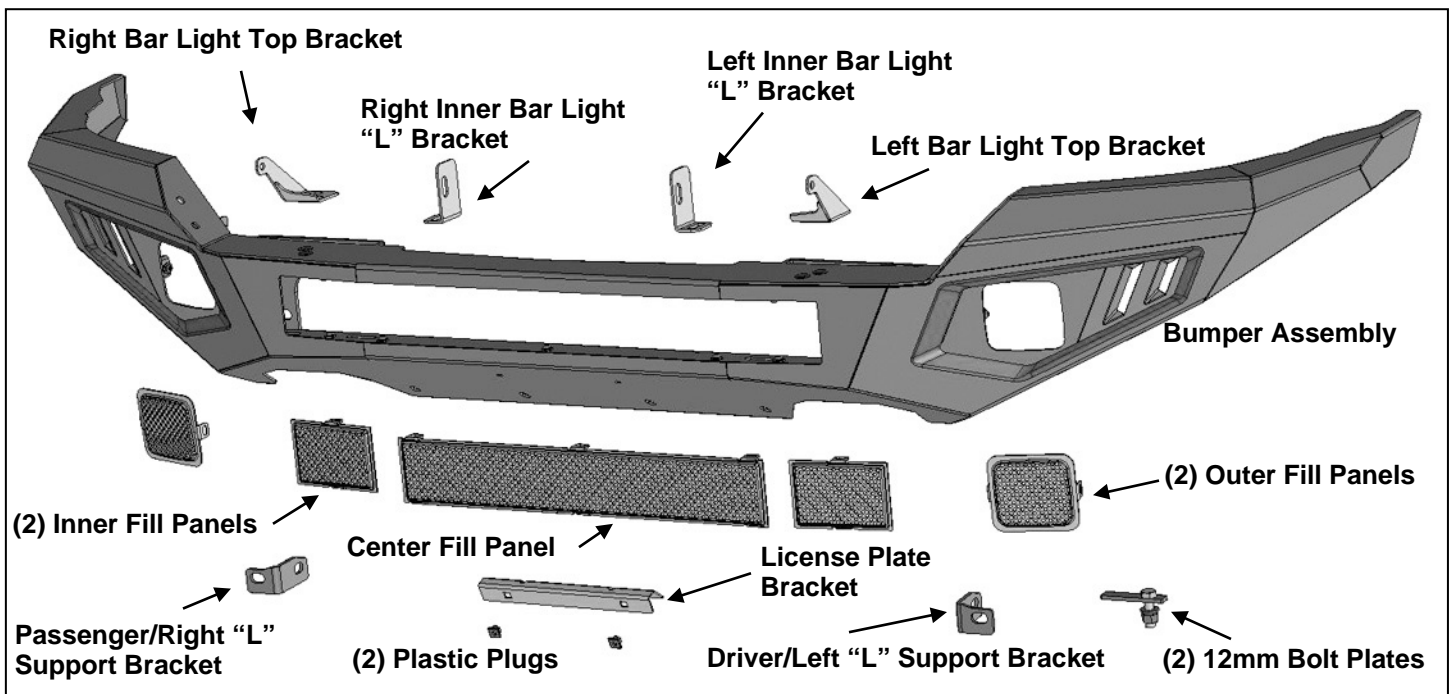




AB2210 - Endurance Truck Front Bumper for 16-18 CHEVY SILVERADO 1500

PARTS LIST:

1	LD2 Front Bumper Assembly	4	10mm x 30mm x 2.5mm Flat Washers
1	Long Center Fill Panel	2	10mm Lock Washers
2	Small Inner Fill Panels	2	10mm Hex Nuts
2	Small Outer Fill Panels	4	8mm x 25mm Button Head Bolts
1	Driver/left "L" Bumper Support Bracket	2	8mm x 25mm Hex Bolts
1	Passenger/right "L" Bumper Support Bracket	2	8mm x 16mm Hex Bolts
1	License Plate Bracket	14	8mm x 24mm x 2mm Flat Washers
2	Plastic Plugs for License Plate	8	8mm Lock Washer
1	Driver/left Light Bar Bracket (Top LED light)	6	8mm Hex Nut
1	Passenger/right Light Bar Bracket (Top LED light)	14	6-1.0mm x 20mm Combined Bolt
1	Driver/left "L" Light Bar Bracket (Inner LED light)	14	6mm Flange Nut
1	Passenger/right "L" Light Bar Bracket (inner LED light)	2	6mm x 20mm Button Head Bolts
2	12mm x 35mm Bolt Plates	2	6mm x 16mm Hex Bolts
2	12-1.75mm x 130mm Hex Bolts	6	6mm x 18mm x 1.6 Flat Washers
4	12mm x 24mm x 2.5mm Flat Washers	2	6mm Lock Washer
2	12mm Lock Washers	2	6mm Nylon Lock Nuts
2	12mm Hex Nuts	1	5mm Wrench
2	10-1.5mm x 35mm Hex Bolts	1	4mm Wrench



PROCEDURE:

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



1. Remove the license plate and bracket. On models with factory fog lights and/or bumper sensors, unplug the wiring harness leading to the bumper. Move harness away from bumper.
2. Next, open the hood and remove the plastic cover between the top of the radiator and the grille, **(Figure 1)**. Next, carefully remove the grille from the vehicle. **NOTE:** Grille is held in place with screws at the top and several clips, **(Figure 1)**. Remove the screws and firmly pull the grille straight out from the vehicle to release the grille from the clips, **(Figures 2 & 3)**.
3. From behind the bumper, remove the outer bumper supports on each side of the frame, **(Figure 4)**.
4. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the bumper bolts attaching the bumper assembly to the frame bracket bolted to the end of the frame, **(Figure 5)**. **WARNING!** Assistance is required to hold the bumper in place during bolt removal to prevent the bumper from falling. Carefully slide the bumper assembly off of the ends of the frame.
5. Once bumper has been removed, reinstall the plastic grille and cover removed in **Step 2**.
6. Remove both bumper brackets from the ends of the frame, **(Figures 6—8)**. **NOTE:** Do not remove the tow hooks if equipped, **(Figure 7)**.
7. Carefully unwrap the Bumper assembly. Determine if accessory lights, (not included), or Screen Fill Panels will be installed at this time. **IMPORTANT:** It may be easier to install Center Fill Panels and/or lights before installing Bumper.

Screen Fill Panel Installation (do not install fill panels if installing lights).

- a. Select desired Screen Fill Panels. **NOTE:** Outer Panels are square with rounded corners, Inner panels are rectangular with sharp corners, **(Figure 9)**.
- b. Attach Screen Fill Panels as needed with the included 6mm Button Head Combo Bolts and 6mm Flange Nuts, **(Figures 9 & 10)**. Fully tighten Fill Panel hardware at this time. Repeat to install all Panels as desired.

Inner center LED bar style light installation (light not included).

- a. Select the driver/left "L" Light Bar Bracket. **NOTE:** "L" Brackets are offset to adjust for different widths of LED Bar Lights and can be installed on either side as needed.
- b. Attach the L Bracket to the slot on the back of the Bumper with (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 11)**. Repeat this Step to install the remaining "L" Bracket on the other side of the Bumper. **IMPORTANT:** The Bumper features slots designed for 20" and 30" bar style lights. Attach the Brackets to the correct slots in the Bumper. If necessary, hold the light up to the slots to help determine correct slots to use and combination of Brackets.
- c. Attach the light to the "L" Brackets with the hardware included with the light or the supplied (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers or (2) 6mm x 16mm Hex Bolts, (2) 6mm Lock Washers and (2) 6mm Flat Washers, **(Figures 11 & 12)**. Do not fully tighten hardware at this time.

Top mounted 30" bar style LED light (not included).

- a. Remove the (2) rubber plugs from the driver/left side mounting holes, **(Figure 13)**.
- b. Select the driver/left Light Bracket. Attach the Bracket to the top of the Bumper with (2) 8mm x 25mm Button Head Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 13)**. Do not tighten hardware at this time.
- c. Repeat previous Steps to attach the passenger/right Bracket.
- d. Select the 30" light, (not included). Attach light to Top Brackets with the hardware included with the light. Adjust the width of the Brackets to the light and fully tighten bracket hardware. **IMPORTANT:** Top Light Brackets are designed to install 30" bar style LED lights with outside length dimensions of 31.653" (804mm) to 32.44" (824mm) only, **(Figure 14)**. Fully tighten top light hardware once adjusted.

Outer LED cube style light installation (light not included).

- a. Attach lights to mounting tabs on back of each end of the Bumper, **(Figure 19)**.



8. With assistance, position the Bumper Assembly up to the ends of the frame. 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.
9. Line up the (2) upper slots in the driver/left side mounting plate on the back of the Bumper with the mounting holes in the end of the frame. Reuse the factory bolts to attach the Bumper to the plate. Repeat this **Step** to attach the passenger/right side of the Bumper to the frame.
10. Select the driver/left "L" Support Bracket. Determine correct procedure for your model.

Models with tow hooks.

- a. Remove the long hex bolt attaching the tow hook to the end of the frame. **NOTE:** It may be necessary to loosen the rear hex bolt to remove the long hex bolt, **(Figure 7)**.
- b. Select the driver/left "L" Support Bracket, (1) 12mm x 130mm Hex Bolt and (1) 12mm Flat Washer, **(Figures 15 & 19)**. Insert the Long Hex Bolt and Flat Washer through the Bracket, the outside of the frame and the tow hook. Secure with (1) 12mm Flat Washer, (1) 12mm Lock Washer and (1) 12mm Hex Nut. Do not fully tighten at this time.

Models without tow hooks.

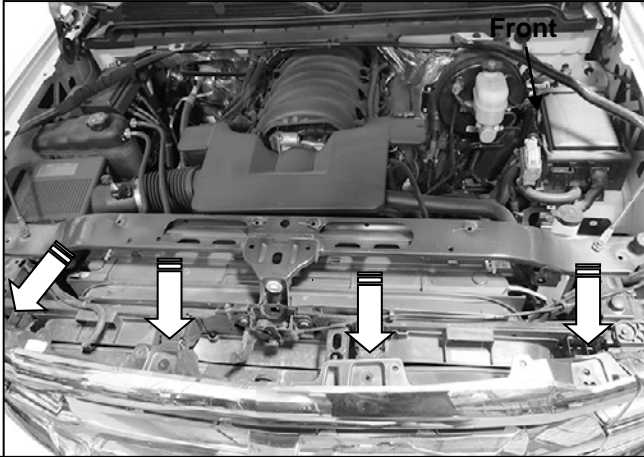
- a. Select (1) 12mm Bolt Plate, **(Figure 17)**. Insert the Bolt Plate into the open end of the driver/left side of the frame. Push the threaded end out through the forward hole in the frame.
 - b. Select the driver/left "L" Support Bracket, **(Figure 17)**. Attach the Support Bracket to the Bolt Plate with (1) 12mm Flat Washer, (1) 12mm Lock Washer and (1) 12mm Hex Nut. Do not fully tighten at this time. Repeat the previous Steps to install the passenger/right "L" Support Bracket.
11. Next, line up the driver/left "L" Support bracket with the lower mounting hole in the Bumper. Attach the Support Bracket to the Bumper with (1) 10mm x 35mm Hex Bolt, (2) 10mm Flat Washers, (1) 10mm Lock Washer and (1) 10mm Hex Nut, **(Figures 16, 18 & 19)**. Repeat this Step to attach the passenger/right "L" Support Bracket to the Bumper.
 12. Repeat **Steps 10 & 11** to install the passenger/right "L" Support Bracket.
 13. Level and adjust the bumper and fully tighten all hardware.
 14. If front license plate is required, attach the License Plate Bracket to the holes in the bumper with the included (2) 6mm x 20mm Button Head Screws, (4) 6mm Flat Washers and (2) 6mm Nylon Lock Nuts. Insert (2) Plastic Plugs into the square holes in the Bracket. Reuse the factory screws to attach the license plate to the plastic plugs, **(Figure 20)**.
 15. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

To protect your investment, wax this product after installing. Regular waxing is recommended to add a protective layer over the finish. 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.

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



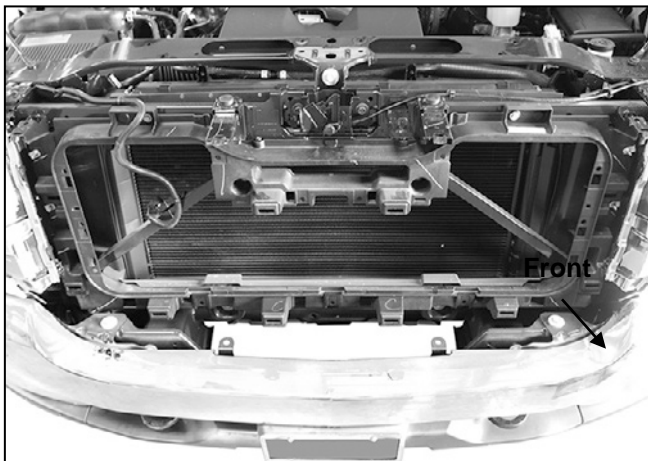
Driver/left Side Installation Pictured



(Fig 1) Remove cover between radiator and grille. Remove screws attaching top of grille (arrows)



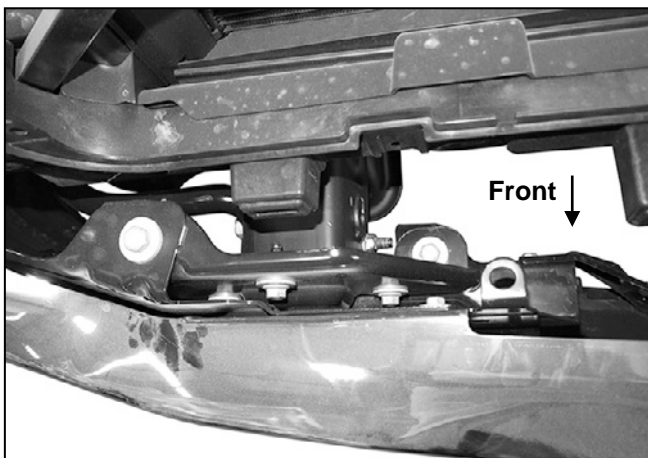
(Fig 2) Firmly pull grille straight out from vehicle



(Fig 3) Grille removed to access top bumper bolts



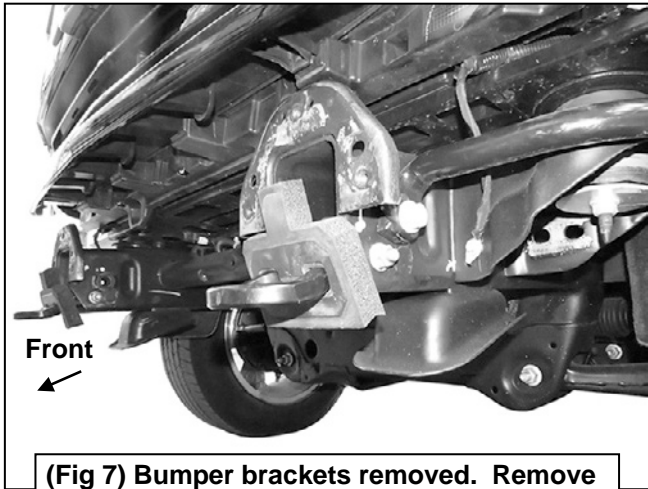
(Fig 4) Remove outer bumper support brackets



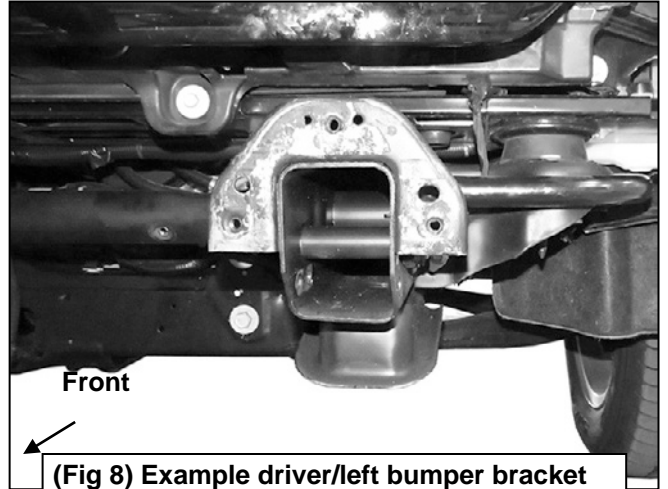
(Fig 5) Remove bumper bolts attaching bumper to brackets- passenger side pictured from above



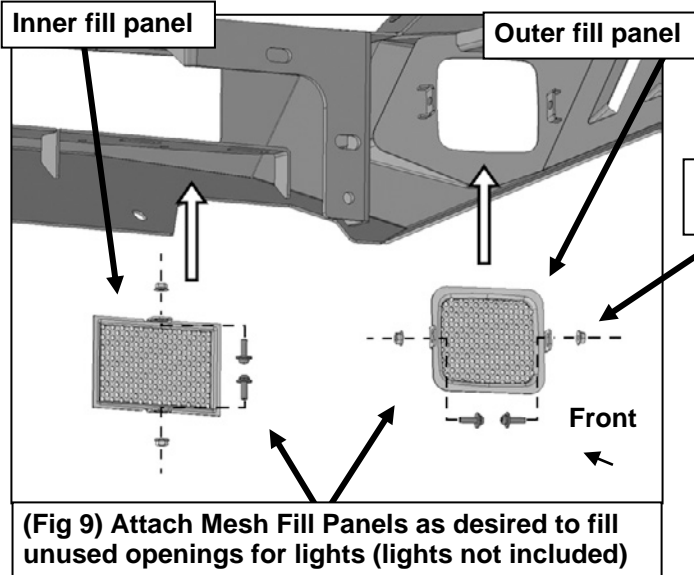
(Fig 6) Remove factory bumper brackets (Arrow)



(Fig 7) Bumper brackets removed. Remove seal around tow hooks if equipped



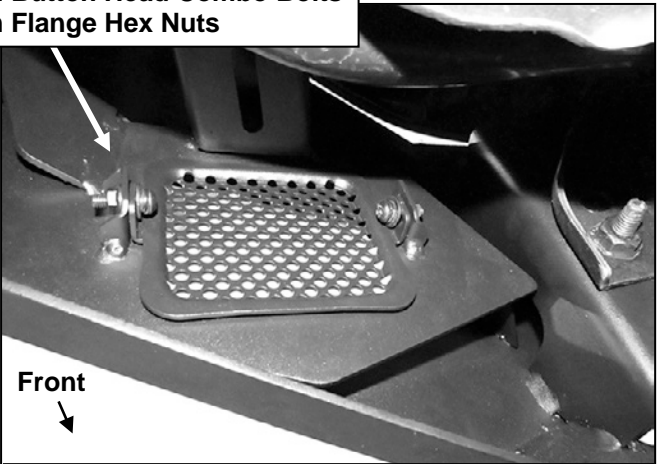
(Fig 8) Example driver/left bumper bracket removed on model without tow hooks



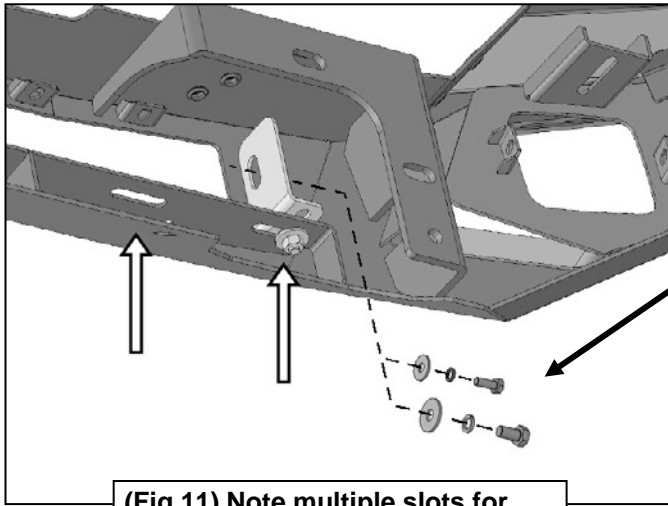
(Fig 9) Attach Mesh Fill Panels as desired to fill unused openings for lights (lights not included)

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

6mm Button Head Combo Bolts
6mm Flange Hex Nuts



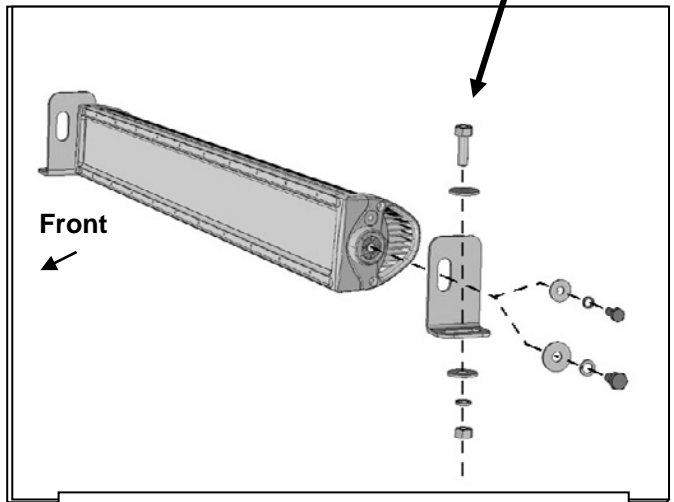
(Fig 10) Driver/left outer Mesh Fill Panel installed



(Fig 11) Note multiple slots for different widths of lights (arrows)

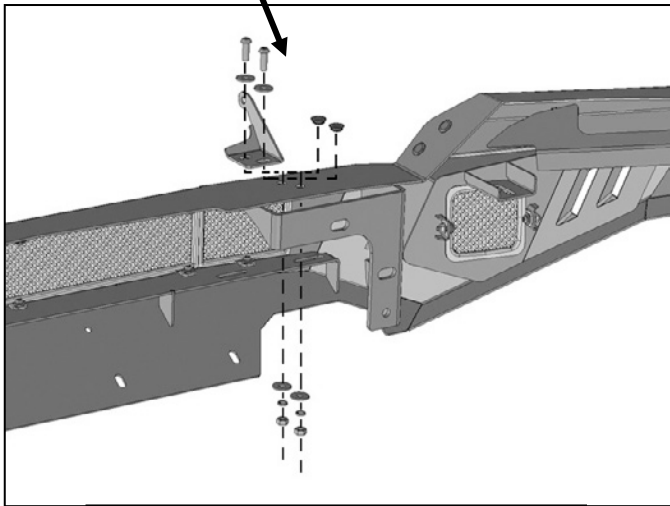
- 6mm x 16mm Hex Bolt
- 6mm Lock Washer
- 6mm Flat Washer
- Or
- 8mm x 16mm Hex Bolt
- 8mm Lock Washer
- 8mm Flat Washer

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



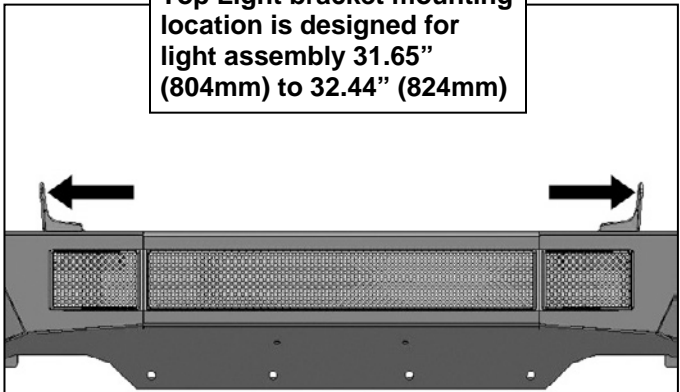
(Fig 12) Bracket illustration is a suggestion only. Brackets are offset to allow adjustment for all widths of lights

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

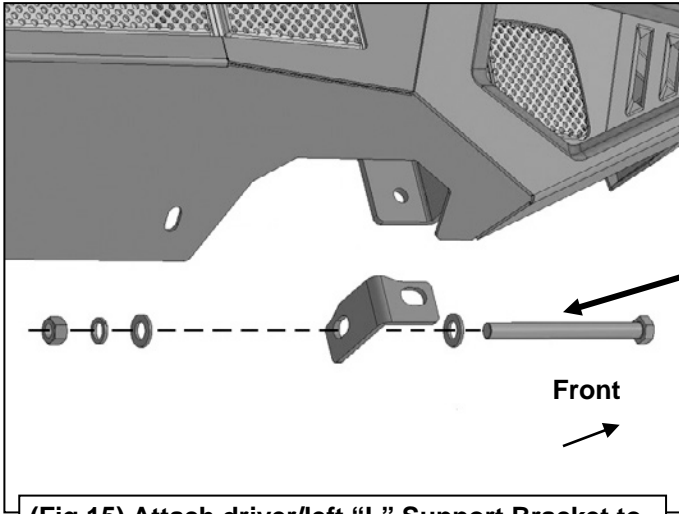


(Fig 13) Remove rubber plugs to attach Top Light Bracket to Bumper

Top Light bracket mounting location is designed for light assembly 31.65" (804mm) to 32.44" (824mm)



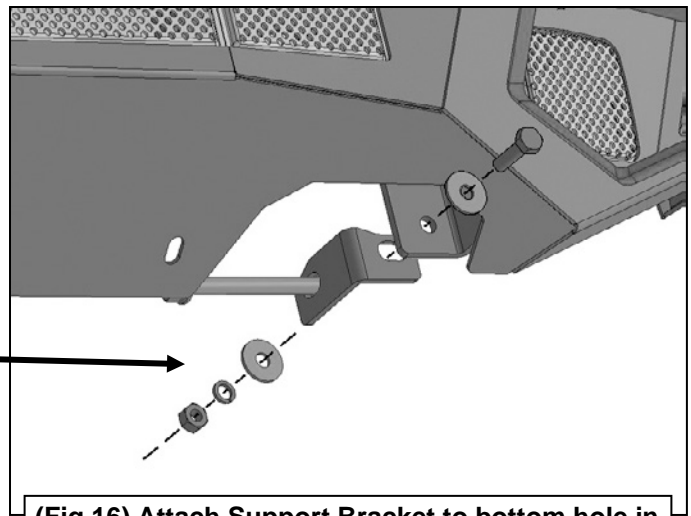
(Fig 14) Measure width of LED light (light only) before installation of Top Light Brackets



12mm x 130mm Hex Bolt
(2) 12mm Flat Washers
12mm Lock Washer
12mm Hex Nut

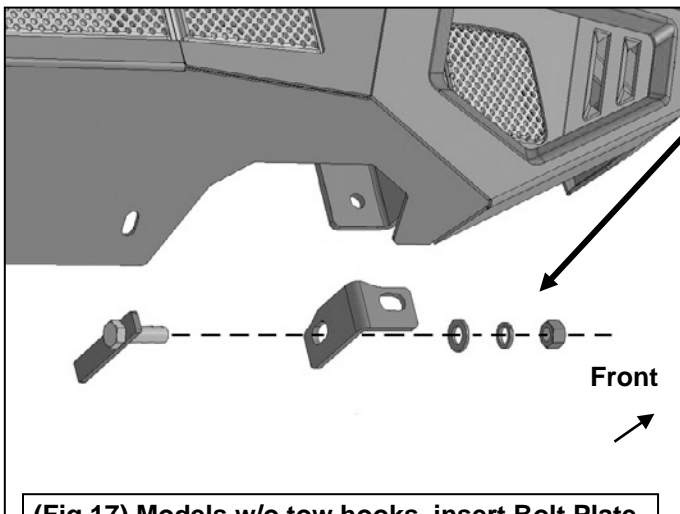
(Fig 15) Attach driver/left "L" Support Bracket to outside of frame. Insert long Hex Bolt through Support Bracket, frame and tow hook if equipped

10mm x 35mm Hex Bolt
(2) 10mm Flat Washers
10mm Lock Washer
10mm Hex Nut



(Fig 16) Attach Support Bracket to bottom hole in Bumper mounting plate on back of Bumper

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

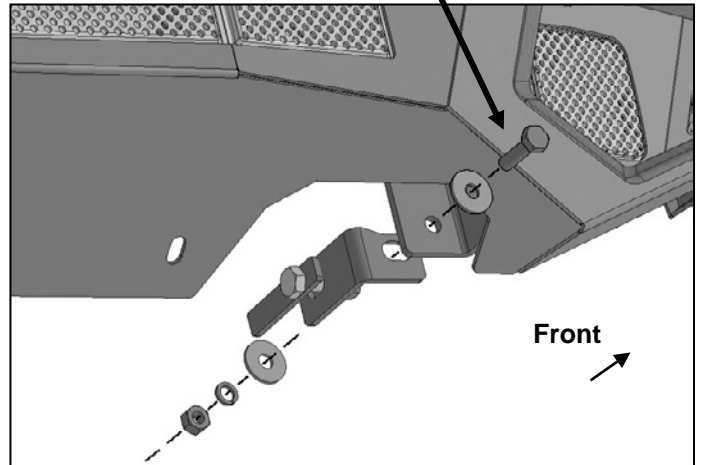


12mm Bolt Plate
12mm Flat Washer
12mm Lock Washer
12mm Hex Nut

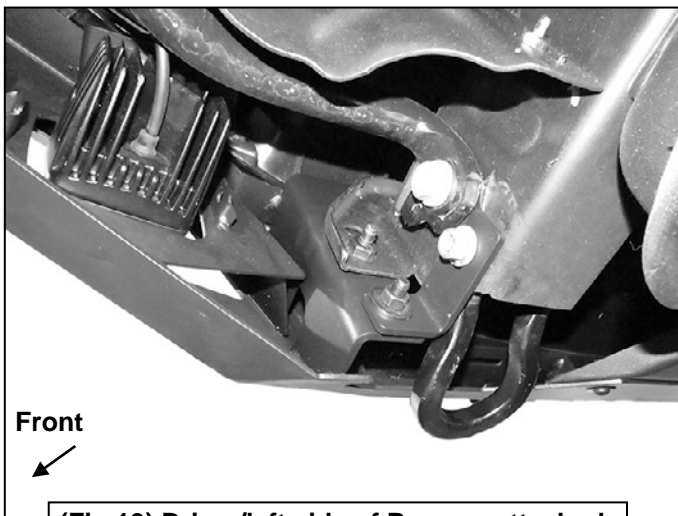
(Fig 17) Models w/o tow hooks, insert Bolt Plate into open end of frame and out forward hole in side of frame



- 10mm x 35mm Hex Bolt
- (2) 10mm Flat Washers
- 10mm Lock Washer
- 10mm Hex Nut

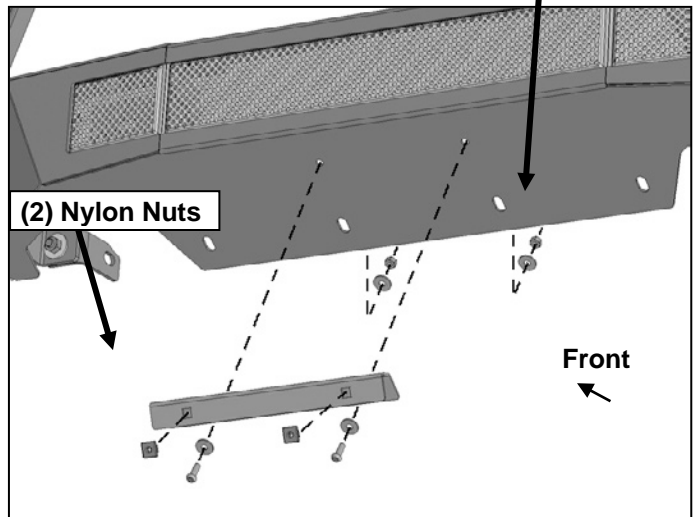


(Fig 18) Attach Support Bracket to bottom hole in Bumper mounting plate on back of Bumper



(Fig 19) Driver/left side of Bumper attached. Model with tow hooks pictured from below

- (2) 6mm x 20mm Button Head Screws
- (4) 6mm Flat Washers
- (2) 6mm Nylon Lock Nuts



(Fig 20) Attach License Plate Bracket to Bumper

