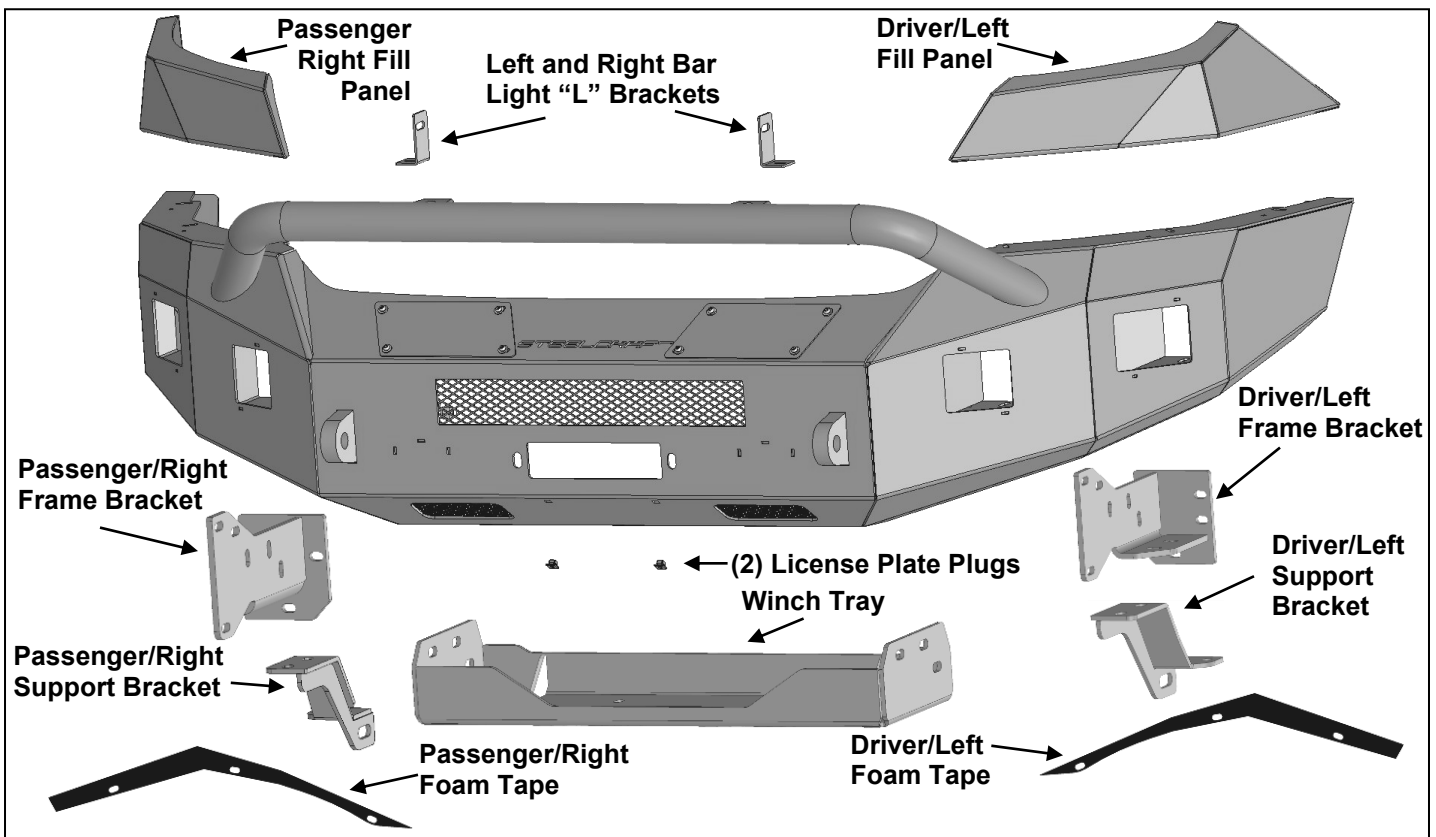


**FORTIS BULLNOSE WINCH BUMPER  
2016-23 TOYOTA TACOMA**

**PARTS LIST:**

1	Fortis Front Winch Bumper	2	12mm X 120mm Hex Bolts
1	Winch Tray	16	12-1.75mm X 50mm Hex Bolts
1	Driver/left Frame Bracket	36	12mm X 32mm OD X 3mm Flat Washers
1	Passenger/right Frame Bracket	6	12mm Lock Washers
1	Driver/left Support Bracket	6	12mm Hex Nuts
1	Passenger/right Support Bracket	12	12mm Nylon Lock Nuts
1	Driver/left Fill Panel	2	8mm X 1.25mm X 25mm Hex Bolts
1	Passenger/right Fill Panel	2	8mm X 1.25mm X 16mm Hex Bolts
1	Driver/left LED Light Bracket	6	8mm X 24mm OD X 2mm Flat Washers
1	Passenger/right LED Light Bracket	4	8mm Lock Washers
2	Plastic Plugs for License Plate	2	8mm Hex Nuts
1	Rubber Trim	8	6-1mm X 20mm Hex Bolts
1	Driver/left Foam Tape	2	6-1mm x 20mm button head bolts
1	Passenger/right Foam Tape	20	6mm X 18mm OD X 1.6mm Flat Washers
1	Allen Wrench	10	6mm Nylon Lock Nuts



**PROCEDURE:**

**REMOVE CONTENTS AND VERIFY ALL PARTS ARE PRESENT. SOME SMALL PARTS WILL BE HIDDEN IN WRAPPINGS. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. ASSISTANCE IS RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE. CUTTING IS REQUIRED.**

1. Remove the license plate and bracket. Open the hood and remove the plastic cover from the top of the radiator and grille, **(Figure 1)**. Next, carefully remove hardware and the plastic grille. **IMPORTANT:** Models with grille mounted sensor, unplug sensor before removing grille, **(Figures 2 & 3)**.
2. Remove the air dam from the bottom of the bumper, **(Figure 4)**.
3. On models with factory fog lights, unplug both lights. Unplug the wiring harness leading to the bumper and move the harness out of the way.

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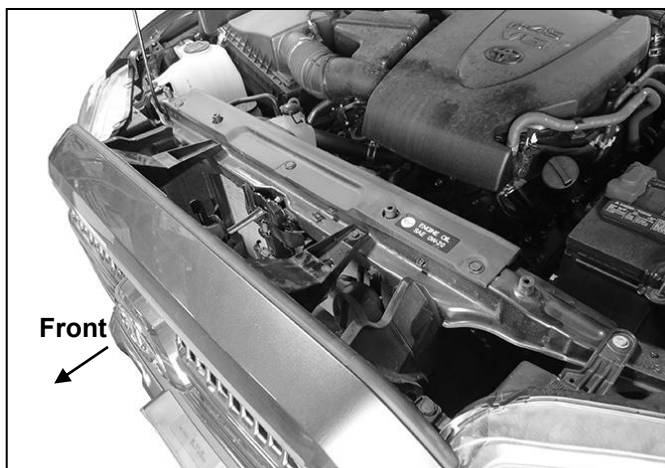
4. Carefully pull the front leading end of the fender flares, if equipped, to release the plastic flare from the bumper cover, **(Figure 5)**. The flares do not need to be fully removed, simply release the front portion and leave the rest of the flare attached.
5. Remove the hardware attaching the plastic bumper cover at the ends, the top and the bottom. With assistance, pop the ends off of the inner clip and pull the bumper off and away from the vehicle. Remove the plastic bumper mount from below the passenger/right side headlight, **(Figure 5)**. Reinstall the factory hardware to secure the headlight to the vehicle. Repeat to remove the bumper mount from the driver/left side of the vehicle.
6. Remove the aluminum inner bumper assembly with brackets from the end of the frame, **(Figure 6)**. Next, remove the bolt on the bottom of the frame for the frame extensions, **(Figure 7)**. Set the nuts and bolts aside for re-use.
7. Re-attach grille. Replace the OE plastic pushpins on each side with the included (2) 6mm x 25mm Hex Bolts, (4) 6mm x 18mm Large Flat Washers, and (2) Nylon Lock Nuts, **(Figure 8)**. **NOTE:** Use a wire tie, (not included), to secure the bottom of the grille to the inner crossmember under the grille, **(Figure 8)**. Plug wire harness into sensor/camera if equipped, **(Figure 2)**. Reattach radiator cover.
8. Select the driver/left Frame Bracket, **(Figure 10)**. Reuse the (3) factory hex nuts to attach the Bracket to the frame.
9. Insert (1) 12mm x 120mm Hex Bolt with (1) 12mm Flat Washer through the lower mounting hole in the bracket and through the frame. Use the included (1) 12mm Flat Washer and (1) 12mm Nylon Lock Nut to secure the Bracket to the lower mounting hole, **(Figures 10 & 11)** Do not fully tighten hardware at this time.
10. Next, select the driver/left Support Bracket and using the bolt removed in **Step 6**, attach the driver/left Support Bracket to the bottom of the frame. Then, attach the Support bracket to the Frame Bracket using (2) 12mm x 45mm Hex Bolts, (4) 12mm Flat Washers, and (2) 12mm Nylon Lock Nuts, **(Figure 12 & 13)**. Do not fully tighten hardware at this time.
11. Repeat **Steps 8—10** to install the passenger/right Frame Bracket and Support Bracket.
12. **Winch Tray and Winch installation (winch sold separately):**
  - a. Select the Winch Tray. With assistance, slide the Winch Tray between the Frame Brackets. Attach the Winch Tray to the Frame Brackets with (6) 12mm x 40mm Hex Bolts, (12) 12mm Flat Washers and (6) 12mm Nylon Lock Nuts, **(Figures 14 & 15)**. Do not fully tighten all hardware.
  - b. If installing winch, follow manufacturer's instructions to attach the winch to the Winch Tray in a feet down configuration. Winch must be installed before Bumper is placed in position against Brackets. Attach winch cable guide, (not included), to Bumper assembly. Follow manufacturer's instructions to properly wire the winch to the electrical system.
13. **Optional Center LED light installation (sold separately).** **NOTE:** Light must be installed before Bumper Assembly is attached to the Frame Brackets.
  - a. Select the L/R "L" Brackets, **(Figure 16)**. **NOTE:** "L" Brackets are offset for universal fitment for most LED bar style lights. Attach the LED light assembly to the "L" Brackets with the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers. Do not fully tighten hardware at this time. **NOTE:** "L" Brackets may require modification for hardware larger than 8mm or use brackets supplied with light if possible.
  - b. Attach the light and Brackets to the top of the (2) tabs on the back of the Bumper with the included 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 16)**. Adjust light position and tighten hardware.
  - c. Follow light manufacturer's instructions to wire the light once Bumper has been fully installed.
14. Apply the supplied foam tape along the bottom of each Fill Panel. Press it down firmly so it sits flat, and make sure the holes in the tape line up with the mounting holes in the panel, **(Figure 17)**.
15. Select the driver/left Bumper Upper Fill Panel, **(Figure 18)**. Attach the Fill Panel to the top of the Bumper with (3) 6mm x 25mm Hex Bolts, (6) 6mm Flat Washers and (3) 6mm Nylon Lock Nuts. Line up the edges of the Fill Panel with the Bumper and leave loose so adjustments can be made later. Repeat this Step to install the passenger/right Fill Panel.
16. **Optional:** Press the Rubber Trim firmly along the inside edges of the Bumper for paint protection during install. **(Figure 19)**. Snip off excess as necessary.

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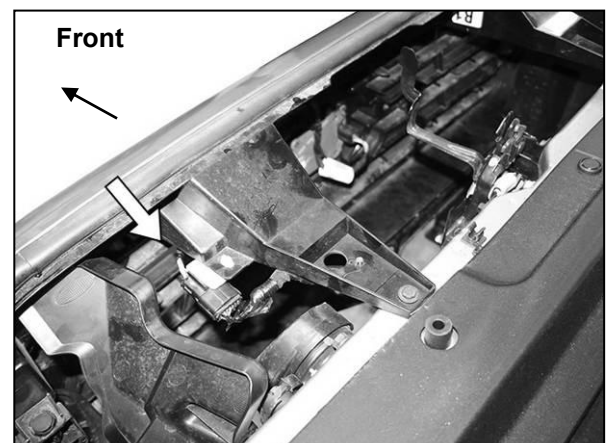
17. With assistance, position the Bumper Assembly up to the outside of the Frame Brackets. Temporarily support the weight of the Bumper. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the Bumper is fully and safely supported.
18. Line up the driver/left side mounting plate on the back of the Bumper with the (3) slots in the Frame Bracket. Attach the Bumper to the Bracket with the included (3) 12mm x 40mm Hex Bolts, (6) 12mm Flat Washers and (3) 12mm Nylon Lock Nuts, (**Figures 20 & 21**). Do not fully tighten hardware at this time. Repeat this **Step** to attach the passenger/right side of Bumper.
19. Level and adjust the bumper and fully tighten all 12mm hardware to 65-70ft-lbs. Remove access cover on the top of the Bumper to reach hardware if necessary. **NOTE:** It may be necessary to temporarily remove the outer bumper assembly to shift the inner Winch Tray/Bracket assembly in multiple directions for proper adjustment. Once properly adjusted, fully tighten the Winch Tray to Frame Bracket hardware first, then Frame Bracket to frame, Support Bracket to Frame Bracket then reinstall the outer Bumper assembly and fully tighten the Bumper mounting hardware.
20. Use the included (2) push-in plastic nuts to attach the front license plate, (if required), to the (2) holes in the front bumper, (**Figure 22**).
21. Cover the driver/left plastic fender flare with removable tape, (masking tape for example). Hold the fender flare in position on the fender and over the end of the Bumper. Draw a straight line onto the tape to match where the end of the fender and Bumper meet, (**Figure 23**). Use a sharp knife or hacksaw blade to carefully cut the leading end off of the flare along the line. Reattach the fender flare to the fender. Repeat to cut the passenger/right fender flare.
22. Secure the fender liner to the bumper by using (2) 6mm x 20mm Button Head Bolts, (4) 6mm Flat washers, and (2) 6mm Nylon Lock Nuts, through the hole, (**Figure 24**). Trim the fender liner so it sits flush with the bottom of the bumper.
23. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

**To protect your investment**, do not use any type of polish or wax that may contain abrasives that could damage the finish. Mild soap may be used to clean the Front Bumper assembly.

**Driver/left Side Installation Pictured**



(Fig 1) Remove plastic cover from top of radiator

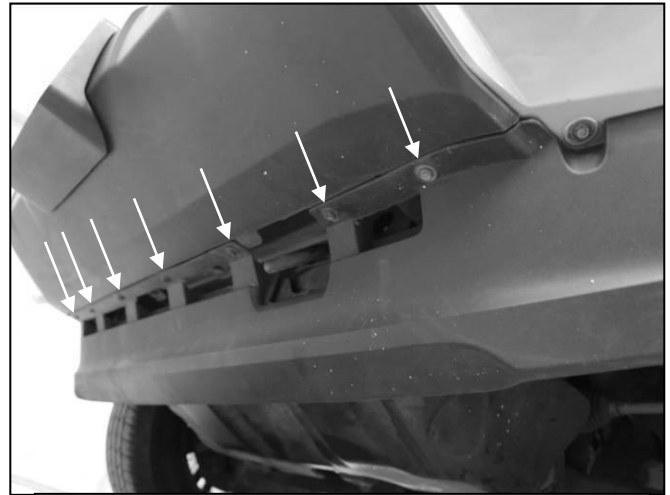


(Fig 2) Models equipped with grille mounted sensor, unplug sensor before removing grille

**Driver/left Side Installation Pictured**



**(Fig 3) Remove grille and license plate. Remove plastic bumper cover**



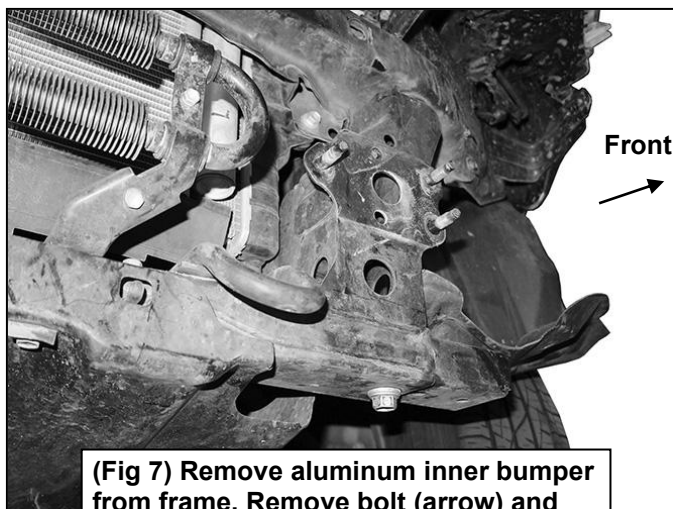
**(Fig 4) From below, remove the plastic air dam**



**(Fig 5) Remove plastic block (arrow) from front edge of fender. Reinstall hardware to secure headlight**



**(Fig 6) Remove plastic impact bumper and aluminum crossbar from bumper brackets**



**(Fig 7) Remove aluminum inner bumper from frame. Remove bolt (arrow) and set aside for reuse.**



**(Fig 8) Replace OE plastic pushpin with supplied hardware**

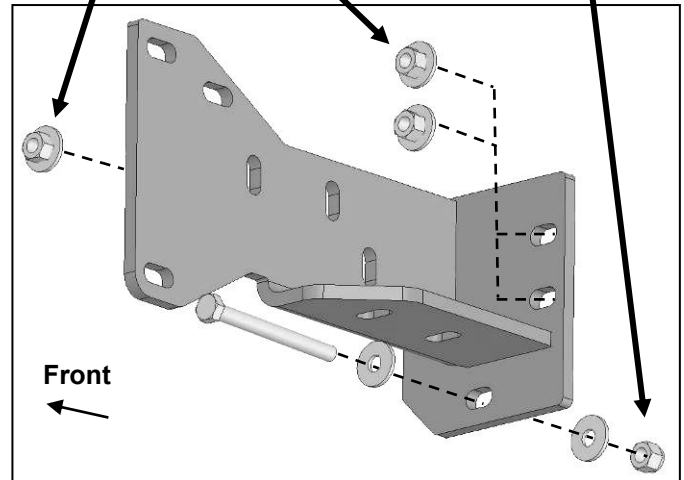
**Driver/left Side Installation Pictured**



**(Fig 9) Use a wire tie (arrow-not included) if needed to attach the bottom of the grille to the inner crossmember**

**Reuse (3) factory hex nuts to attach driver/left Frame Mounting Bracket to end of frame**

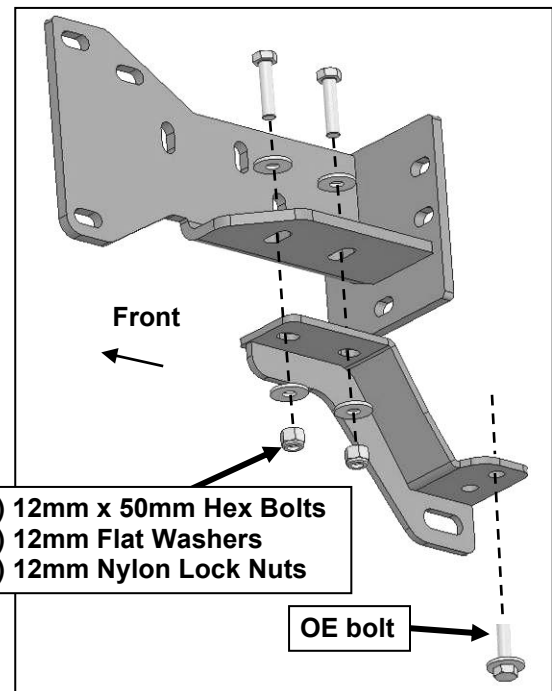
**12mm x 120mm Hex Bolt  
(2) 12mm Flat Washers  
12mm Nylon Lock Nut**



**(Fig 10) Attach driver/left Mounting Bracket to end of frame**

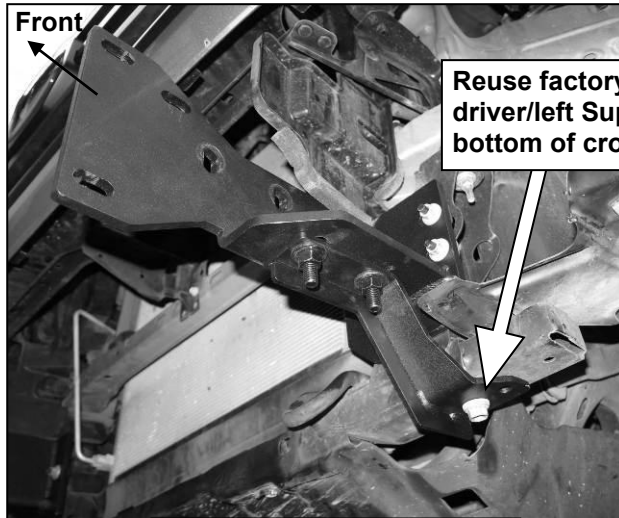


**(Fig 11) Attach driver/left Mounting Bracket to end of frame**



**(Fig 12) Attach Support Bracket to Frame Bracket and bottom of frame using OE bolt from (Fig 6)**

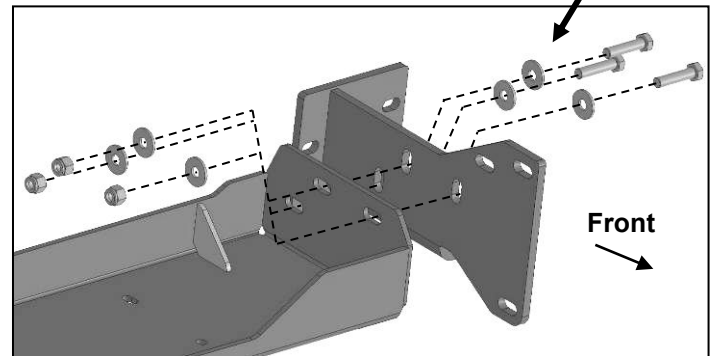
Driver/left Side Installation Pictured



(Fig 13) Frame Bracket and Support Bracket Installed

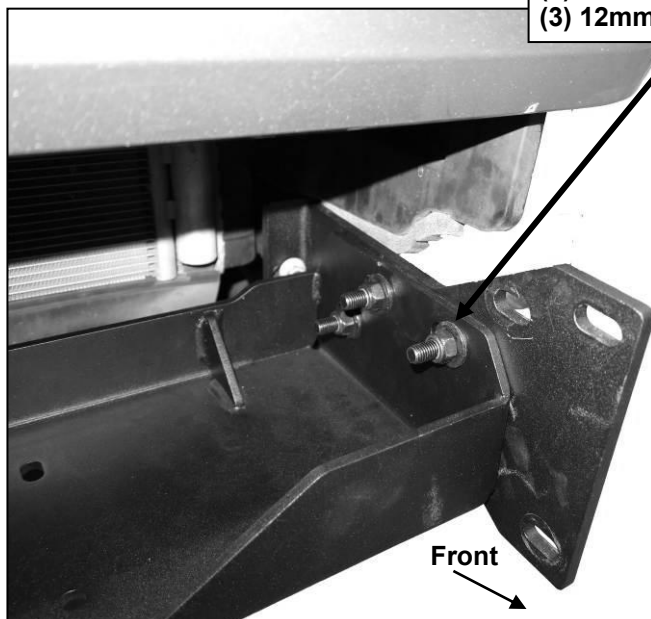
Reuse factory hex bolt to attach driver/left Support Bracket to bottom of crossmember

- (3) 12mm x 50mm Hex Bolts
- (6) 12mm Flat Washers
- (3) 12mm Nylon Lock Nuts



(Fig 14) Attach optional Winch Tray to inside of Frame Brackets (driver/left Bracket illustrated)

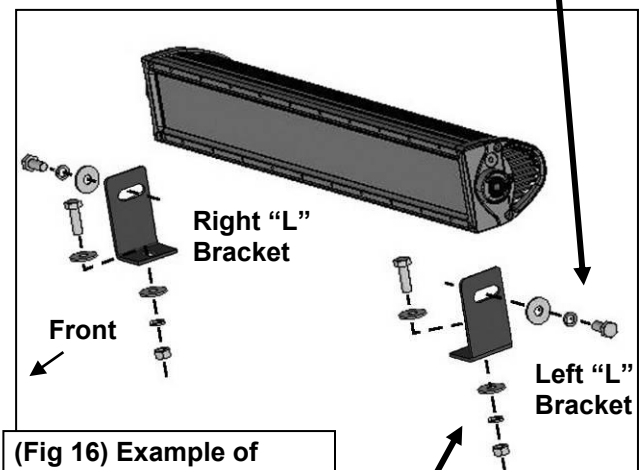
**WARNING!** Do not crawl under bumper unless the bumper is properly supported on blocks or stands or the bumper may fall.



(Fig 15) Attach Winch Tray to inside of Frame Brackets

- (3) 12mm x 50mm Hex Bolts
- (6) 12mm Flat Washers
- (3) 12mm Nylon Lock Nuts

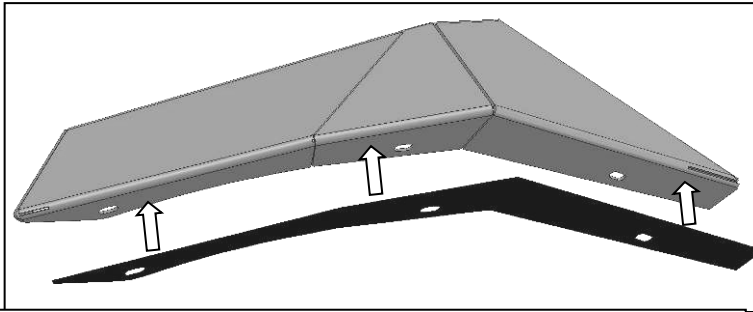
- (2) 8mm x 16mm Hex Bolts
- (2) 8mm Lock Washers
- (2) 8mm Flat Washers



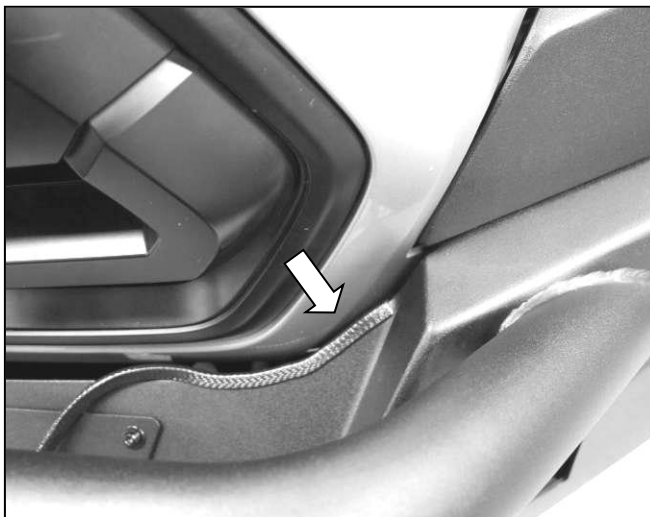
(Fig 16) Example of center light installation

- (2) 8mm x 25mm Hex Bolts
- (4) 8mm Flat Washers
- (2) 8mm Lock Washers
- (2) 8mm Hex Nuts

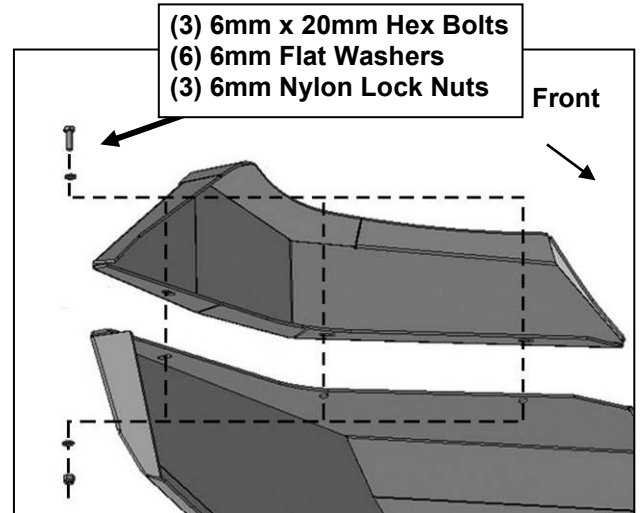
Driver/left Side Installation Pictured



(Fig 17) Apply Foam Tape to the bottom edge of Fill Panel

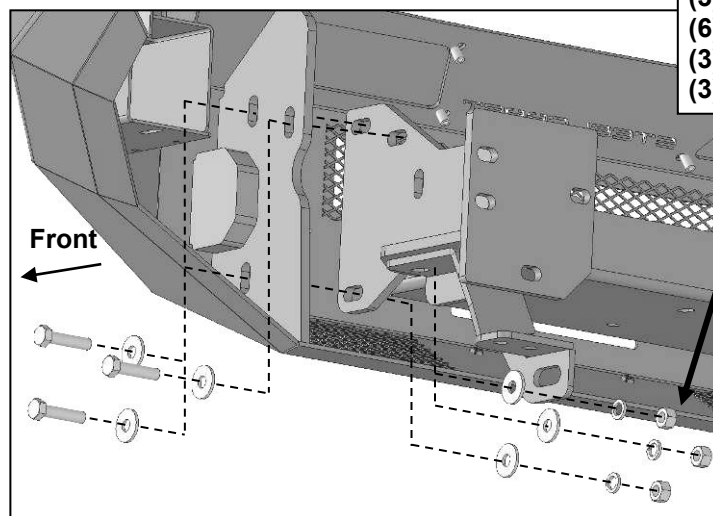


(Fig 19) Press the Rubber Trim along the inside edge of the Bumper and across the top edge of the Fill Panel.

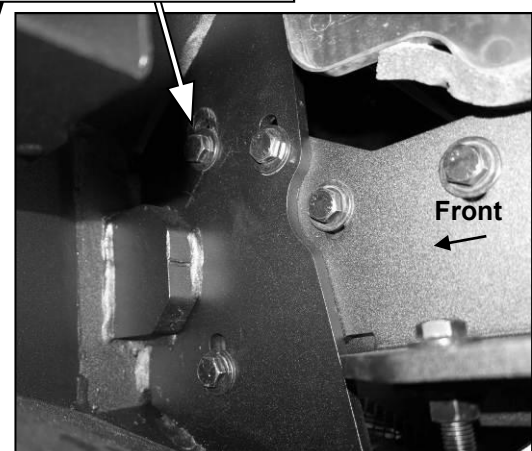


(Fig 18) Attach Fill Panel to top of Bumper

**WARNING!** Do not crawl under bumper unless the bumper is properly supported on blocks or stands or the bumper may fall.



(Fig 20) Attach Bumper to Frame Brackets

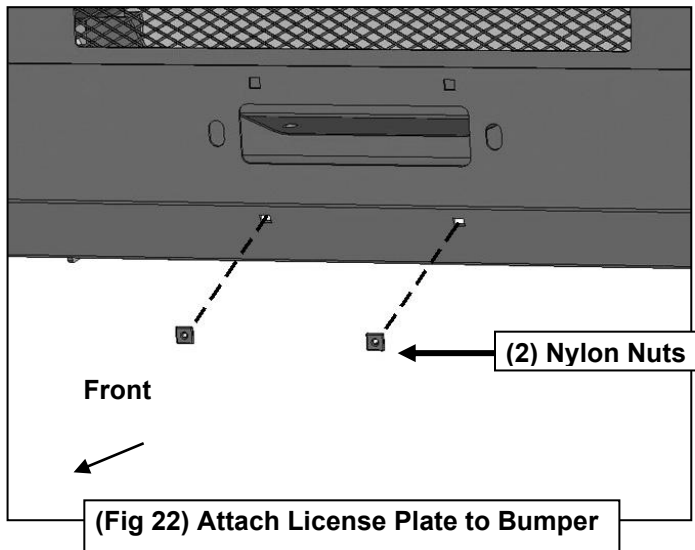


(Fig 21) Attached Bumper to Frame Brackets



**FORTIS BULLNOSE WINCH BUMPER  
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**Driver/left Side Installation Pictured**



(Fig 23) Cut front end off of the fender flare to match up to Bumper



(Fig 24) Secure the fender liner to the bumper using the 6mm button head bolt through the mounting hole shown. Trim liner as necessary.



Complete Installation