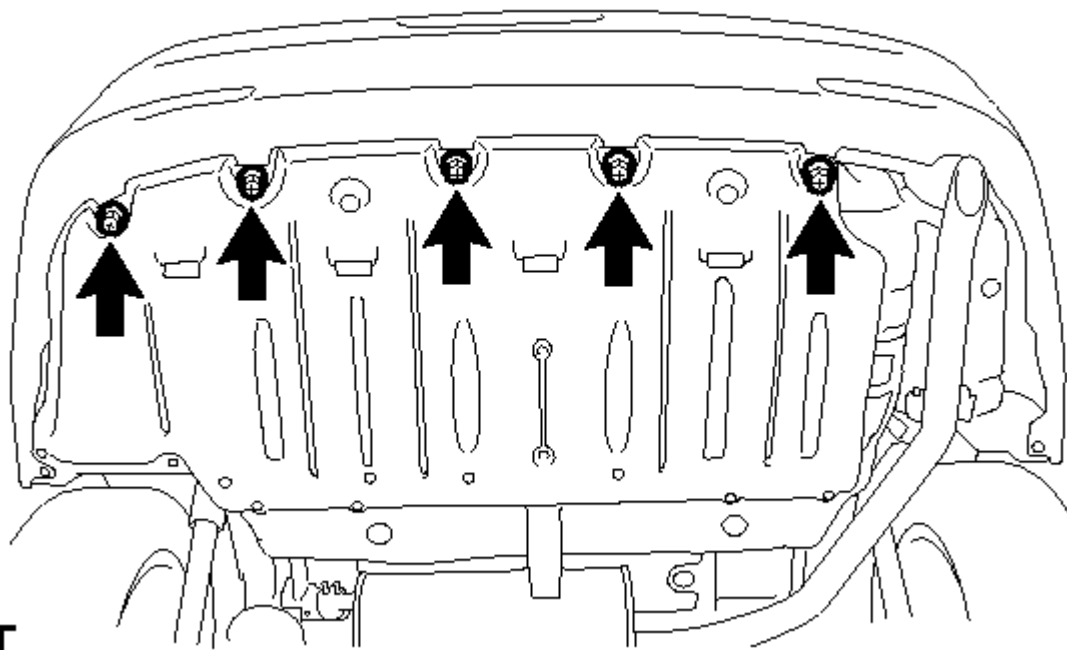
Fig. 37: Identifying Rear Bumper Fastener

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

HINT:

Use the same procedure for the remaining parts.

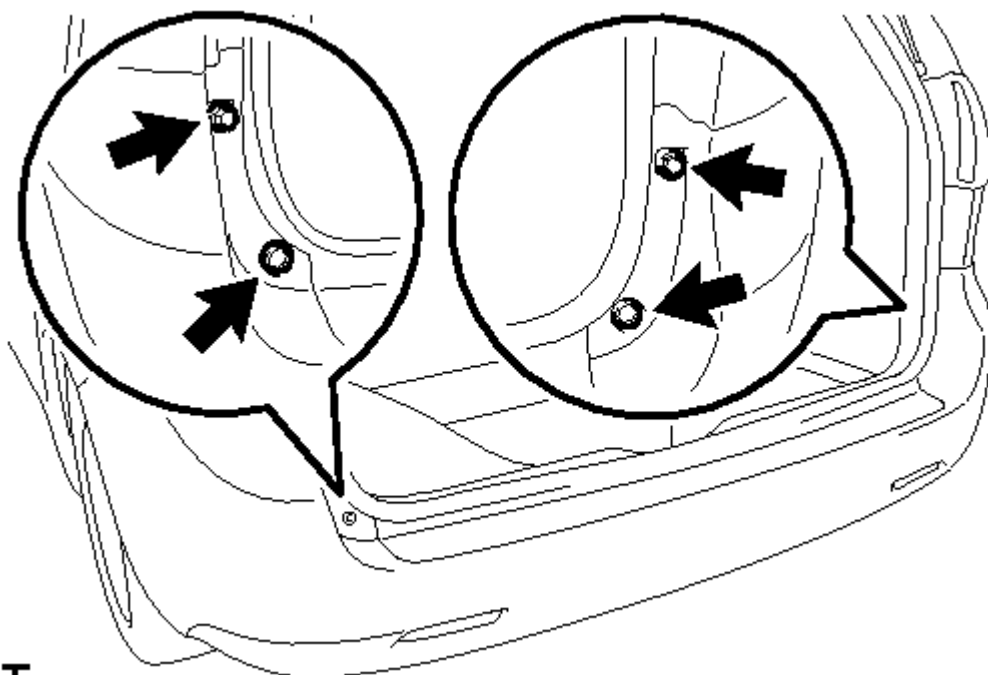
- c. Remove the 5 screws.



T

Fig. 38: Identifying Lower Rear Bumper Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

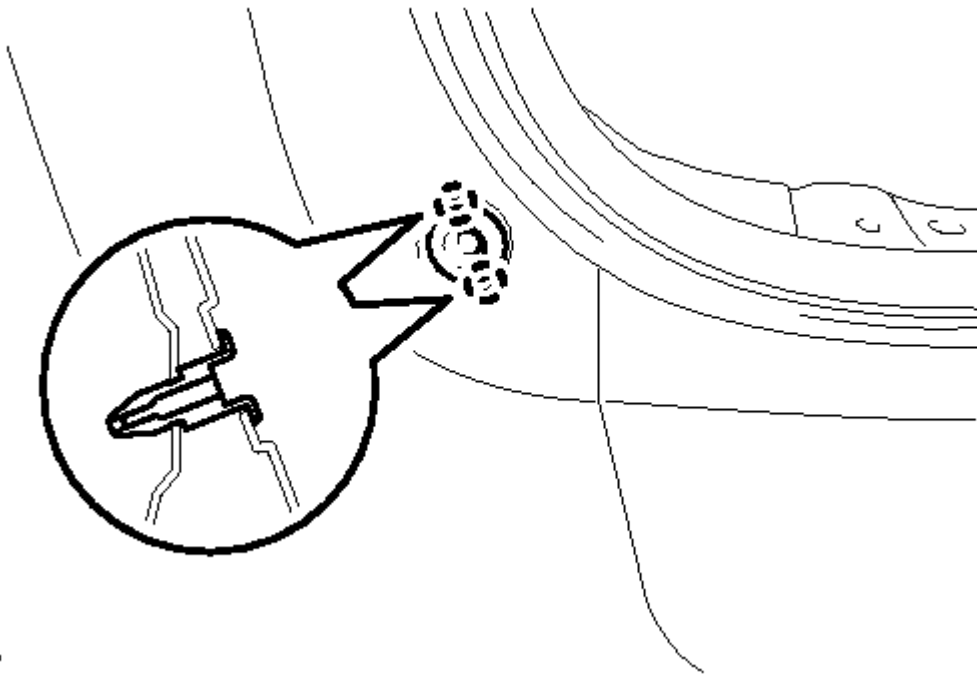
- d. Remove the 2 bolts and 2 screws.



T

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

- e. Disengage the 2 claws and remove the rear bumper upper stopper.



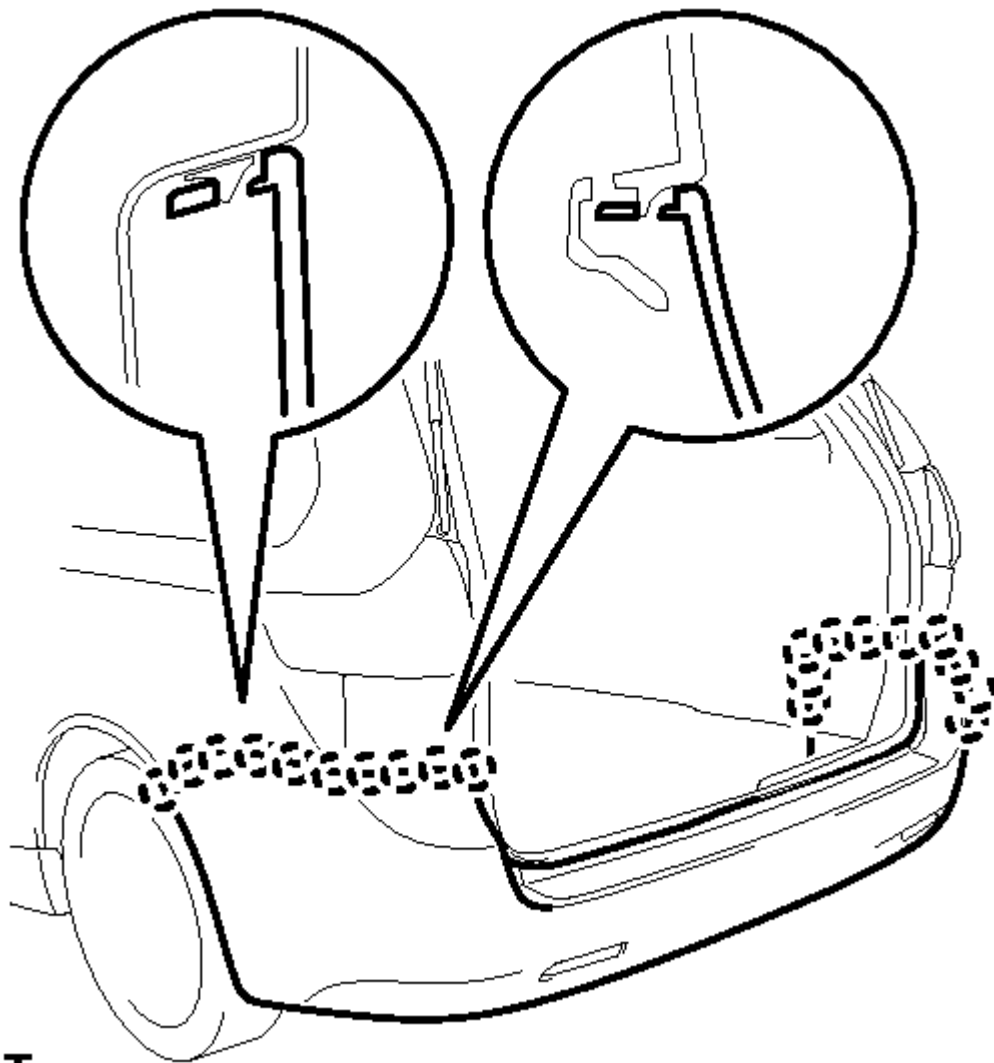
T

Fig. 40: Identifying Rear Bumper Upper Stopper & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

Use the same procedure for the remaining parts.

- f. Disengage the 20 claws and remove the rear bumper cover.



T

Fig. 41: Identifying Rear Bumper Cover & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

DISASSEMBLY

DISASSEMBLY

1. **REMOVE REFLEX REFLECTOR ASSEMBLY LH (except Sport Package)**

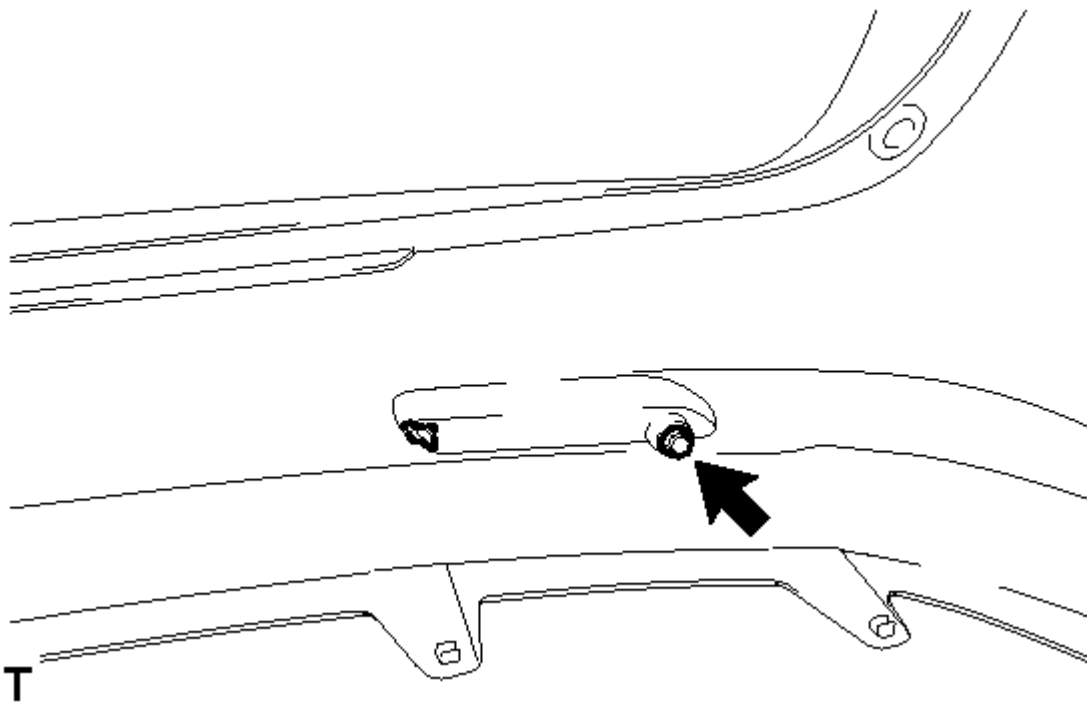


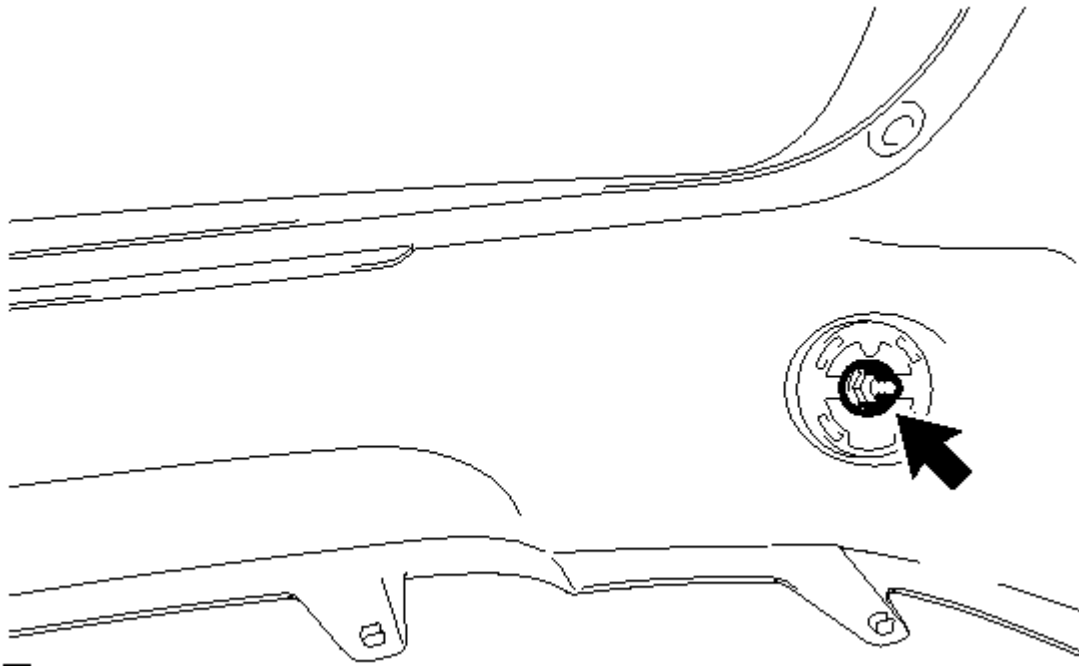
Fig. 42: Remove/Install Reflex Reflector Assembly LH & Fastener (Except Sport Package)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the screw and reflex reflector.
2. **REMOVE REFLEX REFLECTOR ASSEMBLY RH (except Sport Package)**

HINT:

Use the same procedure as for the LH side.

3. **REMOVE REFLEX REFLECTOR ASSEMBLY LH (for Sport Package)**



T

Fig. 43: Remove/Install Reflex Reflector Assembly LH & Fastener (For Sport Package)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

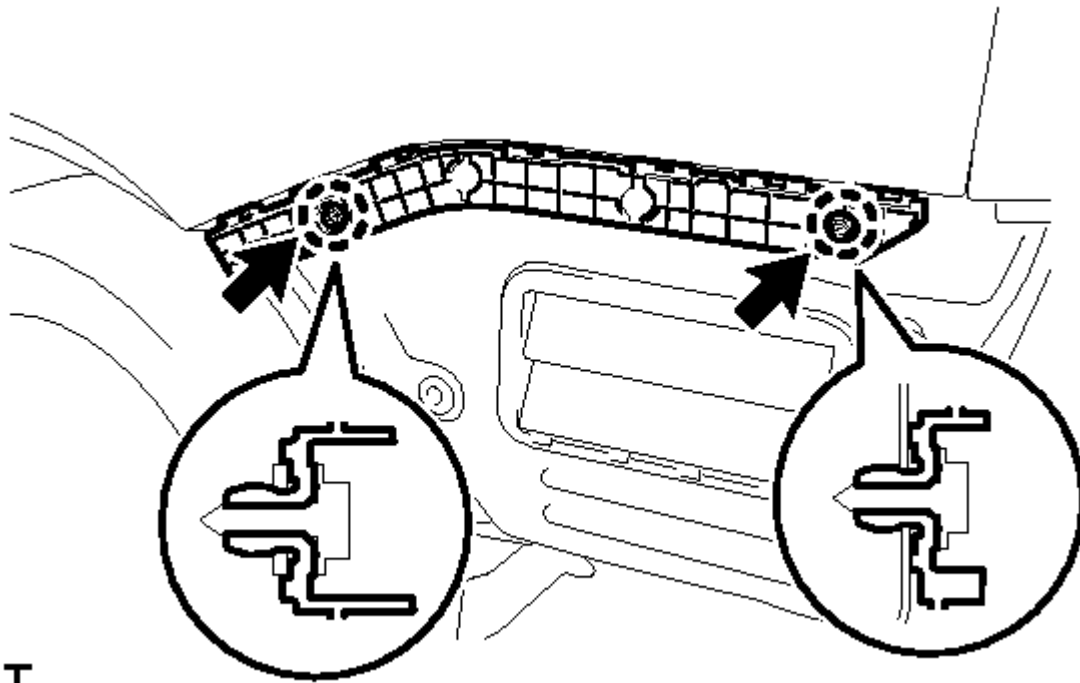
- a. Remove the nut and reflex reflector.

4. REMOVE REFLEX REFLECTOR ASSEMBLY RH (for Sport Package)

HINT:

Use the same procedure as for the LH side.

5. **REMOVE NO. 1 ULTRASONIC SENSOR (for Back Sensor)** . Refer to **REMOVAL - Step 2**
6. **REMOVE NO. 1 ULTRASONIC SENSOR RETAINER (for Back Sensor)** . Refer to **REMOVAL - Step 3**
7. **REMOVE NO. 1 ULTRASONIC SENSOR (for Corner Sensor)** . Refer to **REMOVAL - Step 4**
8. **REMOVE NO. 2 ULTRASONIC SENSOR RETAINER (for Corner Sensor)** . Refer to **REMOVAL - Step 5**
9. **REMOVE REAR BUMPER SIDE RETAINER LH**



T

Fig. 44: Remove/Install Rear Bumper Side Retainer LH & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

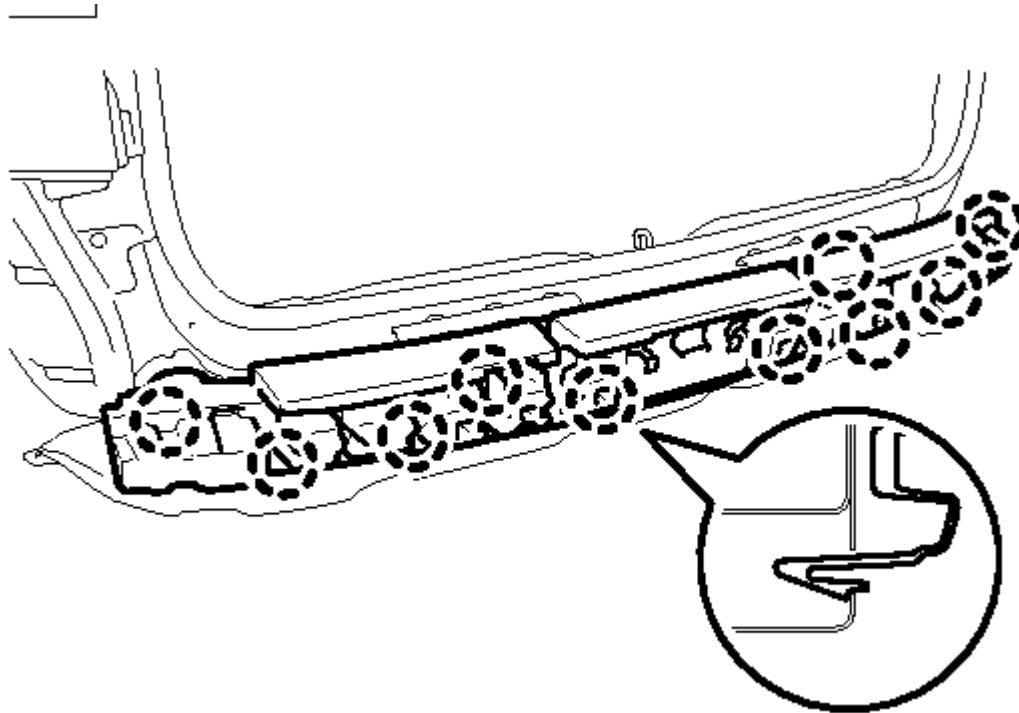
- a. Remove the 2 screws.
- b. Disengage the 2 claws and remove the rear bumper side retainer.

10. REMOVE REAR BUMPER SIDE RETAINER RH

HINT:

Use the same procedure as for the LH side.

- 11. REMOVE ELECTRICAL KEY ANTENNA (w/ Smart Key System) . Refer to REMOVAL - Step 2**
- 12. REMOVE REAR BUMPER ENERGY ABSORBER**



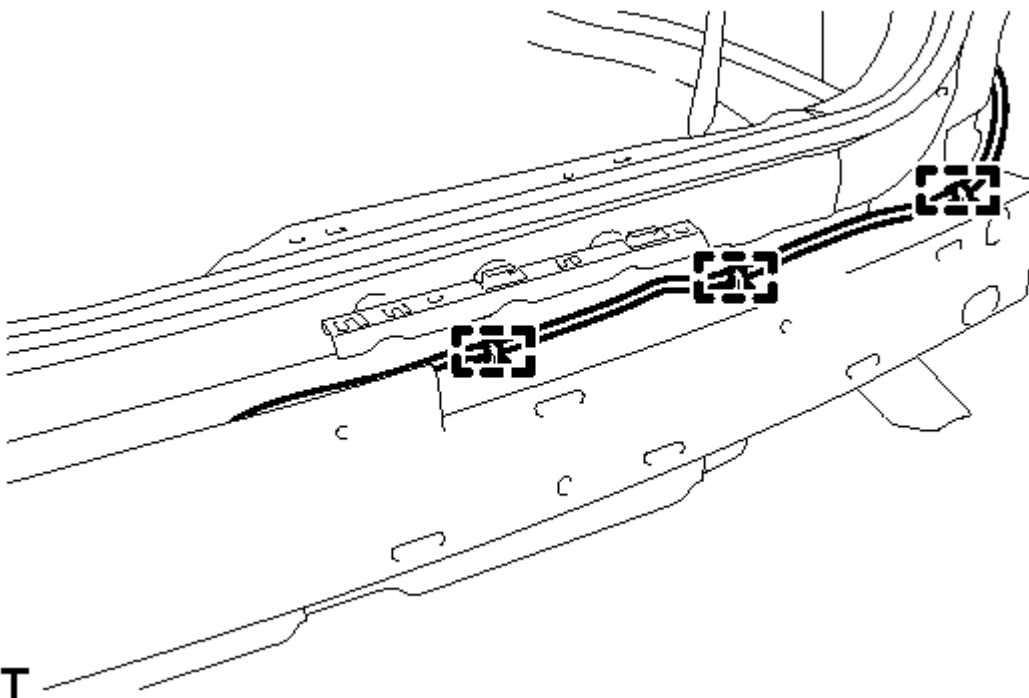
T

Fig. 45: Remove/Install Rear Bumper Energy Absorber & Claws

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

- a. Disengage the 10 claws and remove the rear bumper energy absorber.

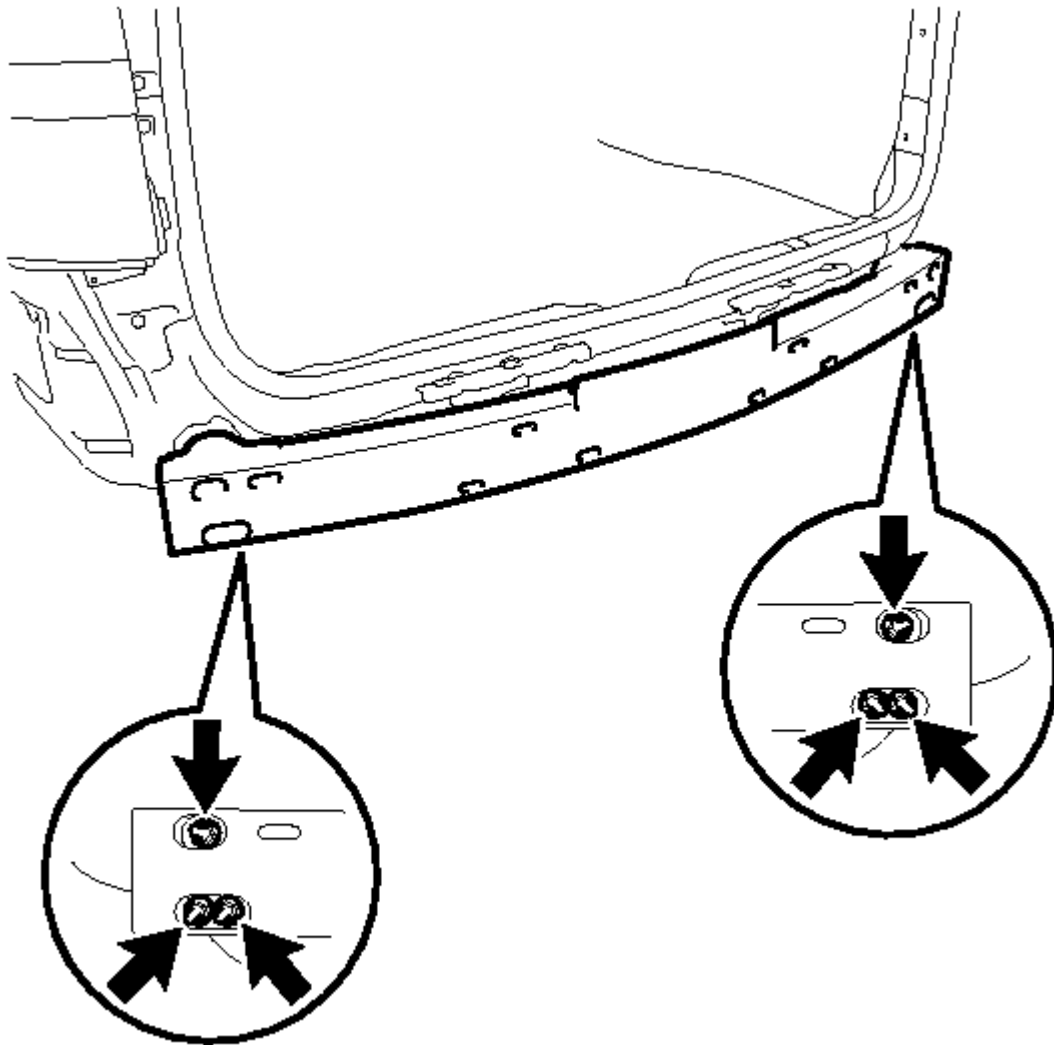
13. REMOVE REAR BUMPER REINFORCEMENT SUB-ASSEMBLY



T

Fig. 46: Remove/Install Rear Bumper Reinforcement Sub-Assembly Wire Harness Clamps
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disengage the 3 clamps and disconnect the wire harness.
- b. Remove the 6 nuts and rear bumper reinforcement.



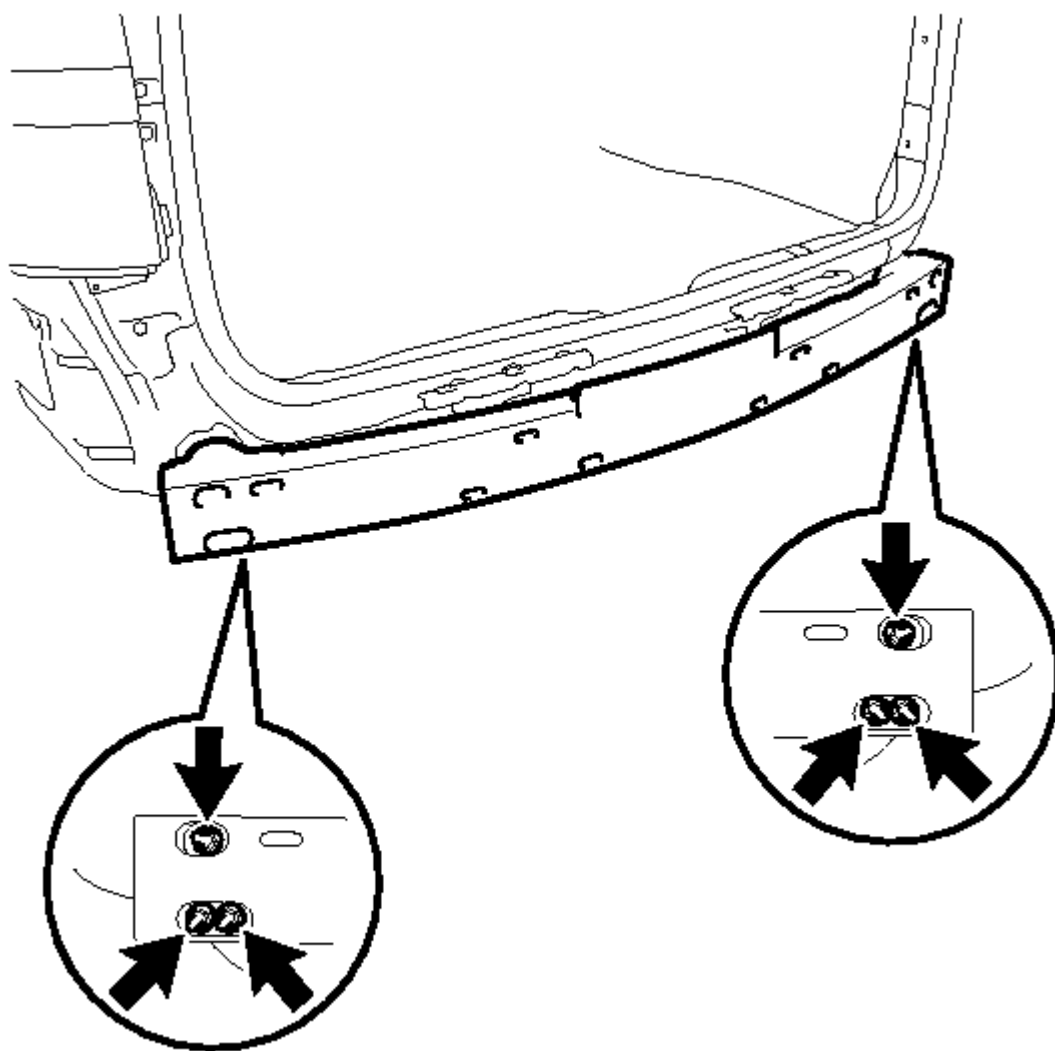
T

Fig. 47: Remove/Install Rear Bumper Reinforcement & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REASSEMBLY

REASSEMBLY

1. INSTALL REAR BUMPER REINFORCEMENT SUB-ASSEMBLY



T

Fig. 48: Remove/Install Rear Bumper Reinforcement & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Install the rear bumper reinforcement with the 6 nuts.

Torque: 50 N*m (510 kgf*cm, 37 ft.*lbf)

- b. Engage the 3 clamps and install the wire harness.

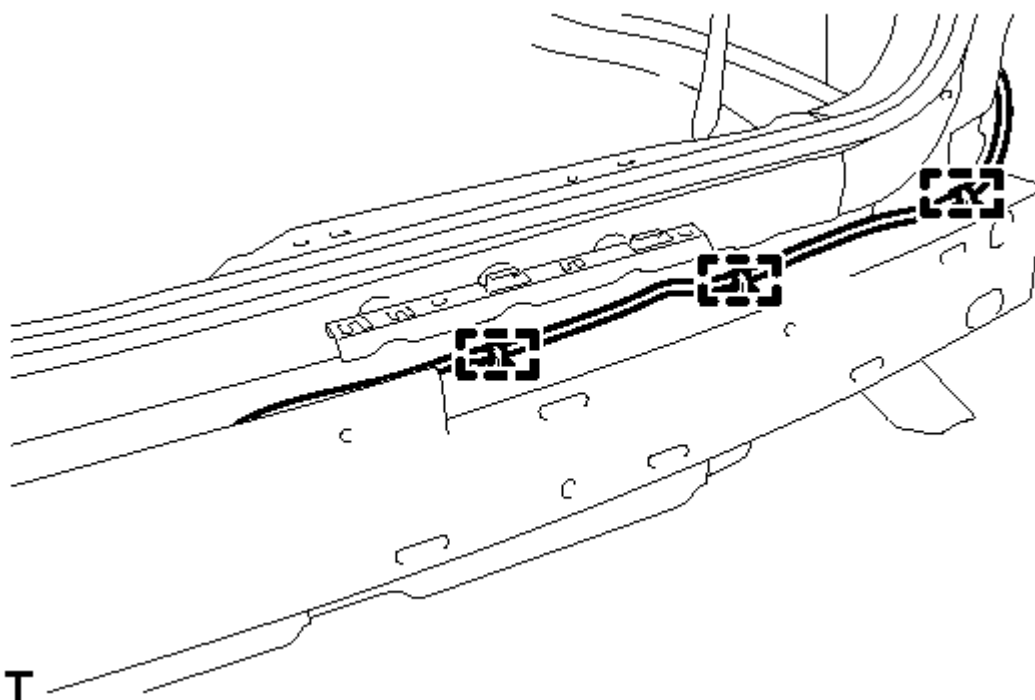


Fig. 49: Remove/Install Rear Bumper Reinforcement Sub-Assembly Wire Harness Clamps
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

2. INSTALL REAR BUMPER ENERGY ABSORBER

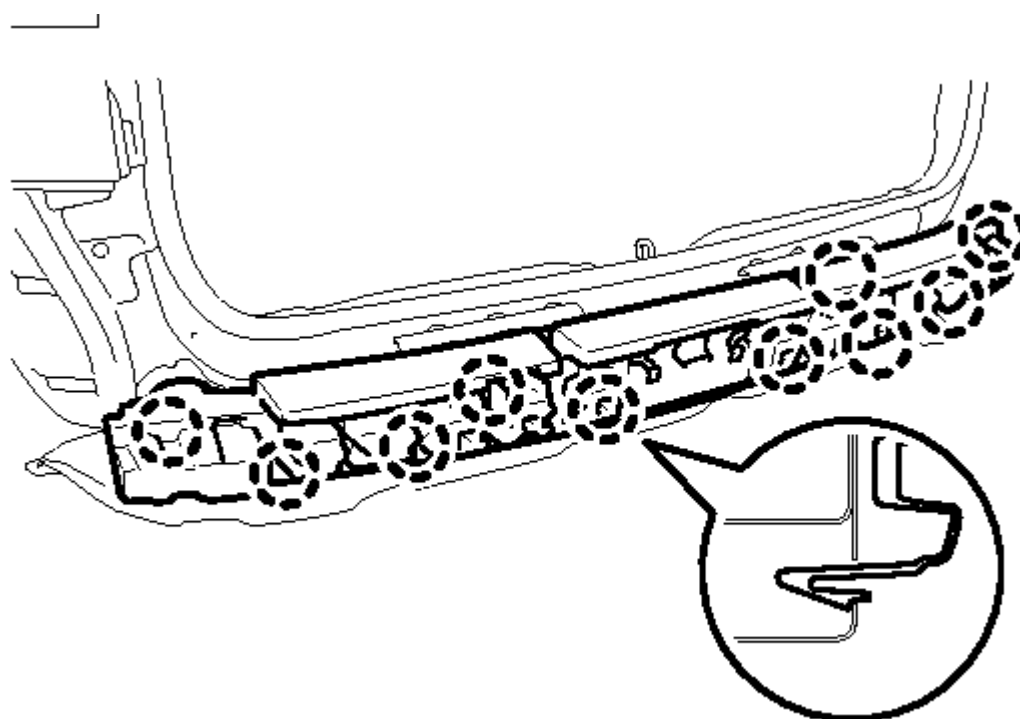
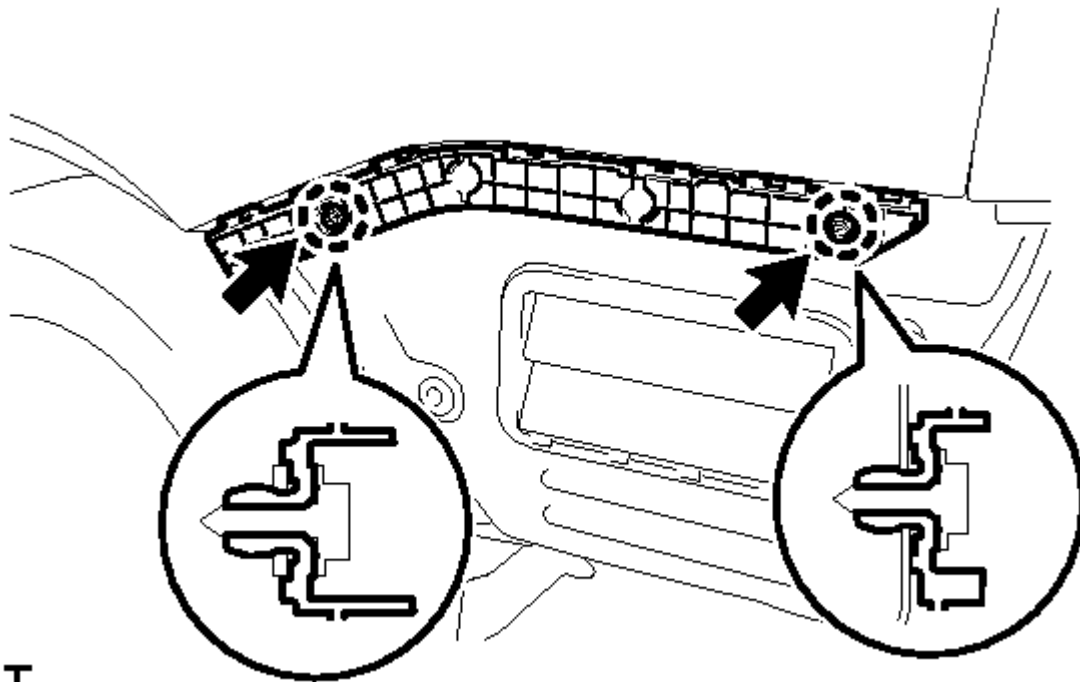


Fig. 50: Remove/Install Rear Bumper Energy Absorber & Claws

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

- a. Engage the 10 claws and install the rear bumper energy absorber.
3. **INSTALL ELECTRICAL KEY ANTENNA (w/ Smart Key System)** . Refer to **INSTALLATION - Step 1**
4. **INSTALL REAR BUMPER SIDE RETAINER LH**



T

Fig. 51: Remove/Install Rear Bumper Side Retainer LH & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Engage the 2 claws and install the rear bumper side retainer.
 - b. Tighten the 2 screws.
5. **INSTALL REAR BUMPER SIDE RETAINER RH**

HINT:

Use the same procedure as for the LH side.

6. **INSTALL NO. 1 ULTRASONIC SENSOR RETAINER (for Back Sensor)** . Refer to **INSTALLATION - Step 1**
7. **INSTALL NO. 1 ULTRASONIC SENSOR (for Back Sensor)** . Refer to **INSTALLATION - Step 2**
8. **INSTALL NO. 2 ULTRASONIC SENSOR RETAINER (for Corner Sensor)** . Refer to **INSTALLATION - Step 3**
9. **INSTALL NO. 1 ULTRASONIC SENSOR (for Corner Sensor)** . Refer to **INSTALLATION - Step 4**
10. **INSTALL REFLEX REFLECTOR ASSEMBLY LH (except Sport Package)**

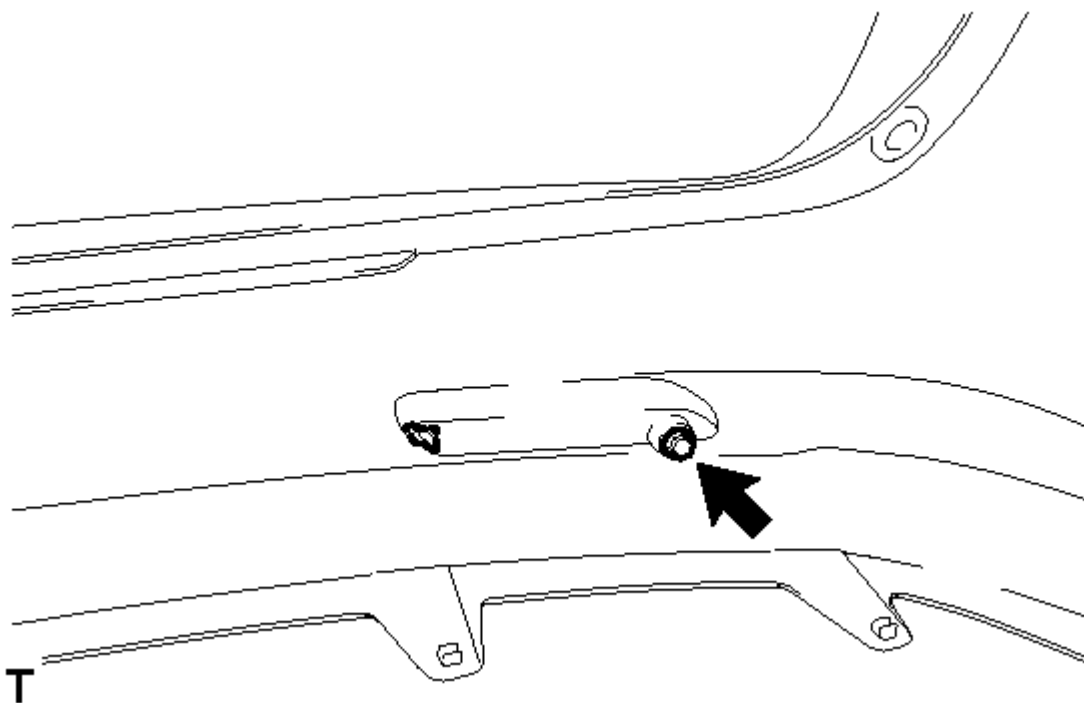


Fig. 52: Remove/Install Reflex Reflector Assembly LH & Fastener (Except Sport Package)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

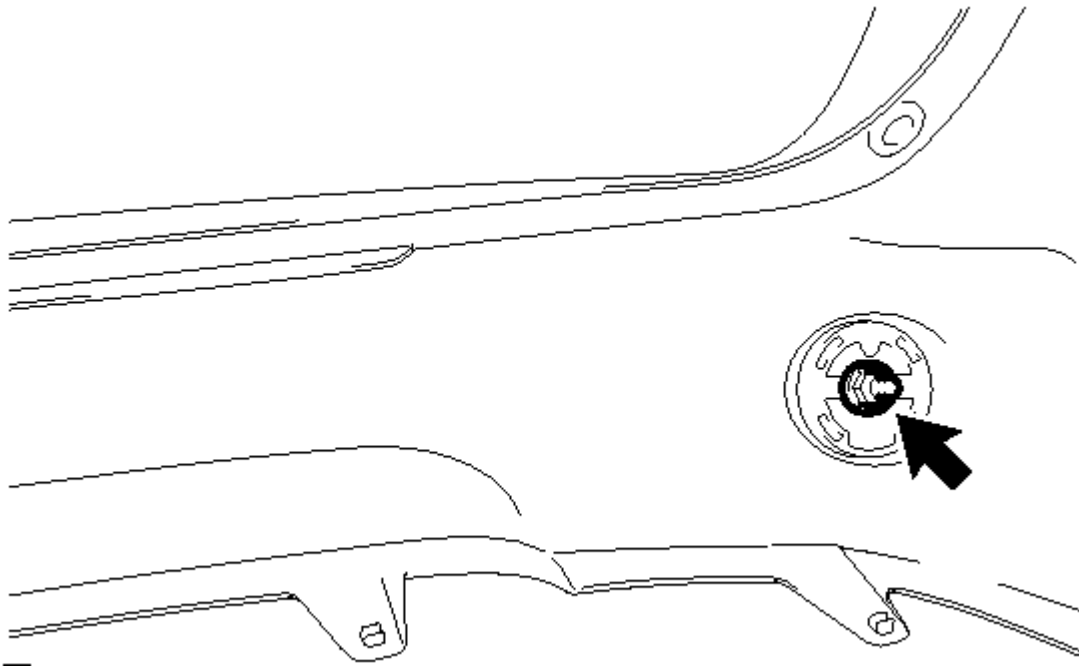
- a. Install the reflex reflector with the screw.

11. INSTALL REFLEX REFLECTOR ASSEMBLY RH (except Sport Package)

HINT:

Use the same procedure as for the LH side.

12. INSTALL REFLEX REFLECTOR ASSEMBLY LH (for Sport Package)



T

Fig. 53: Remove/Install Reflex Reflector Assembly LH & Fastener (For Sport Package)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Install the reflex reflector with the nut.

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

13. INSTALL REFLEX REFLECTOR ASSEMBLY RH (for Sport Package)

HINT:

Use the same procedure as for the LH side.

INSTALLATION

INSTALLATION

1. INSTALL REAR BUMPER COVER

- a. Engage the 20 claws and install the rear bumper cover.
- b. Engage the 2 claws and install the rear bumper cover upper stopper.

HINT:

Use the same procedure for the remaining parts.

- c. Tighten the 2 bolts and 2 screws.

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

for bolt

- d. Tighten the 5 screws.
- e. Tighten the screw.

HINT:

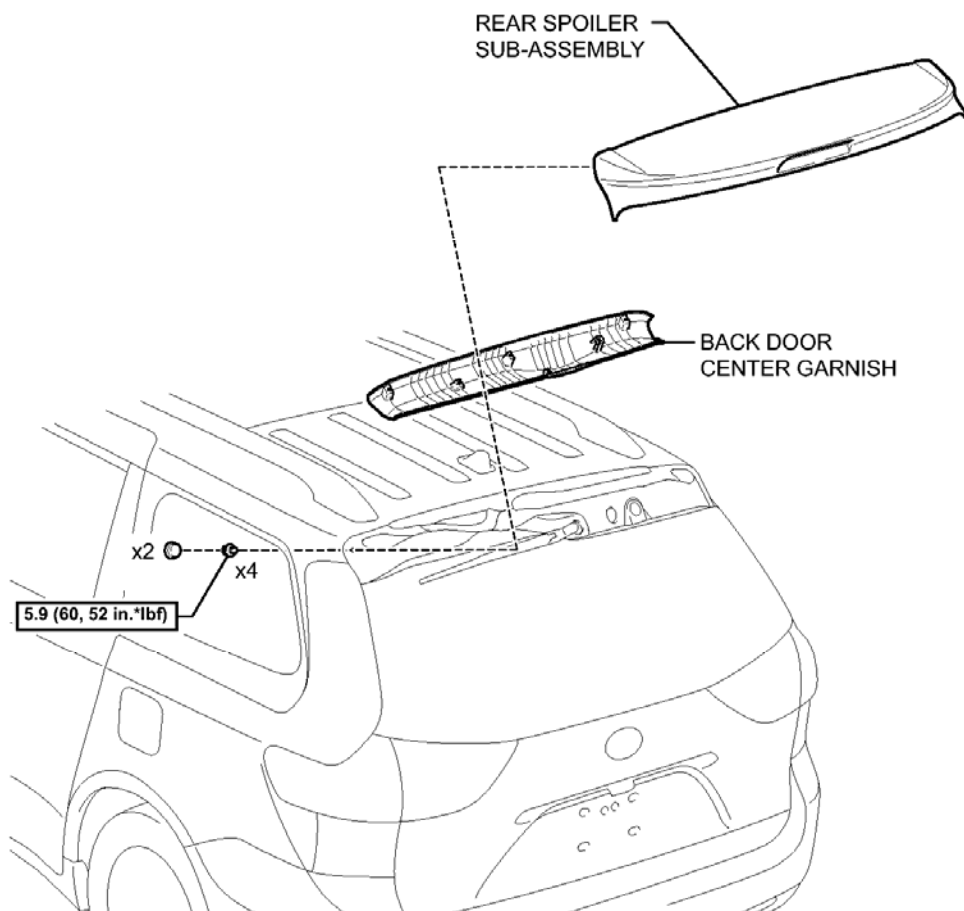
Use the same procedure for the remaining parts.

- f. Install the 3 clips.

REAR SPOILER

COMPONENTS

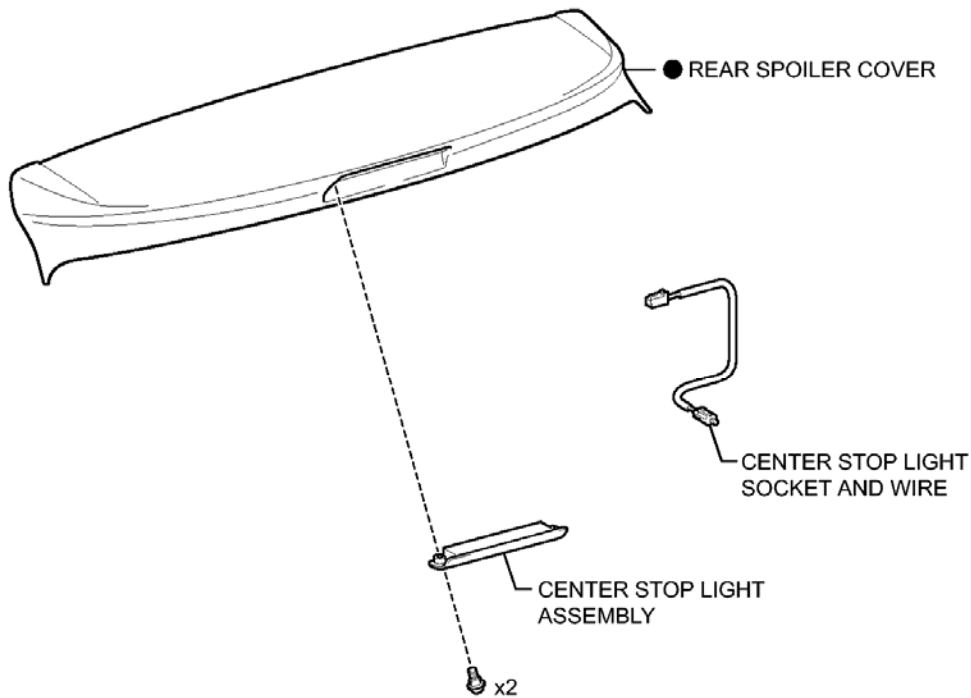
ILLUSTRATION



5.9 (60, 52 in.*lbf): Specified torque

Fig. 54: Rear Spoiler Replacement Components With Torque Specifications (1 Of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



● Non-reusable part

T

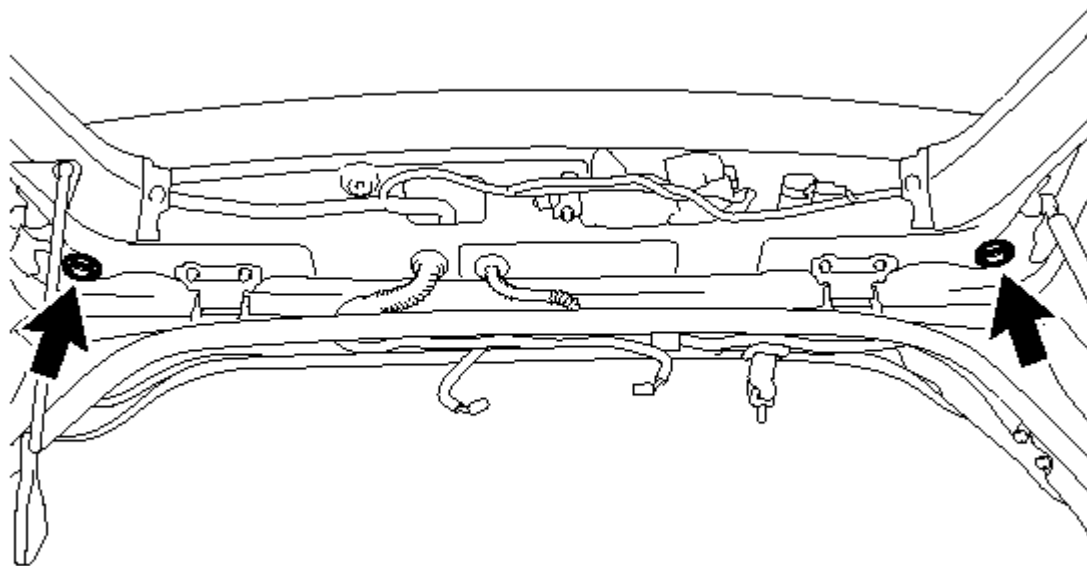
Fig. 55: Identifying Rear Spoiler Replacement Components (2 Of 2)

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

REMOVAL

REMOVAL

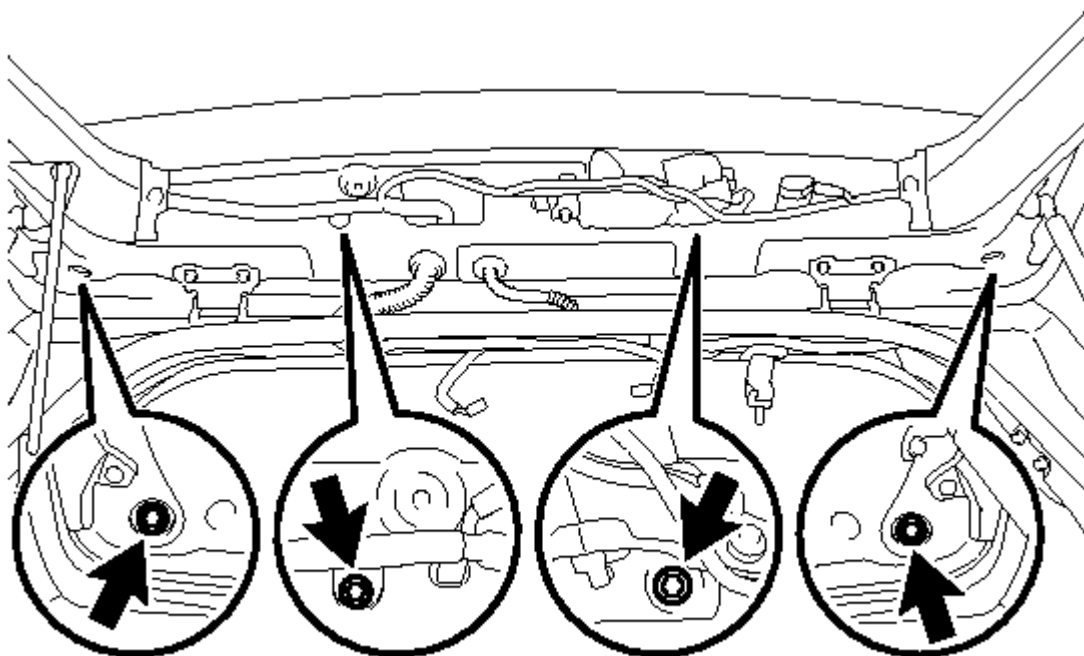
1. REMOVE BACK DOOR CENTER GARNISH . Refer to **DISASSEMBLY - Step 1**
2. REMOVE REAR SPOILER SUB-ASSEMBLY



T

Fig. 56: Identifying Rear Spoiler Sub-Assembly Hole Plugs
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the 2 hole plugs.
- b. Remove the 4 bolts.



T

Fig. 57: Identifying Rear Spoiler Sub-Assembly Fasteners

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

- c. Using an infrared light, heat the rear spoiler.

HEATING TEMPERATURE

Item	Temperature
Vehicle Body and Rear Spoiler Cover	40 to 60°C (104 to 140° F)

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

- d. While pulling the rear spoiler cover towards the back of the vehicle, disengage the 2 clips and pin while peeling off the double-sided tape. Then remove the rear spoiler.

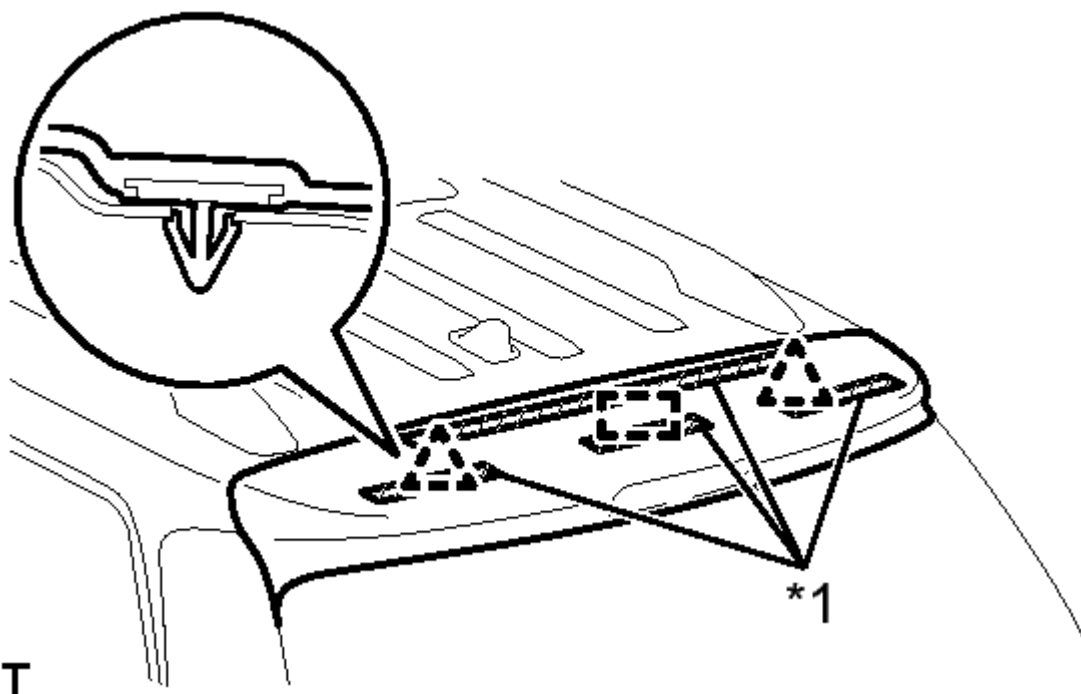


Fig. 58: Identifying Rear Spoiler Sub-Assembly Clips

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

TEXT IN ILLUSTRATION

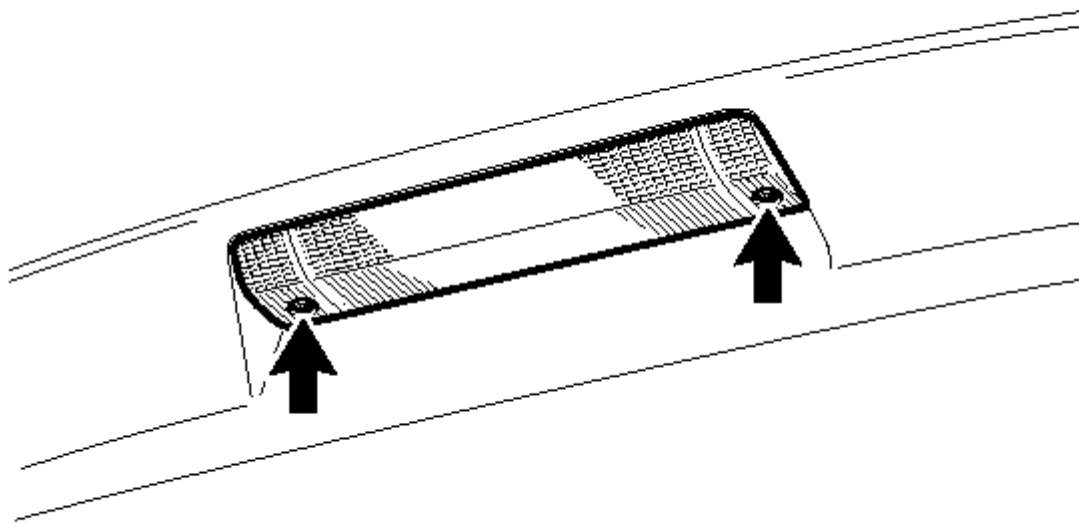
Double-

*1	sided Tape
----	---------------

DISASSEMBLY

DISASSEMBLY

1. REMOVE CENTER STOP LIGHT ASSEMBLY

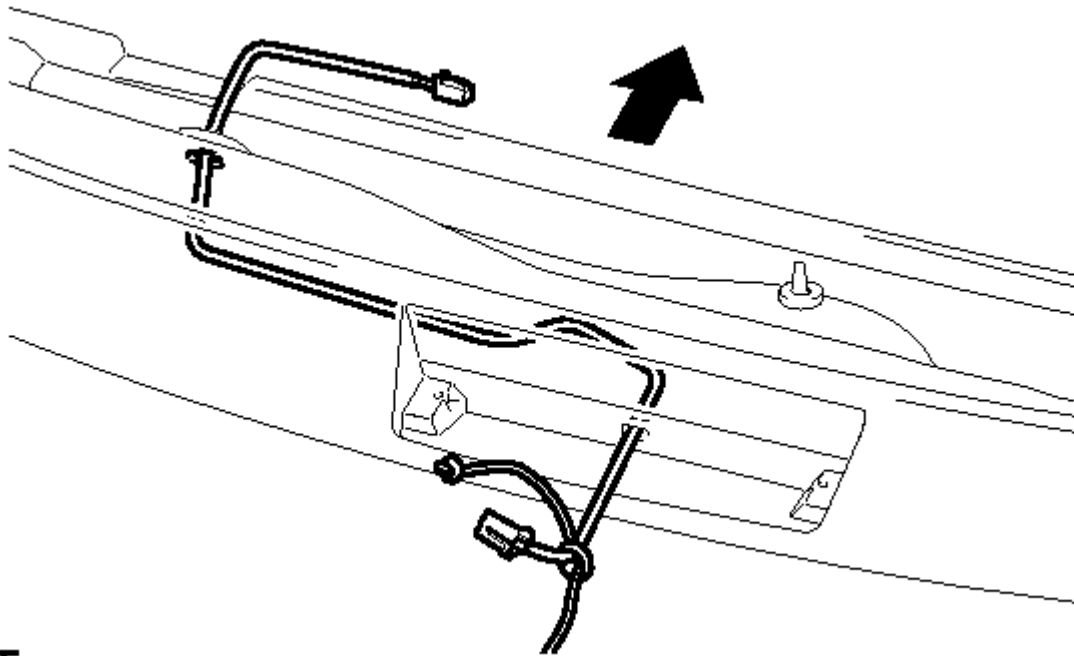


T

Fig. 59: Remove/Install Center Stop Light Assembly & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the 2 screws and center stop light.

2. REMOVE CENTER STOP LIGHT SOCKET AND WIRE



T

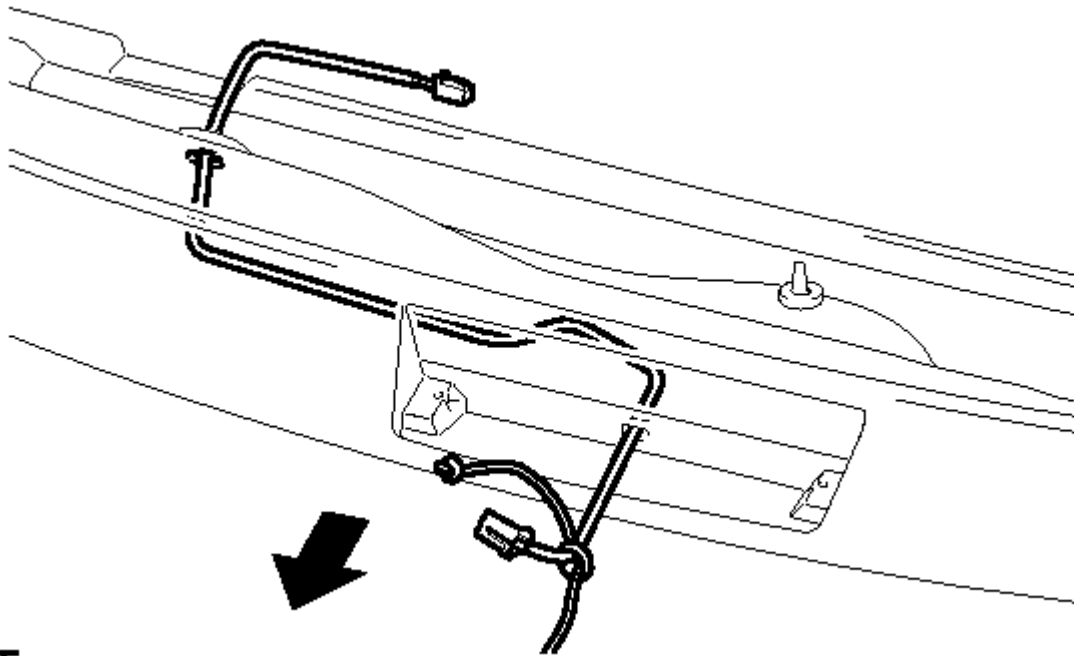
Fig. 60: Removing Center Stop Light Socket & Wire
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Using string, tie the harness section of the center stop light socket and wire.
- b. Remove the center stop light socket and wire from the rear spoiler.

REASSEMBLY

REASSEMBLY

1. INSTALL CENTER STOP LIGHT SOCKET AND WIRE

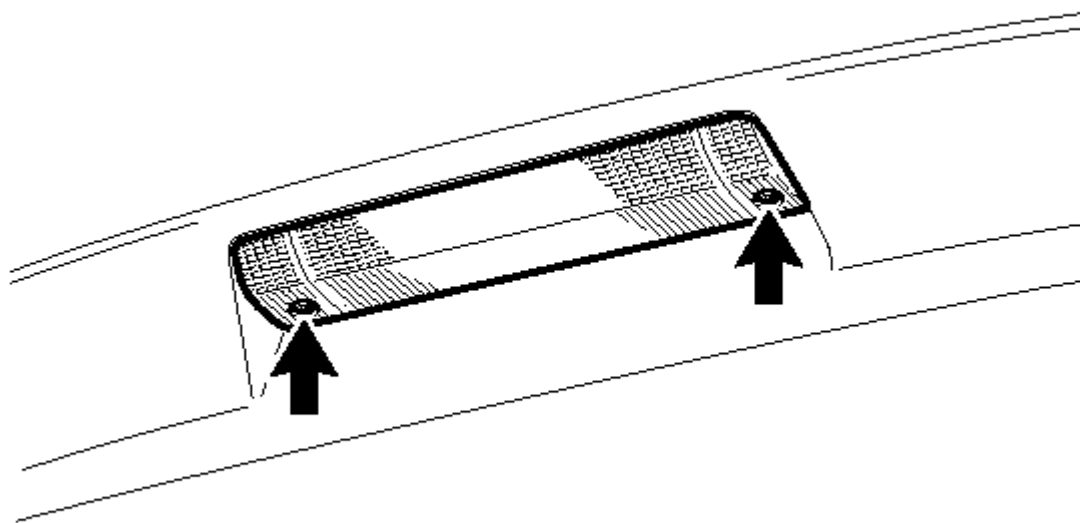


T

Fig. 61: Installing Center Stop Light Socket & Wire
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Pass a piece of string through the new rear spoiler.
- b. Tie the string to the center stop light socket and wire.
- c. Pull the string and pass the center stop light socket and wire through the inside of the rear spoiler.
Then pull the connector through the opening of the rear spoiler.

2. INSTALL CENTER STOP LIGHT ASSEMBLY



T

Fig. 62: Remove/Install Center Stop Light Assembly & Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Install the center stop light with the 2 screws.

INSTALLATION

INSTALLATION

1. INSTALL REAR SPOILER SUB-ASSEMBLY

- a. Clean the attachment surface.
 1. Using an infrared light, heat the double-sided adhesive tape remaining on the back door panel.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

2. Using a piece of cloth, rub the remaining double-sided tape off the back door panel while it is hot from the infrared light.

NOTE: **Installing the rear spoiler while any double-sided tape remains on the back door panel may cause adhesion failure. Therefore, completely remove the double-sided adhesive tape.**

3. Using a non-residue solvent, clean the attachment surface.
- b. Engage the 2 clips, pin and install a new rear spoiler.
- c. Tighten the 4 bolts.

Torque: 5.9 N*m (60 kgf*cm, 52 in.*lbf)

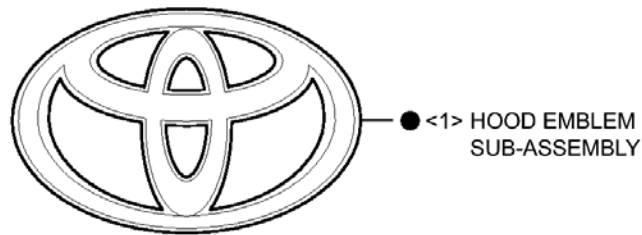
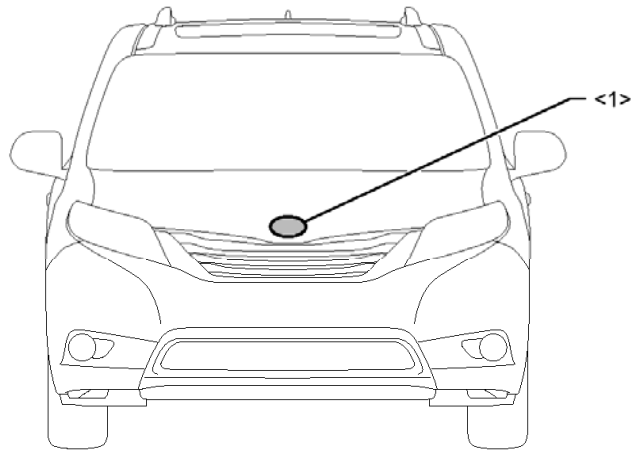
- d. Install the 2 hole plugs.

2. **INSTALL BACK DOOR CENTER GARNISH** . Refer to **REASSEMBLY - Step 28**

NAME PLATE

COMPONENTS

ILLUSTRATION

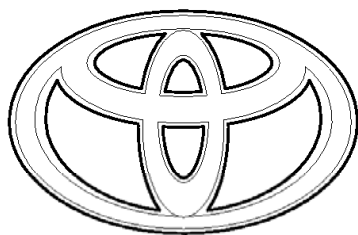
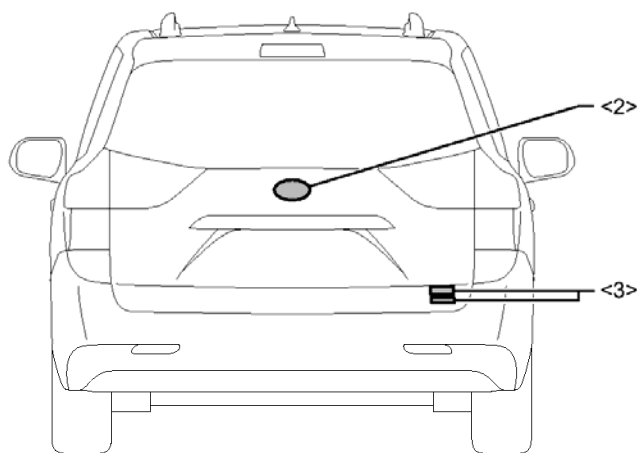


● Non-reusable part

T

Fig. 63: Name Plate Replacement Components (1 of 2)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

ILLUSTRATION



● <2> BACK DOOR
NAME PLATE



● <3> NO. 3 BACK DOOR
NAME PLATE



● <3> NO. 3 BACK DOOR
NAME PLATE

● Non-reusable part

T

Fig. 64: Name Plate Replacement Components (2 of 2)

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

REMOVAL

REMOVAL

1. REMOVE HOOD EMBLEM SUB-ASSEMBLY

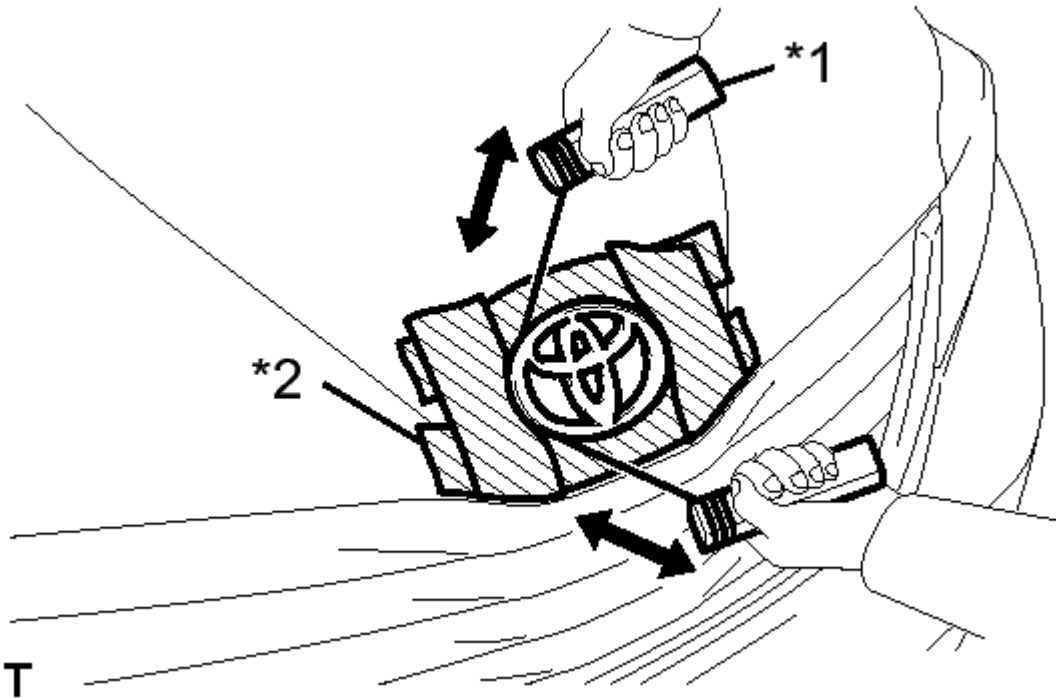


Fig. 65: Removing Hood Emblem Sub-Assembly
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply protective tape to the vehicle body in the area around the hood emblem.

TEXT IN ILLUSTRATION

*1	Wooden Blocks
*2	Protective Tape

- b. Pass a piano wire between the vehicle body and hood emblem.
- c. Tie objects that can serve as handles (for example, wooden blocks) to both wire ends.
- d. Pull the piano wire and scrape off the double-sided tape that holds the hood emblem to the vehicle body.

NOTE: Be careful not to damage the vehicle body.

- e. Remove the hood emblem.

2. REMOVE BACK DOOR NAME PLATE

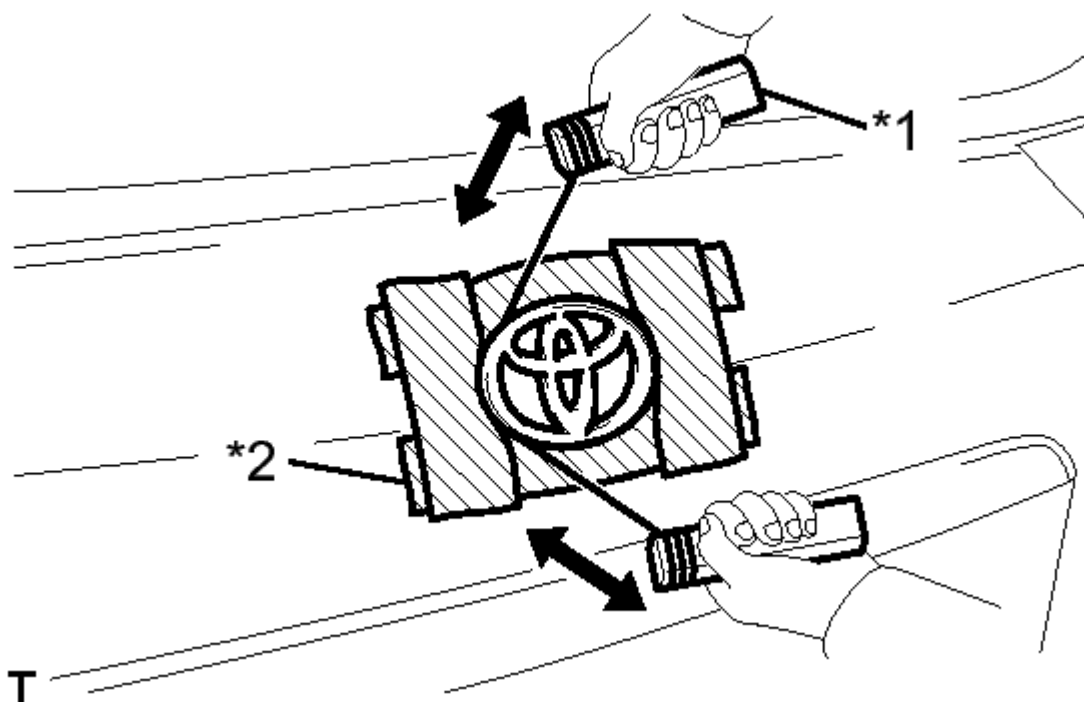


Fig. 66: Removing Back Door Name Plate
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply protective tape to the back door panel in the area around the back door name plate.

TEXT IN ILLUSTRATION

*1	Wooden Blocks
*2	Protective Tape

- b. Pass a piano wire between the vehicle body and back door name plate.
- c. Tie objects that can serve as handles (for example, wooden blocks) to both wire ends.
- d. Pull the piano wire and scrape off the double-sided tape that holds the back door name plate to the vehicle body.

NOTE: Be careful not to damage the vehicle body.

- e. Remove the back door name plate.

3. REMOVE NO. 3 BACK DOOR NAME PLATE

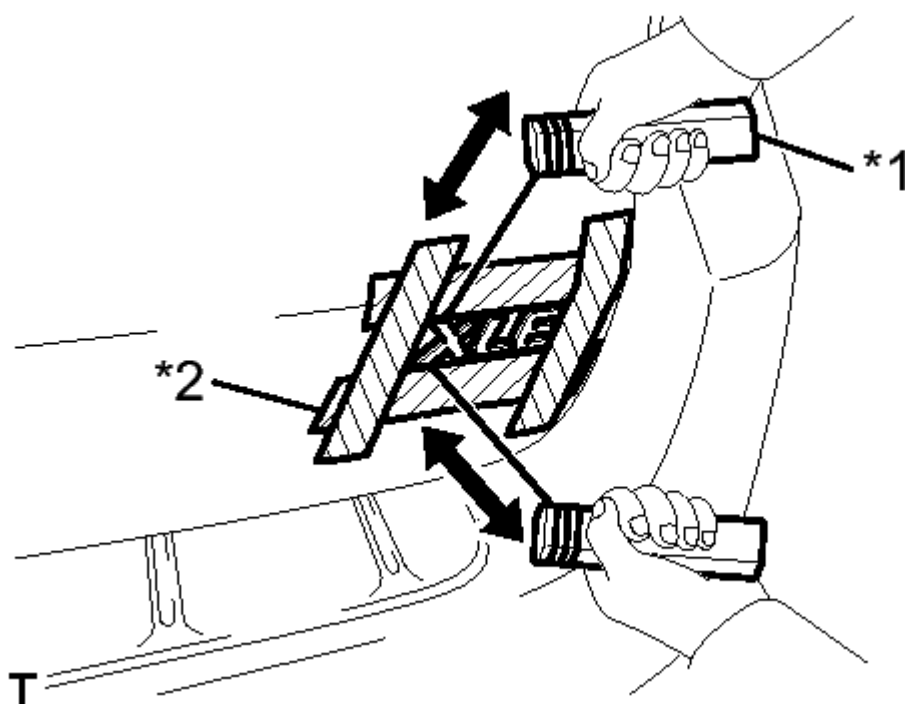


Fig. 67: Removing No. 3 Back Door Name Plate
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply protective tape to the back door panel in the area around the No. 3 back door name plate.

TEXT IN ILLUSTRATION

*1	Wooden Blocks
*2	Protective Tape

- b. Pass a piano wire between the vehicle body and No. 3 back door name plate.
- c. Tie objects that can serve as handles (for example, wooden blocks) to both wire ends.
- d. Pull the piano wire and scrape off the double-sided tape that holds the No. 3 back door name plate to the vehicle body.

NOTE: **Be careful not to damage the vehicle body.**

- e. Remove the No. 3 back door name plate.

INSTALLATION

INSTALLATION

1. INSTALL NO. 3 BACK DOOR NAME PLATE

- a. Clean the attachment surface.

1. Using an infrared light, heat the double-sided tape remaining on the back door panel.

HEATING TEMPERATURE

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

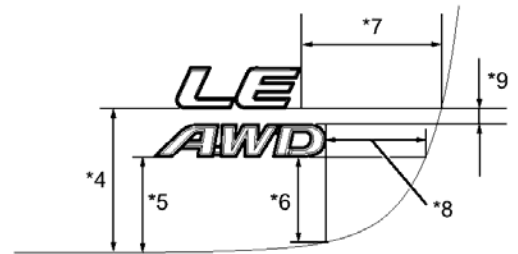
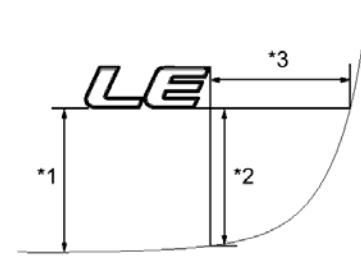
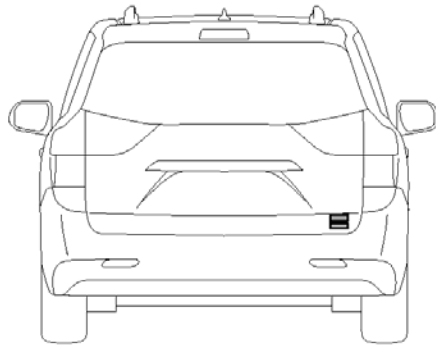
WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

2. Using a piece of cloth, rub the double-sided tape off the back door panel while it is hot from the infrared light.

NOTE: Installing the No. 3 back door name plate while any double-sided tape remains on the back door panel may cause adhesion failure. Therefore, completely remove the double-sided tape.

3. Using a non-residue solvent, clean the attachment surface.
- b. for Type A:
1. Install a new No. 3 back door name plate as shown in the illustration.



T

Fig. 68: Identifying No. 3 Back Door Name Plate Position (Type A)

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

Installation Position

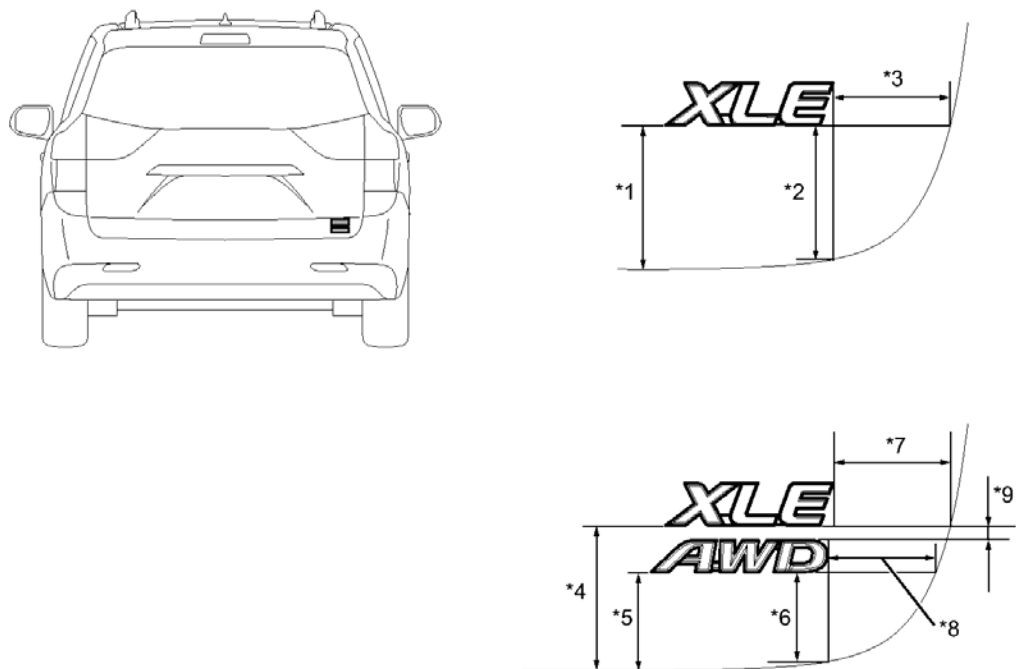
Mark	Measurement (along surface)
*1	71.2 mm (2.80 in.)
*2	68.5 mm (2.70 in.)
*3	68.4 mm (2.69 in.)
*4	71.2 mm (2.80 in.)
*5	48.3 mm (1.90 in.)
*6	44.4 mm (1.75 in.)

*7	68.4 mm (2.69 in.)
*8	52.3 mm (2.06 in.)
*9	6.9 mm (0.272 in.)

NOTE: Install the No. 3 back door name plate in an environment where the ambient temperature is over 20°C (68°F). If it is below 20°C (68°F), using an infrared light, heat the back door panel and the No. 3 back door name plate to 20 to 30°C (68 to 86°F) and install the No. 3 back door name plate.

c. for Type B:

1. Install a new No. 3 back door name plate as shown in the illustration.



T

Fig. 69: Identifying No. 3 Back Door Name Plate Position (Type B)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

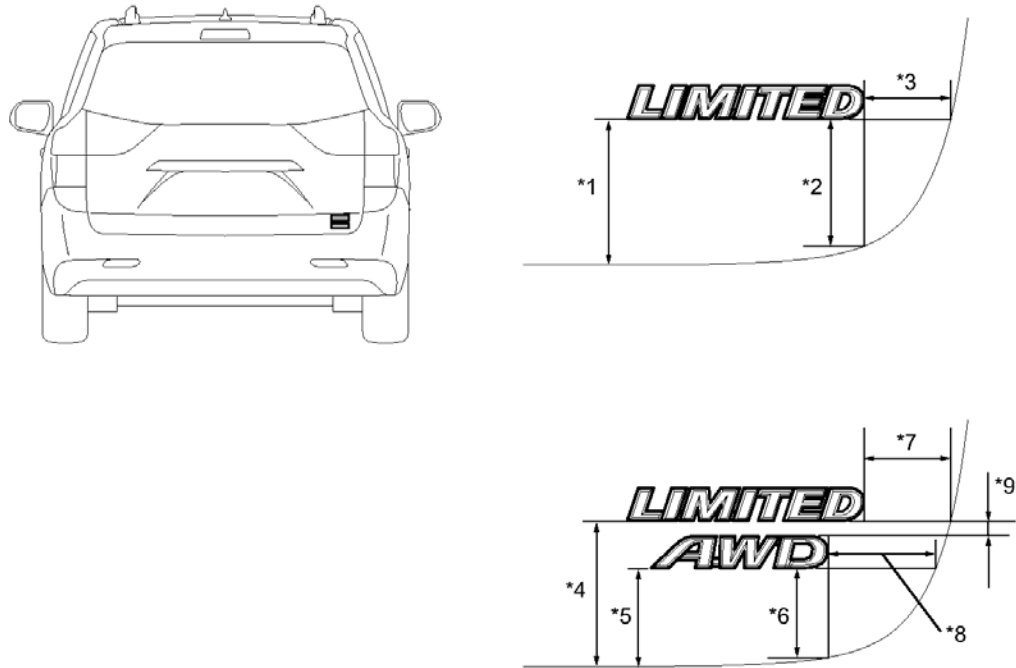
Installation Position

Mark	Measurement (along surface)
*1	71.2 mm (2.80 in.)
*2	66.8 mm (2.63 in.)
*3	57.7 mm (2.27 in.)
*4	71.2 mm (2.80 in.)
*5	48.3 mm (1.90 in.)
*6	44.4 mm (1.75 in.)
*7	57.7 mm (2.27 in.)
*8	52.3 mm (2.06 in.)
*9	6.9 mm (0.272 in.)

NOTE: Install the No. 3 back door name plate in an environment where the ambient temperature is over 20°C (68°F). If it is below 20°C (68°F), using an infrared light, heat the back door panel and the No. 3 back door name plate to 20 to 30°C (68 to 86°F) and install the No. 3 back door name plate.

d. for Type C:

1. Install a new No. 3 back door name plate as shown in the illustration.



T

Fig. 70: Identifying No. 3 Back Door Name Plate Position (Type C)

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

Installation Position

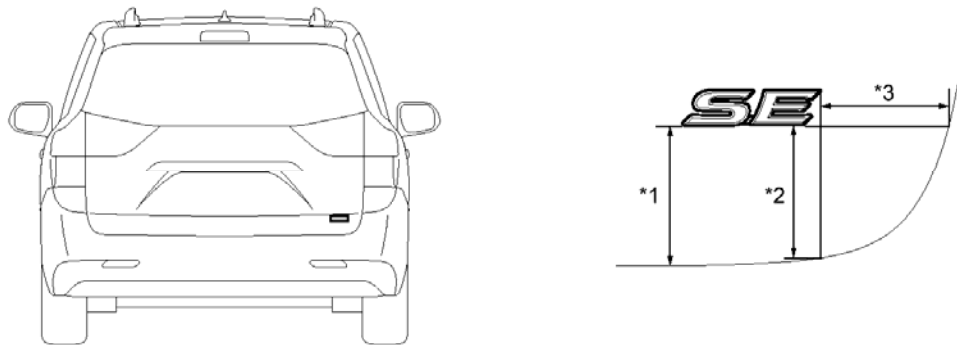
Mark	Measurement (along surface)
*1	71.1 mm (2.80 in.)
*2	63 mm (2.48 in.)
*3	42.5 mm (1.67 in.)
*4	71.1 mm (2.80 in.)
*5	48.3 mm (1.90 in.)
*6	44.4 mm (1.75 in.)

*7	42.5 mm (1.67 in.)
*8	52.3 mm (2.06 in.)
*9	7.7 mm (0.303 in.)

NOTE: Install the No. 3 back door name plate in an environment where the ambient temperature is over 20°C (68°F). If it is below 20°C (68°F), using an infrared light, heat the back door panel and the No. 3 back door name plate to 20 to 30°C (68 to 86°F) and install the No. 3 back door name plate.

e. for Type D:

1. Install a new No. 3 back door name plate as shown in the illustration.



T

Fig. 71: Identifying No. 3 Back Door Name Plate Position (Type D)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation Position

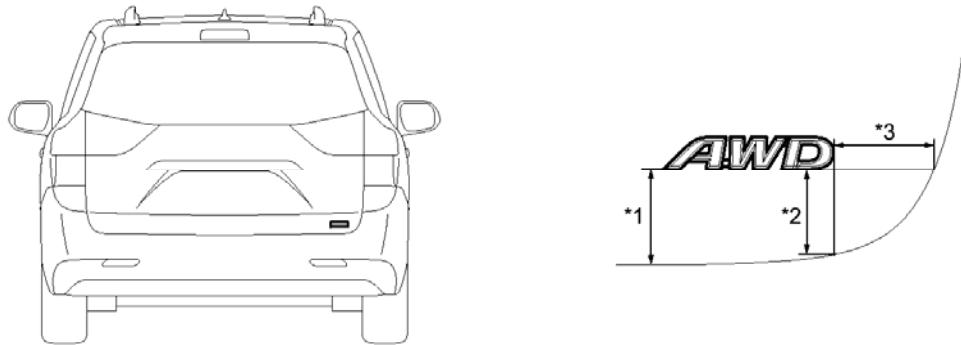
Mark	Measurement (along surface)
*1	71.2 mm (2.80 in.)
*2	68 mm (2.68 in.)
	65.1 mm (2.57 in.)

*3	in.)
----	------

NOTE: Install the No. 3 back door name plate in an environment where the ambient temperature is over 20°C (68°F). If it is below 20°C (68°F), using an infrared light, heat the back door panel and the No. 3 back door name plate to 20 to 30°C (68 to 86°F) and install the No. 3 back door name plate.

f. for Type E:

1. Install a new No. 3 back door name plate as shown in the illustration.



T

Fig. 72: Identifying No. 3 Back Door Name Plate Position (Type E)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation Position

Mark	Measurement (along surface)
*1	48.3 mm (1.90 in.)
*2	44.4 mm (1.75 in.)
*3	52.3 mm (2.06 in.)

NOTE: Install the No. 3 back door name plate in an environment where the ambient temperature is over 20°C (68°F). If it is below 20°C (68°F), using an infrared light, heat the back door panel and the

No. 3 back door name plate to 20 to 30°C (68 to 86°F) and install the No. 3 back door name plate.

2. INSTALL BACK DOOR NAME PLATE

a. Clean the attachment surface.

1. Using an infrared light, heat the double-sided tape remaining on the back door panel.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

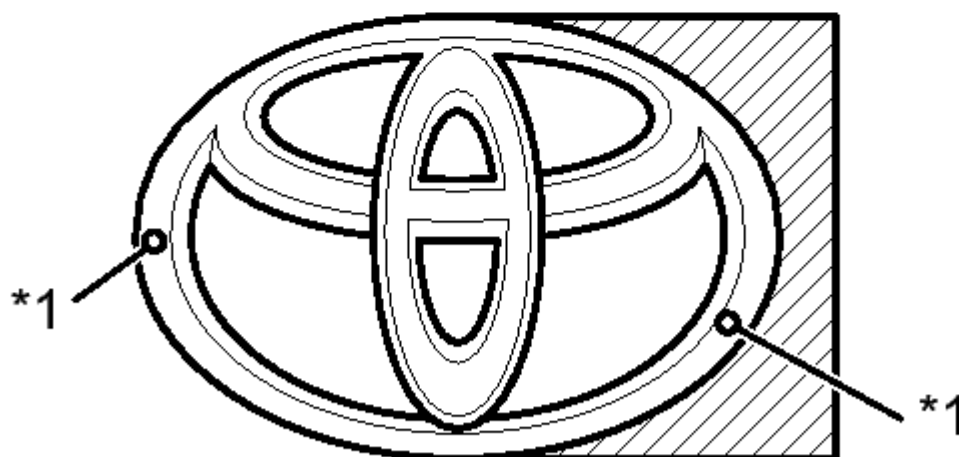
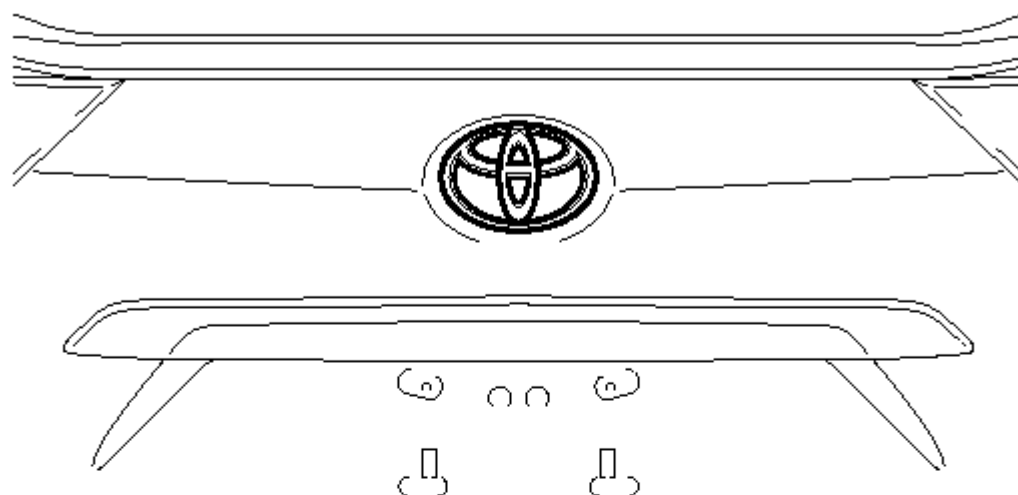
NOTE: Do not heat the vehicle body excessively.

2. Using a piece of cloth, rub the remaining double-sided tape off the back door panel while it is hot from the infrared light.

NOTE: Installing the back door name plate with any double-sided tape remaining on the back door panel may cause adhesion failure. Therefore, completely remove the double-sided tape.

3. Using a non-residue solvent, clean the attachment surface.

b. Insert the 2 pins into the back door panel and install the back door name plate.



T

Fig. 73: Identifying Back Door Name Plate Location Pins
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

Location

*1	Pin
----	-----

NOTE: Install the back door name plate in an environment where the ambient temperature is over 20 °C (68°F). If it is below 20°C (68°F), using an infrared light, heat the back door panel and the back door name plate to 20 to 30°C (68 to 86°F) and install the back door name plate.

3. INSTALL HOOD EMBLEM SUB-ASSEMBLY

- a. Clean the attachment surface.
 1. Using an infrared light, heat the double-sided tape remaining on the vehicle body.

HEATING TEMPERATURE

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

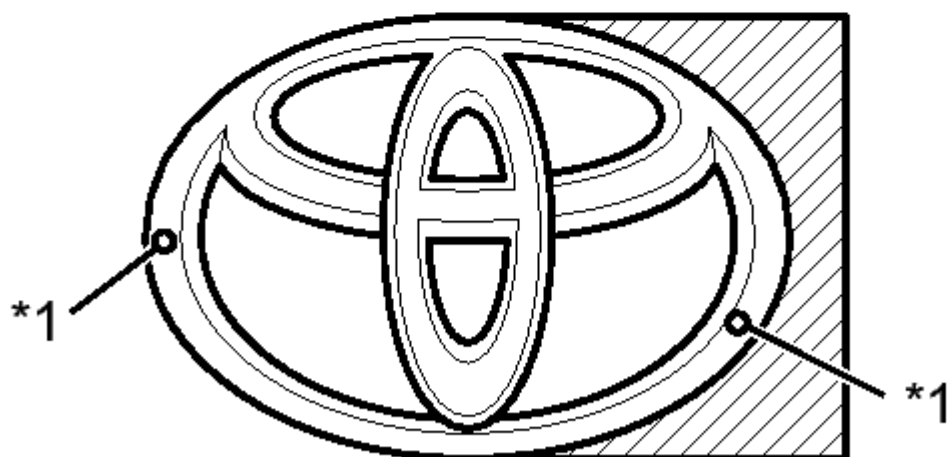
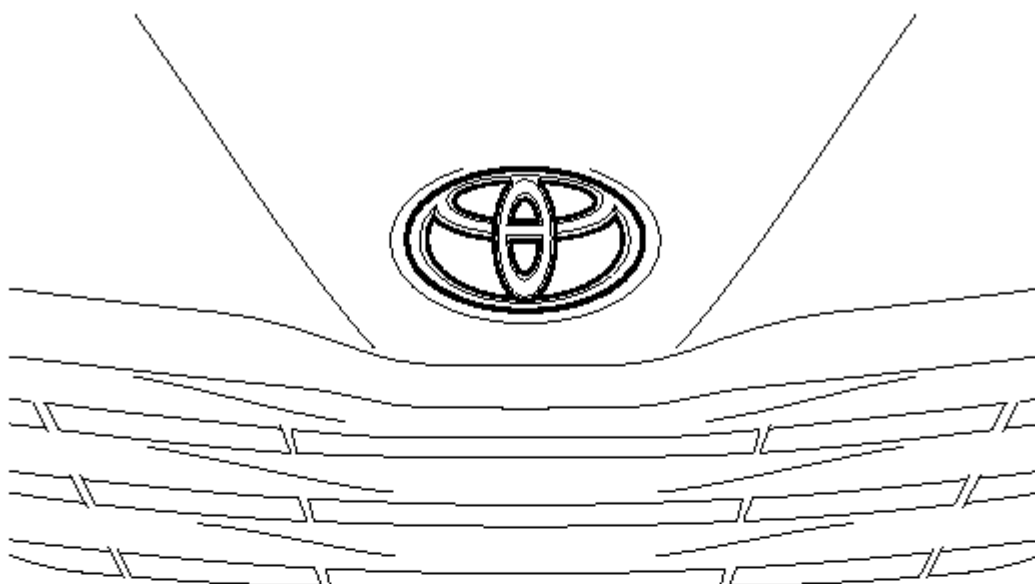
WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

2. Using a piece of cloth, rub the remaining double-sided tape off the vehicle body while it is hot from the infrared light.

NOTE: Installing the hood emblem with any double-sided tape remaining on the engine hood may cause adhesion failure. Therefore, completely remove the double-sided tape.

3. Using a non-residue solvent, clean the attachment surface.
- b. Insert the 2 pins into the hood and install the hood emblem.



T

Fig. 74: Identifying Hood Emblem Location Pins
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

Location

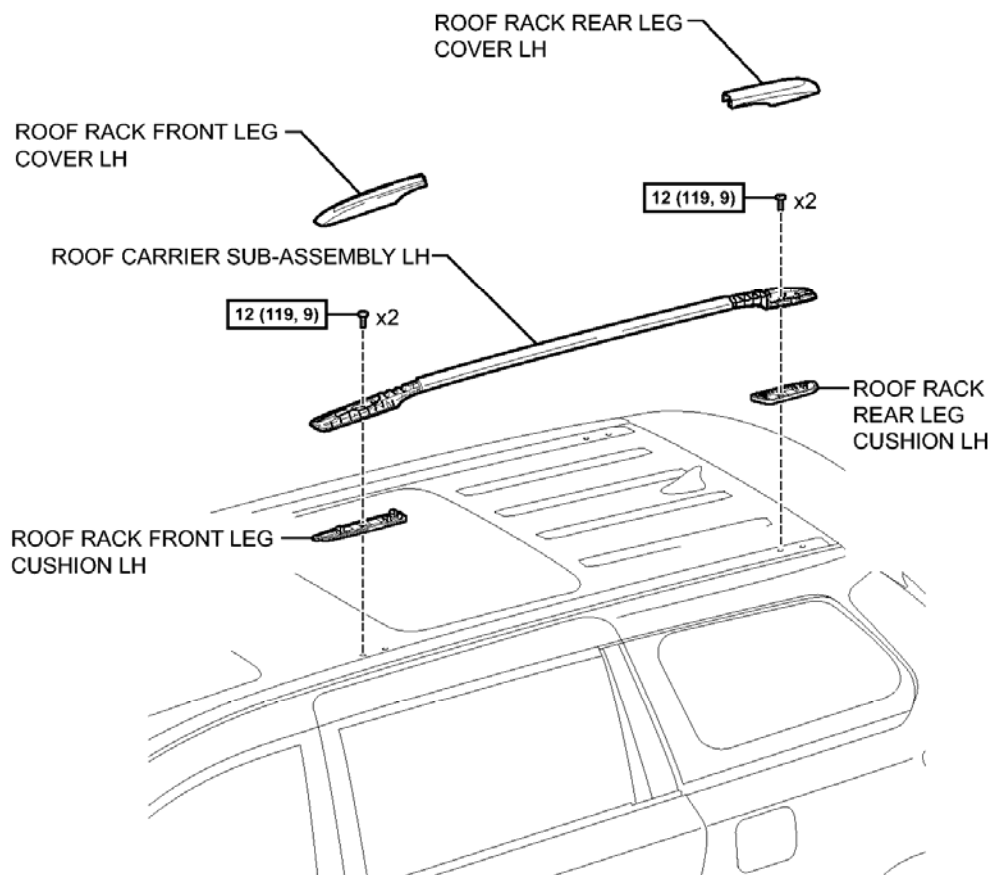
*1|Pin

NOTE: Install the hood emblem in an environment where the ambient temperature is over 20°C (68°F). If it is below 20°C (68°F), using an infrared light, heat the vehicle body and the hood emblem to 20 to 30° C (68 to 86°F) and install the hood emblem.

ROOF RACK

COMPONENTS

ILLUSTRATION



[N*m (kgf*cm, ft.*lbf)]: Specified torque

T

Fig. 75: Roof Rack Replacement Components With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

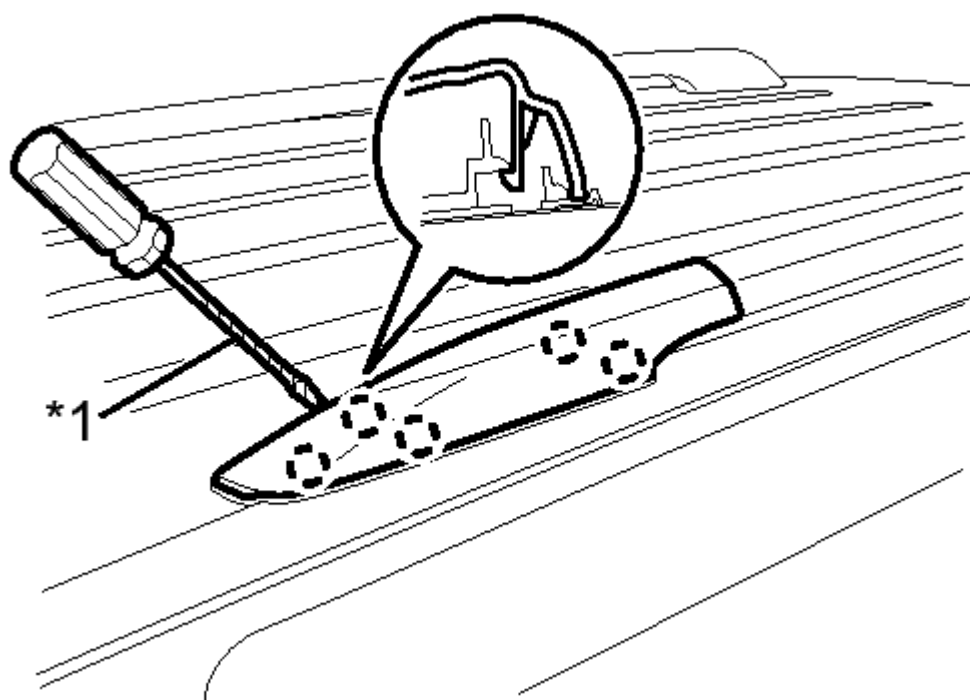
REMOVAL

REMOVAL

HINT:

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

1. REMOVE ROOF RACK FRONT LEG COVER LH



T

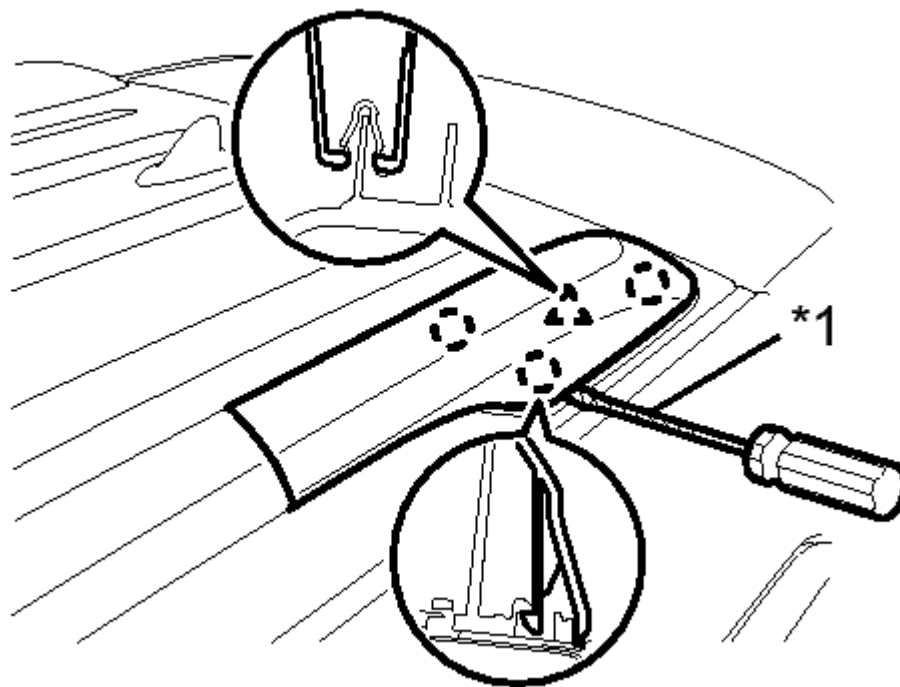
Fig. 76: Removing Roof Rack Front Leg Cover LH & Claws Using Screwdriver
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 5 claws and remove the roof rack front leg cover.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

2. REMOVE ROOF RACK REAR LEG COVER LH



T

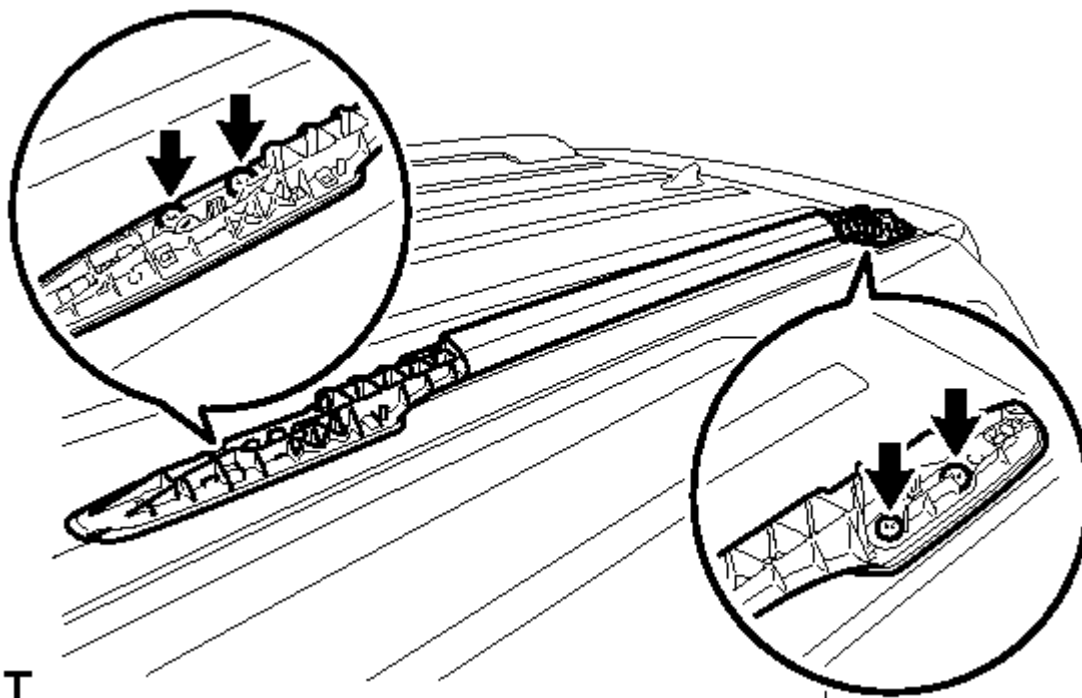
Fig. 77: Removing Roof Rack Rear Leg Cover LH & Fasteners Using Screwdriver
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Using a screwdriver with its tip wrapped in protective tape, disengage the 3 claws, clip and remove the roof rack rear leg cover.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

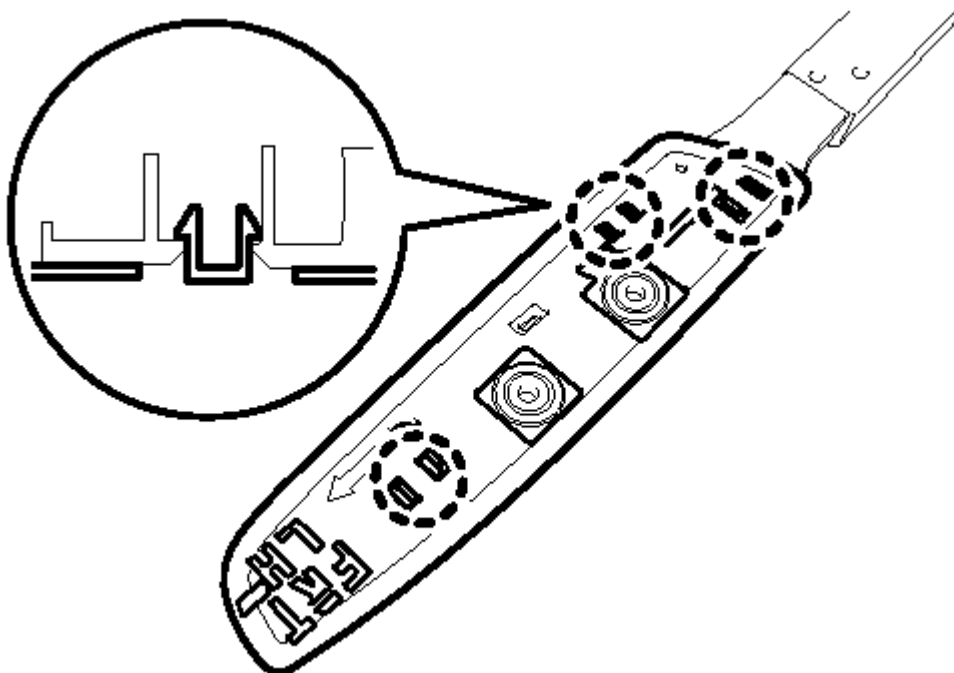
3. REMOVE ROOF CARRIER SUB-ASSEMBLY LH



T

Fig. 78: Removing Roof Carrier Sub-Assembly LH & Fasteners
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Using a T30 "TORX" socket wrench, remove the 4 screws and roof carrier.
4. **REMOVE ROOF RACK FRONT LEG CUSHION LH**



T

Fig. 79: Removing Roof Rack Front Leg Cushion LH & Claws

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

- a. Disengage the 3 claws and remove the roof rack front leg cushion.

5. REMOVE ROOF RACK REAR LEG CUSHION LH

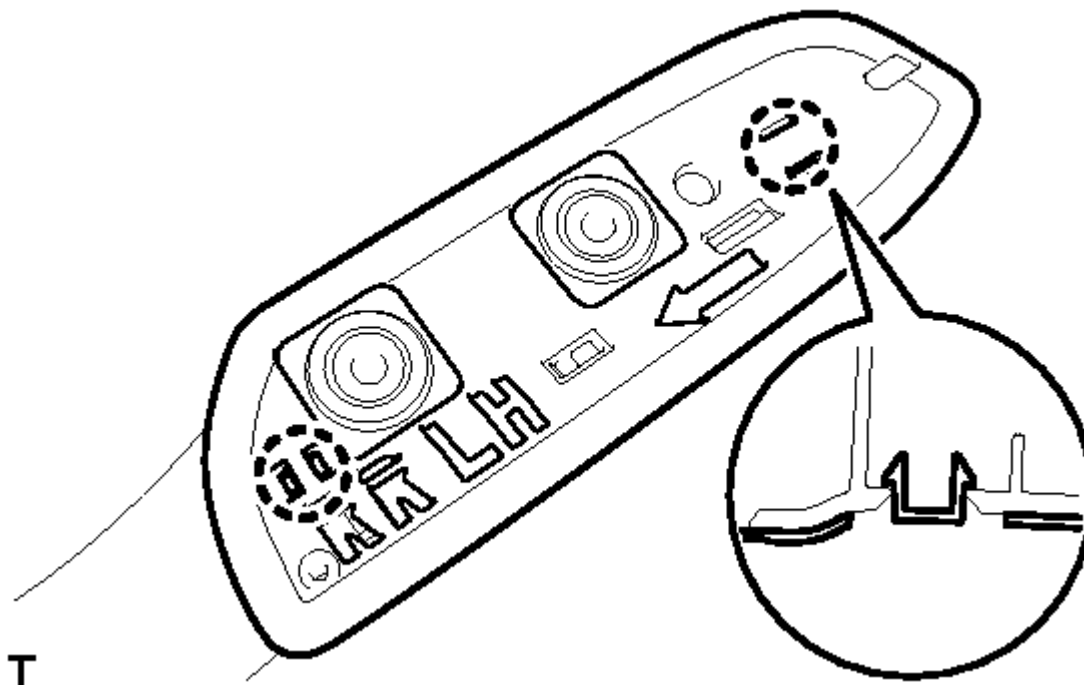


Fig. 80: Removing Roof Rack Rear Leg Cushion LH & Claws
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Disengage the 2 claws and remove the roof rack rear leg cushion.

INSTALLATION

INSTALLATION

1. INSTALL ROOF RACK REAR LEG CUSHION LH

- a. Engage the 2 claws and install the roof rack rear leg cushion.

2. INSTALL ROOF RACK FRONT LEG CUSHION LH

- a. Engage the 3 claws and install the roof rack front leg cushion.

3. INSTALL ROOF CARRIER SUB-ASSEMBLY LH

- a. Using a T30 "TORX" socket wrench, install the roof carrier with the 4 screws.

Torque: 12 N*m (119 kgf*cm, 9 ft.*lbf)

4. INSTALL ROOF RACK REAR LEG COVER LH

- a. Engage the 3 claws, clip and install the roof rack rear leg cover.

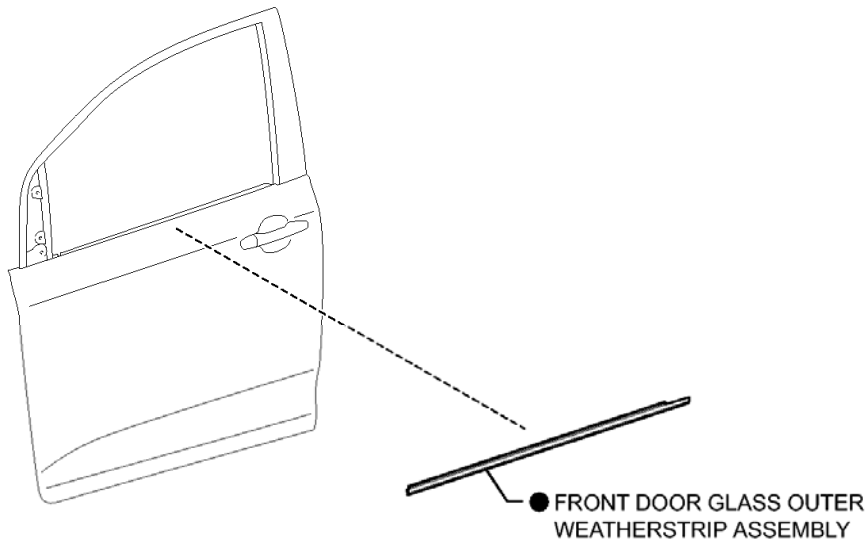
5. INSTALL ROOF RACK FRONT LEG COVER LH

- Engage the 5 claws and install the roof rack front leg cover.

FRONT DOOR BELT MOULDING

COMPONENTS

ILLUSTRATION



● Non-reusable part

T

Fig. 81: Front Door Belt Moulding Replacement Component

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

REMOVAL

REMOVAL

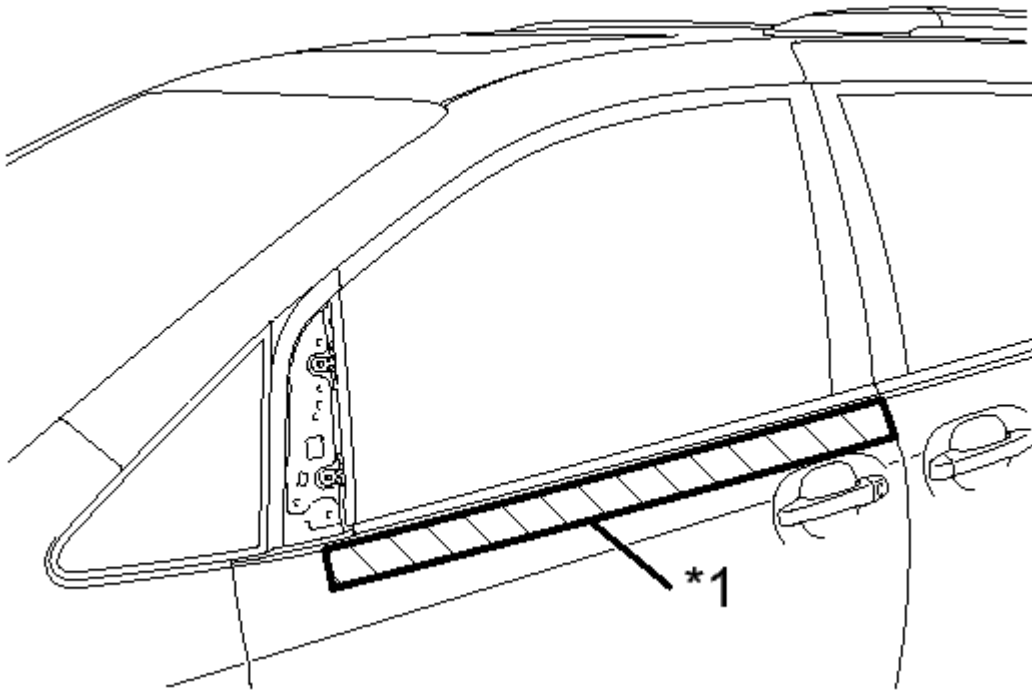
HINT:

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

1. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY

Refer to **REMOVAL**

2. REMOVE FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY



T

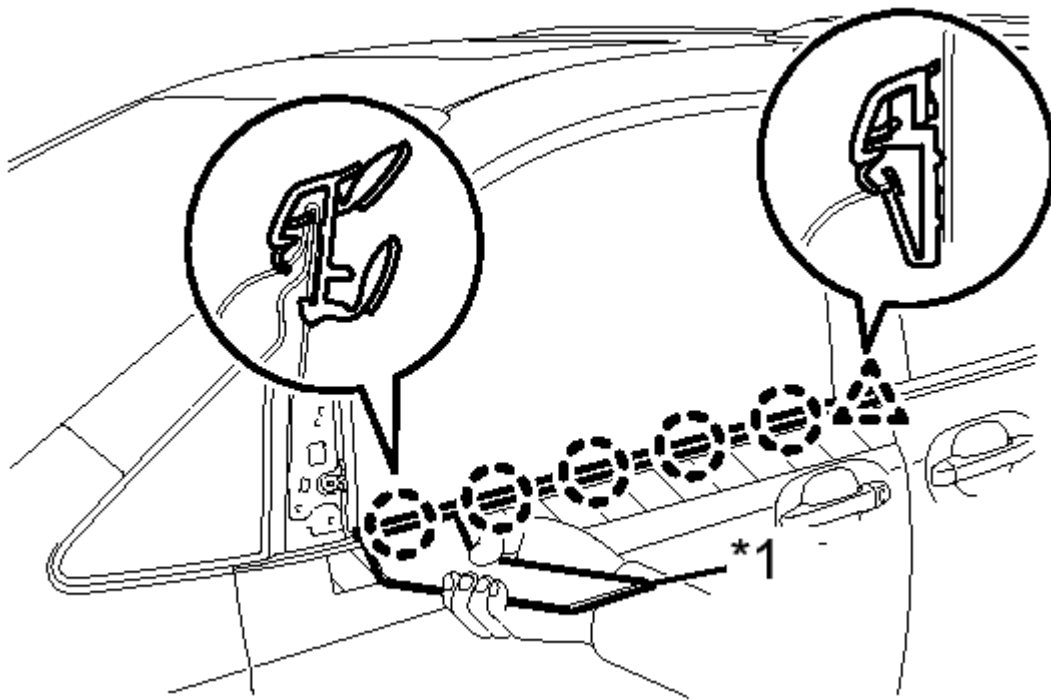
Fig. 82: Identifying Front Door Glass Outer Weatherstrip Assembly Protective Tape
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply protective tape to the door panel in the area around the front door glass outer weatherstrip.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

- b. Using a moulding remover, disengage the 5 claws, clip and remove the front door glass outer weatherstrip.



T

Fig. 83: Removing Front Door Glass Outer Weatherstrip Using Moulding Remover
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Moulding Remover
----	---------------------

INSTALLATION

INSTALLATION

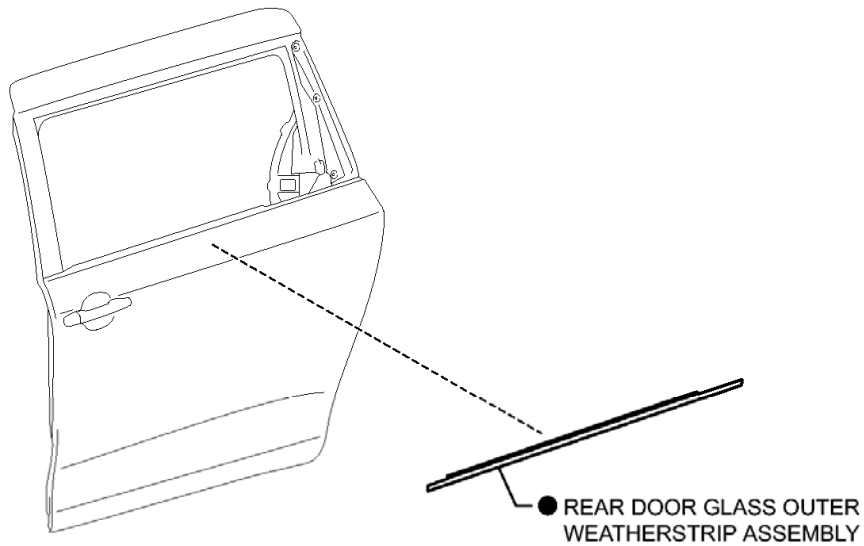
1. **INSTALL FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**
 - a. Engage the 5 claws, clip and install a new front door glass outer weatherstrip.
2. **INSTALL OUTER REAR VIEW MIRROR ASSEMBLY**

Refer to **INSTALLATION**

REAR DOOR BELT MOULDING

COMPONENTS

ILLUSTRATION



● Non-reusable part

T

Fig. 84: Rear Door Belt Moulding Replacement Component
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

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

1. REMOVE REAR DOOR WINDOW FRAME REAR MOULDING

Refer to **REMOVAL**

2. REMOVE REAR DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY

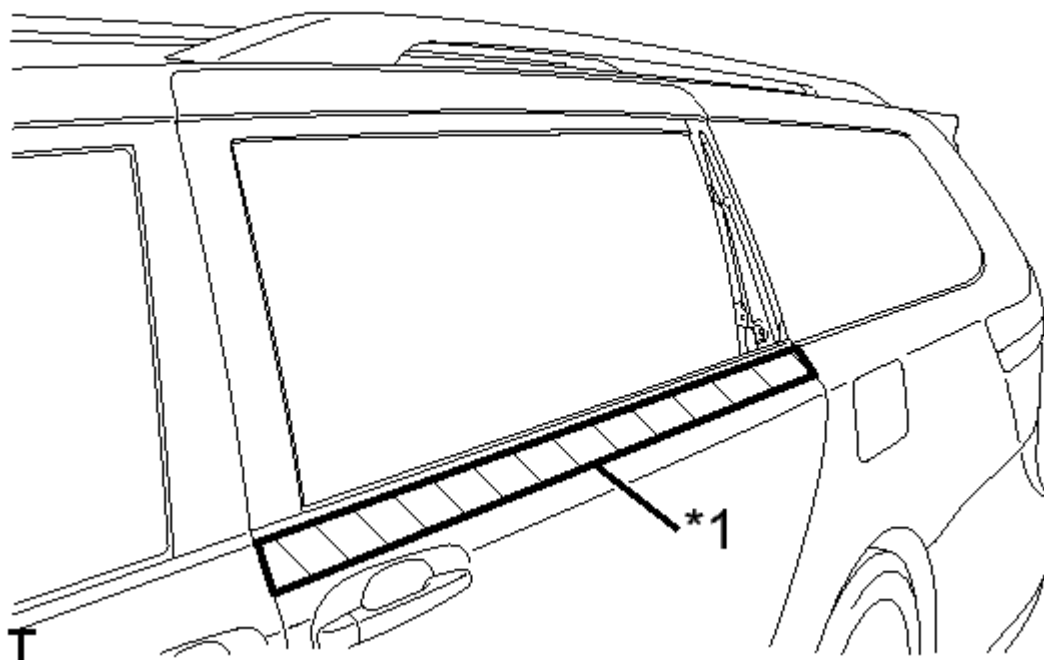


Fig. 85: Identifying Rear Door Glass Outer Weatherstrip Assembly Protective Tape
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply protective tape to the door panel in the area around the rear door glass outer weatherstrip.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

- b. Using a moulding remover, disengage the 6 claws, 2 clips and remove the rear door glass outer weatherstrip.

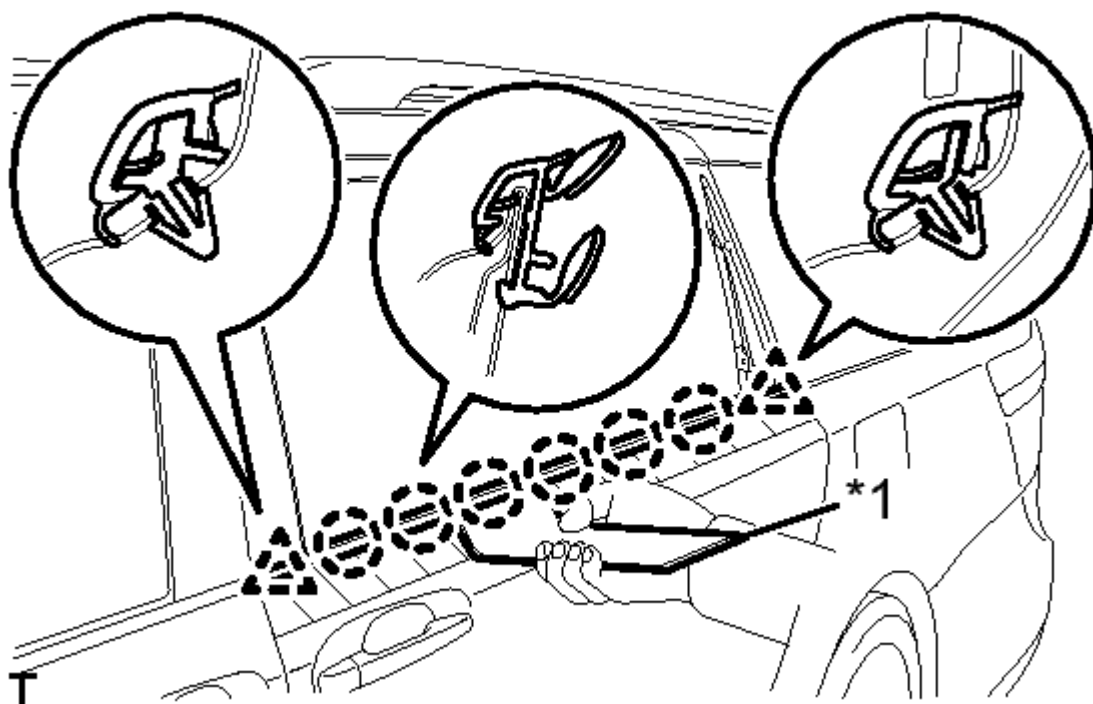


Fig. 86: Removing Rear Door Glass Outer Weatherstrip Using Moulding Remover
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Moulding Remover
----	---------------------

INSTALLATION

INSTALLATION

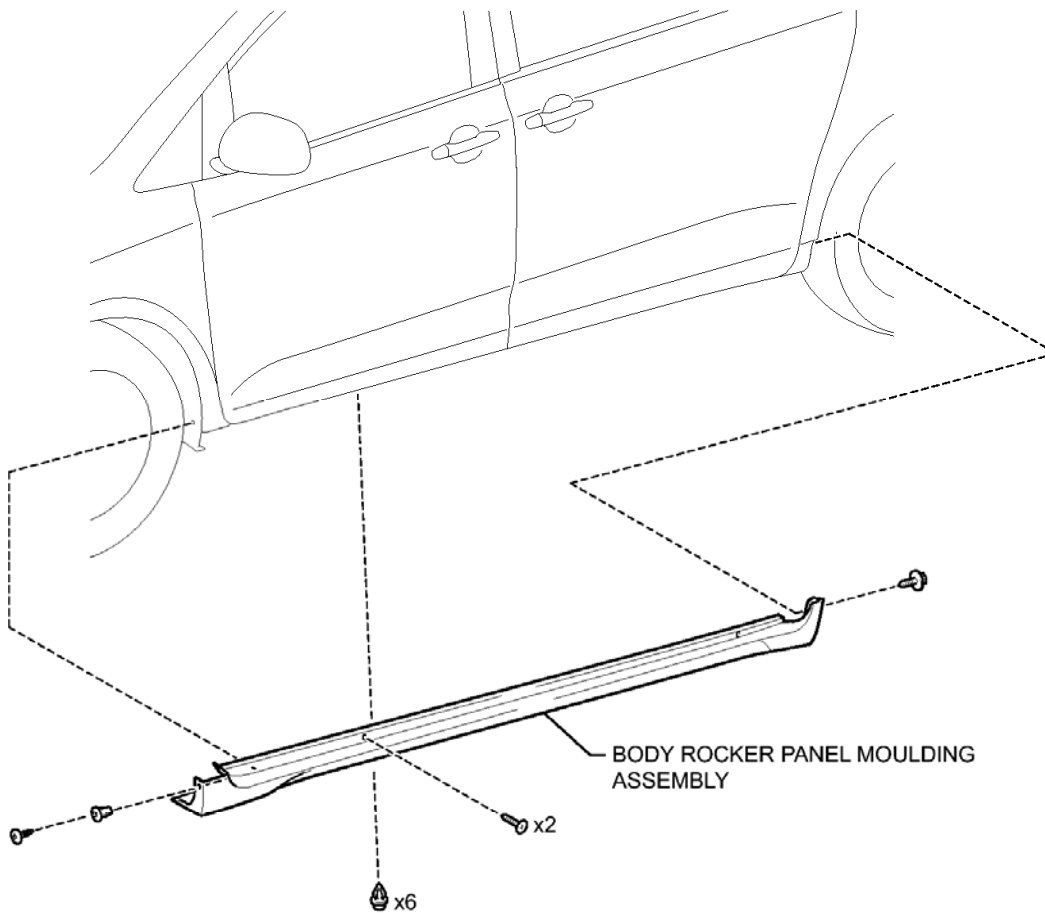
1. **INSTALL REAR DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY**
 - a. Engage the 6 claws, 2 clips and install a new rear door glass outer weatherstrip.
2. **INSTALL REAR DOOR WINDOW FRAME REAR MOULDING**

Refer to **INSTALLATION**

ROCKER PANEL MOULDING

COMPONENTS

ILLUSTRATION



T

Fig. 87: Rocker Panel Moulding Replacement Components

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

REMOVAL

REMOVAL

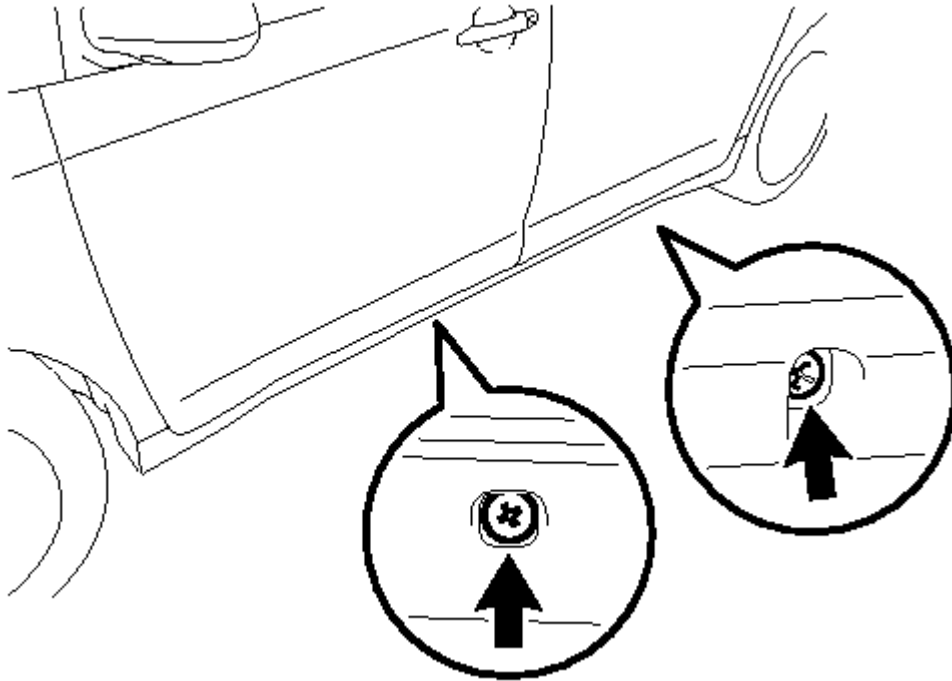
HINT:

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

1. REMOVE ROCKER PANEL MOULDING END FRONT COVER

Refer to **REMOVAL**

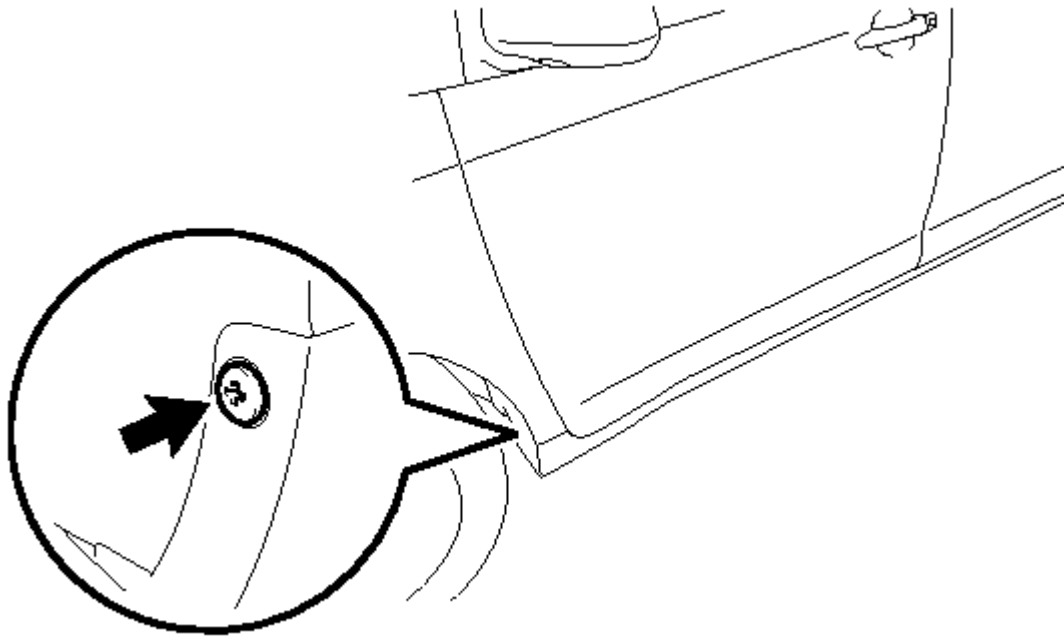
2. REMOVE BODY ROCKER PANEL MOULDING ASSEMBLY



T

Fig. 88: Identifying Body Rocker Panel Moulding Assembly Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

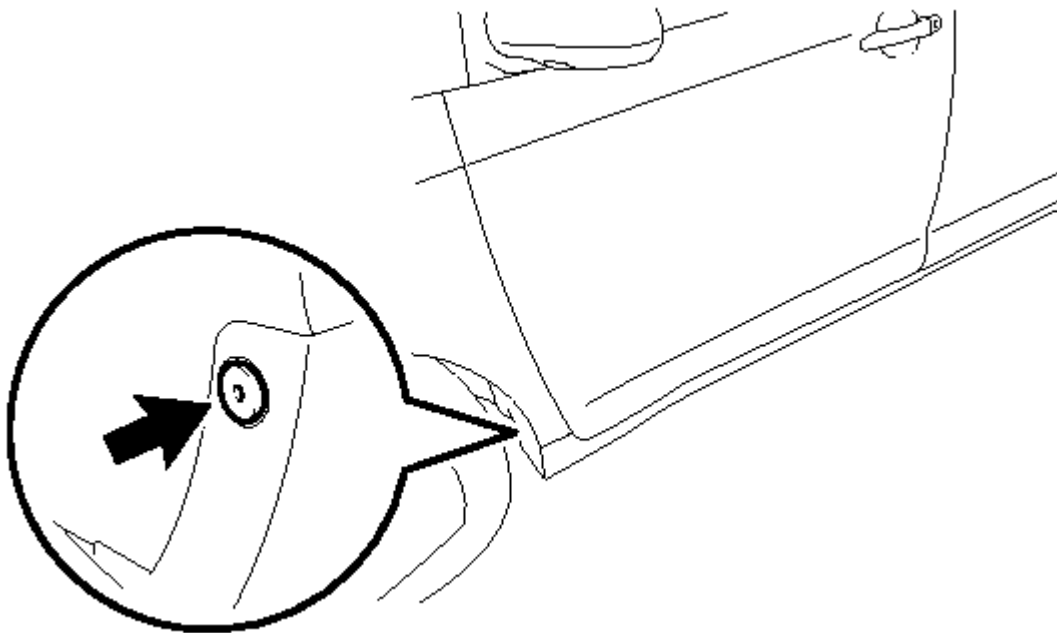
- a. Remove the 2 screws.
- b. Remove the screw.



T

Fig. 89: Identifying Upper Body Rocker Panel Moulding Assembly Fastener
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Remove the screw grommet.



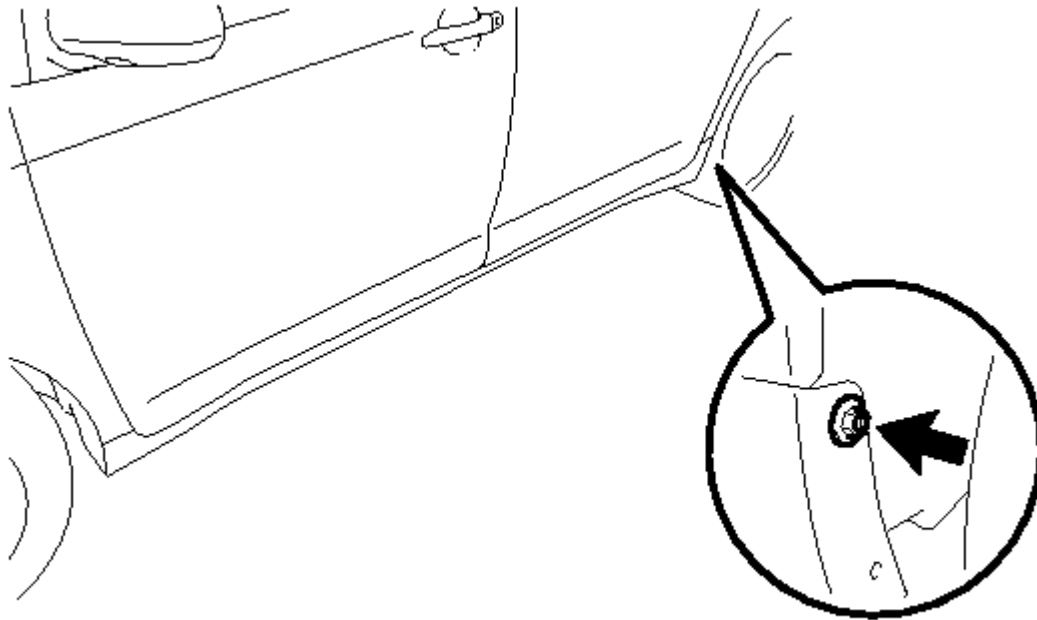
T

Fig. 90: Identifying Upper Body Rocker Panel Moulding Assembly Grommet
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

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

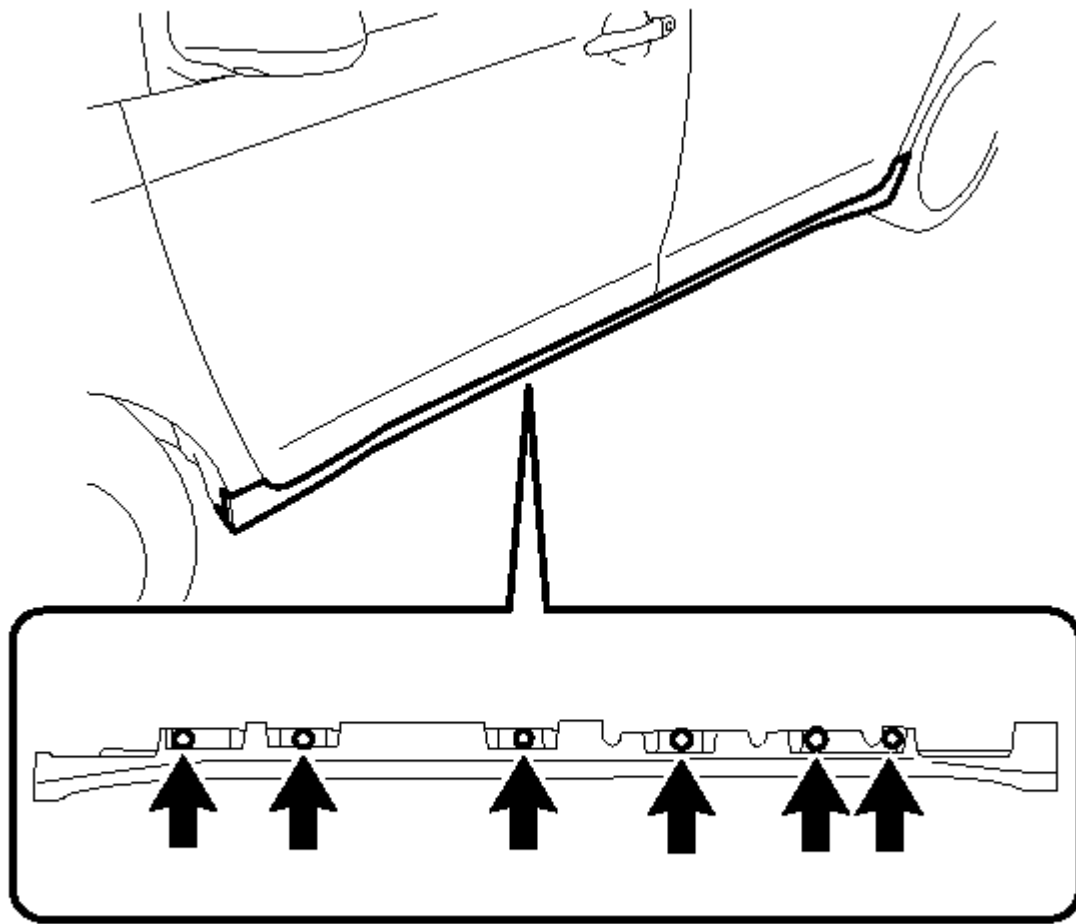
- d. Remove the screw.



T

Fig. 91: Identifying Upper Body Rocker Panel Moulding Assembly Fastener
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

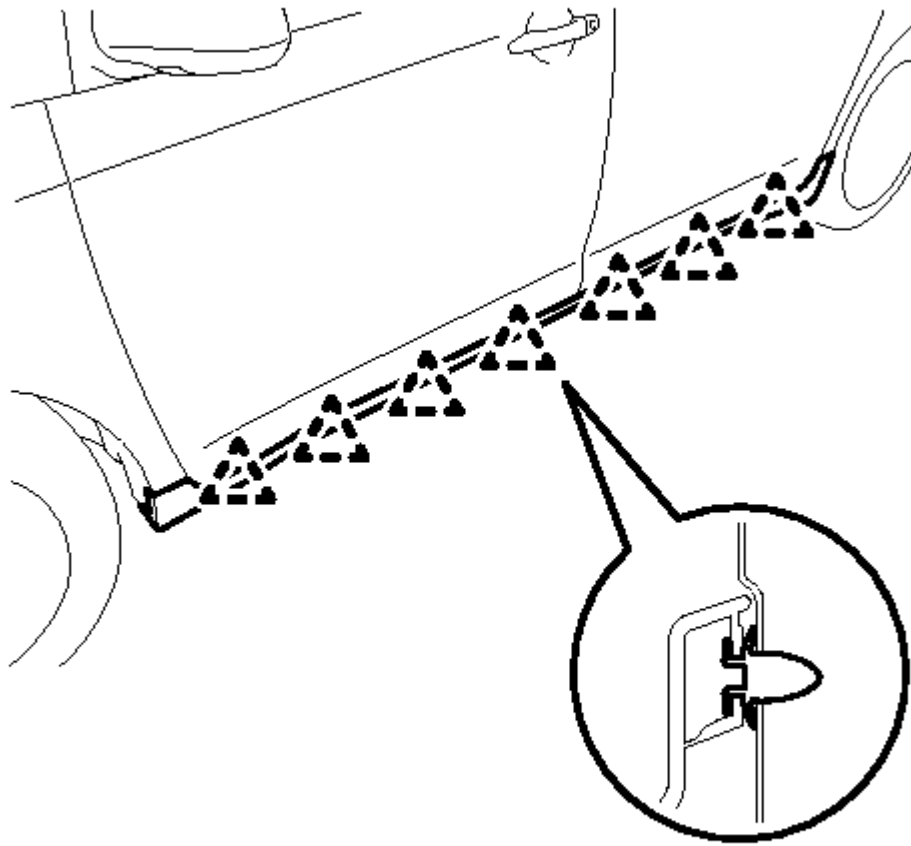
- e. Remove the 6 clips.



T

Fig. 92: Identifying Lower Body Rocker Panel Moulding Assembly Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- f. Disengage the 7 clips and remove the body rocker panel moulding.



T

Fig. 93: Identifying Body Rocker Panel Moulding Assembly Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

INSTALLATION

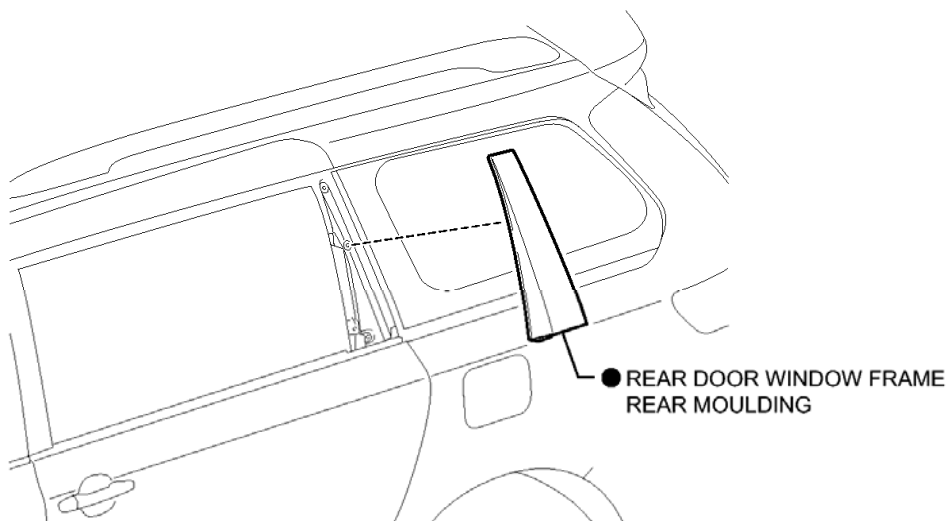
- 1. INSTALL BODY ROCKER PANEL MOULDING ASSEMBLY**
 - a. Engage the 7 clips and install the body rocker panel moulding.
 - b. Install the 6 clips.
 - c. Tighten the screw.
 - d. Install the screw grommet.
 - e. Tighten the screw.
 - f. Tighten the 2 screws.
- 2. INSTALL ROCKER PANEL MOULDING END FRONT COVER**

Refer to **INSTALLATION**

REAR DOOR WINDOW FRAME MOULDING

COMPONENTS

ILLUSTRATION



● Non-reusable part

T

Fig. 94: Rear Door Window Frame Moulding Replacement Component
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

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

1. REMOVE REAR DOOR WINDOW FRAME REAR MOULDING

- a. Using an infrared light, heat the rear door window frame rear moulding.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE:

- Do not heat the vehicle body excessively.
 - Remove any tape remaining on the rear door panel.
- b. Pull out the rear door window frame rear moulding with the door closed, and then remove the rear door window frame rear moulding while peeling off the double-sided tape.

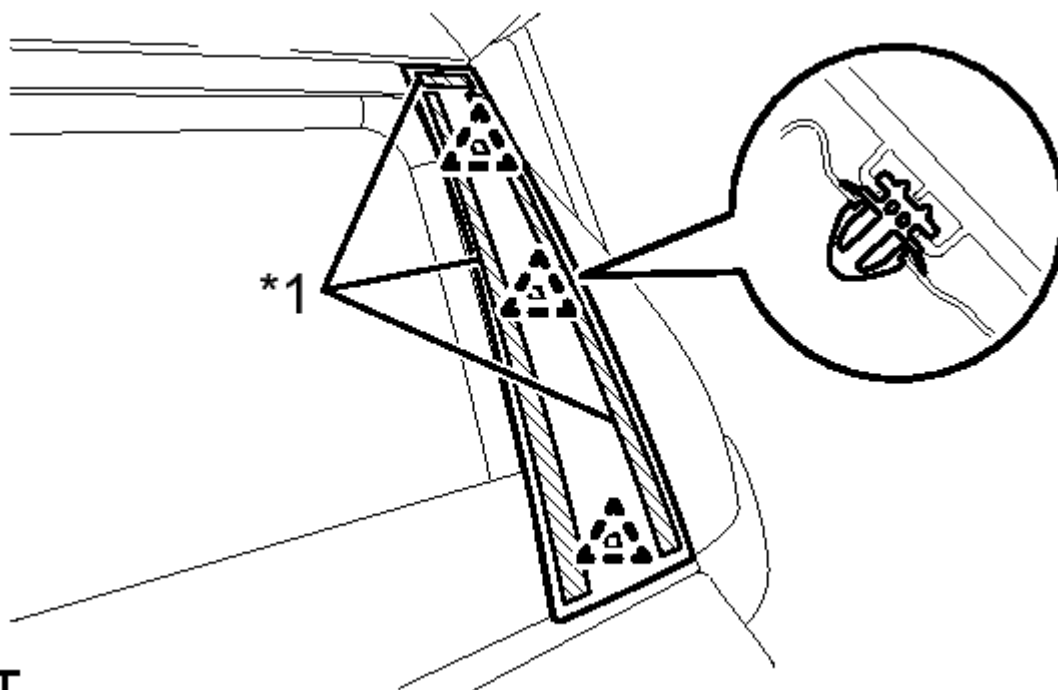


Fig. 95: Identifying Rear Door Window Frame Rear Moulding Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TEXT IN ILLUSTRATION

*1	Double- sided Tape
----	--------------------------

INSTALLATION

INSTALLATION

1. INSTALL REAR DOOR WINDOW FRAME REAR MOULDING

- a. Clean the attachment surface.
 1. Using an infrared light, heat the adhesive remaining on the body.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

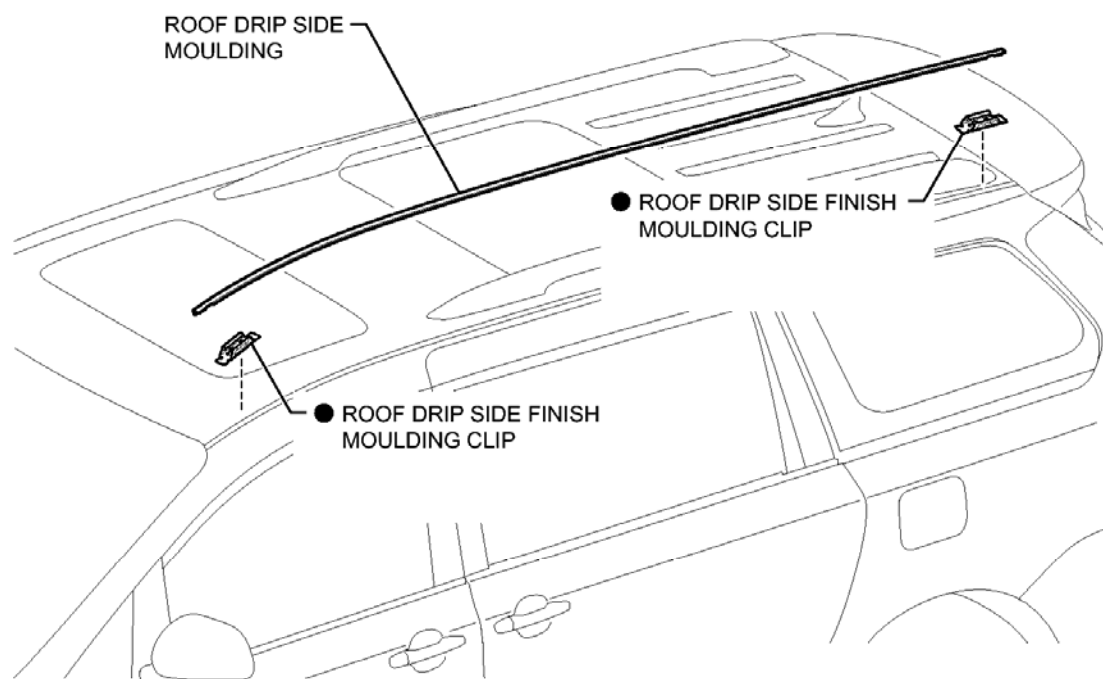
2. Using a piece of cloth, rub the remaining adhesive off the body.
 3. Using a non-residue solvent, clean the attachment surface.
- b. Remove the double-sided tape backing of the rear door window frame rear moulding.
- c. Engage the 3 clips and install a new rear door window frame rear moulding.

NOTE: Thoroughly press the rear door window frame rear moulding to ensure that it adheres.

ROOF DRIP SIDE FINISH MOULDING

COMPONENTS

ILLUSTRATION



● Non-reusable part

T

Fig. 96: Roof Drip Side Moulding Replacement Components
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

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

1. REMOVE ROOF DRIP SIDE MOULDING

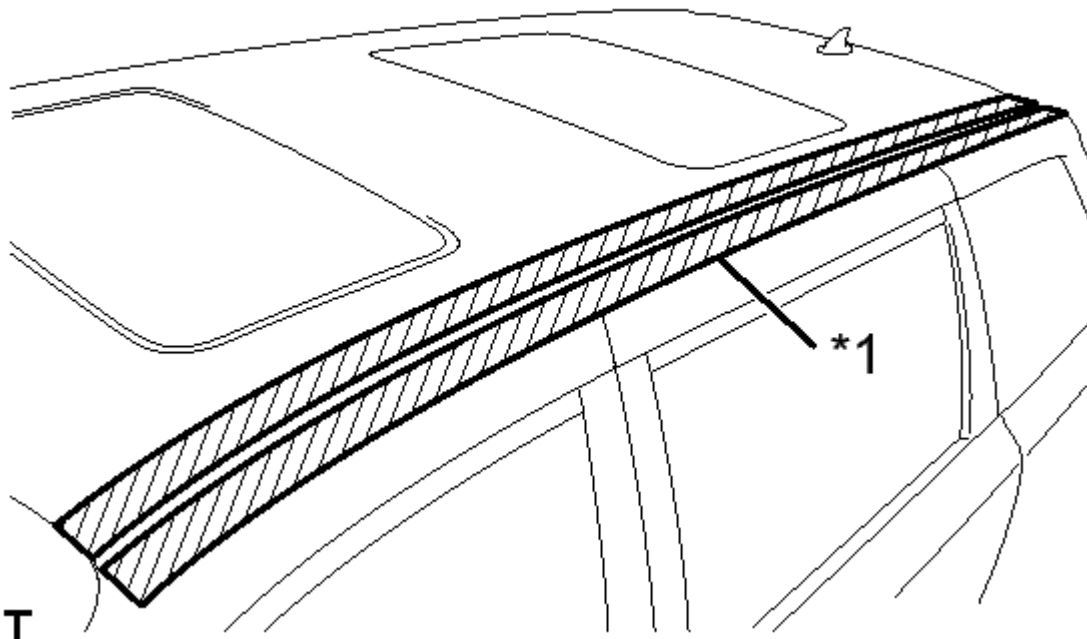


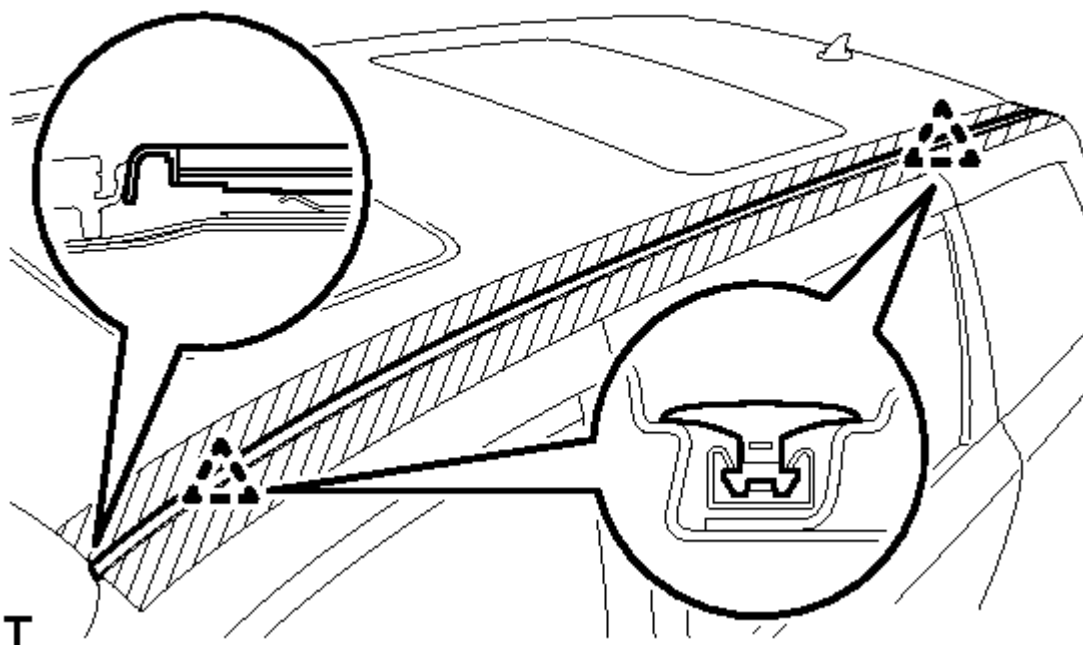
Fig. 97: Identifying Roof Drip Side Moulding Protective Tape
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Apply protective tape as shown in the illustration.

TEXT IN ILLUSTRATION

*1	Protective Tape
----	--------------------

- b. Disengage the 2 clips and remove the roof drip side moulding.



T

Fig. 98: Identifying Roof Drip Side Moulding Clips
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

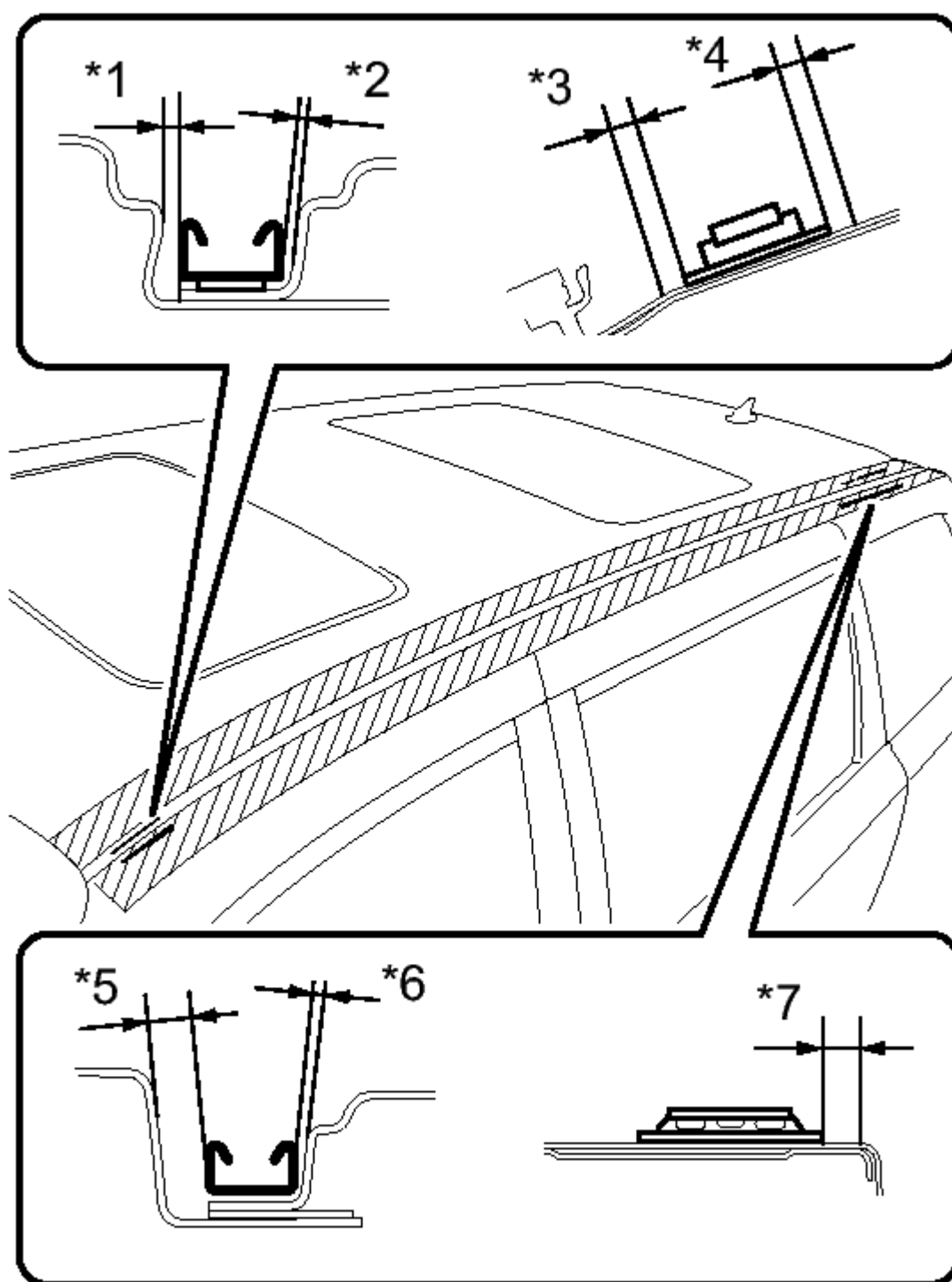
NOTE:

- Do not remove the clips.
- Replace the clips with supply clips if damaged.

INSTALLATION

INSTALLATION

1. **INSTALL ROOF DRIP SIDE FINISH MOULDING CLIP**



T

Fig. 99: Installing Roof Drip Side Finish Moulding Clips
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: Follow these procedures only when replacing the clips.

- a. Remove the tape that remains on the moulding surface of the vehicle body, and then clean the surface with a non-residue solvent.
- b. Using an infrared light, heat the clip installation surface of the vehicle body and roof drip side finish moulding.

HEATING TEMPERATURE

Area	Temperature
Vehicle Body	40 to 60°C (104 to 140°F)
Roof Drip Side Finish Moulding	20 to 30°C (68 to 86°F)

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not excessively heat the vehicle body or roof drip side finish moulding.

- c. Install new clips in the positions shown in the illustration. Press in the clips by hand.

Specification

Area	Measurement
*1	1.6 mm (0.0630 in.)
*2	1 mm (0.0394 in.)
*3	3.8 mm (0.150 in.)
*4	4.2 mm (0.165 in.)
*5	4.7 mm (0.185 in.)
*6	0.9 mm (0.0354 in.)
*7	7.7 mm (0.303 in.)

NOTE: After pressing in the clips, wait 30 minutes or more before installing the roof drip side finish moulding.

HINT:

- Minimum hardening time: 30 minutes
- Time needed for complete hardening: 24 hours

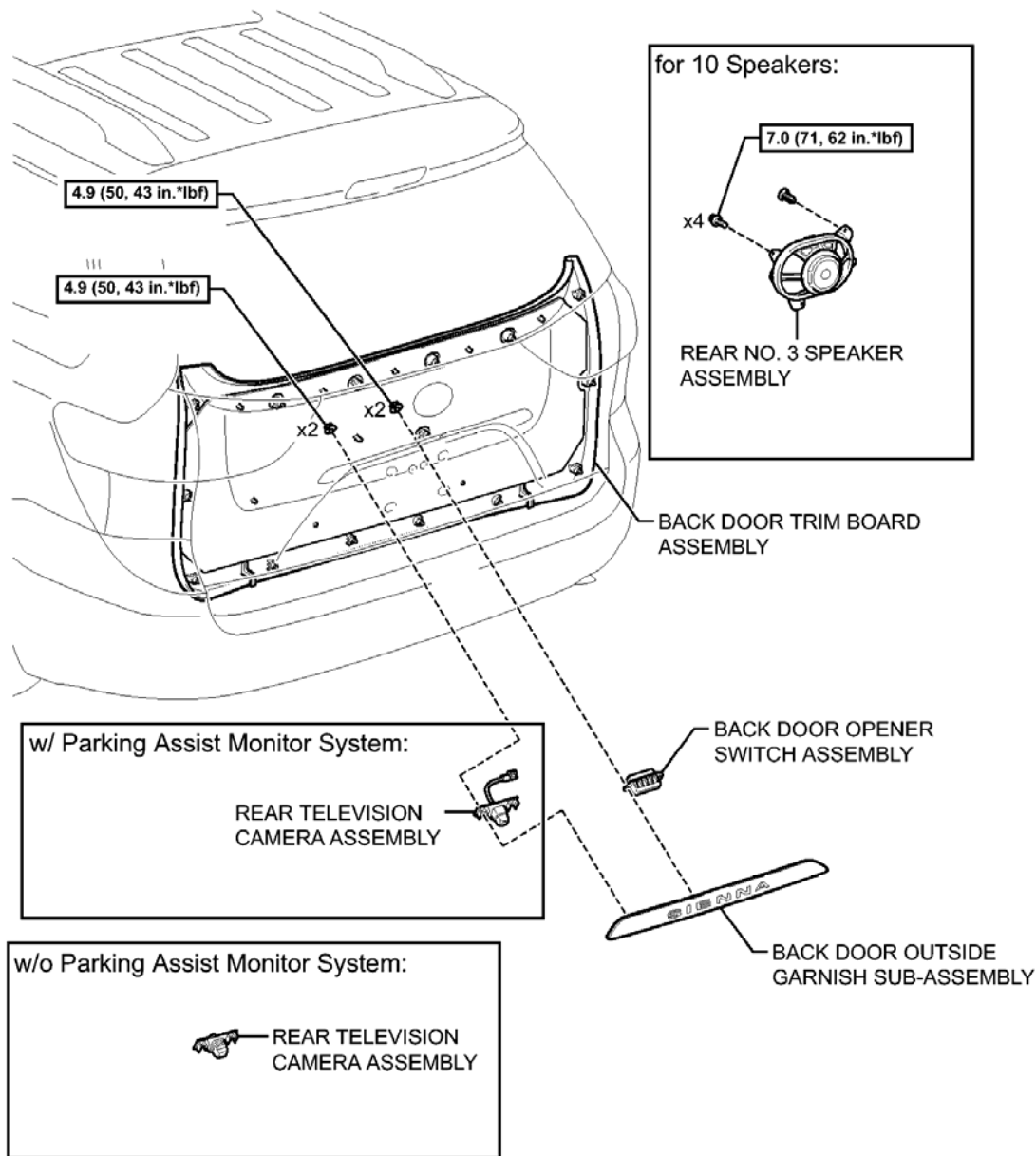
2. INSTALL ROOF DRIP SIDE MOULDING

- a. Engage the 2 clips and install the roof drip side moulding.

BACK DOOR GARNISH

COMPONENTS

ILLUSTRATION



[N*m (kgf*cm, ft.*lbf)]: Specified torque

Fig. 100: Television Camera Replacement Components With Torque Specifications
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

1. REMOVE BACK DOOR TRIM BOARD ASSEMBLY . Refer to DISASSEMBLY - Step 2

2. **REMOVE REAR NO. 3 SPEAKER ASSEMBLY (for 10 Speakers)** . Refer to **REMOVAL - Step 2**
3. **REMOVE BACK DOOR OUTSIDE GARNISH SUB-ASSEMBLY**

- a. Disengage the clamp and disconnect the connectors.

HINT:

If the vehicle is equipped with parking assist monitor system, disconnect the clamp.

- b. Remove the 4 nuts.

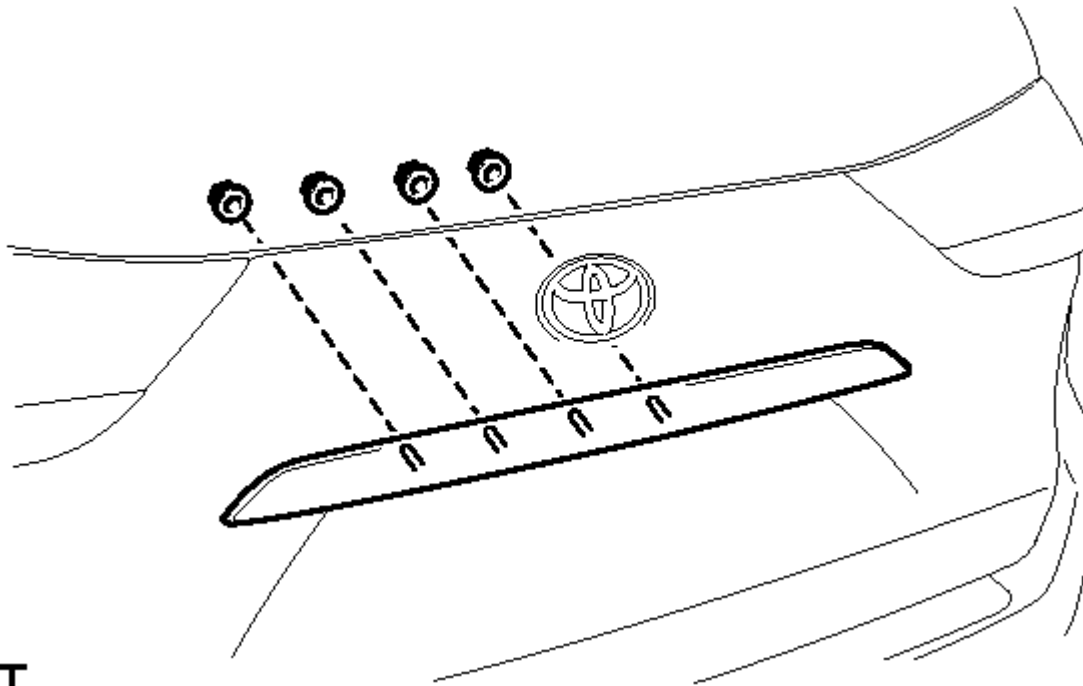
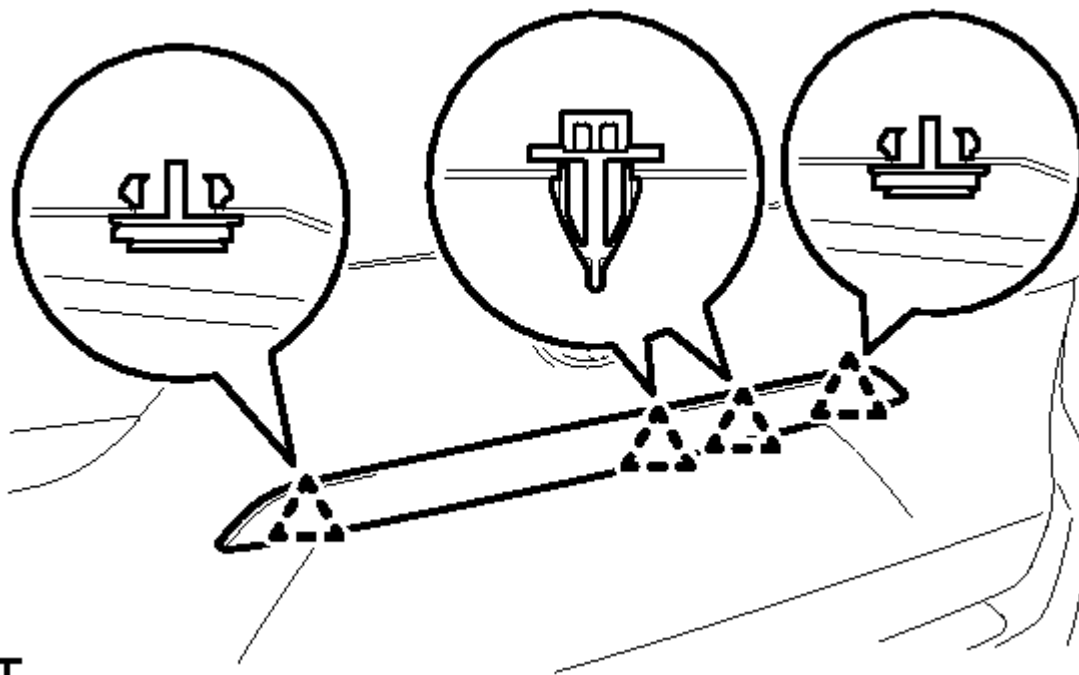


Fig. 101: Identifying Back Door Outside Garnish & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- c. Disengage the 4 clips and remove the back door outside garnish.



T

Fig. 102: Identifying Back Door Outside Garnish & Clips

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

4. **REMOVE BACK DOOR OPENER SWITCH ASSEMBLY** . Refer to **REMOVAL - Step 3**
5. **REMOVE REAR TELEVISION CAMERA ASSEMBLY (w/o Parking Assist Monitor System)** . Refer to **REMOVAL - Step 5**
6. **REMOVE REAR TELEVISION CAMERA ASSEMBLY (w/ Parking Assist Monitor System)** . Refer to **REMOVAL - Step 6**

INSTALLATION

INSTALLATION

1. **INSTALL REAR TELEVISION CAMERA ASSEMBLY (w/o Parking Assist Monitor System)** . Refer to **INSTALLATION - Step 1**
2. **INSTALL REAR TELEVISION CAMERA ASSEMBLY (w/ Parking Assist Monitor System)** . Refer to **INSTALLATION - Step 2**
3. **INSTALL BACK DOOR OPENER SWITCH ASSEMBLY** . Refer to **INSTALLATION - Step 1**
4. **INSTALL BACK DOOR OUTSIDE GARNISH SUB-ASSEMBLY**
 - a. Engage the 4 clips and install the back door outside garnish.
 - b. Tighten the 4 nuts.

Torque: 4.9 N*m (50 kgf*cm, 43 in.*lbf)

- c. Engage the clamp and connect the connectors.

HINT:

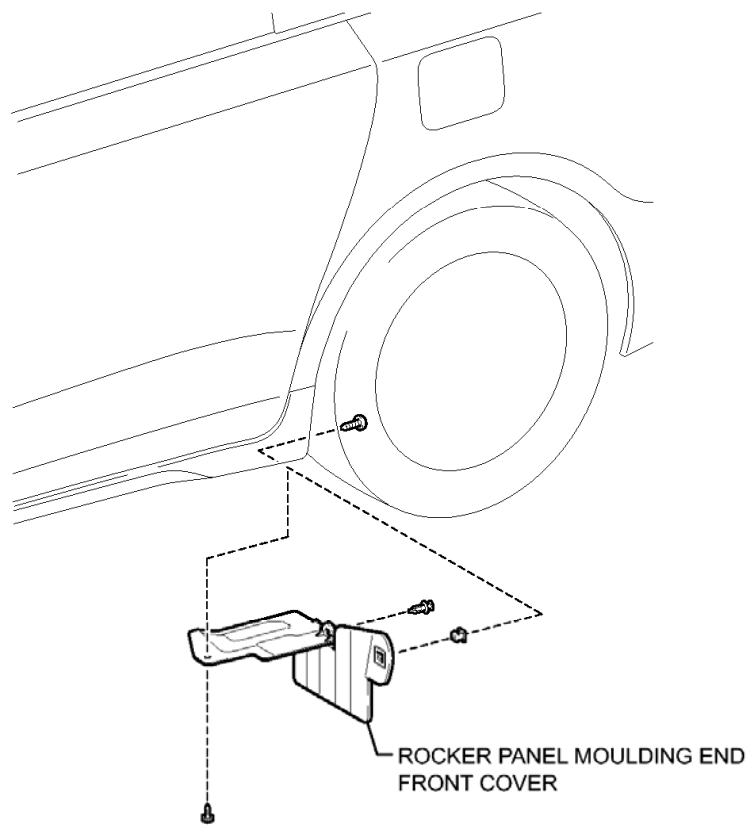
If the vehicle is equipped with parking assist monitor system, engage the clamp.

5. **INSTALL REAR NO. 3 SPEAKER ASSEMBLY (for 10 Speakers)** . Refer to **INSTALLATION - Step 1**
6. **INSTALL BACK DOOR TRIM BOARD ASSEMBLY** . Refer to **REASSEMBLY - Step 27**

REAR WHEEL HOUSE PLATE

COMPONENTS

ILLUSTRATION



T

Fig. 103: Rear Wheel House Plate Replacement Components
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

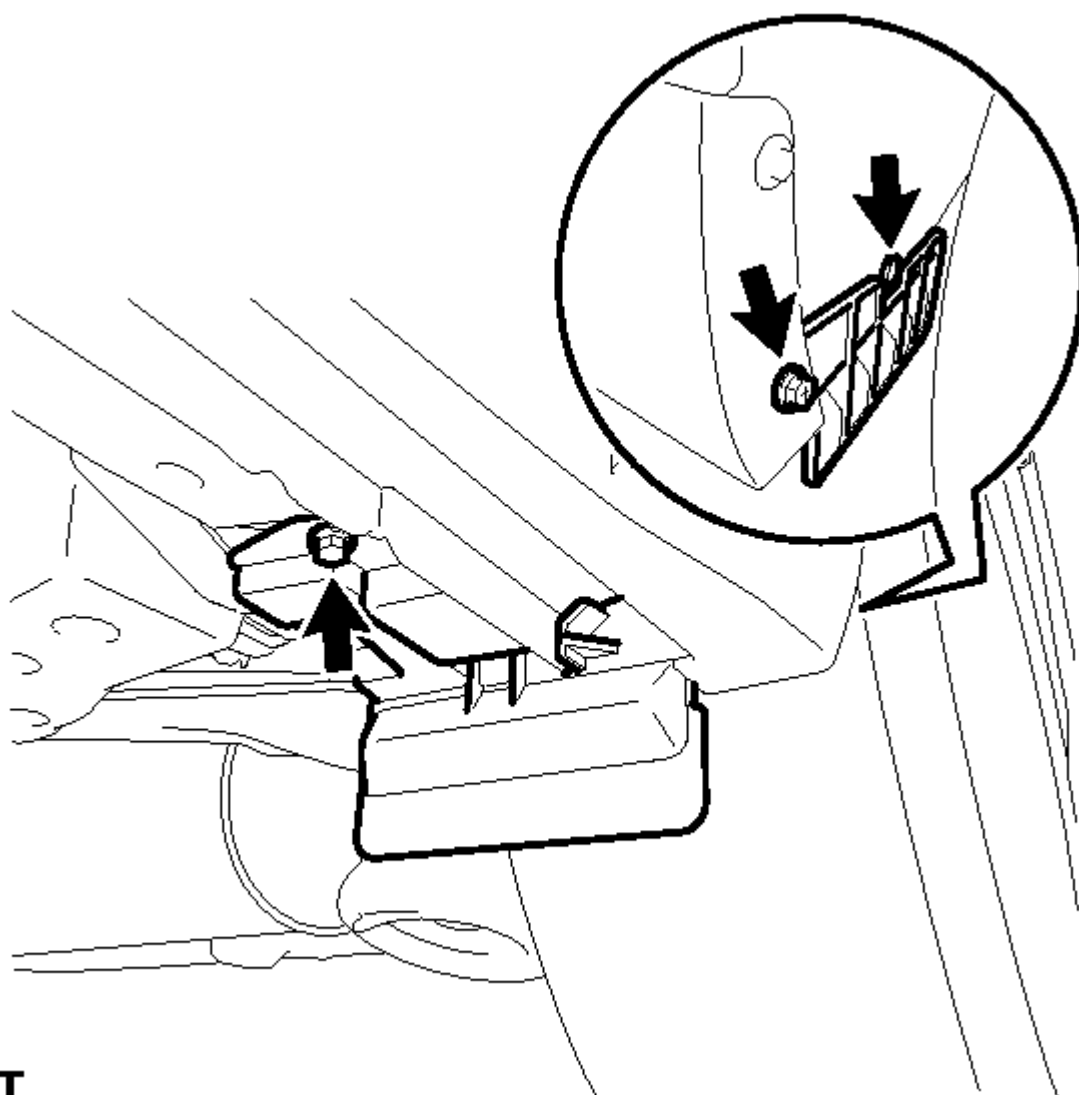
REMOVAL

REMOVAL

HINT:

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

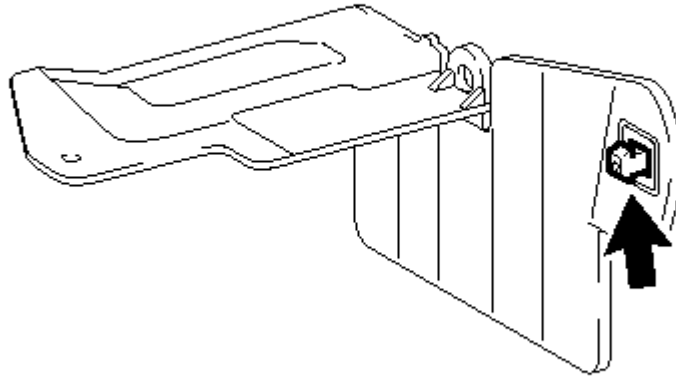
1. REMOVE ROCKER PANEL MOULDING END FRONT COVER



T

Fig. 104: Identifying Rocker Panel Moulding End Front Cover & Fasteners
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. Remove the 2 screws, clip and rocker panel moulding end front cover.
- b. Remove the screw grommet.



T

Fig. 105: Identifying Rocker Panel Moulding End Front Cover Screw Grommet
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

INSTALLATION

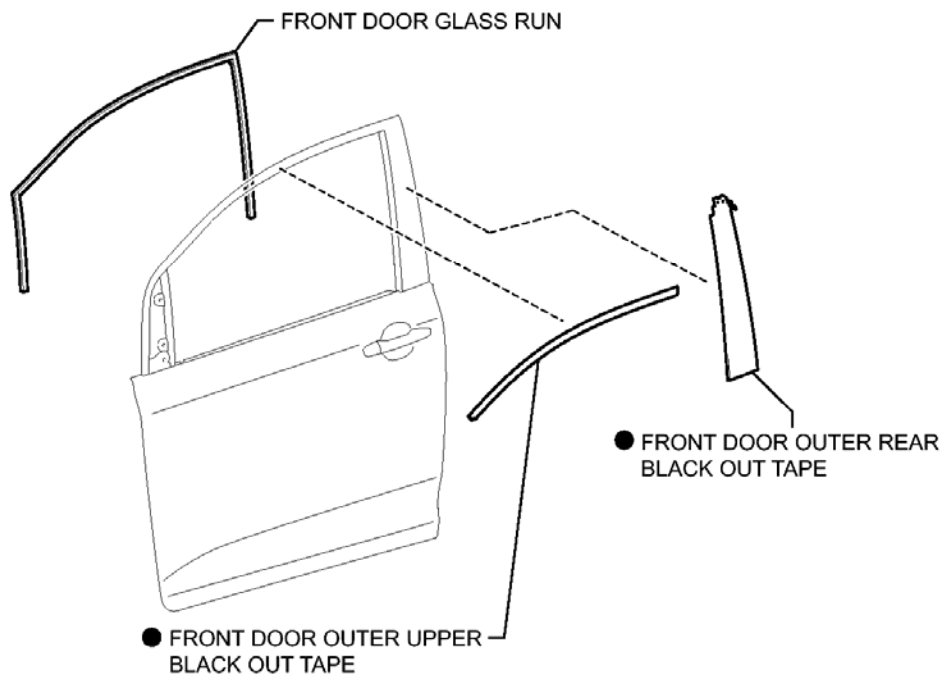
INSTALLATION

1. **REMOVE ROCKER PANEL MOULDING END FRONT COVER**
 - a. Install the screw grommet onto the rocker panel moulding end front cover.
 - b. Install the rocker panel moulding end front cover with the 2 screws and clip.

BLACK OUT TAPE (FOR FRONT DOOR)

COMPONENTS

ILLUSTRATION



● Non-reusable part

T

Fig. 106: Black Out Tape Replacement Components (For Front Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

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

1. REMOVE FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY

Refer to **REMOVAL**

2. REMOVE FRONT DOOR GLASS RUN

HINT:

Use the same procedure as for the RH side. Refer to **DISASSEMBLY - Step 17** .

3. REMOVE FRONT DOOR OUTER UPPER BLACK OUT TAPE

- a. Using an infrared light, heat the front door outer upper black out tape.

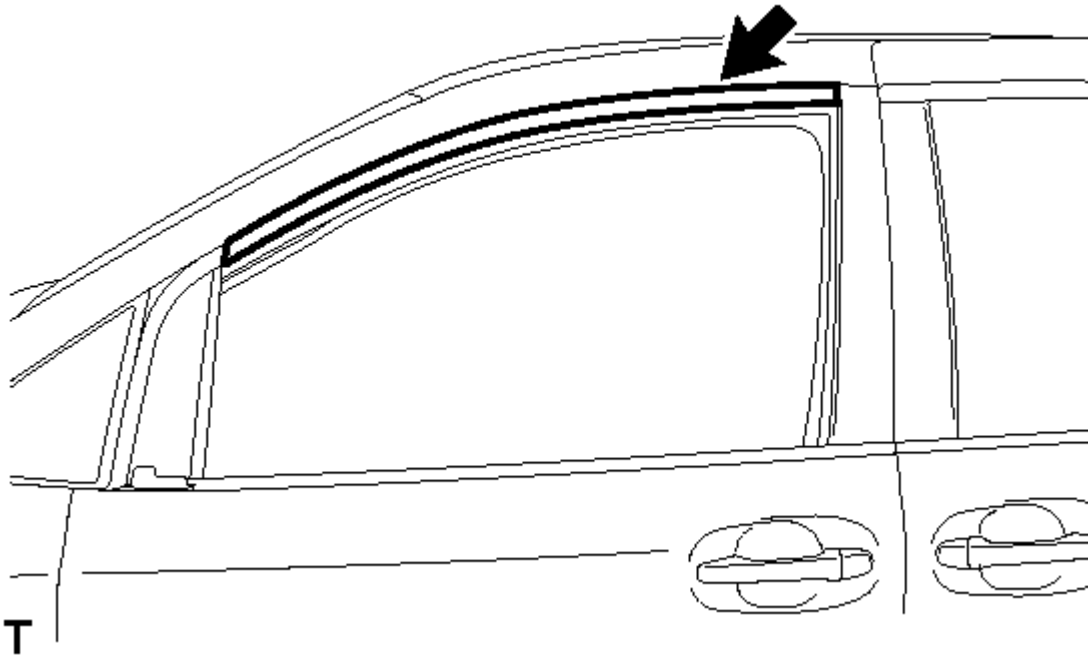


Fig. 107: Identifying Front Door Outer Upper Black Out Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

- b. Lift the end portion with your nail and peel it parallel to the attachment surface.

4. REMOVE FRONT DOOR OUTER REAR BLACK OUT TAPE

- a. Using an infrared light, heat the front door outer rear black out tape.

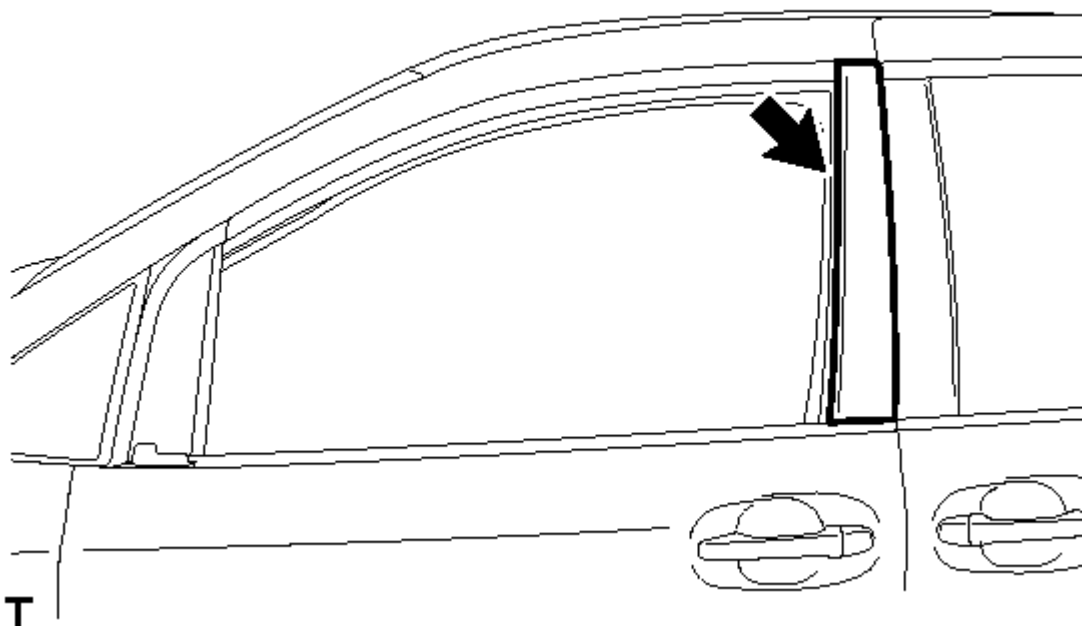


Fig. 108: Identifying Front Door Outer Rear Black Out Tape
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

- b. Lift the end portion with your nail and peel it parallel to the attachment surface.

INSTALLATION

INSTALLATION

1. INSTALL FRONT DOOR OUTER REAR BLACK OUT TAPE

- a. Application precautions.

1. Application temperature.

- a. If the temperature is below 15°C (59°F), using an infrared light, heat the base (body attachment surface) and black out tape to between 20 and 30°C (68 and 86°F). If the

temperature is over 35°C (95°F), perform the operation after lowering the temperature to below 35°C (95°F).

HINT:

- The most suitable temperature for applying the black out tape is 25°C (77°F).
- The black out tape cannot be applied correctly at low temperatures due to its stiffness and weak adhesion. The tape loses its consistency at high temperature.

2. Pre-application procedure.

- a. Any uneven twisting or dust on the base (body attachment surface) causes a defective appearance due to air being trapped under the black out tape during application. Make sure that there is no uneven twisting or dust on or around the base of black out tape.

HINT:

When the air is dry in winter, put cardboard between the pieces of black out tape and keep them in a dry flat place.

3. Handling.

- a. Keep the black out tape in a dry, flat, and level place because it is easily deformed.

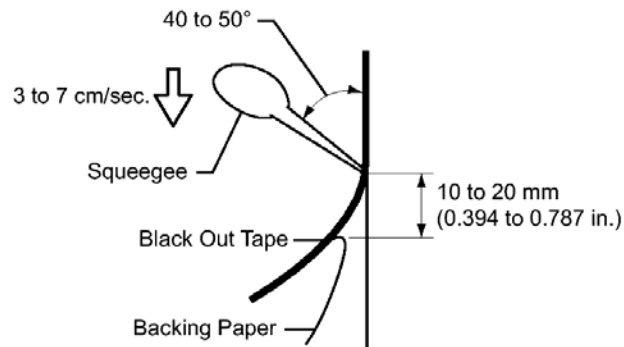
NOTE: Do not fold, bend or expose the tape to high temperatures.

4. Application method (method of squeegee operation and application for general portions).

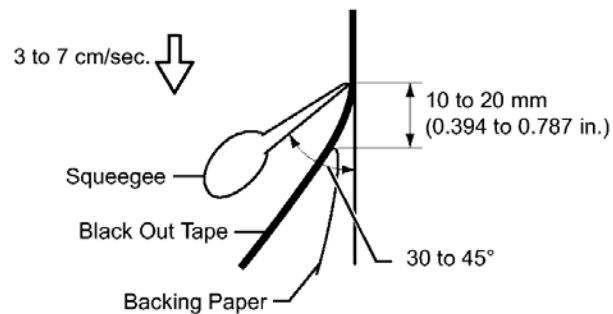
NOTE:

- **The positioning accuracy must be within 1 mm (0.039 in.) when starting the application. Otherwise, poor appearance and adhesion will result.**
 - **Do not reuse black out tape that has been removed. Reuse causes deformation and weak adhesion.**
- a. In order to suppress bubble formation, slightly raise the portion not being pressed by the squeegee away from the base. Tilt the squeegee between 40 and 50° (in the pushing direction) and between 30 and 45° (in the pulling direction), and apply 20 to 30 N (2 to 3 kg, 4 to 6 lb) of pressure at a velocity of 3 to 7 cm/sec. while pushing out the air.

Pushing Direction:



Pulling Direction:



T

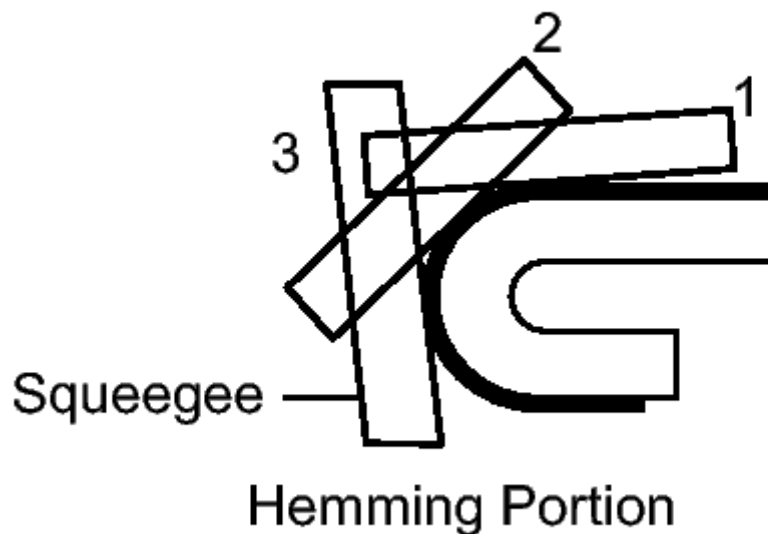
Fig. 109: Identifying Black Out Tape Pull And Push Direction
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

NOTE: While using the squeegee, do not change the speed, stop the operation or change the force of the application. Doing so could cause a streak, called a shock line, across the surface of the black out tape. While using the squeegee, keep the speed and force of application constant and the angle correct.

HINT:

- The squeegee can be tilted in either the pushing direction or in the pulling direction against the attachment portion.
- Perform the procedure while peeling the backing paper off the black out tape, 10 to 20 mm (0.394 to 0.787 in.) from the end of the squeegee.

5. Application method (method of squeegee operation).



T

Fig. 110: Application Method (Method Of Squeegee Operation)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- a. If the tape cannot be pressed in one step using the squeegee, perform the application in several steps. Using your finger or a thicker part of the squeegee, gradually apply the tape to the rounded hemming portion in 2 or 3 steps.

HINT:

Peel off the backing paper at the hemming portion and apply the black out tape with your finger or a thicker part of the squeegee.

6. Application method (method of squeegee operation and application method for corner sections).
 - a. Peel the backing paper off the corner section and carefully apply the tape using a finger.
 - b. In order to prevent deterioration in appearance caused by the tape pin angle, turn in the tape at the corner after heating the black out tape with a dryer.
7. Inspection.
 - a. If the black out tape is not smooth, repeat the application using new black out tape.

NOTE: Do not use a needle to remove bubbles in any glazed tape being applied to the outer panel, in order to prevent scratches.

HINT:

Use an instant adhesive if the hemming or corner portions of the black out tape are partially peeled off.

- b. Clean the attachment surface (using an infrared light).
 1. Using an infrared light, heat any black out tape and adhesive remaining on the body.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

2. Using a piece of cloth, rub the remaining black out tape and adhesive off the body.
 3. Using a non-residue solvent, clean the attachment surface.
- c. Clean the attachment surface (using a tape removal disc).
 1. Set the 8 discs in the holder and insert the removal disc into an air drill or electric drill.

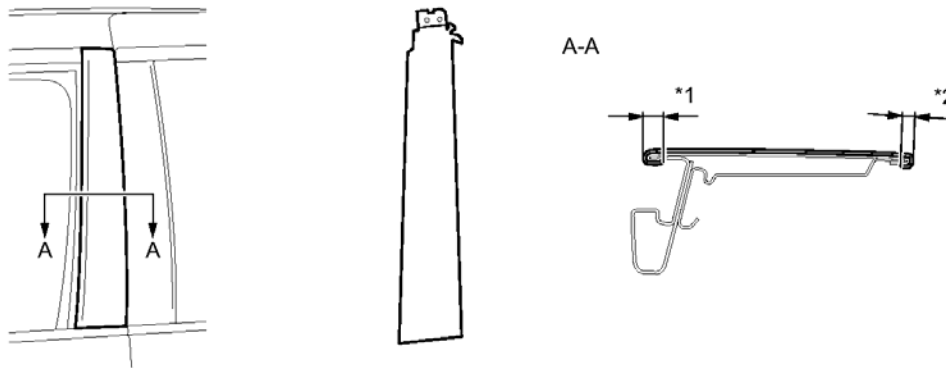
NOTE: Use an electric drill of which the no-load operation is 2000 to 3000 RPM.

2. Using a tape removal disc, rub the remaining black out tape and adhesive off the body.

NOTE:

- Wear protective glasses during the operation.
- Rotate and operate the disc in the correct direction.
- Visually check that the cutting portion is not damaged while rubbing the remaining black out tape and adhesive off the body.

3. Using a non-residue solvent, clean the attachment surface.
- d. Apply new front door outer rear black out tape to the positions shown in the illustration.



T

Fig. 111: Identifying Front Door Outer Rear Black Out Tape Installation Position
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation Position

Mark	Measurement
*1	4.0 to 6.0 mm (0.157 to 0.236 in.)
*2	2.0 to 4.0 mm (0.079 to 0.157 in.)

2. INSTALL FRONT DOOR OUTER UPPER BLACK OUT TAPE

- Application precautions.

HINT:

Use the same procedure as for the front door outer rear black out tape.

- Clean the attachment surface (using an infrared light).

HINT:

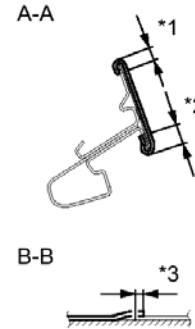
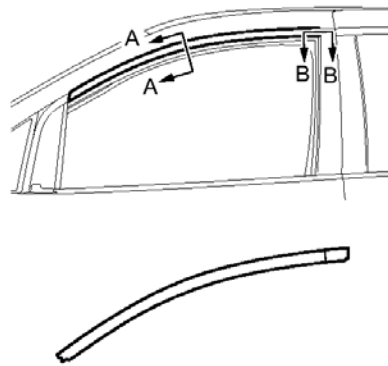
Use the same procedure as for the front door outer rear black out tape.

- Clean the attachment surface (using a tape removal disc).

HINT:

Use the same procedure as for the front door outer rear black out tape.

- Apply new front door outer upper black out tape to the positions shown in the illustration.



T

Fig. 112: Identifying Front Door Outer Upper Black Out Tape Installation Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation Position

Mark	Measurement
*1	2.0 to 4.0 mm (0.079 to 0.157 in.)
*2	4.0 to 6.0 mm (0.157 to 0.236 in.)
*3	1.5 to 2.5 mm (0.059 to 0.098 in.)

3. INSTALL FRONT DOOR GLASS RUN

HINT:

Use the same procedure as for the RH side. Refer to **REASSEMBLY - Step 18** .

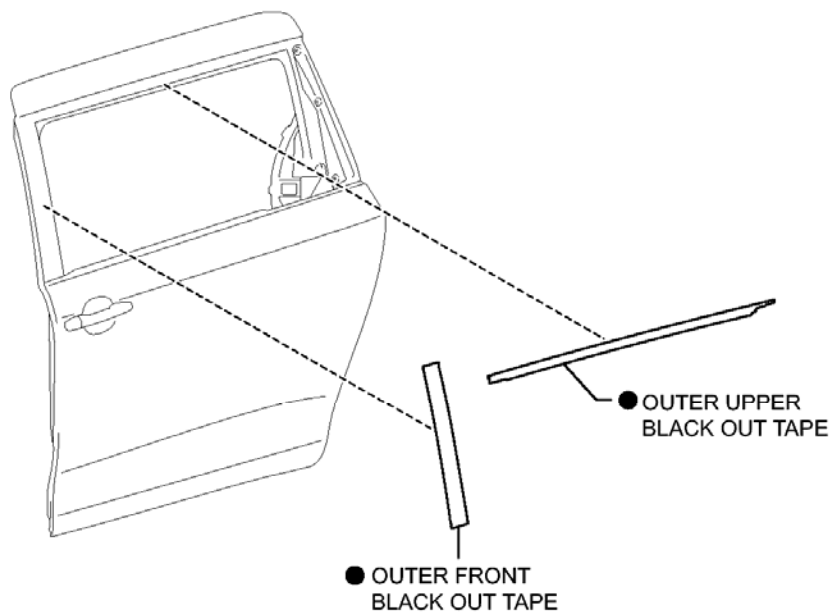
4. INSTALL FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY

Refer to **INSTALLATION**

BLACK OUT TAPE (FOR REAR DOOR)

COMPONENTS

ILLUSTRATION



● Non-reusable part

T

Fig. 113: Black Out Tape Replacement Components (For Rear Door)
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL

REMOVAL

HINT:

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

1. REMOVE REAR DOOR GLASS SUB-ASSEMBLY

Refer to **REMOVAL**

HINT:

Use the same procedure as for the RH side.

2. REMOVE OUTER UPPER BLACK OUT TAPE

- a. Using an infrared light, heat the outer upper black out tape.

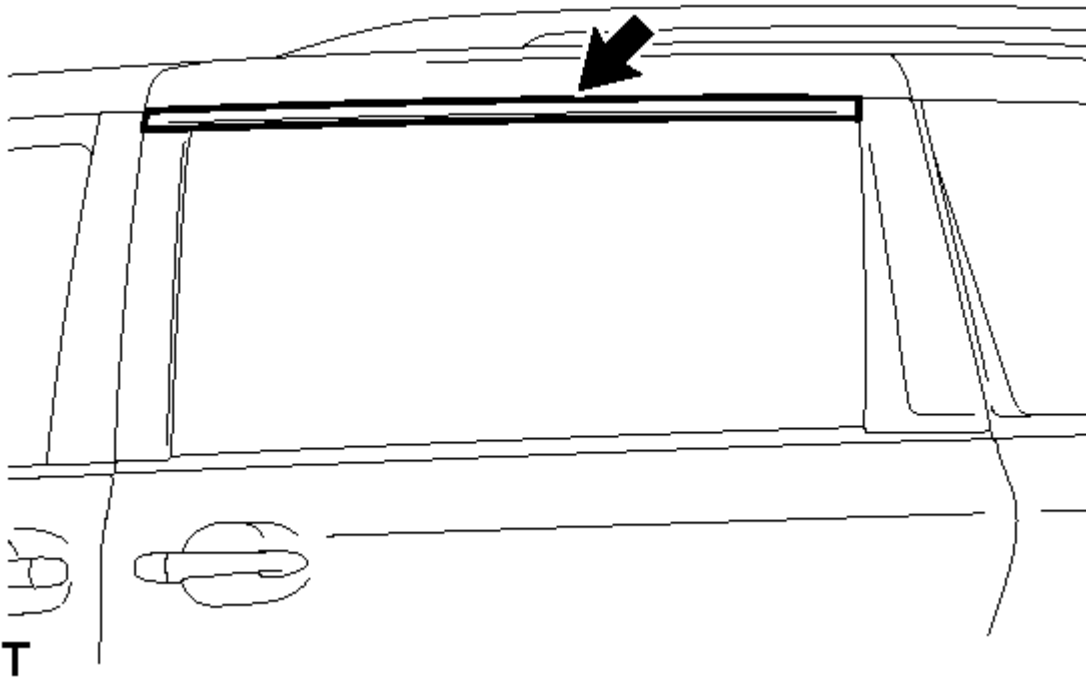


Fig. 114: Identifying Outer Upper Black Out Tape
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

- b. Lift the end portion with your nail and peel it parallel to the attachment surface.

3. REMOVE OUTER FRONT BLACK OUT TAPE

- a. Using an infrared light, heat the outer front black out tape.

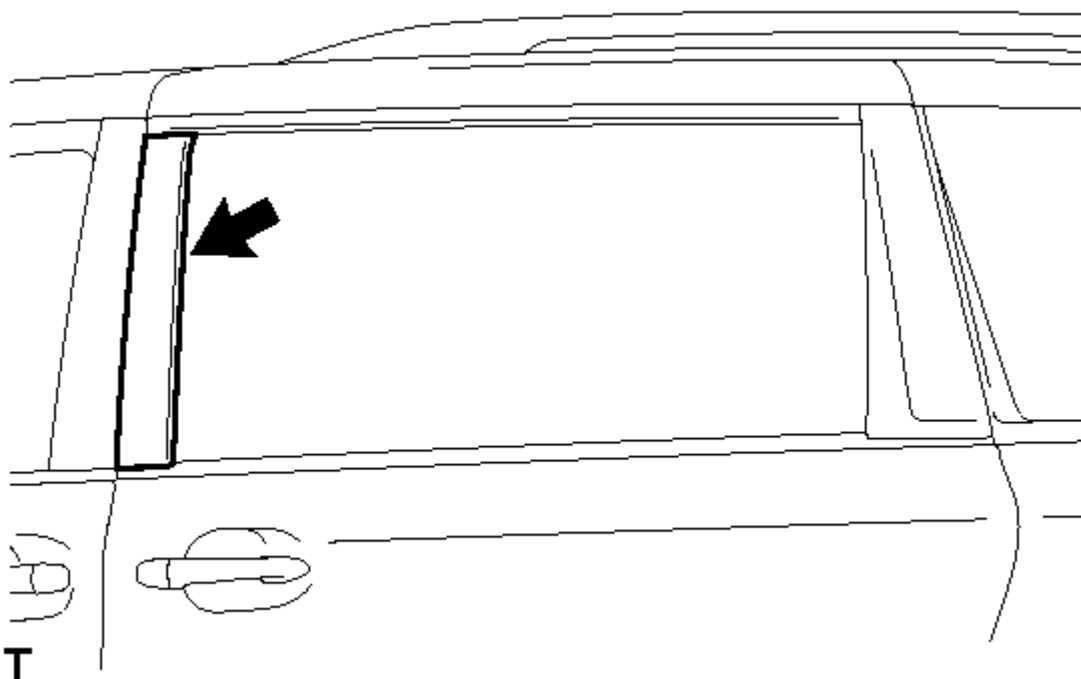


Fig. 115: Identifying Outer Front Black Out Tape
 Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HEATING TEMPERATURE

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

WARNING: Do not burn yourself on the hot body panel or with the infrared light.

NOTE: Do not heat the vehicle body excessively.

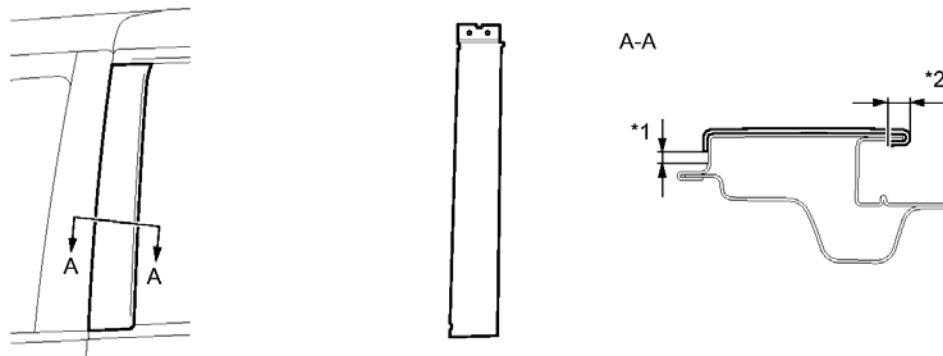
- b. Lift the end portion with your nail and peel it parallel to the attachment surface.

INSTALLATION

INSTALLATION

1. INSTALL OUTER FRONT BLACK OUT TAPE

- a. Application precautions. See step 1.
- b. Clean the attachment surface (using an infrared light). See step 1.
- c. Clean the attachment surface (using a tape removal disc). See step 1.
- d. Apply new outer front black out tape to the positions shown in the illustration.



T

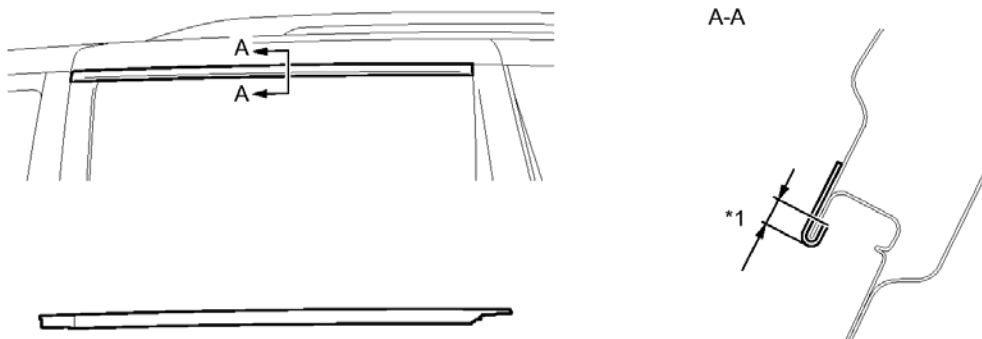
Fig. 116: Identifying Outer Front Black Out Tape Installation Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation Position

Mark	Measurement
*1	2.0 to 4.0 mm (0.079 to 0.157 in.)
*2	5.0 to 7.0 mm (0.197 to 0.276 in.)

2. INSTALL OUTER UPPER BLACK OUT TAPE

- Application precautions. See step 1.
- Clean the attachment surface (using an infrared light). Refer to **INSTALLATION**.
- Clean the attachment surface (using a tape removal disc). See step 1.
- Apply new outer upper black out tape to the positions shown in the illustration.



T

Fig. 117: Identifying Outer Upper Black Out Tape Installation Position
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Installation Position

Mark	Measurement
*1	5.0 to 7.0 mm (0.197 to 0.276 in.)

3. INSTALL REAR DOOR GLASS SUB-ASSEMBLY

Refer to **INSTALLATION**

HINT:

Use the same procedure as for the RH side.

ACCESSORIES & EQUIPMENT

Exterior Panels / Trim (Service Specifications) - Sienna

EXTERIOR PANELS / TRIM

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Part Tightened	N*m	kgf*cm	ft.*lbf
Front bumper reinforcement sub-assembly x Body	50	510	37
Front wheel opening extension pad LH x No. 1 engine under cover	7.0	71	62 in.*lbf
Rear bumper reinforcement sub-assembly x Body	50	510	37
Reflex reflector assembly LH x Rear bumper cover	5.4	55	48 in.*lbf
Rear bumper cover x Body	3.0	31	27 in.*lbf
Rear spoiler sub-assembly x Back door panel	5.9	60	52 in.*lbf
Roof carrier sub-assembly LH x Body	12	119	9
Back door outside garnish sub-assembly x Back door panel	4.9	50	43 in.*lbf