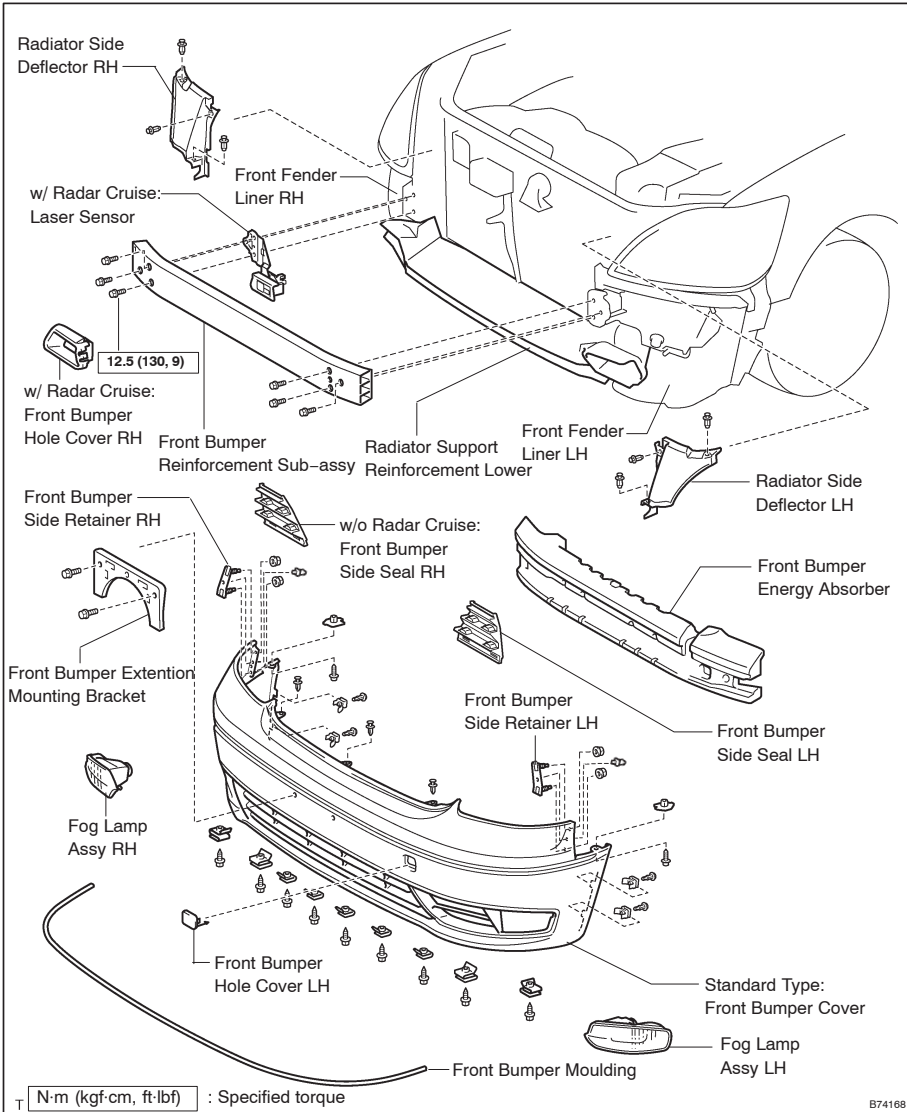
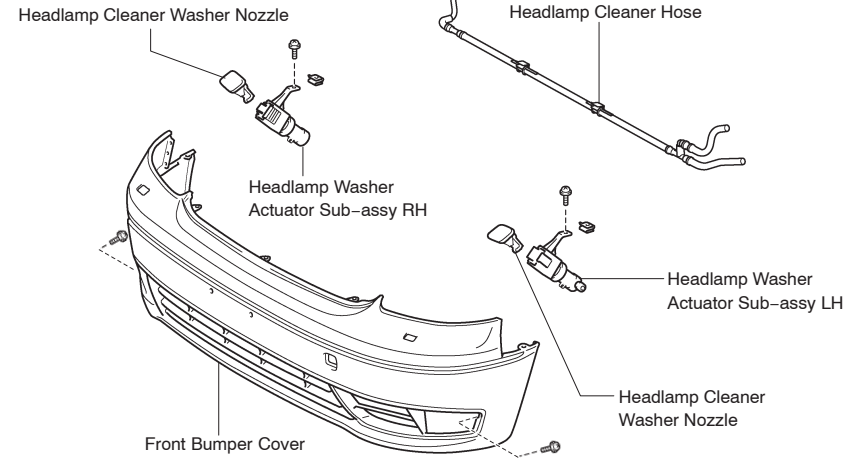


# FRONT BUMPER COMPONENTS

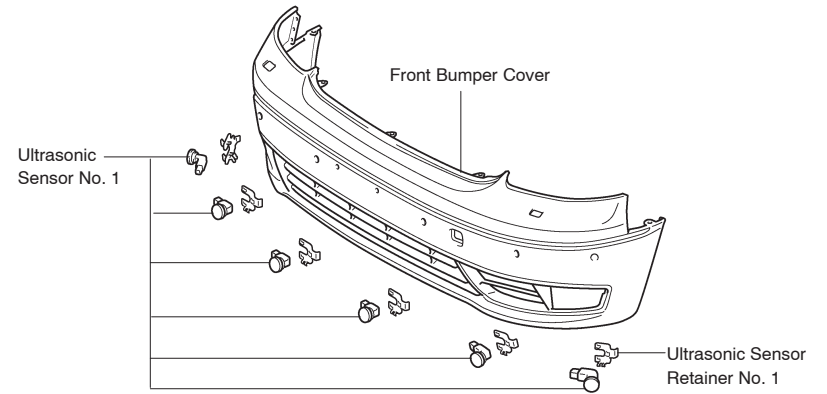
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## w/ Headlamp Cleaner



## w/ Clearance Sonar System



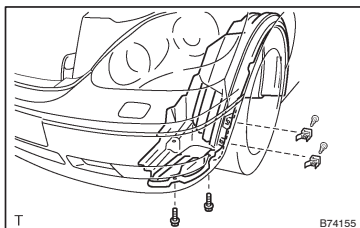
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## REPLACEMENT

### HINT:

- The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.
- A bolt without a torque specification is shown in the standard bolt chart (see page 03-2).



### 1. REMOVE FRONT FENDER LINER LH

- Remove the 2 screws and 2 clips.
- Partially remove the fender liner.

### HINT:

It is not necessary to fully remove the fender liner completely. Partially remove it so that the bumper cover can be removed in step (5).

### 2. REMOVE FRONT FENDER LINER RH

### HINT:

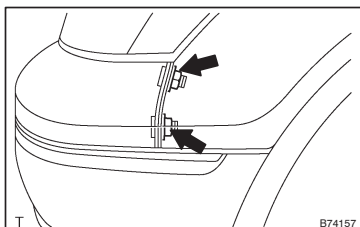
Use the same procedure described for the LH side.

### 3. REMOVE RADIATOR SIDE DEFLECTOR LH

- Remove the 3 clips and deflector.

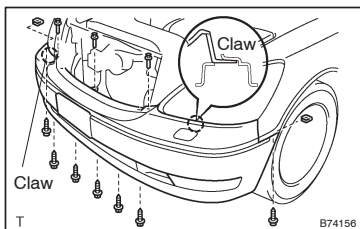
### 4. REMOVE RADIATOR SIDE DEFLECTOR RH

- Remove the 3 clips and deflector.



### 5. REMOVE FRONT BUMPER COVER

- Remove the 4 nuts.



- Remove the 3 clips and 7 screws.
- Using a screwdriver, disengage the 2 claws and remove the bumper cover.
- Disconnect the 2 fog lamp connectors.
- w/ Clearance sonar system: Disconnect the 6 sensor connectors.

### 6. REMOVE HEADLAMP CLEANER (FROM MOTOR TO JOINT) HOSE (W/ HEADLAMP CLEANER)

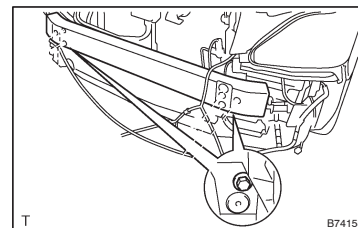
- Disconnect the cleaner hose joint from the actuator.

### HINT:

Be careful when removing the cleaner hose from the actuator, because washer fluid will spill.

- Disconnect the cleaner hose from the bumper cover.

### 7. REMOVE FRONT BUMPER ENERGY ABSORBER



### 8. REMOVE RADIATOR SUPPORT REINFORCEMENT LOWER

- Remove the 2 bolts.
- Unlock the 2 claws and partially remove the reinforcement lower by angling it towards yourself.

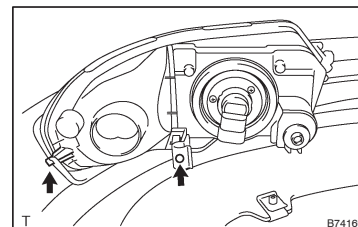
### HINT:

It is not necessary to fully remove the reinforcement lower completely. Partially remove it so that the bumper reinforcement can be removed in step (9).

### 9. REMOVE FRONT BUMPER REINFORCEMENT SUB-ASSY

- Remove the 6 bolts and reinforcement.

### 10. REMOVE LASER SENSOR (W/ RADAR CRUISE)



### 11. REMOVE FOG LAMP ASSY LH

- Using a screwdriver, disengage the 2 claws and remove the fog lamp.

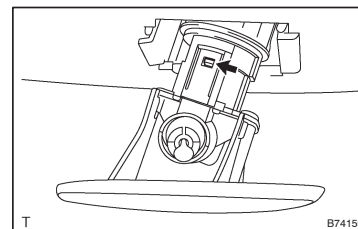
### HINT:

Tape the screwdriver tip before use.

### 12. REMOVE FOG LAMP ASSY RH

### HINT:

Use the same procedures described for the LH side.



### 13. REMOVE HEADLAMP CLEANER WASHER NOZZLE (W/ HEADLAMP CLEANER)

- Using a screwdriver, pull out the 2 washer nozzles.

### HINT:

Tape the screwdriver tip before use.

**14. REMOVE HEADLAMP WASHER ACTUATOR SUB-ASSY LH (W/ HEADLAMP CLEANER)**

(a) Remove the screw and actuator.

**15. REMOVE HEADLAMP WASHER ACTUATOR SUB-ASSY RH (W/ HEADLAMP CLEANER)**

(a) Remove the screw and actuator.

**16. REMOVE ULTRASONIC SENSOR NO.1 (w/ CLEARANCE SONAR SYSTEM)**

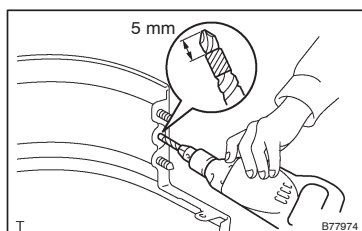
(a) Using a screwdriver, remove the retainer and sensor.

HINT:

Tape the screwdriver tip before use.

**17. REMOVE FRONT BUMPER EXTENTION MOUNTING BRACKET**

(a) Remove the 2 screws and mounting bracket.

**18. REMOVE FRONT BUMPER SIDE RETAINER LH**

(a) Use a drill that has a tip of less than  $\phi$  4 mm (0.16 in.).

(b) Tape the drill tip as shown in the illustration.

**Dimension: 5 mm (0.20 in.)**

HINT:

Taping the drill tip is done to prevent excessive drilling.

(c) Gently place the drill tip onto the rivet, cut the rivet flanges and then remove the rivet.

**NOTICE:**

- Pressing the drill tip onto the rivet strongly will cause the rivet to turn with the drill and the rivet will not be cut.
  - Do not prize the rivet hole with the drill. Doing so may damage the rivet hole and/or the drill.
  - Be careful as the cut rivet will be very hot.
- (d) Remove the retainer from the bumper cover.

**19. REMOVE FRONT BUMPER SIDE RETAINER RH**

HINT:

Use the same procedures described for the LH side.

**20. REMOVE FRONT BUMPER MOULDING**

HINT:

Remove the double-sided tape completely from the bumper. Double-sided tape interferes with the installation of the moulding to the bumper.

**21. REMOVE FRONT BUMPER SIDE SEAL LH**

(a) Using a screwdriver, disengage the 4 claws and remove the side seal.

HINT:

Tape the screwdriver tip before use.

**22. REMOVE FRONT BUMPER SIDE SEAL RH (W/O RADAR CRUISE)**

HINT:

Use the same procedures described for the LH side.

**23. REMOVE FRONT BUMPER HOLE COVER LH**

(a) Using a screwdriver, disengage the 2 claws and remove the hole cover.

HINT:

Tape the screwdriver tip before use.

**24. REMOVE FRONT BUMPER HOLE COVER RH (W/ RADAR CRUISE)**

(a) Using a screwdriver, disengage the 4 claws and remove the hole cover.

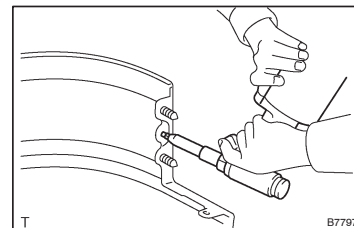
HINT:

Tape the screwdriver tip before use.

**25. INSTALL FRONT BUMPER REINFORCEMENT SUB-ASSY**

(a) Install the reinforcement with the 6 bolts.

**Torque: 12.5 N-m (130 kgf-cm, 9 ft-lbf)**

**26. INSTALL FRONT BUMPER SIDE RETAINER LH**

(a) Using an air riveter or hand riveter with nose piece, strike waterproof rivets of  $\phi$  4.9 mm (0.19 in.) into the side retainer to install the rivet to the bumper cover.

**NOTICE:**

**If the rivet is not positioned perpendicularly to the bumper, the mandrel will bend and become damaged.**

**27. INSTALL FRONT BUMPER SIDE RETAINER RH**

HINT:

Use the same procedures described for the LH side.