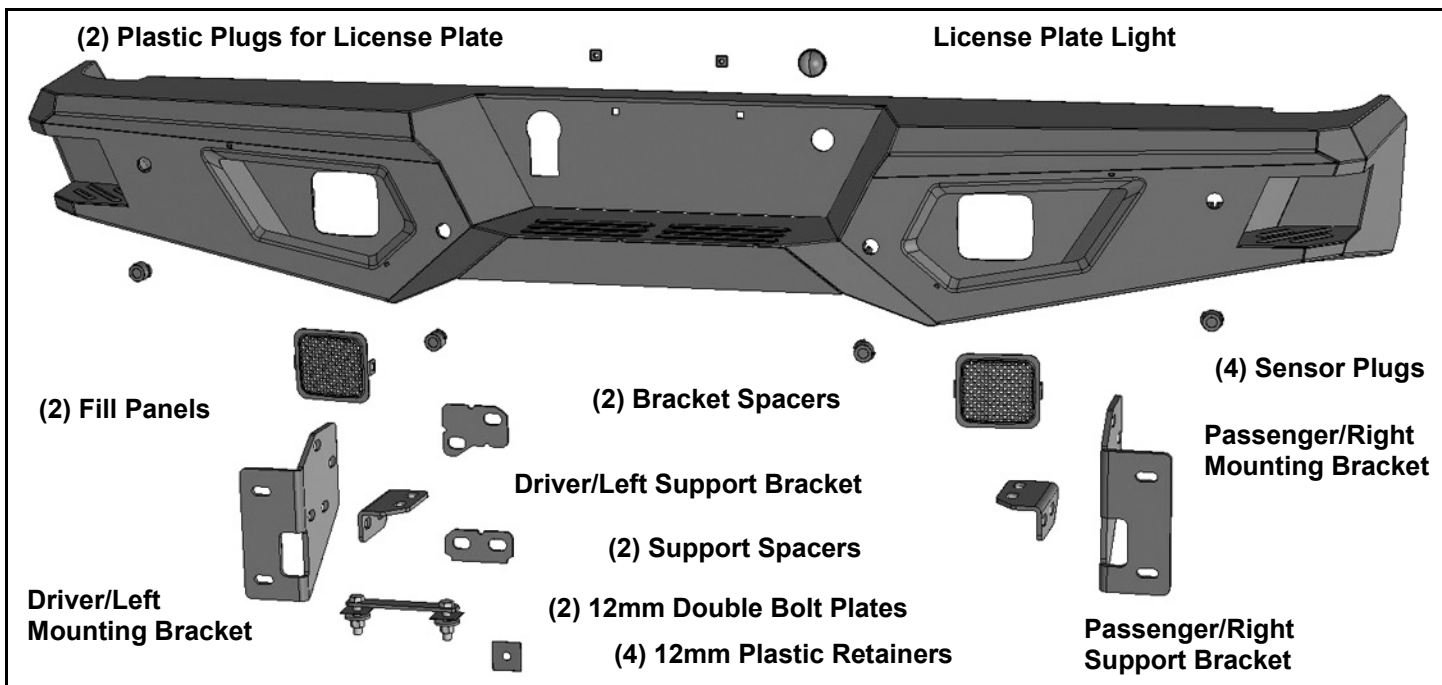


PARTS LIST:

1	LD2 Rear Bumper Assembly	24	14mm x 28mm x 2.5mm Flat Washers
2	Mesh Fill Panels	12	14mm Lock Washers
1	Driver/Left Mounting Bracket	12	14mm Fine Thread Hex Nuts
1	Passenger/Right Mounting Bracket	2	12mm-1.75mm x 45mm Double Bolt Plate
1	Driver/Left Support Bracket	4	12mm Plastic Retainer
1	Passenger/Right Support Bracket	4	12mm x 37mm x 3mm Flat Washers
2	Mounting Bracket Spacers	4	12mm Lock Washers
2	Support Bracket Spacers	4	12mm Hex Nuts
1	License Plate Light	4	6mm x 20mm Button head Combo Bolts
2	Plastic Plugs for license plate mount	4	6mm Flange Hex Nuts
4	Sensor Plugs	8	4mm x 10mm Button Head Bolts
10	Wire Ties	1	4mm Wrench
12	14-1.5mm x 60mm Fine Thread Hex Bolts	1	2.5mm Wrench



PROCEDURE:

REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. ASSISTANCE IS RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE. INSTALLATION WILL INTERFERE WITH BLIND SPOT ALERT AND REAR CROSS TRAFFIC ALERT SYSTEMS.

1. Locate BSM button next to the steering wheel to turn off the Blind-Spot Monitor (BSM) and Rear Cross Traffic Alert (RCTA) Systems, (if equipped). Next, unplug the wire harnesses from the (2) monitor sensors located on the ends of the Rear Bumper. **NOTE:** The BSM and RCTA systems will not work with Bumper installation, monitor sensors cannot be reinstalled with Bumper.
2. Remove the license plate from the bumper, (Figure 1). Next, unplug all wiring harnesses leading to the rear bumper. Move all wiring harnesses away from bumper.
3. **Determine if vehicle is equipped with factory receiver hitch:**
Models with Factory Receiver Hitch (bumper and hitch can be removed together or bumper must be disassembled to remove from hitch)
 - a. Place blocks or jack stands under the receiver hitch to support it during mounting bolt removal. Once the bumper has been safely supported, remove the factory hardware attaching the bumper brackets to the sides of the frame and remove the assembly, (Figures 2 & 7). **IMPORTANT:** Bumper and hitch are very heavy; assistance is highly recommended.

- i. **OPTION-** Remove the plastic screw from under the license plate (**Figure 3**).
 - ii. Use a flat blade screwdriver to pry the plastic cover up and off of the top of the bumper, (**Figure 4**).
 - iii. Release the clips and factory hardware from the bottom of the bumper to remove the plastic cover, (**Figure 5**).
 - iv. Remove the hardware attaching the bumper to the top and bottom of the receiver hitch and remove the bumper, (**Figure 6**). **NOTE:** Leave hitch attached to vehicle.
- b. Select the driver/left Mounting Bracket, (**Figure 8**). Reuse the (4) factory bolts to attach the Bracket to the outside of the receiver hitch, (**Figure 9**). Snug but do not fully tighten at this time. Repeat this **Step** to attach the passenger/tight Mounting Bracket.

Models without Factory Receiver Hitch

- a. Place blocks or jack stands under the bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the factory hardware attaching the bumper brackets to the outside of the frame and remove the bumper assembly, (**Figure 2**).
 - b. Select the driver/left Support Bracket, (**Figure 10**). Attach the Bracket to the bottom of the frame with (2) 14mm Hex Bolts, (4) 14mm Flat Washers, (2) 14mm Lock Washers, and (2) 14mm Hex Nuts.
 - c. Next, select the driver/left Mounting Bracket, (1) Mounting Bracket Spacer and (1) Support Bracket Spacer, (**Figure 11**). With the Spacers between the Brackets and the frame, attach the Bracket to the outside of the frame and Support Bracket with (4) 14mm Hex Bolts, (8) 14mm Flat Washers, (4) 14mm Lock Washers, and (4) 14mm Hex Nuts (**Figure 12**). Snug but do not fully tighten at this time.
 - d. Repeat previous **Steps** for passenger/right Mounting and Support Bracket installation.
4. **Carefully unwrap the Bumper. Determine if the factory bumper was equipped with back up sensors.**

Models without bumper mounted sensors:

- a. Push (1) Sensor Plug into the sleeve on the back of the Bumper, (**Figure 13**).
- b. Secure the Plug to the sleeve with (2) 4mm Button Head Screws, (**Figure 13**).
- c. Repeat to install remaining Plugs.

Models with bumper mounted back up sensors:

- a. Disassemble factory bumper to remove wiring harness and parking sensors.
 - b. Push (1) sensor into the mounting sleeve on the back of the bumper, (**Figure 13**). Secure the sensor to the sleeve with (2) 4mm Button Head Screws, (**Figure 13**). **IMPORTANT:** Sensors fit snug in sockets. The 4mm Screws are used to apply slight pressure to lock the sensors in place. Tighten both screws evenly until they touch the sensor body only. Do not overtighten screws or damage to sensors will result.
 - c. Repeat previous Steps to install remaining parking sensors.
 - d. Reattach the factory wiring harness to sensors.
 - e. Use the included Wire Ties to secure the wiring harness to bumper as necessary.
5. **Determine if accessory lights, (not included), or Mesh Fill Panels will be installed.**

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

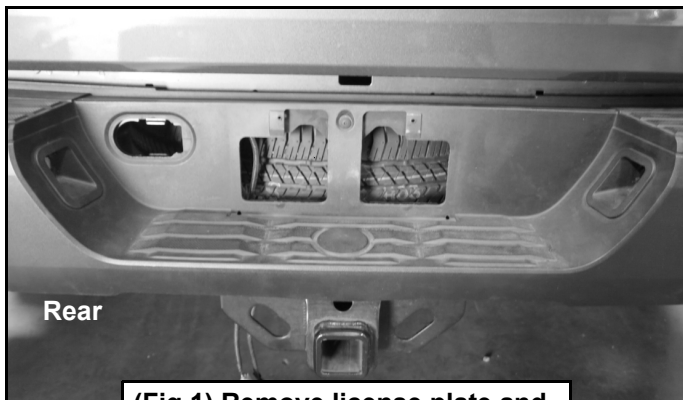
- a. Select (1) Fill Panel, (**Figure 14**).
- b. Attach the Panel to the mounting tabs on back of Bumper with the included (2) 6mm Combo Bolts and (2) 6mm Flange Nuts, (**Figure 14**).
- c. Repeat to install remaining Fill Panel.
- d. Fully tighten Fill Panel hardware at this time.

LED cube style light installation (light not included). Check fit of Bumper and lights before continuing with installation, (**Figure 14**).

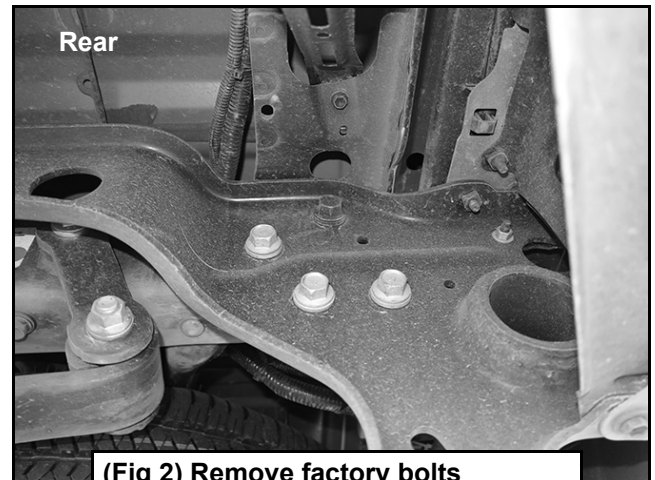
- a. Attach lights to mounting tabs on back of each end of the Bumper.
6. Select (1) 12mm Double Bolt Plate and (2) 12mm Plastic Retainers, (**Figure 15**). Insert the Bolt Plate up and through the mounting plate on the back of the driver/left side of the Bumper, (**Figures 15 & 16**). Thread the Plastic Retainers onto the Bolt Plate until tight. **NOTE:** The Plastic Retainers are designed to hold the Double Bolt Plate in place during installation, use is optional.

7. With assistance, position the Bumper Assembly up to the Mounting 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.
8. Attach the Bumper to the Mounting Brackets with the included (4) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, **(Figures 17 & 18)**. Do not fully tighten hardware at this time.
9. Level and adjust the Bumper and fully tighten all hardware.
10. Reinstall the trailer plug, **(Figures 19 & 20)**. **NOTE:** Use a flat blade screwdriver to carefully pry the metal clip on the plug out to grab the edge of the opening if necessary.
11. Use the included (2) License Plate Plugs to attach the rear license plate to the (2) holes in the Bumper, **(Figures 19 & 20)**. Insert the License Plate Light into the hole in the bumper, **(Figure 20)**. Attach the License Plate Light wire to the end of the factory license plate light wire harness.
12. Attach the wiring harness to the trailer plug.
13. 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.

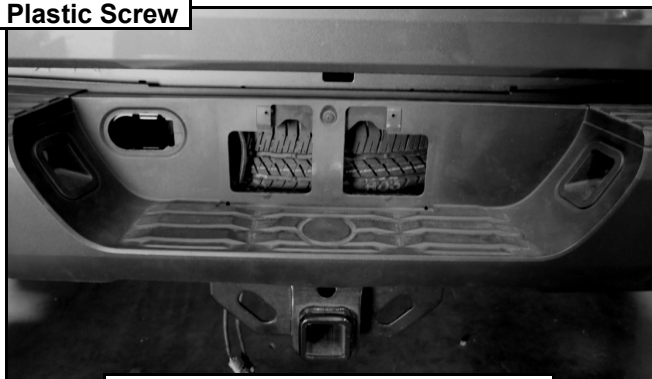


(Fig 1) Remove license plate and 7-wire trailer plug if equipped



(Fig 2) Remove factory bolts attaching bumper assembly to frame

Plastic Screw



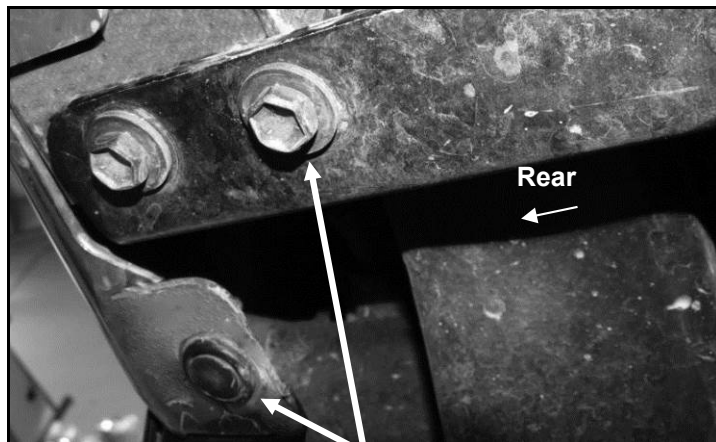
(Fig 3-Optional) Remove plastic screw under the license plate.



(Fig 4-Optional) Use a flat blade screwdriver to pry the plastic cover from the top of the bumper to disassemble bumper from hitch

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

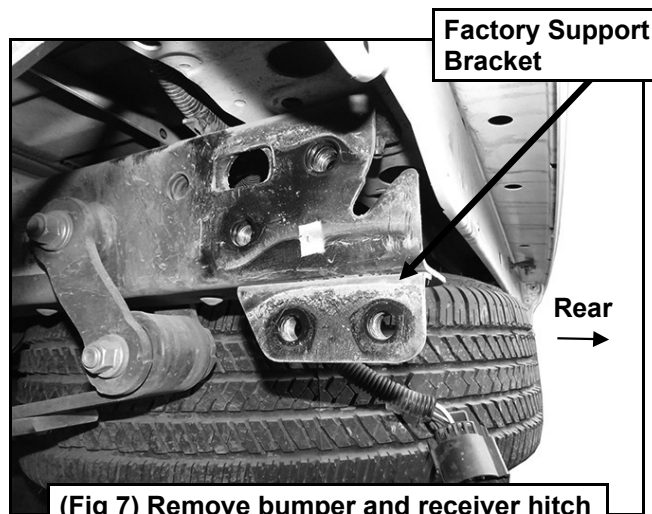
Note: Fig 6 only shows some factory hardware that must be removed. Additional factory hardware may need to be removed to remove the bumper



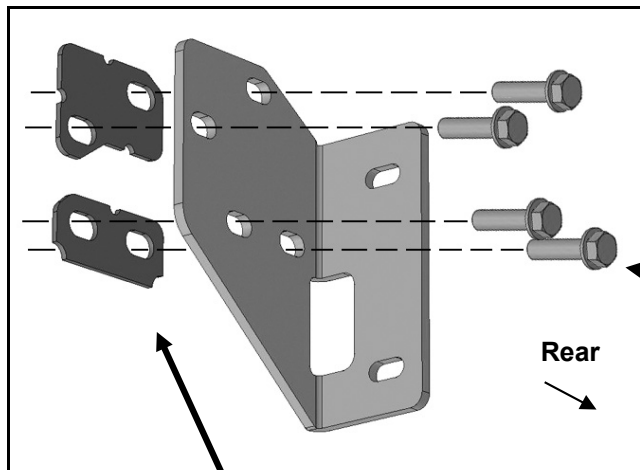
(Fig 5-Optional) Remove Factory Hardware and Plastic Clip from the bottom of the bumper



(Fig 6) Remove factory hardware under the plastic cover attaching bumper to top and bottom of hitch

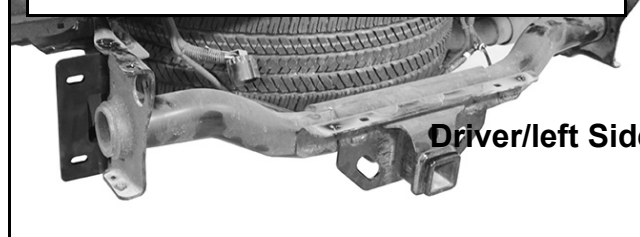


(Fig 7) Remove bumper and receiver hitch



(Fig 8) Reuse factory hex bolts to attach Top and Bottom Spacers, driver/left Bumper Bracket and hitch to side of frame

Models with receiver hitch reuse factory hardware

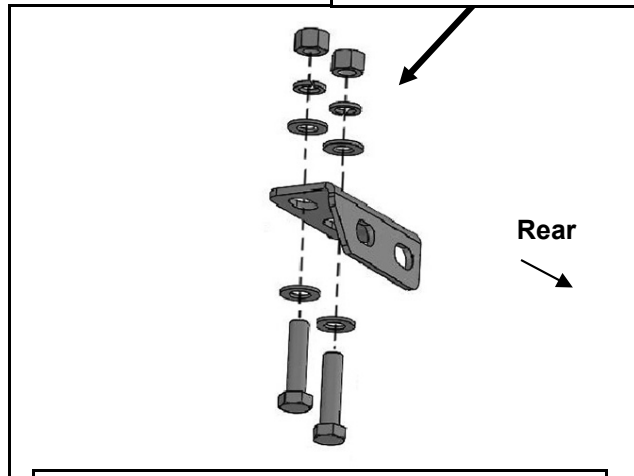


Driver/left Side Installation Pictured

(Fig 9) Reuse factory hardware to attach driver/left Bumper Bracket and hitch to side of frame

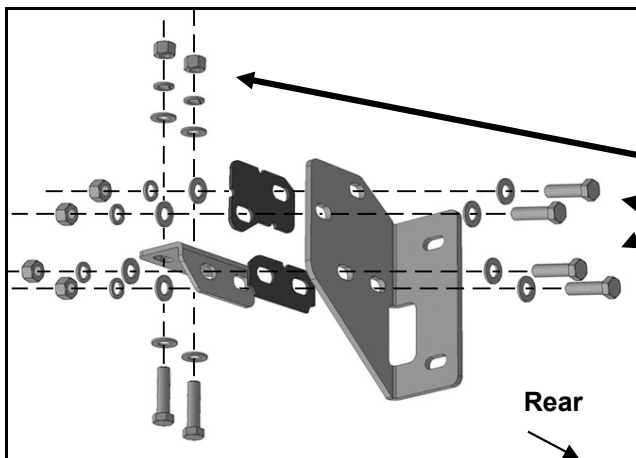
Factory Hardware or
(2) 14mm Hex Bolts
(4) 14mm Flat Washers
(2) 14mm Lock Washers
(2) 14mm Hex Nuts

Rear

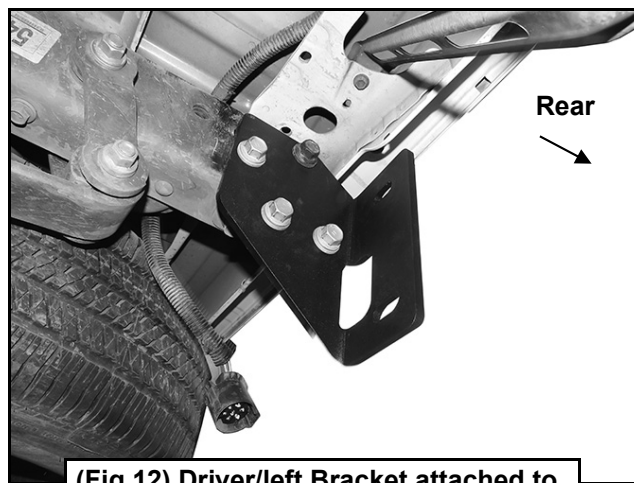


(Fig 10) Models without receiver hitch,
attach driver/left Support Bracket to frame

(2) 14mm Hex Bolts
(4) 14mm Flat Washers
(2) 14mm Lock Washers
(2) 14mm Hex Nuts



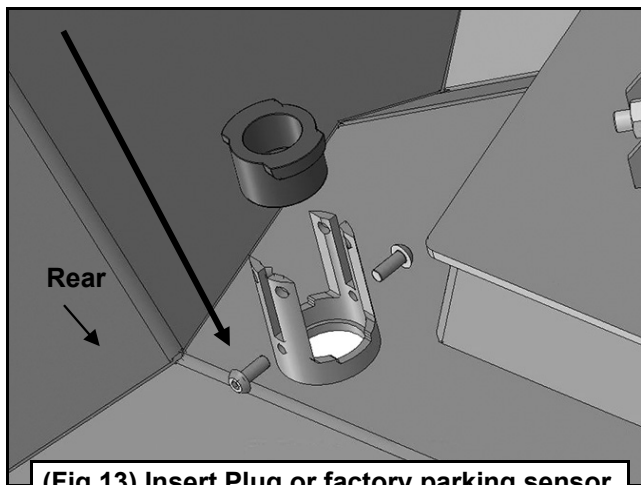
(Fig 11) Models without hitch, attach Driver/left
Mounting Bracket with Top and Bottom
Spacers to side of frame and Support Bracket



(Fig 12) Driver/left Bracket attached to
side of frame (without receiver hitch)

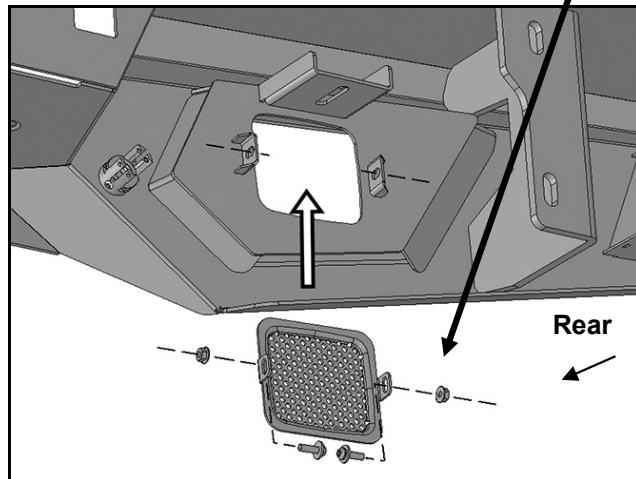
(2) 4mm Screws

Driver/left Side Installation Pictured



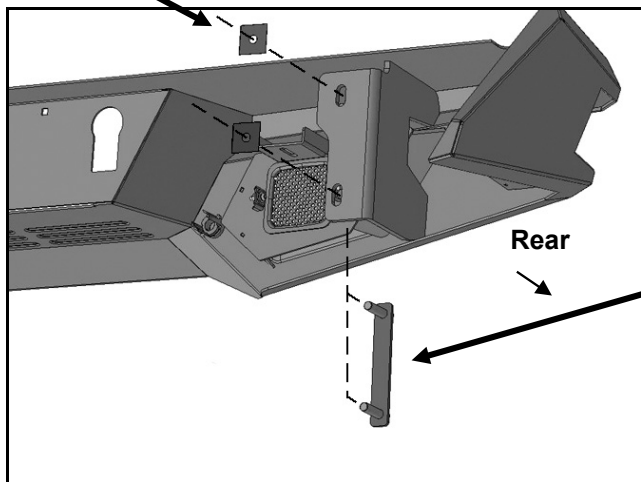
(Fig 13) Insert Plug or factory parking sensor into mount on back of Bumper. Use the included 4mm Screws to lock in place

(2) 6mm Button Head Combo Bolts
(2) 6mm Flange Nuts



(Fig 14) Install Fill Panels if lights (not included) will not be installed

(2) 12mm Plastic Retainers

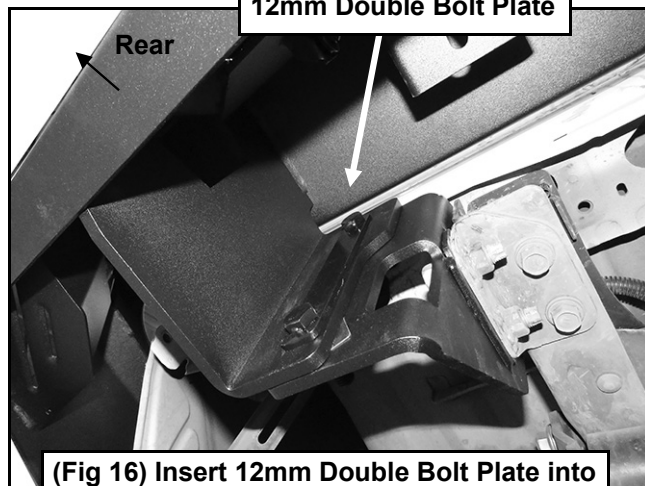


(Fig 15) Insert 12mm Double Bolt Plate into mount on back of Bumper. Thread Plastic Retainers onto Bolt Plate to hold in place

12mm Double Bolt Plate

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

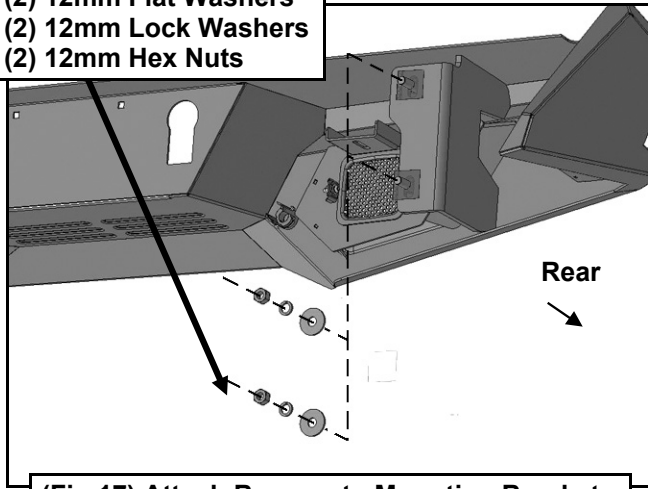
12mm Double Bolt Plate



(Fig 16) Insert 12mm Double Bolt Plate into mount on back of Bumper. Thread Plastic Retainers onto Bolt Plate to hold in place

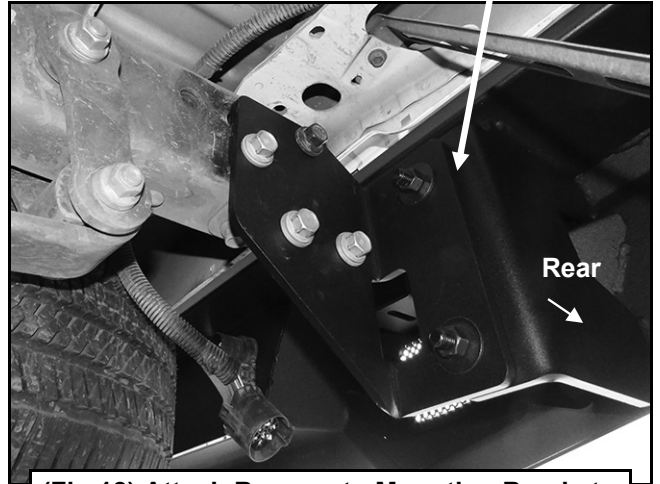
Driver/left Side Installation Pictured

- (2) 12mm Flat Washers
- (2) 12mm Lock Washers
- (2) 12mm Hex Nuts

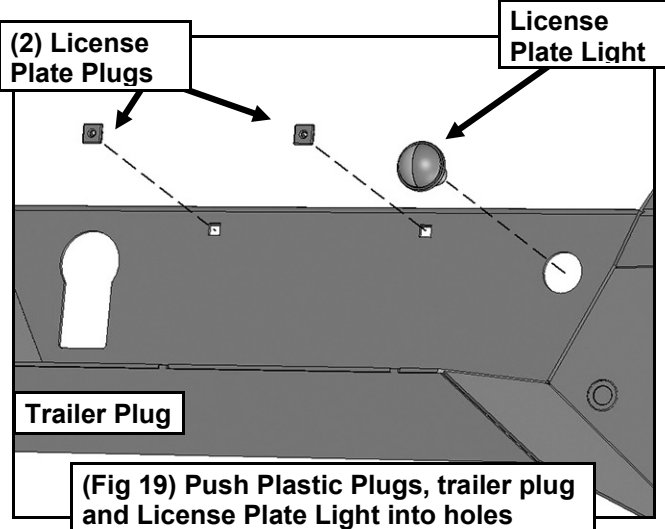


(Fig 17) Attach Bumper to Mounting Brackets

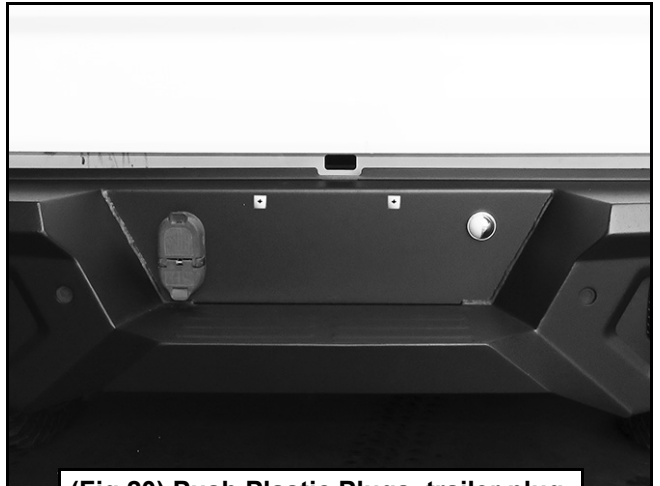
- (2) 12mm Flat Washers
- (2) 12mm Lock Washers
- (2) 12mm Hex Nuts



(Fig 18) Attach Bumper to Mounting Brackets



(Fig 19) Push Plastic Plugs, trailer plug and License Plate Light into holes



(Fig 20) Push Plastic Plugs, trailer plug and License Plate Light into holes

