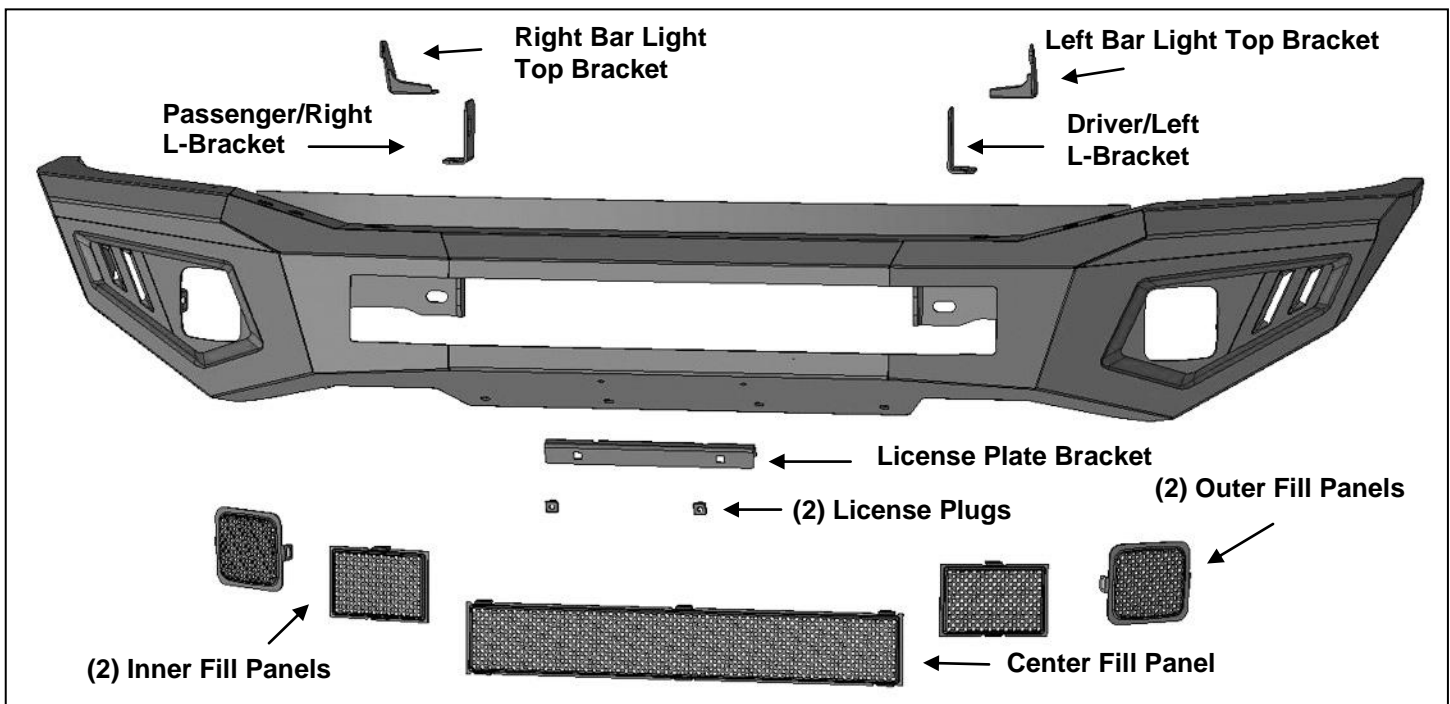


PARTS LIST:

1	LD2 Front Bumper	2	8-1.25mm x 16mm Hex Bolts
1	Long Center Mesh Plate	14	8mm x 24mm x 2mm Flat Washers
2	Short Inner Mesh Plates	8	8mm Lock Washers
2	Small Outer Mesh Plates	6	8mm Hex Nuts
1	Driver/Left Bumper Top Light Mount	14	6-1.0mm x 20mm Combo Bolts
1	Passenger/Right Bumper Top Light Mount	2	6-1.0mm x 20mm Button Head Bolts
1	Driver/left "L" Bracket (center LED light)	2	6-1.0mm x 16mm Hex Bolts
1	Passenger/right "L" Bracket (center LED light)	6	6mm x 18mm x 1.6mm Flat Washers
1	License Plate Bracket	2	6mm Lock Washers
2	License Plate Plugs	14	6mm Flange Nuts
4	8-1.25mm x 25mm Button Head Bolts	2	6mm Nylon Lock Nuts
2	8-1.25mm x 25mm Hex Bolts	1	5mm Hex Wrench
		1	4mm Hex Wrench



PROCEDURE:

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

1. Move to the front of the vehicle. Remove the license plate. If the vehicle is equipped with tow hooks, remove the plastic covers and the tow hooks, **(Figures 1 & 2)**.
2. Unplug the center wire harness located in the hole in the bumper under the license plate on the right side, if equipped, **(Figure 3)**. Remove the center plastic cover from the front of the bumper, **(Figures 4 & 5)**. Release the wiring harness from the clips attached to the back of the plastic cover. Remove the center wiring harness from the plastic cover. Models with adaptive cruise control sensor, unplug and remove sensor to access bumper hardware.
3. Place blocks or jack stands under the front bumper to support it during hex nut removal. Once the bumper has been safely supported remove the large factory hex nuts from the front of the bumper bracket attaching the bumper to the frame, **(Figure 6)**. **WARNING!** Assistance is required to hold the bumper in place during hardware removal to prevent the bumper from falling. With assistance, hold the

bumper in position, unplug the outer wiring harness located underneath the Driver/Left headlight, **(Figure 7)**.

4. Remove bumper and place on a stable, clean surface.
5. Carefully unwrap the LD2 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 8)**.
- b. Attach Screen Fill Panels as needed with the included 6mm Button Head Combo Bolts and 6mm Flange Nuts, **(Figure 8)**. 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 9)**. 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 9 & 10)**. Do not fully tighten hardware at this time.

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

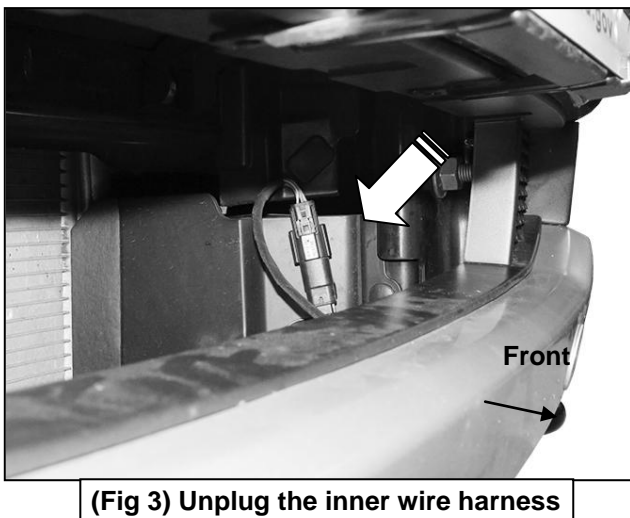
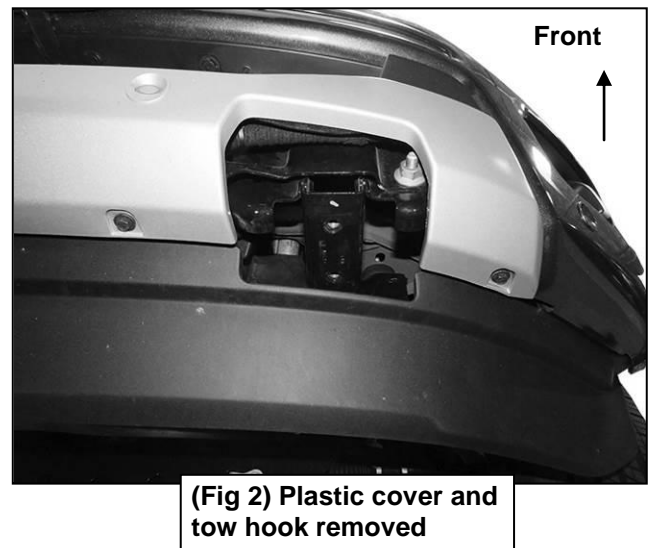
- a. Remove the (2) rubber plugs from the driver/left side mounting holes, **(Figure 11)**.
- b. Select the driver/left Light Bracket. Attach the Bracket to the top of the Bumper with (2) 8mm x 25mm Button Head Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 11)**. Do 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 12)**. 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 8)**.
6. Models with adaptive cruise control sensor, refer to Relocation Bracket instructions (available separately) to reinstall wiring harness and sensor if desired.
7. Locate the front frame mounting locations, **(Figure 13)**. With assistance, slide the bumper over the factory bolt plates, **(Figure 14)**. 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.
8. Reuse the (3) factory hex nuts per side to attach the Bumper to the vehicle, **(Figures 14 & 15)**. Do not fully tighten hardware.
9. Level and adjust the Bumper and fully tighten all hardware.
10. Attach the License Plate Bracket to the holes in the bumper with the included (2) 6mm x 20mm Button Head Bolts, (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 16)**.
11. 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/left Side Installation Pictured



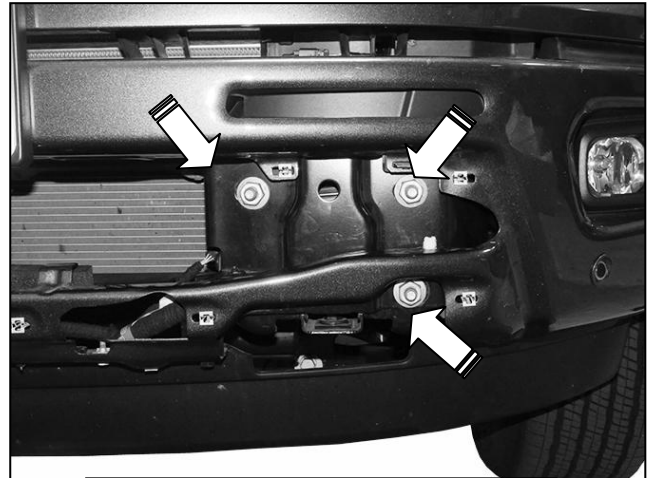
Driver/left Side Installation Pictured



(Fig 5) Center plastic cover removed

Models with adaptive cruise control sensor, remove sensor from bumper (Fig 6). Refer to Relocation Bracket instructions (available separately) to move sensor to back of grille

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

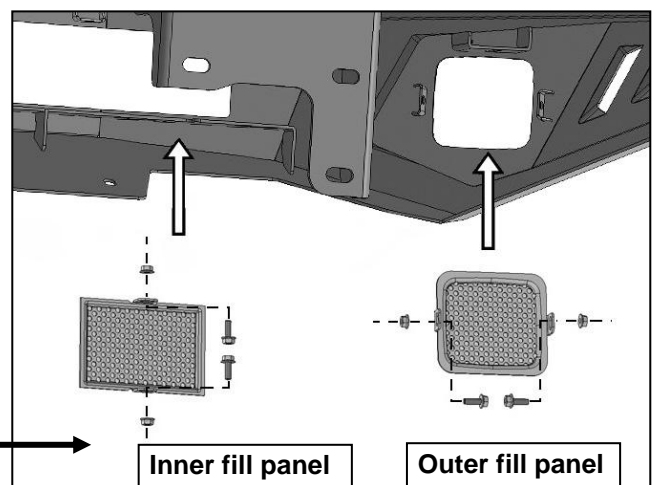


(Fig 6) Remove the nuts attaching the bumper to the frame



(Fig 7) Pull the bumper out slightly and unplug the outer wire harness

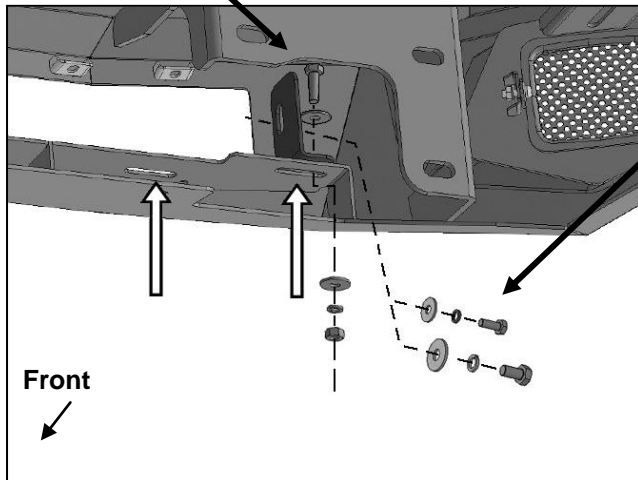
6mm Button Head Combo Bolts
6mm Flange Hex Nuts



(Fig 8) Attach Mesh Fill Panels as desired to fill unused openings for lights (lights not included). Passenger/right side illustrated

Passenger/right Side Installation Pictured

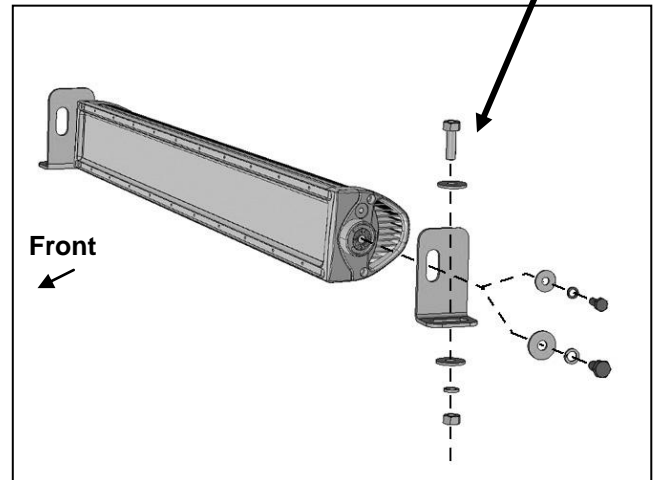
8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut



(Fig 9) Note multiple slots for different widths of lights (arrows)

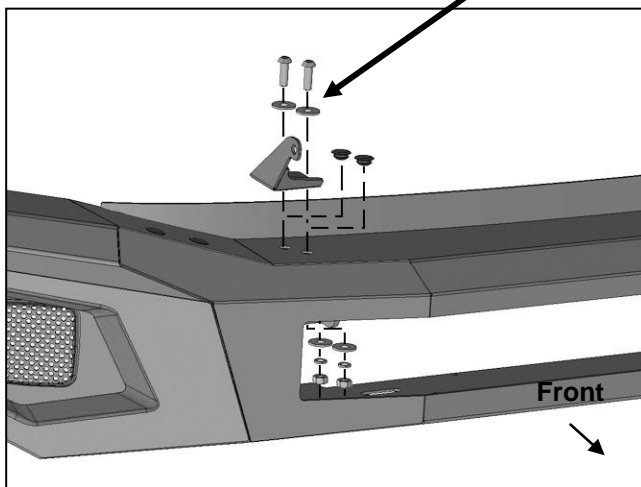
6mm x 16mm Hex Bolt
6mm Lock Washer
6mm Flat Washer
Or
8mm x 16mm Hex Bolt
8mm Lock Washer
8mm Flat Washer

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



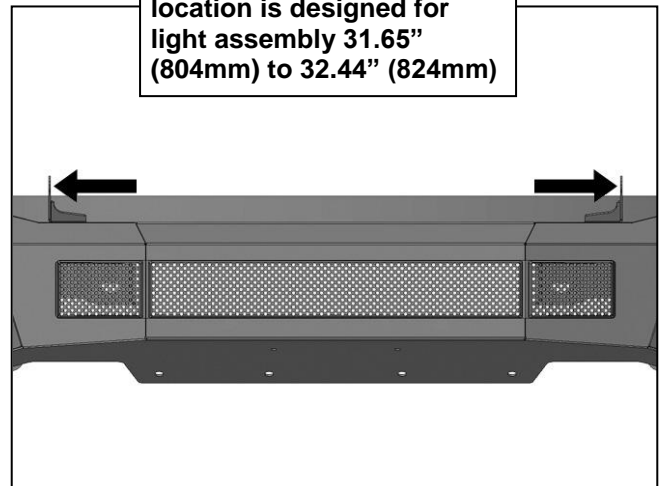
(Fig 10) Bracket illustration is a suggestion only. Brackets are offset to allow adjustment for all widths of lights

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



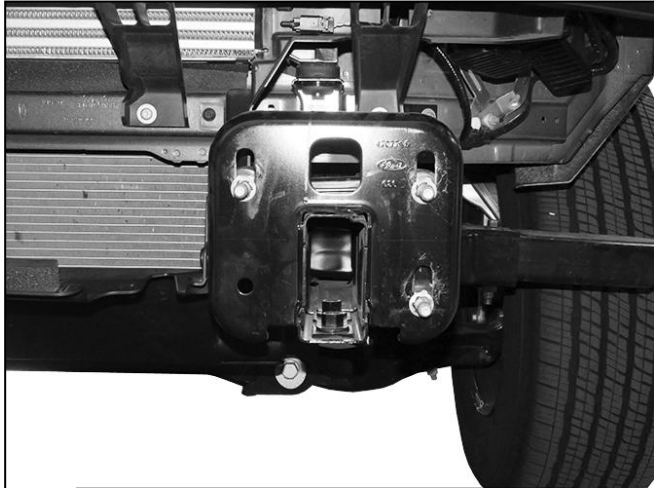
(Fig 11) Remove rubber plugs to attach Top Light Bracket to Bumper

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



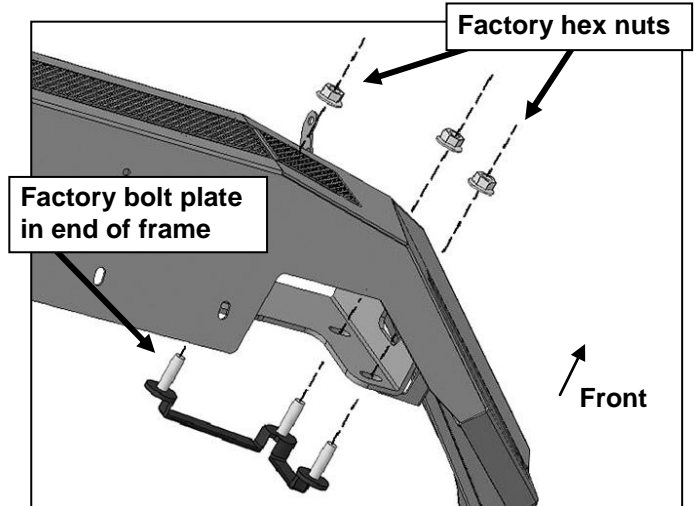
(Fig 12) Measure width of LED light (light only) before installation of Top Light Brackets

Driver/left Side Installation Pictured



(Fig 13) Driver/Left mounting location

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

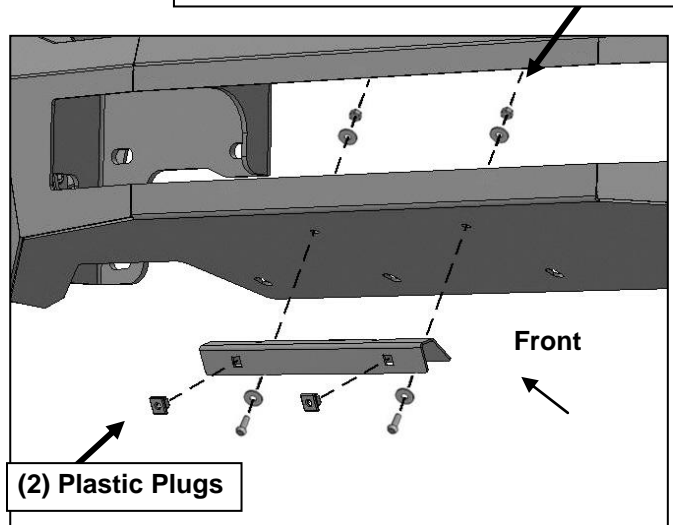


(Fig 14) Attach bumper to the mounting locations



(Fig 15) Driver/left side of Bumper installed

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



(Fig 16) Attach License Plate Bracket to Front Bumper



Complete Installation