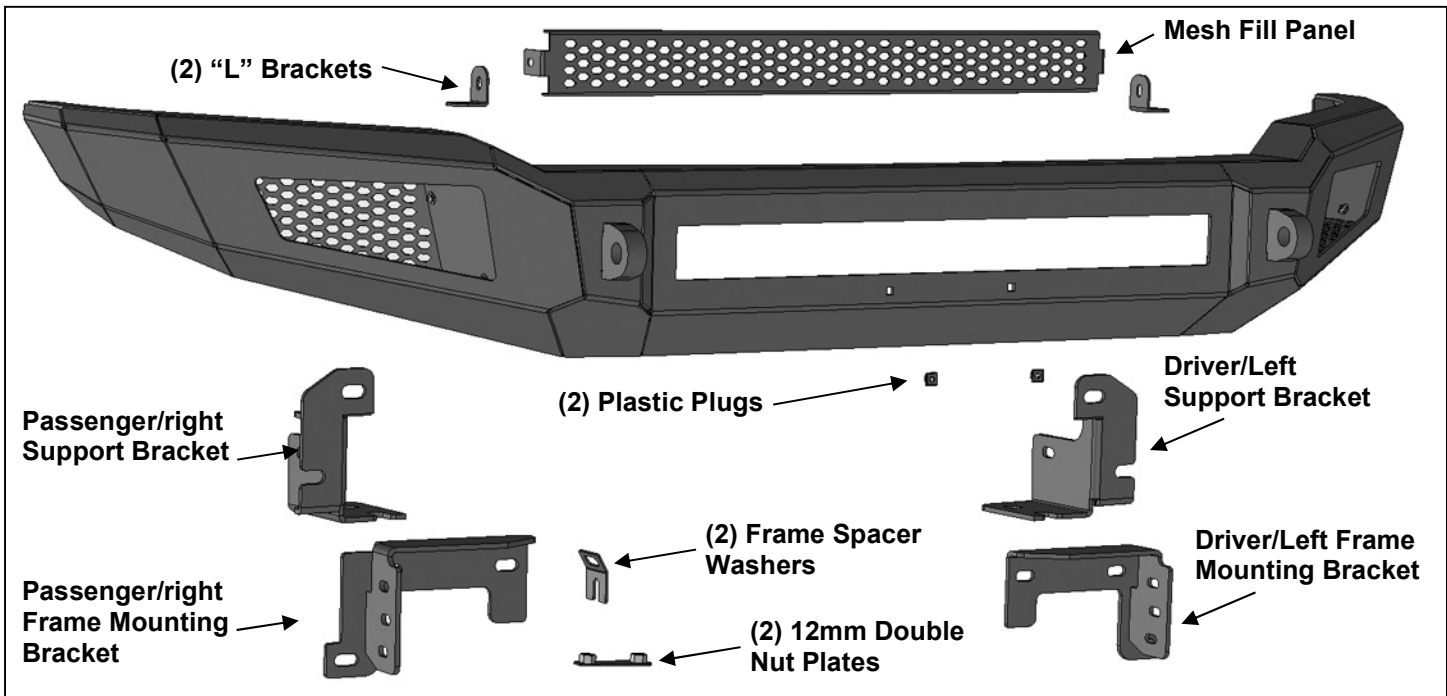


2018-2020 F150 AMBUSH SERIES FRONT BUMPER (NON-WINCH) PART #FD-19342

PARTS LIST:

1	Front Bumper Assembly	4	12mm Lock Washers
1	Mesh Fill Panel	2	12mm Nylon Lock Nuts
1	Driver/left Frame Bracket	6	10-1.5mm x 35mm Hex Bolts
1	Passenger/right Frame Bracket	12	10mm x 27mm x 3mm Flat Washer
1	Driver/left Support Bracket	6	10mm Lock Washers
1	Passenger/right Support Bracket	6	10mm Hex Nuts
2	Spacer Washers W-Slot	4	8-1.25mm x 25mm Hex Bolts
2	"L" Light Brackets	2	8-1.25mm x 16mm Hex Bolts (LED light bar)
2	Plastic Plugs for license plate mount	8	8mm x 24mm Flat Washers
2	12mm Double Nut Plates	4	8mm Lock Washers
2	12-1.75mm x 150mm Hex Bolts	4	8mm Hex Nuts
4	12-1.75mm x 45mm Hex Bolts	1	4mm Wrench
2	12mm x 44mm x 4mm Spacer Washers	10	Nylon Wire Ties
6	12mm x 32mm x 3mm Flat Washers		



PROCEDURE:

REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. BUMPER IS HEAVY, ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE.

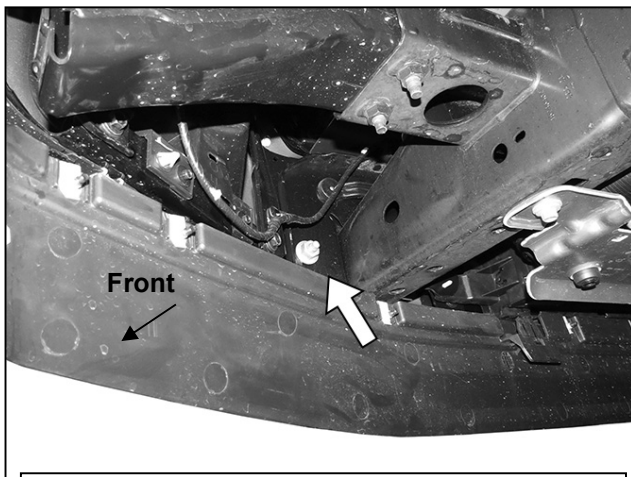
1. Unplug wiring harness leading to the bumper. Move harness away from bumper.
2. From behind the bumper, remove the (2) factory hex nuts, (one per bumper bracket), attaching the bottom of the bumper bracket to the frame bracket, **(Figure 1)**.
3. Remove the license plate and bracket. Next, remove both plastic bumper pads from the bumper, **(Figure 2)**. **NOTE:** Carefully pull bumper pad straight out away from bumper.

4. Unplug and remove the adaptive cruise control, if equipped.
5. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been safely supported, through the opening in the front of the bumper, remove the factory hex nuts from both sides and remove the bumper, (**Figures 2 & 3**). **WARNING!** Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling.
6. Use a flat blade screwdriver to pry off the lock washers attaching the bolt plates to the bottom of the bumper brackets on the back of the bumper, (**Figure 4**). Remove both bolt plates.
7. Remove both tow hooks from the bottom of the frame if equipped. **NOTE:** Tow hooks cannot be reinstalled.
8. On models without tow hooks, insert (1) 12mm Double Nut Plate into the open end of each frame rail, (**Figures 3 & 5**). **NOTE:** Models with tow hooks are already equipped with double nut plates.
9. Remove the double bolt plate from the top of the bumper mounting plate on the frame. Select the driver/left Support Bracket, (**Figure 5**). Attach the Support Bracket to the bottom of the frame and Double Nut Plate with the included (2) 12mm x 45mm Hex Bolts, (2) 12mm Lock Washers and (2) 12mm x 32mm STD Flat Washers. Attach the side of the Support Bracket to the outside of the frame with (1) 12mm x 150mm Hex Bolt with (1) 12mm x 32mm STD Flat Washer (bracket side), (1) 12mm x 44mm Large Flat Washer (against inner side of frame), and (1) 12mm Nylon Lock Nut, (**Figure 6**). Leave hardware loose. Insert (1) Frame Spacer down between the Support Bracket and the outer side of the frame to help support the Bracket against the frame. Push the Bracket up tight against the back of the mounting plate on the frame and tighten the (2) bottom hex bolts first, then the long bolt going through the frame.
10. Insert (1) factory double bolt plate through the top of the Support Bracket and the holes in the top of the frame mount. Select the driver/left Frame Bracket, (**Figure 7**). Reuse the (2) factory hex nuts to attach the Frame Bracket to the top of the frame mount and double bolt plate.
11. Insert the factory bolt plate through the lower mounting hole in the Bumper Bracket, the mounting plate on the frame and through the Support Bracket, (**Figure 7—10**). Reuse the factory hex nut to attach the Support Bracket to the bolt plate. Do not tighten hardware at this time.
12. Repeat **Steps 9—11** to install the passenger/right Frame and Support Brackets.
13. **Center LED light installation-not recommended on models with Ecoboost option,** (light sold separately).
 - a. Select the “L” Brackets, (**Figure 11**). Attach the Brackets to the top of the (2) mounting tabs welded onto the back of the bumper with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts. Leave loose at this time.
 - b. 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, (**Figure 11**). Do not fully tighten hardware at this time. **IMPORTANT:** “L” Brackets are designed for 8mm light mounting hardware only.
 - c. Follow light manufacturer’s instructions to properly wire light once bumper has been installed.
14. **Center Fill Panel installation** (no center light installed).
 - d. Select the “L” Brackets, (**Figure 11**). Attach the Brackets to the top of the (2) mounting tabs welded onto the back of the bumper with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts. Leave loose at this time.
 - e. Attach the Center Fill Panel to the “L” Brackets with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, (**Figures 12 & 13**).
 - f. Push Fill Panel up against back of Bumper. Align Panel to Bumper and tighten hardware.
15. **LED light installation at ends of bumper** as supplied with bumper or sold separately.
 - a. Insert light into opening in the passenger/right side of the Bumper and up to mounting slot. Check for clearance between front and back of light. If necessary, remove screen from back of opening, (**Figure 14**).
 - b. Attach (1) light to the slot in the top of the light opening, (**Figure 14**).
 - c. Repeat the above steps for driver/left side light installation.

- d. Follow light manufacturer's instructions to properly wire light once bumper has been installed.
16. With assistance, position the Bumper Assembly up to the outside of the Mounting Brackets. Temporarily support the weight of the Bumper. **Models with Ecoboost option**, test fit Bumper against air inlet, trim air inlet as necessary to clear Bumper. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the bumper is fully and safely supported.
17. Attach the driver/left side mounting plate on the back of the bumper to the Mounting Bracket with the included (3) 10mm x 35mm Hex Bolts, (6) 10mm Flat Washers, (3) 10mm Lock Washers and (3) 10mm Hex Nuts, **(Figures 15 & 16)**. Repeat this Step to attach the passenger side of the Bumper to the Bracket. Do not fully tighten hardware at this time.
18. Level and adjust the bumper and fully tighten all hardware.
19. If front license plate is required, Insert (2) Plastic Plugs into the square holes in the Bumper. Reuse the factory screws to attach the license plate to the plastic plugs, **(Figure 17)**.
20. 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 Bumper assembly.

Driver Side Installation Pictured



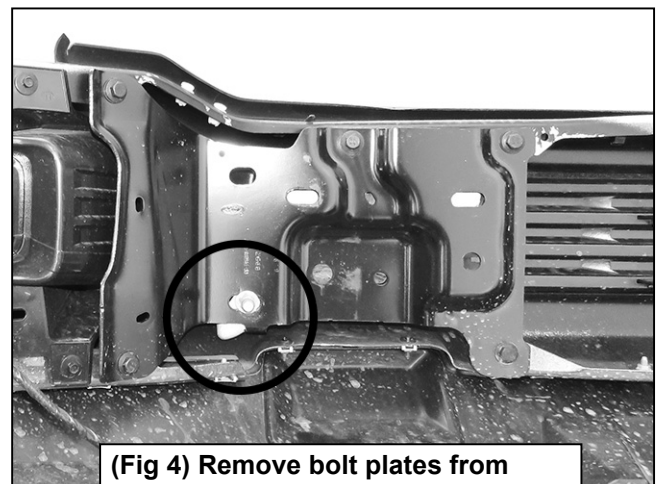
(Fig 1) Remove hex nuts (arrow). Release wiring harness leading to bumper if equipped



(Fig 2) Remove license plate and plastic bumper pads from bumper (passenger/right side pictured)



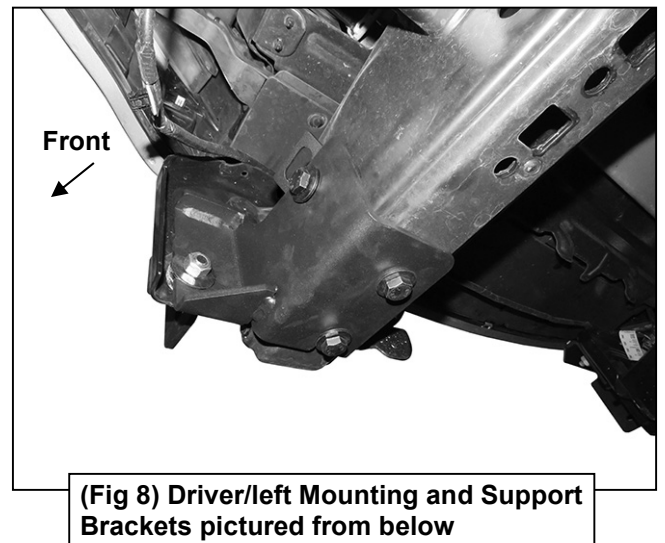
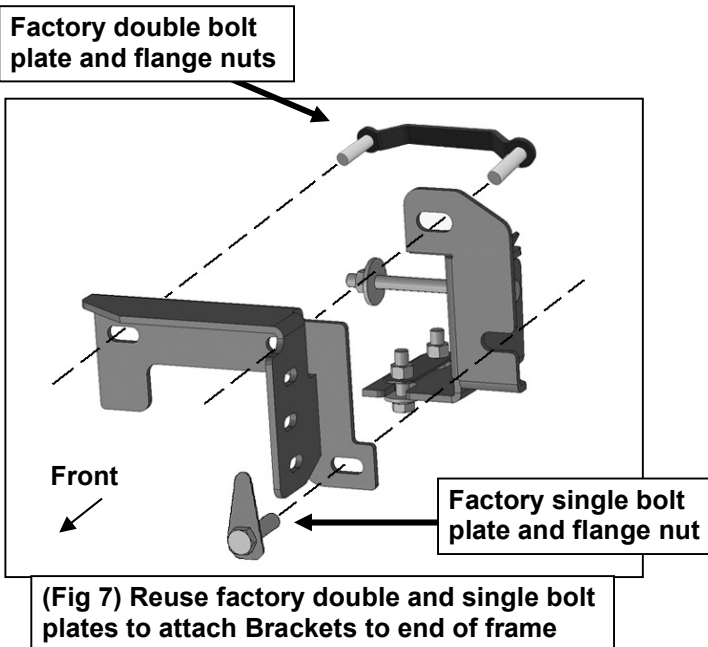
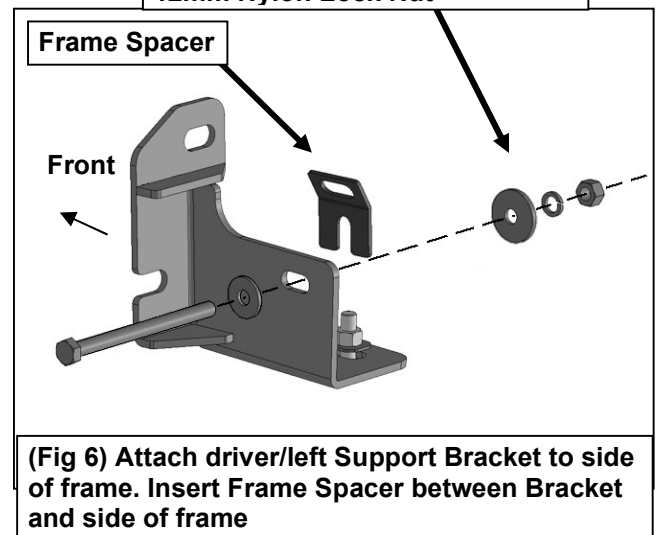
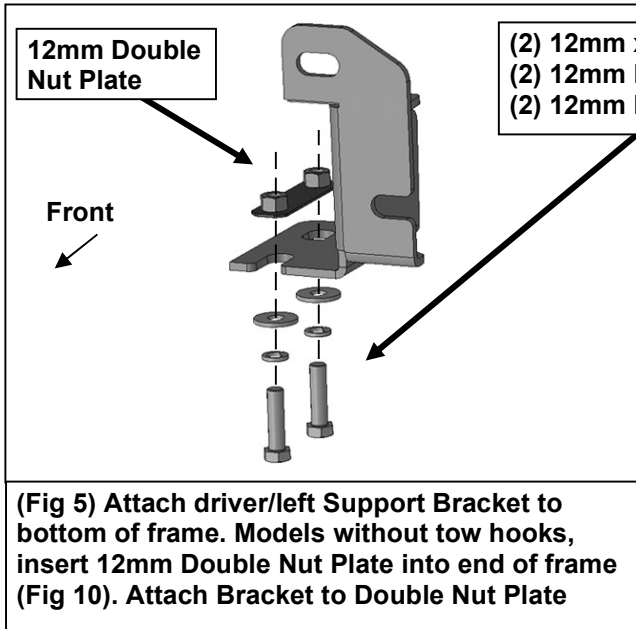
(Fig 3) Remove bumper (driver/left side pictured)



(Fig 4) Remove bolt plates from factory bumper (driver/left pictured)

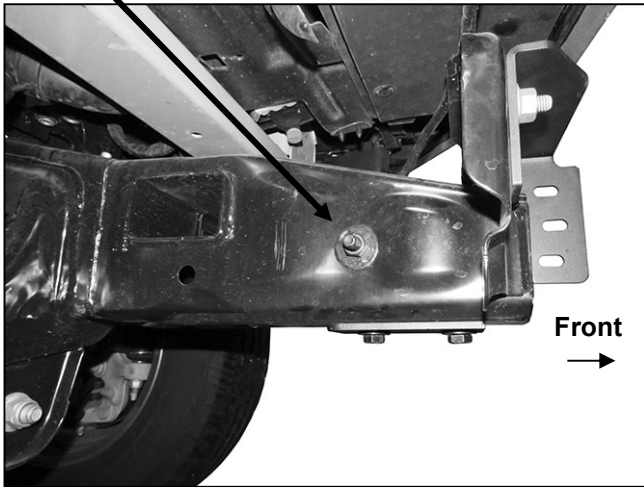
Driver Side Installation Pictured

WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or the bumper may fall.



Driver Side Installation Pictured

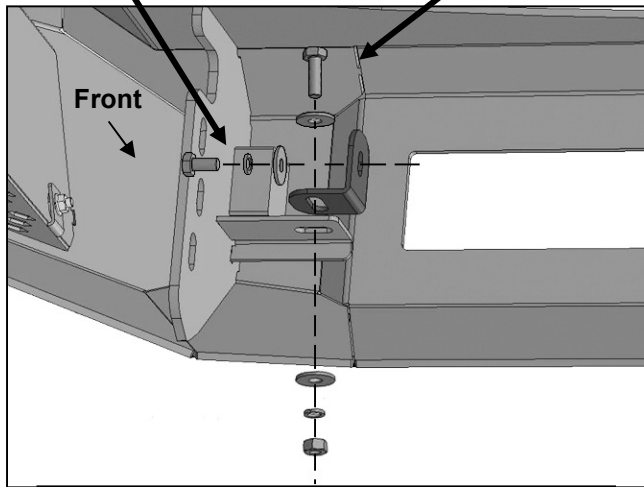
12mm x 44mm Large Flat Washer
(inner side of frame)
12mm Nylon Lock Nut



(Fig 9) Driver/left Brackets to side of frame. Insert Frame Spacer between Bracket and side of frame

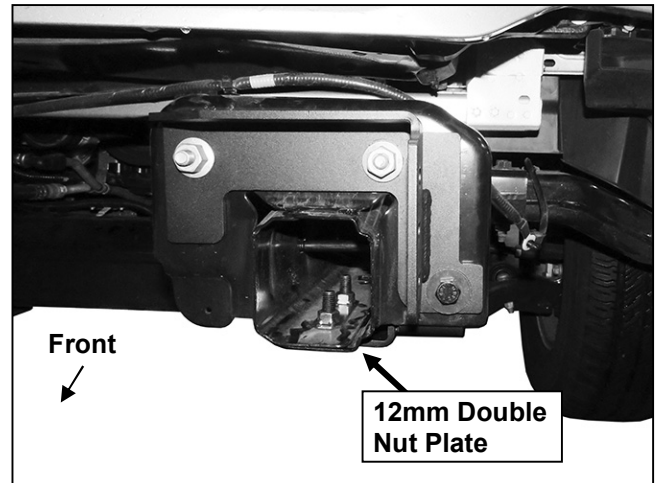
8mm x 16mm Hex Bolt
8mm Lock Washer
8mm Flat Washer

8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut



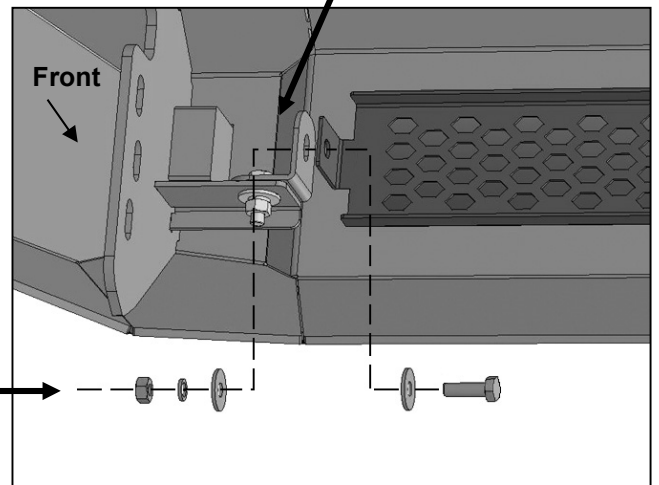
(Fig 11) Example of center light installation

8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut



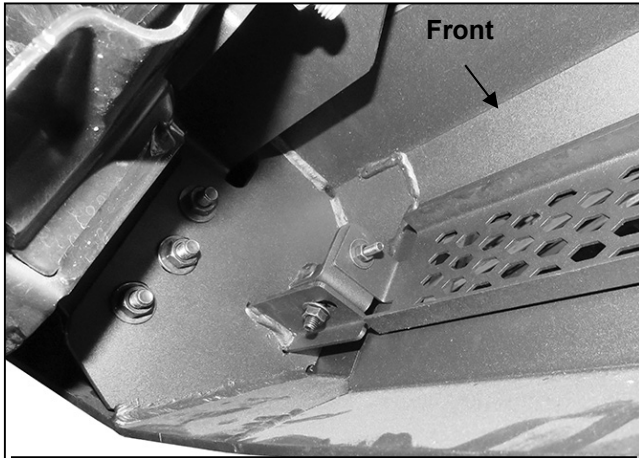
(Fig 10) Reuse factory single and double bolt plates and hex nuts to attach Frame Mounting Bracket to end of frame and Support Bracket

8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut

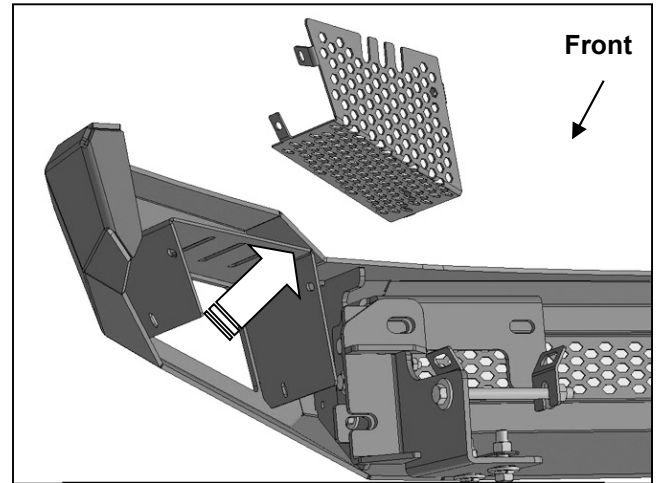


(Fig 12) Example of Mesh Fill Panel installation

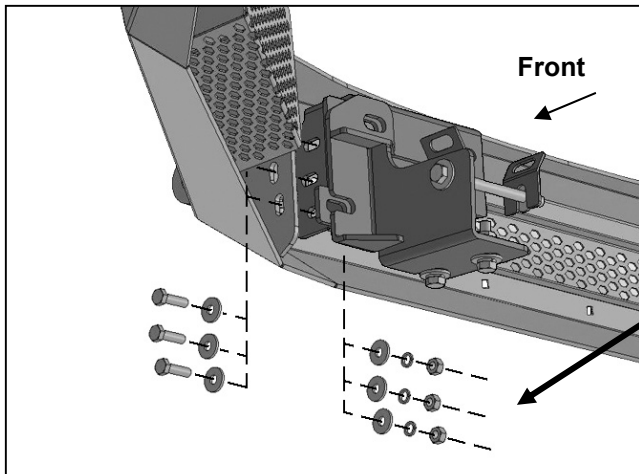
Driver Side Installation Pictured



(Fig 13) Example of Mesh Fill Panel installation

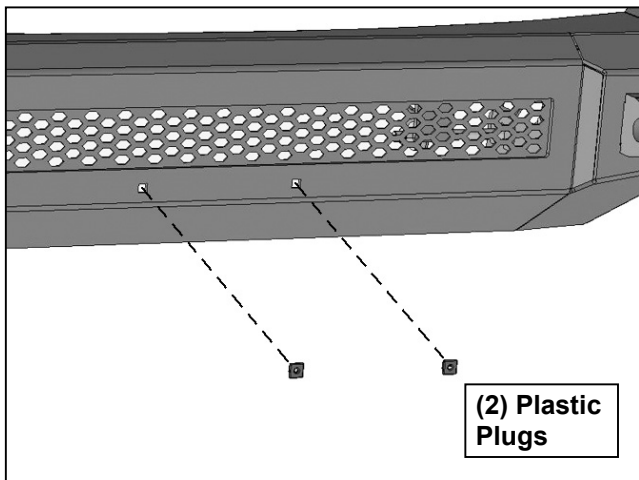


(Fig 14) Remove screens if necessary for clearance/access to outer light mounts

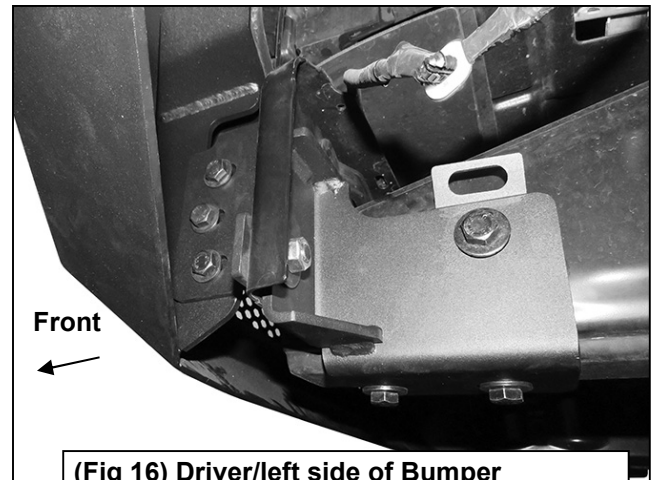


(Fig 15) Attach Bumper to Frame Mounting Bracket

- (3) 10mm x 35mm Hex Bolts
- (6) 10mm Flat Washers
- (3) 10mm Lock Washers
- (3) 10mm Hex Nuts



(Fig 17) Insert Plugs to attach License Plate to Bumper



(Fig 16) Driver/left side of Bumper attached to Bracket (pictured from below)