

Component List:

Item	QTY	Name	Description
1	1	FRONT BUMPER REPLACEMENT	
2	1	Winch Tray	
3	1 (Set)	Frame Bracket	
4	1 (Set)	Inner Frame Bracket	
5	1 (Set)	Lower Wrap Bracket	
6	1 (Set)	Auxiliary Bracket	
7	1	License Plate Bracket	
Hardware			
8	8	Bolt Plate	
9	6	Carriage Bolt	1/2 x 1 1/2"
10	28	Flat Washer	1/2"
11	28	Lock Washer	1/2"
12	14	Hex Bolt	1/2 x 1 1/2"
13	18	Hex Nut	1/2"
14	8	Flat Washer	3/8"
15	4	Lock Washer	3/8"
16	4	Hex Nut	3/8"
17	4	Hex Bolt	3/8 x 1 1/4"
18	4	Hex Bolt	M5 x 20mm
19	4	Flat Washer	M5 x 20mm
20	2	Hex Bolt	M6 x 30mm
21	4	Flat Washer	M6 x 30mm
22	2	Spacer	1"

TOOLS NEEDED FOR INSTALLATION:

3/4" socket & wrench
 9/16" socket & wrench
 10mm socket & wrench
 8mm socket & wrench

ESTIMATED TIME FOR INSTALLATION:
1-2Hours

Hardware Torque Specifications & Installer Responsibility

The following chart provides general torque specifications and wrench sizes for commonly used SAE and Metric fasteners found in automotive accessory installations. These values serve as guidelines based on standard Grade 5 / Grade 8 (SAE) and Class 8.8 / 10.9 (Metric) hardware.

IMPORTANT:

It is the **installer's responsibility** to ensure all fasteners are tightened to the appropriate torque. **Failure to torque hardware correctly can lead to part failure, vehicle damage, or personal injury.** Always verify torque requirements in the vehicle's factory service manual when available.

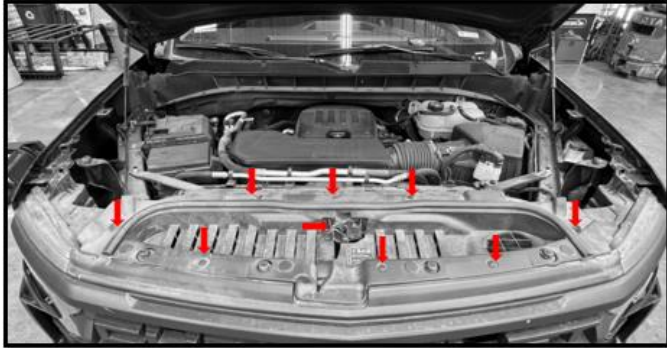
Bolt Size	Torque Grade 8 / 10.9	Wrench/Socket Size (in/mm)
1/4"-20	8 ft-lbs (11 Nm)	7/16"
5/16"-18	17 ft-lbs (23 Nm)	1/2"
3/8"-16	30 ft-lbs (40 Nm)	9/16"
7/16"-14	45 ft-lbs (61 Nm)	5/8"
1/2"-13	80 ft-lbs (108 Nm)	3/4"
M6 x 1.0	7 ft-lbs (10 Nm)	10 mm
M8 x 1.25	16 ft-lbs (22 Nm)	13 mm
M10 x 1.5	35 ft-lbs (48 Nm)	17 mm
M12 x 1.75	60 ft-lbs (81 Nm)	19 mm

Inspection & Maintenance Recommendations

- After installation, **inspect all hardware after the first 100 miles** of driving.
- Thereafter, **reinspect every 3 months** or 3,000 miles, whichever comes first.
- Ensure all fasteners remain tight and free of corrosion or damage.
- Re-torque as needed using the specifications in the chart above or per OEM requirements.

Installer assumes all liability for proper installation and continued inspection of hardware. If torque values are not properly applied and maintained, failure of the part and safety risks may result.

Installation Instructions:



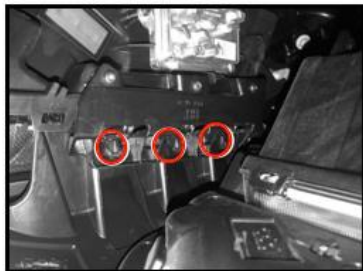
1. Using a T15 Torx bit remove the two (2) screws in the hood latch handle to remove it.
2. Using a panel pry tool, remove the nine (9) push pins in the underhood cowl to remove it.
3. Using a 10mm socket wrench, remove the four (4) bolts attaching the grill to the truck



4. Using a T15 Torx, remove the six (6) lowest forward most screws in each front inner fender.



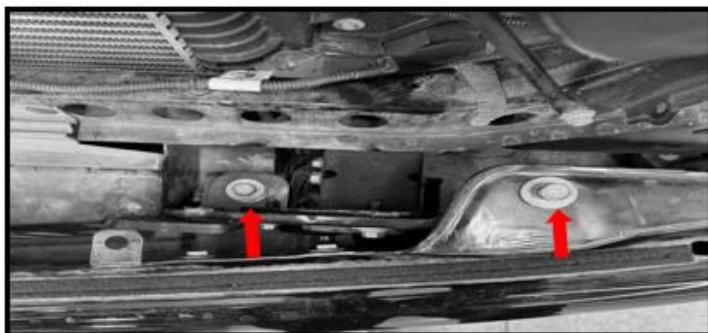
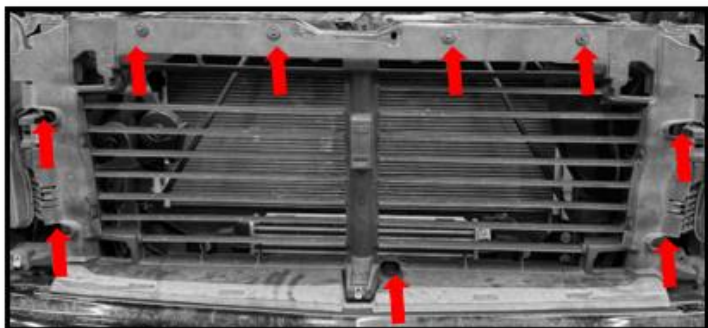
5. Using a plastic body panel pry tool, carefully pry outward on the plastic fender trim starting at the bottom front of the driver side and work upwards. Only remove as much of the fender trim as needed to get access to the one (1) screw attaching the valance to the fender.



6. Using the plastic body panel pry tool, carefully remove the clips in the fender that were attaching the fender trim to the fender and reinstall them onto the backside of the fender trim on the driver side*

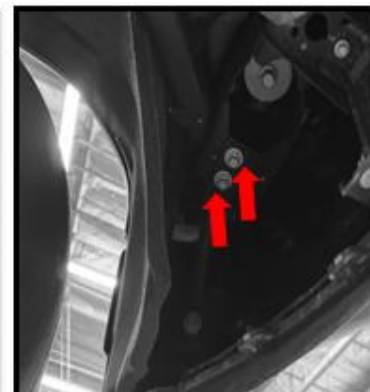
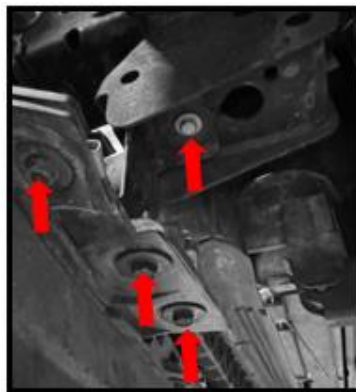
7. Using a plastic body panel pry tool, depress the three (3) tabs under the headlight while pulling outward on the valance to release it from the driver side headlight.

8. Using the plastic body panel pry tool, release the five (5) clips behind the grille and remove the valance from the truck



9. Using a 10mm socket wrench, remove the nine (9) screws along the perimeter of the upper louvers. Then, release the two (2) electrical connectors on the driver's side to remove the louvers. *

10. With the upper louvers removed, using an 18mm socket wrench, remove the two (2) bolts between the frame rails behind the bumper (two per side)



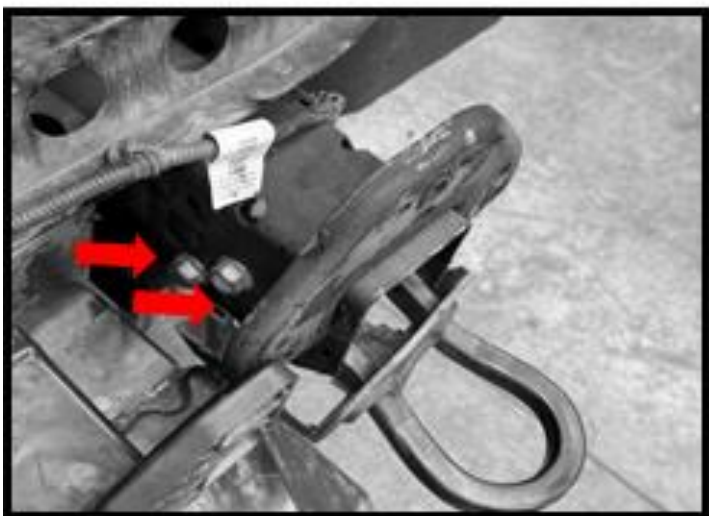
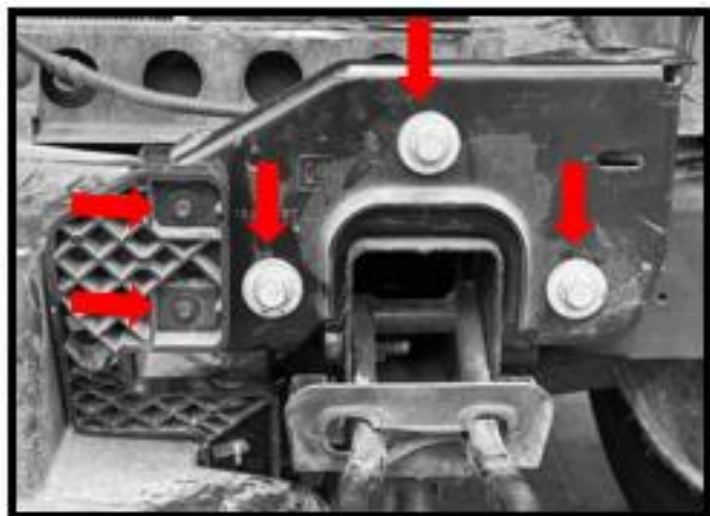
11. Using a 10mm socket wrench, remove the four (4) screws per side holding the bumper supports to the frame and bumper. The bumper can now be removed from the vehicle.

12. Using an 18mm socket wrench, remove the two (2) bolts attaching the bumper reinforcement brackets to the bumper on the driver side.

13. Unplug the sensor harness located on the passenger side of the vehicle

14. With assistance, remove the bumper assembly.

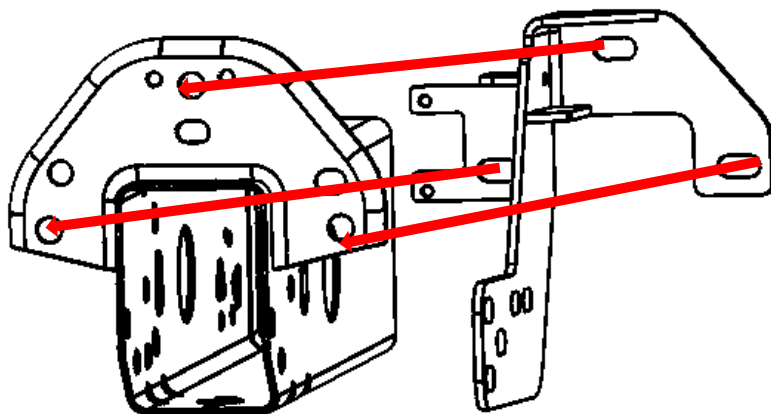




15. Using a 15mm socket, remove the six (6) bolts from the frame horns and remove from the truck.

16. If vehicle is equipped with OEM tow hooks, remove them using an 18mm socket and 18mm open end wrench to remove the two (2) bolts per frame rail.

17. Using a 7mm socket wrench, remove the four (4) screws that hold the lower louver set to the intermediate bumper brackets.



18. Using the OEM frame horn bolts, install the driver and passenger side brackets (two per side).

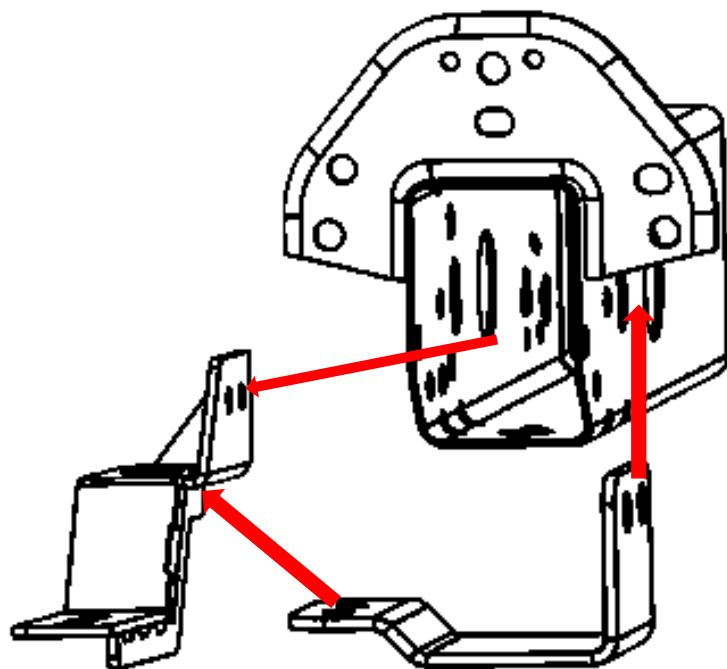
19. Install the inner frame rail bracket and lower wrap bracket. Introduce the supplied hardware from inside the frame rail. Use the 8-bolt plates to secure each bracket (two per bracket) with the following hardware:

- (2) ½" Hex Nuts
- (2) ½" Lock Washers
- (2) ½" Flat Washers

Secure the inner frame bracket to the lower wrap bracket using:

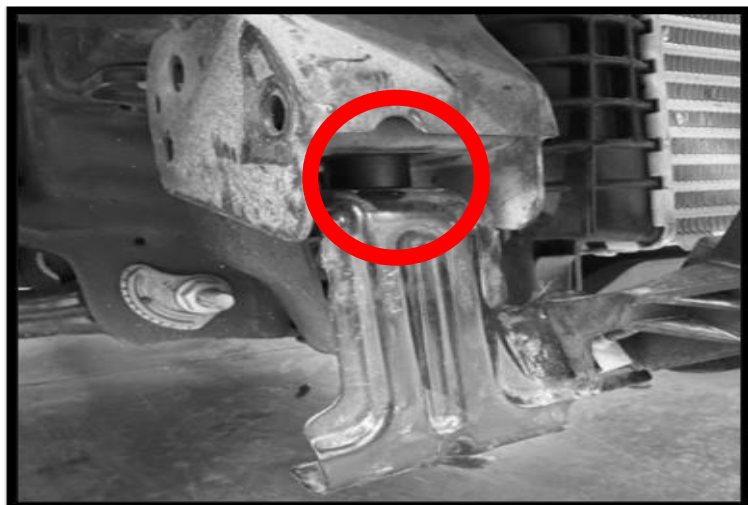
- (2) ¾" carriage bolts
- (2) ¾" Hex Nuts
- (2) ¾" Lock Washers
- (2) ½" Lock Washers

Repeat installation on the passenger side.

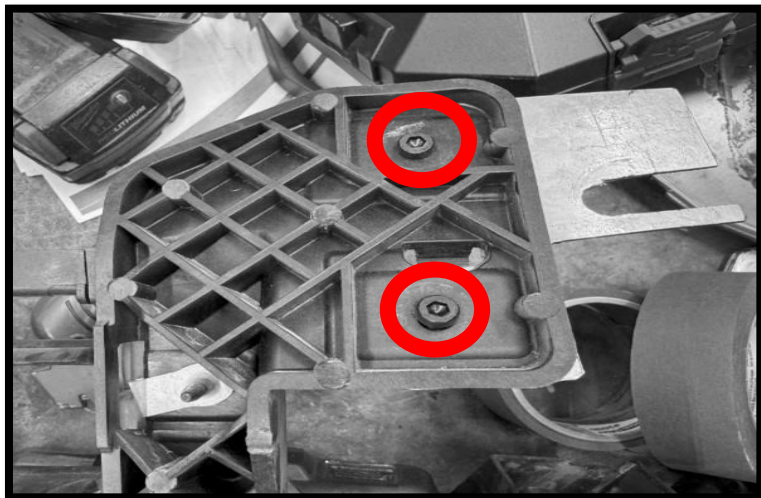


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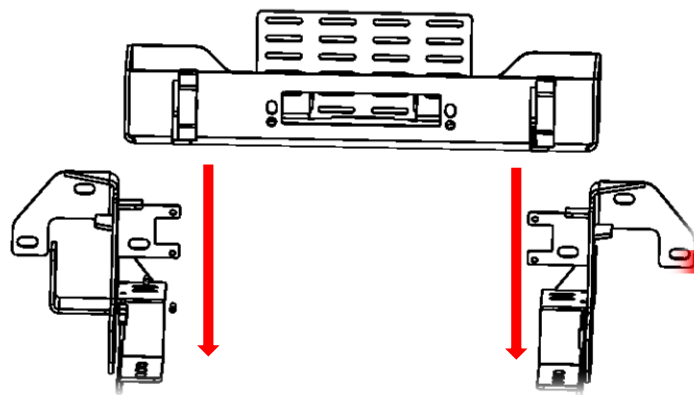
Chevy Silverado 1500



20. Remove the lower valance bracket and install the supplied 1" spacer using (1) M6 x 30mm Hex Bolt and (1) M6 Flat Washer. Repeat on both sides



21. Fasten the active louver bracket against the frame horn bracket using (2) M5 x 20mm Hex Bolts and (2) M5 Flat Washers. Repeat on both sides



22. Position the winch tray on top of the frame brackets. Align the holes and secure the winch tray to the side of each bracket using:

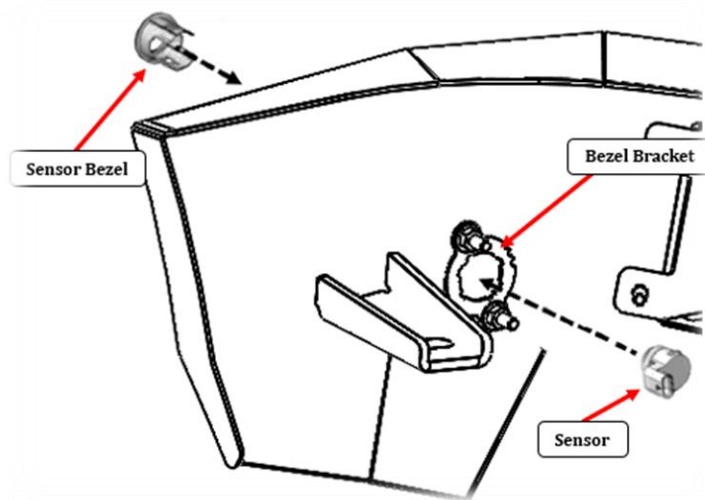
- (2) $\frac{1}{2}$ " x 1 $\frac{1}{4}$ " Hex Bolts
- (2) $\frac{1}{2}$ " Flat Washers
- (2) $\frac{1}{2}$ " Lock Washers

Secure the bottom of each bracket using:

- (3) $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " Carriage Bolts
- (3) $\frac{3}{8}$ " Flat Washers
- (3) $\frac{3}{8}$ " Lock Washers
- (3) $\frac{3}{8}$ " Hex Nuts

Leave bolts and nuts finger-tight for final adjustment.

Note: If installing a winch, place the winch in the tray and follow the winch manufacturer's installation instructions. Do **not** install the fairlead at this time. The solenoid/control box must be mounted on the backside of the winch tray.



23. Remove the (4) plastic plugs from the sensor bezel plates that are preinstalled in the BR6 bumper.

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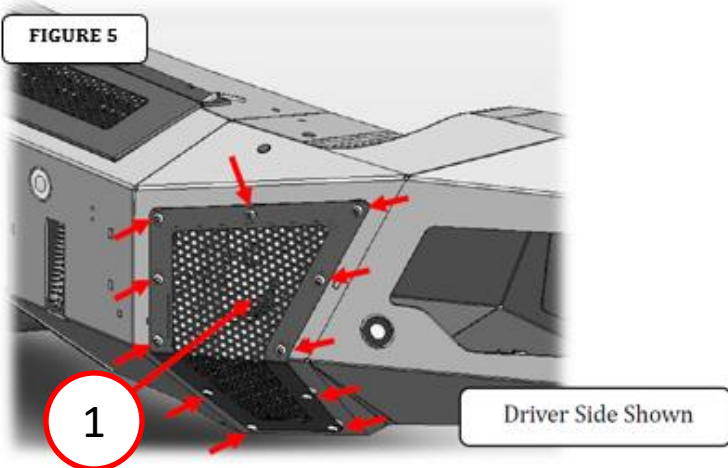
Chevy Silverado 1500

23. Align the protrusions on each sensor bezel with the profile in the matching bezel plate. From the front of the BR6 bumper, push each bezel through the plate until the tabs around the base lock in position.

Note: The Park Assist sensors and bezels must be installed in the same positions as removed from the OEM bumper.

24. Install the parking sensors in the sensor bezels and transfer the OEM bumper wiring harness to the BR6 bumper and re-connect to the parking sensors, (Fig 4).

FIGURE 5

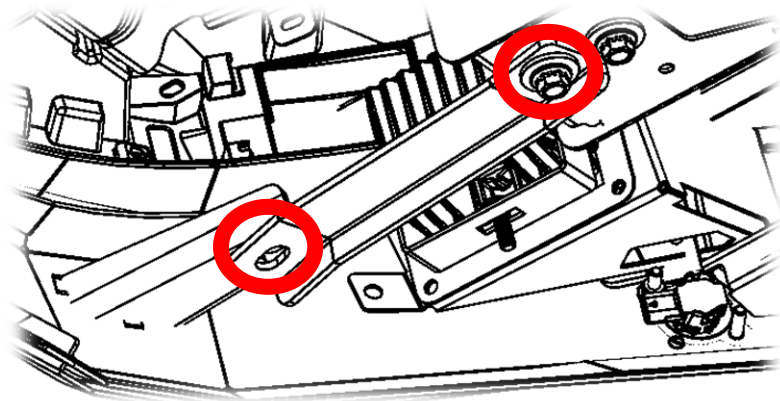
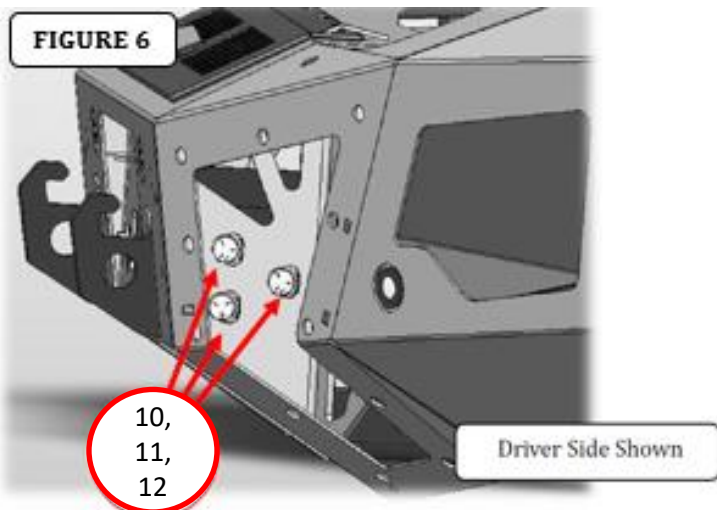


25. The pre-installed Mesh Vent Covers must be removed from each side of the bumper using hand tools. Slowly remove the bolts (see Fig. 5).

Note: Using an air impact wrench or ratchet can damage the bolt threads and rubber rivet-nut assembly.

26. With assistance, lift the bumper shell up to the vehicle. Align the holes in the bumper shell brackets with the frame brackets and winch tray. Secure each bracket using (3) $\frac{3}{4}$ " x $1\frac{1}{2}$ " Hex Bolts, (3) $\frac{3}{4}$ " Lock Washers, and (3) $\frac{3}{4}$ " Flat Washers (see Fig. 6). Leave loose for final adjustment.

FIGURE 6



27. Install the auxiliary brackets using the OEM hardware on the body:

(1) $\frac{3}{8}$ " Hex Bolt

(2) $\frac{3}{8}$ " Flat Washers

(1) $\frac{3}{8}$ " Lock Washer

(1) $\frac{3}{8}$ " Hex Nut

Repeat steps for both sides.



28 Adjust the bumper for final fitment and fasten down any loose hardware. The fender liner will need to be trimmed to follow the lines of the new bumper. Use a box cutter or appropriate cutting tool to perform this step.