



INSTALLATION INSTRUCTIONS HEAVY DUTY REAR BUMPER

Part Number: 73961

Application: 2007 TOYOTA FJ CRUISER

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. **WARNING** and **CAUTION** are signal words that identify the level of hazard. These signal words mean:

WARNING signals a hazard that could cause serious injury or death, if you do not follow recommendations.

CAUTION signals a hazard that may cause minor to moderate injury, if you do not follow recommendations.

This guide uses **NOTICE** to call attention to important mechanical information, and **Note**: to emphasize general information worthy of special attention.

WARNING

INJURY HAZARD

Failure to observe these instructions could lead to severe injury or death.

- Always** use extreme caution when cutting and trimming during fitting.
- Never route electrical cables:**
 - o Across any sharp edges.
 - o Through or near moving parts.
 - o Near parts that become hot.
- Always** insulate and protect all exposed wiring and electrical terminals.
- Always** use appropriate and adequate care in lifting components into place.
- Always** insure components will remain secure during installation and operation.
- Always** tighten all nuts and bolts securely, per the installation instructions.
- Always** inspect periodically and replace all worn or damaged parts before using.
- Never** use this WARN product with damaged or missing parts.

I. BEFORE YOU BEGIN

The installation of this product requires significant cutting of the factory bumper and the reuse of some of the trimmed pieces. The stock bumper can no longer be used (in stock form) after it has been trimmed. Please review and understand the procedure before beginning.

II. PARTS LIST

<u>Number</u>	<u>Qty</u>	<u>Description</u>
74056	1	Frame Bracket, RH
74055	1	Frame Bracket, LH
73964	1	Hardware Kit
73972	2	Outer Spacer
74350	2	Spacer Tube

III. TOOLS REQUIRED

- 10, 12 and 17mm sockets or end wrenches
- 5/8" socket and end wrench
- 11/16" socket and end wrench
- razor knife and/or saw for trimming plastic bumper

IV. TORQUE SPECIFICATIONS

7/16 50lb. ft. (67.8 N-m)

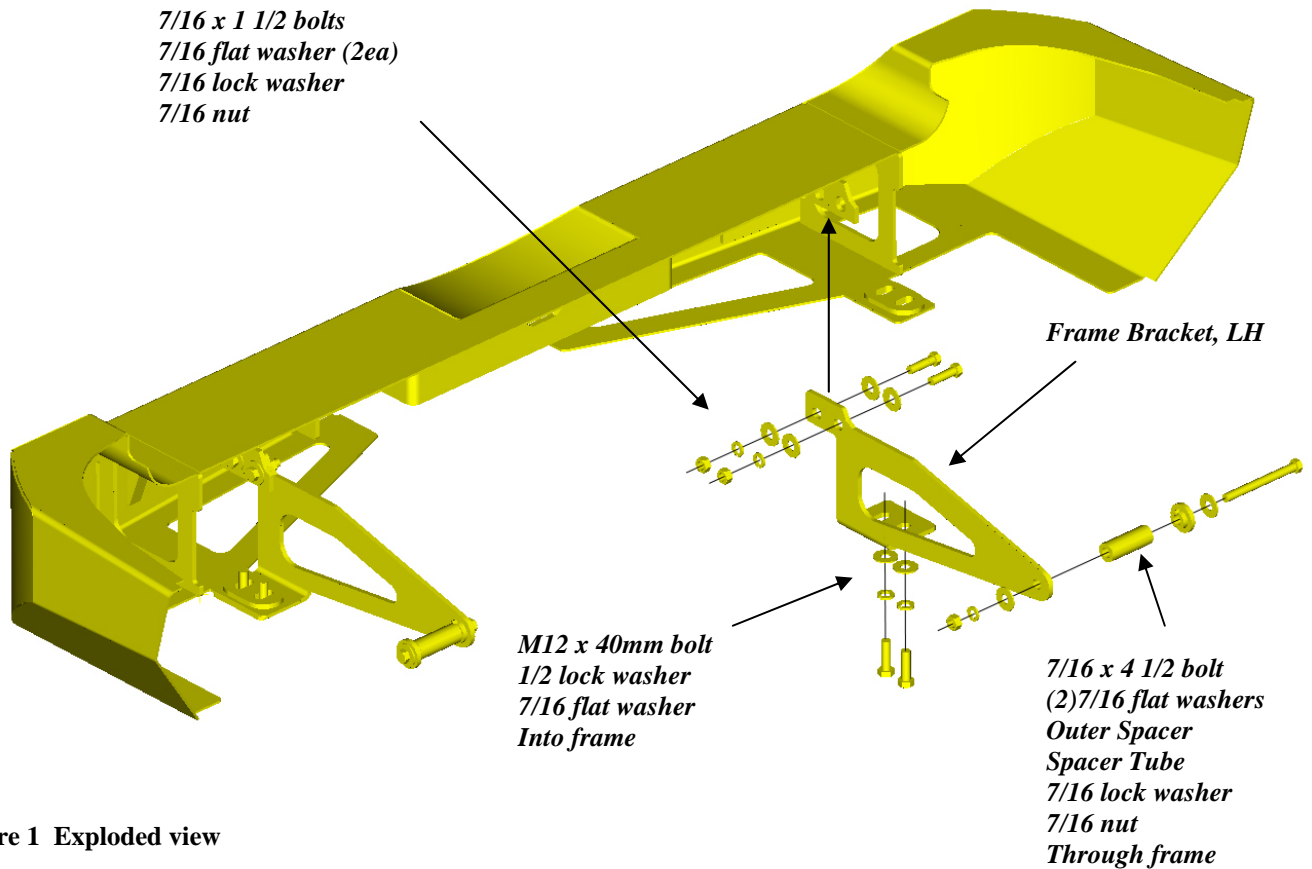


Figure 1 Exploded view

V. INSTALLATION

1. If the vehicle is equipped with backup sensors disconnect the wire harness connectors under the outside corners of the bumper. Remove electrical trailer plug from the bumper if equipped. **See Figure 2**

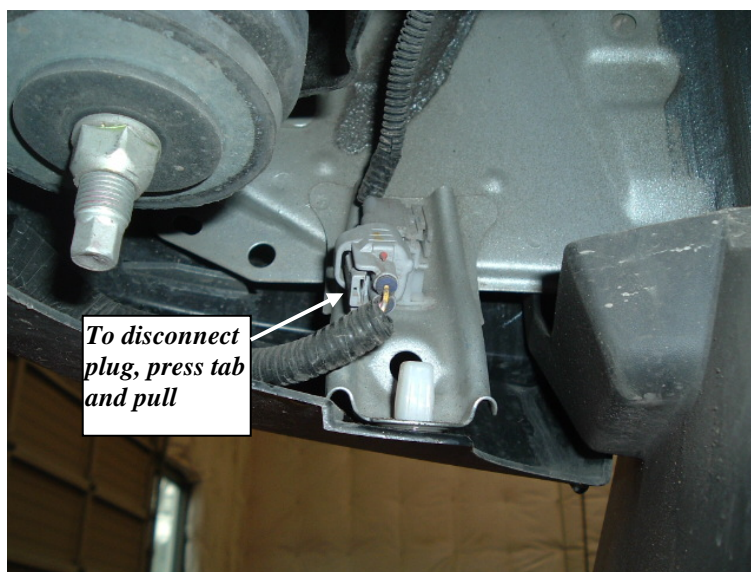


Figure 2 Backup sensor connector, LH shown

2. Open the hatch and remove 5 each 6mm bolts (10mm wrench) along the top of the bumper and the plastic fastener located below the hatch latch. **See Figure 3**



Figure 3 Open hatch to access plastic fastener

3. Remove 4 inner and outer 6mm bottom bumper bolts. **See Figure 4 and 5**

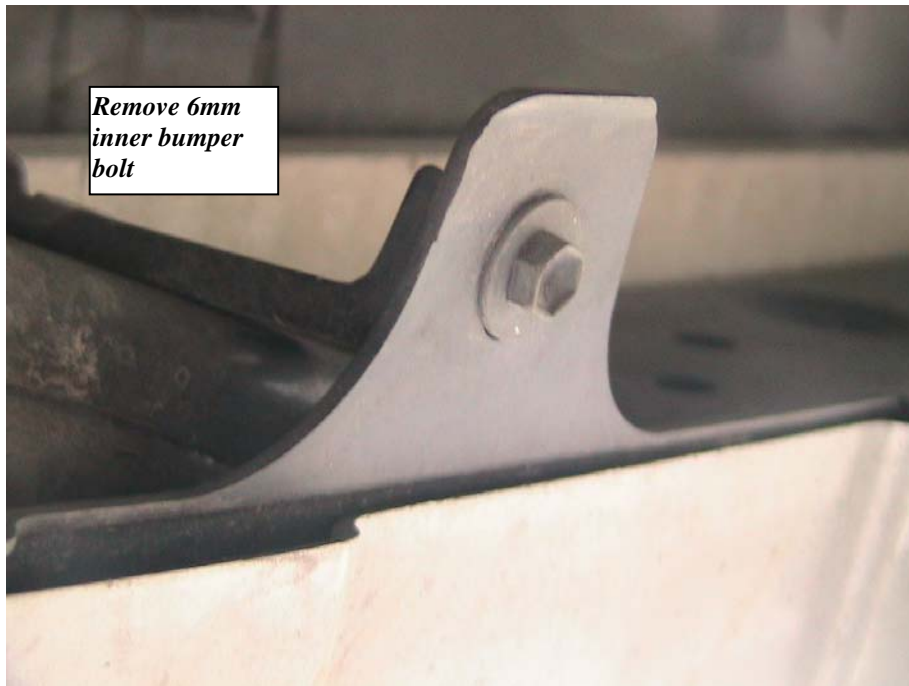


Figure 4 Remove inner bottom bumper bolts. LH shown, RH similar

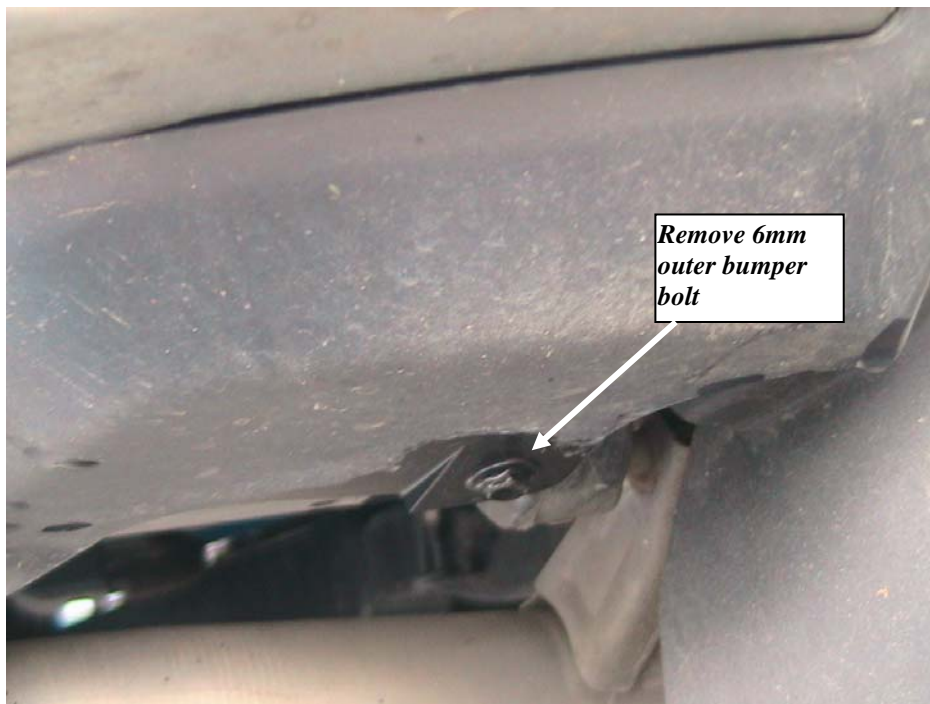


Figure 5 Remove outlet bottom bumper bolts. RH shown, LH similar

4. Remove 8mm bolts (12mm wrench) and inner bumper brackets from frame. **See Figure 6**

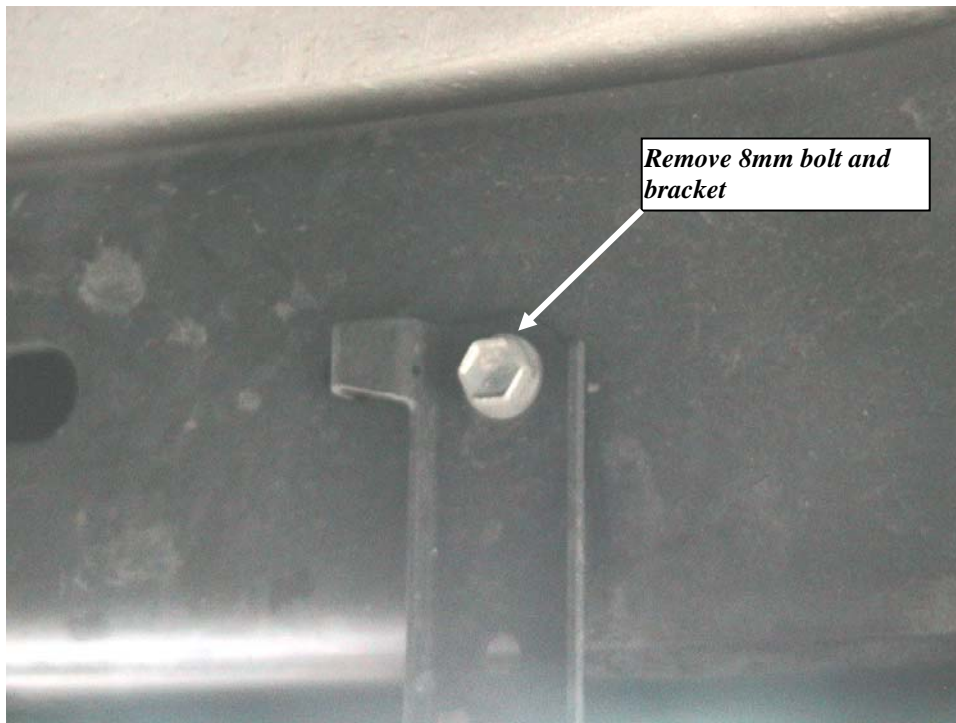


Figure 6 Remove bumper bracket. LH shown, RH similar

5. Carefully pull the bumper corners free of the body. They are held in place by a number of snap-style fasteners. Make sure any wires to the bumper have been disconnected then the remove bumper. Remove foam bumper filler.

6. Remove the silver end caps from the factory bumper by removing the retainers from inside the bumper. See **Figure 7**

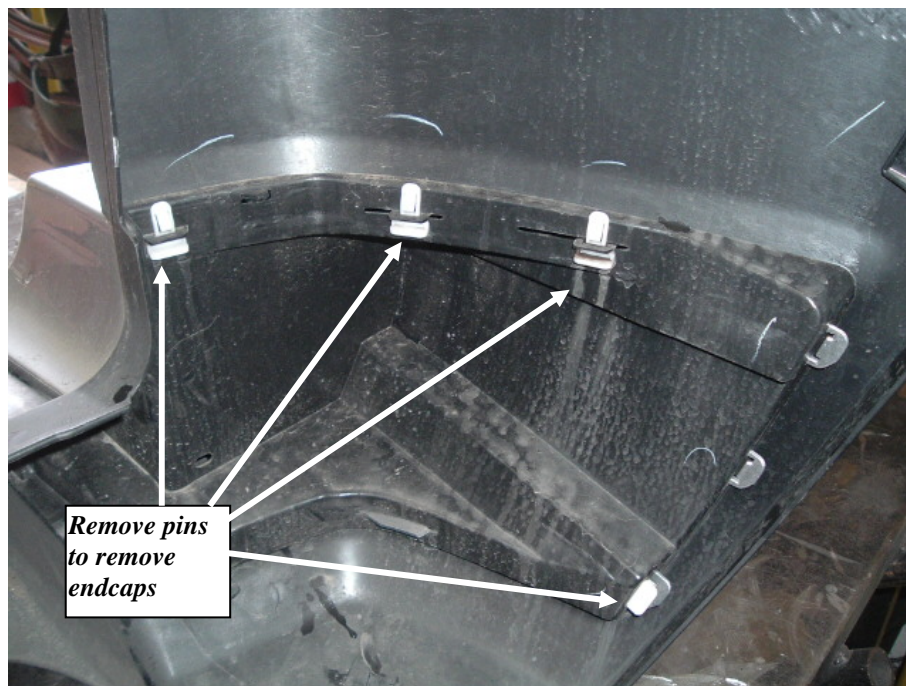


Figure 7 Remove pins to remove endcaps

7. If equipped with backup sensors remove them from the stock bumper. Disconnect the wires from the sensor, slide the retainer clip out and push the sensor out through the bumper face. Install the sensors and wires in the Warn bumper in reverse order. If the vehicle is not equipped with backup sensors, insert the supplied plugs into the sensor holes from the outside. See **Figure 8**

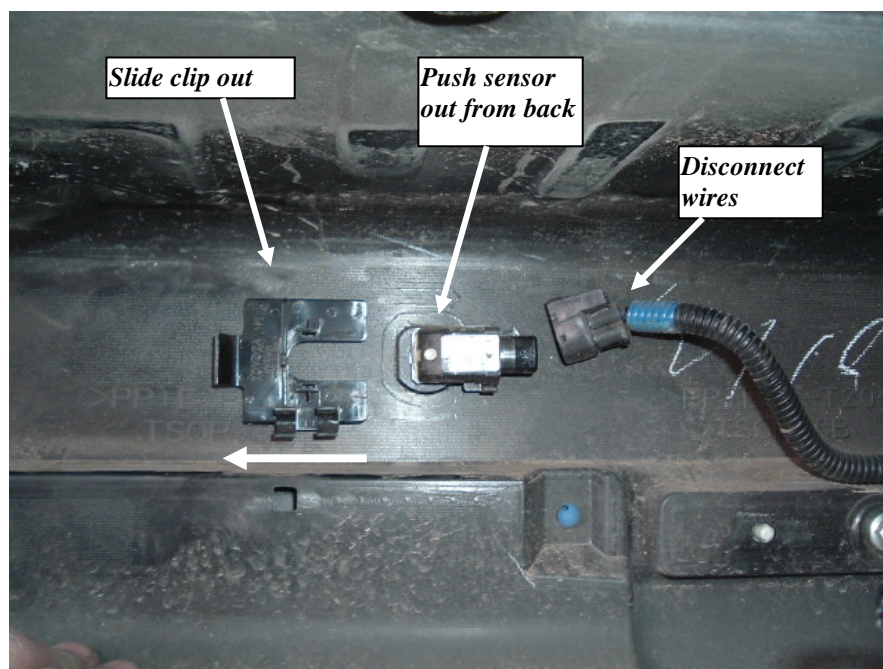


Figure 8 Backup sensor in stock bumper

8. Remove the 4 each 6mm bolts and 4 plastic fasteners attaching the upper bumper brackets to the body.
See **Figure 9**

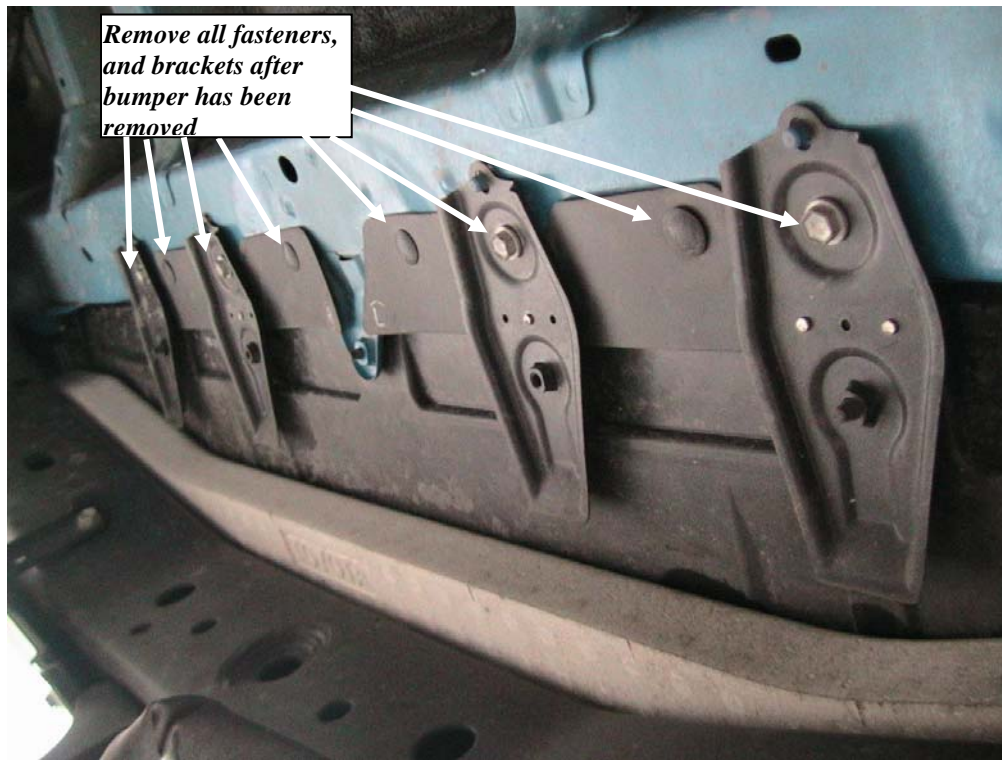


Figure 9 Remove bumper bracket

9. Trim the factory bumper per photos. See **Figures 10-12**

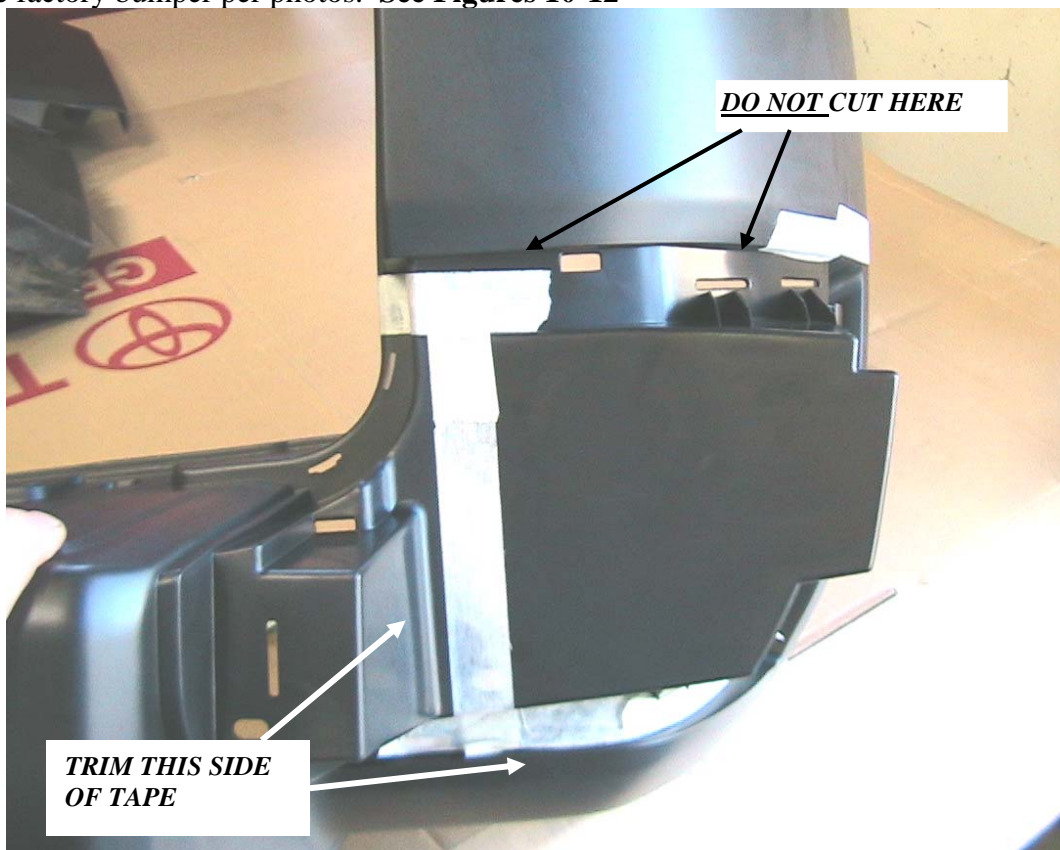


Figure 10 Factory bumper before trimming RH



Figure 11 End cap after initial trimming-RH

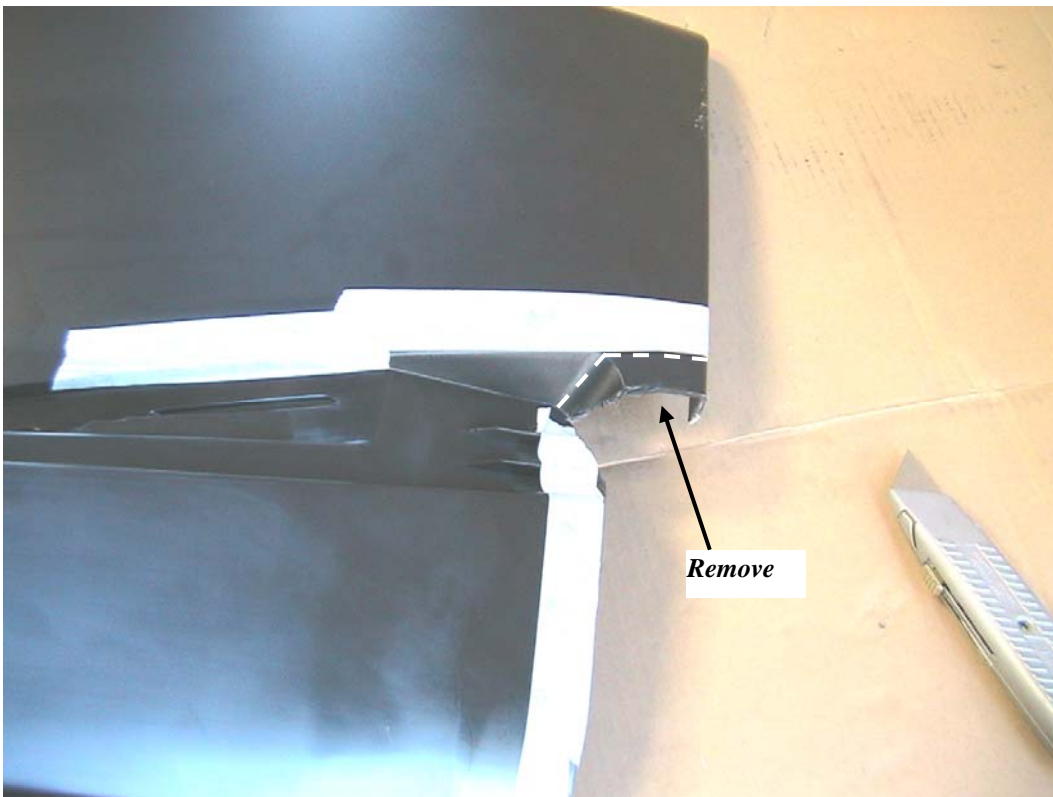


Figure 12 Detail before final piece removed-RH

10. Reinstall the trimmed bumper corner pieces.



Figure 13 Side view after final trimming, installed-RH



Figure 14 Rear view after final trimming, installed-LH

11. Slide the Bumper in place over the vehicle frame. Make sure none of the wires are pinched or pulled. Make sure any disconnected wires are routed so they can be reconnected.

12. Place a 7/16 x 4 1/2" bolt through a flat washer, an Outer Spacer (larger diameter under bolt head) and insert into the large hole in the outside of the frame. **See Figure 15**

13. Install a Spacer Tube over the 4 1/2" bolt through the corresponding hole inside the frame. Be careful not to drop the tube inside the frame. They are difficult to get out. Repeat step 14 and 15 for the opposite side.

14. Install the appropriate Frame Bracket against the inside of the frame, over the 4 1/2" bolt so the spacer welded to the bracket fits into the hole in the frame against the Spacer Tube. Install a flat washer, lock washer and nut. Tighten enough so the spacers are held in place inside the frame holes. Repeat for opposite side.

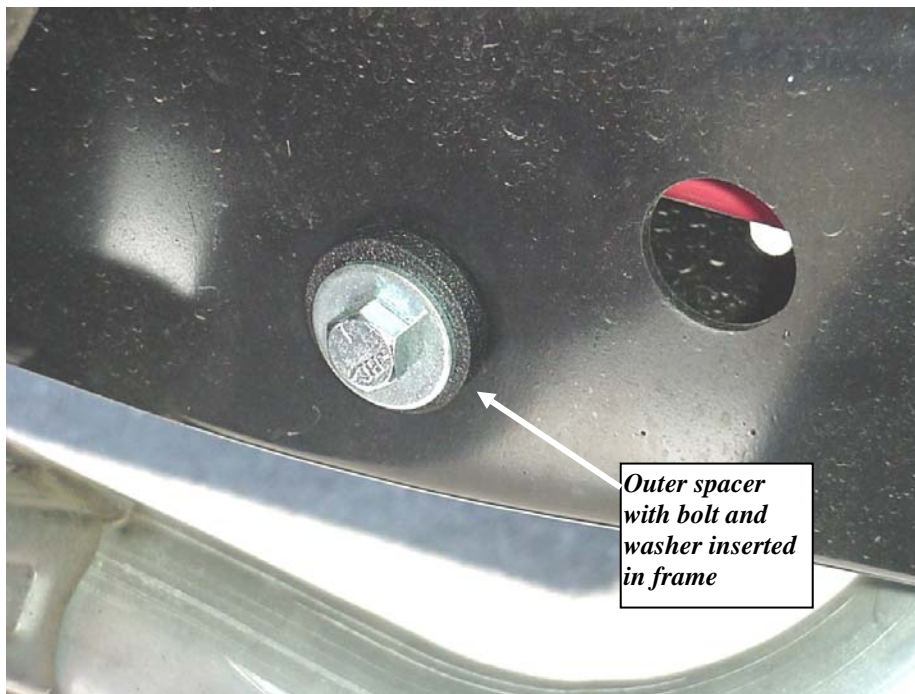


Figure 15 7/16 x 4 1/2" bolt through stepped spacer and frame

15. Install 2ea 7/16 x 1 1/2" bolts through the bumper flange into each bumper bracket. Install flat washers, lock washers and nuts on each. Do not tighten yet. **See Figure 16**

16. Install the 12mm bolts with 7/16" flat washers and 1/2" lock washers through the Frame Brackets, Bumper and into the threaded holes in the bottom of the vehicle frame. Do not tighten yet. **See Figure 16**

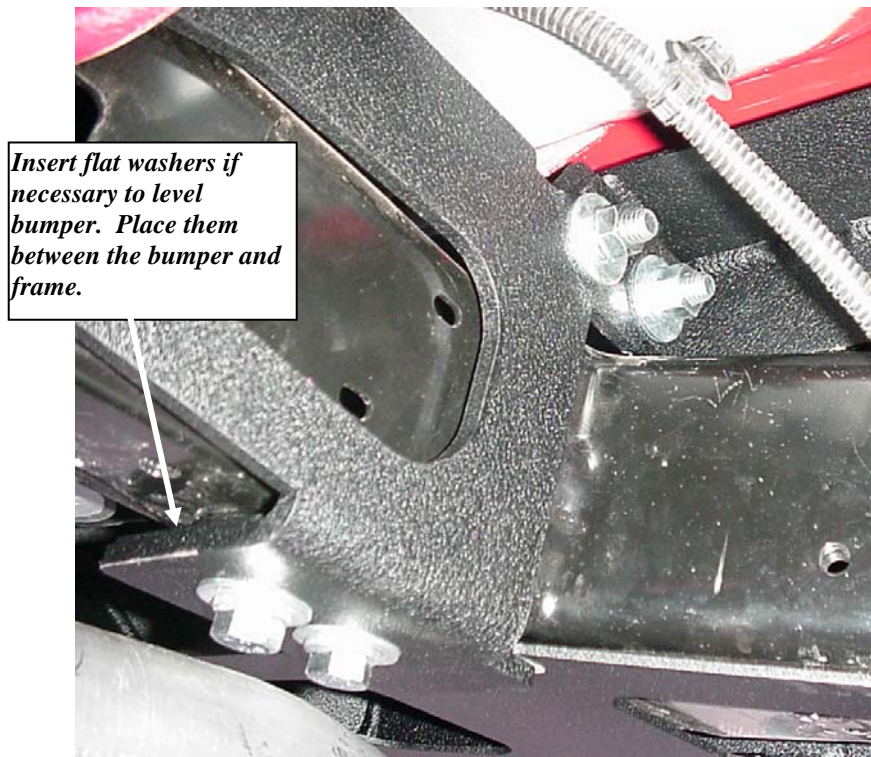


Figure 16 Frame Bracket installed, RH shown

17. Adjust the Bumper for best fit and tighten the 12mm bolts into the frame, then the 7/16" bolts through the bumper flanges and finally the long bolts through the frame. Extra flat washers are included to be used as leveling shims. Insert as needed between the bumper and the bottom of the frame. **See Figure 16**

18. Reconnect the backup sensors if equipped.

19. If the vehicle is equipped with an electrical trailer plug, reconnect it to the 1/4" hole in the bottom of the bumper for that purpose. Use the 1/4" hardware provided. **See Figure 17**

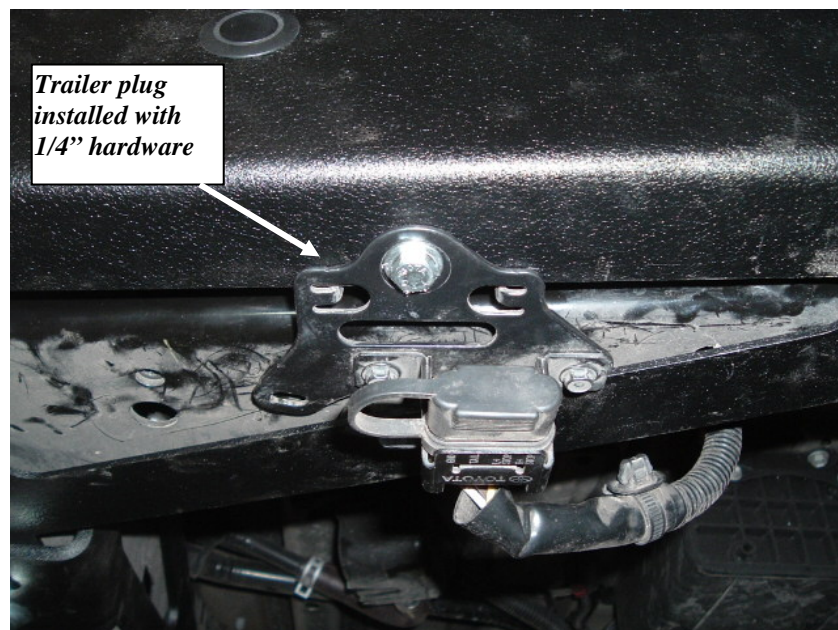


Figure 17 Installed trailer plug



Figure 17 Bumper installation complete

VI. MAINTENANCE/CARE

Inspect all nuts and bolts on the bumper and related hardware periodically. Tighten all hardware that appears to be loose. Stripped, fractured, or bent bolts or nuts need to be replaced.