



TEL: 1-866-XANATOS

INSTALLATION INSTRUCTIONS

LD1 FRONT BUMPER

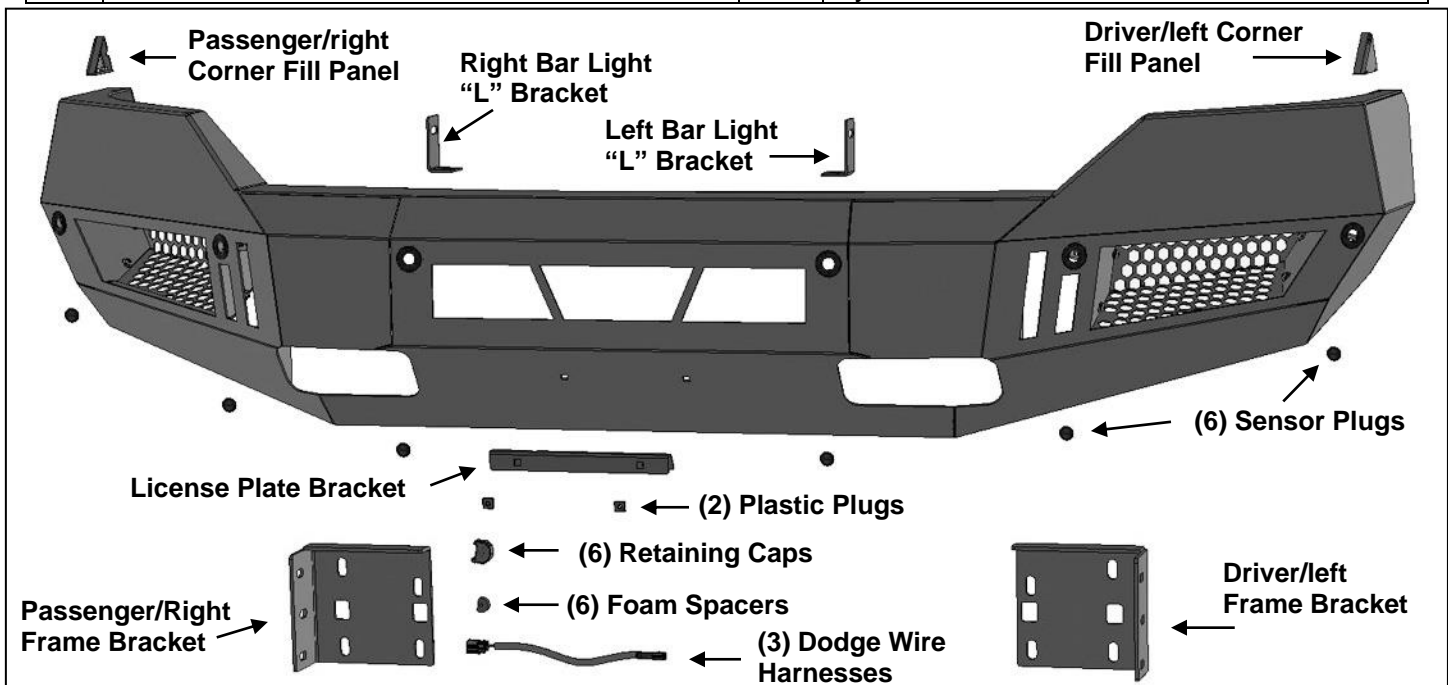
2013-18 RAM 1500 (INCLUDES 2019-24 "CLASSIC" MODEL)

PART#AFB-RA13

LD1 FRONT BUMPER
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PARTS LIST:

1	LD1 Front Bumper Assembly	6	12mm Hex Nuts
1	Driver/left Frame Mounting Bracket	8	10-1.5mm x 35mm Hex Bolts
1	Passenger/right Frame Mounting Bracket	16	10mm x 27mm x 3mm Flat Washers
1	Driver/left Top Corner Filler Panel	8	10mm Lock Washers
1	Passenger/right Top Corner Filler Panel	8	10mm Hex Nuts
1	Driver/left "L" Bracket (center LED light)	2	8-1.25mm x 25mm Hex Bolts
1	Passenger/right "L" Bracket (center LED light)	2	8-1.25mm x 16mm Hex Bolts
1	License Plate Bracket	6	8mm x 24mm x 2mm Flat Washers
2	Plastic Plugs for license plate mount	4	8mm Lock Washers
6	Sensor Retaining Caps	2	8mm Hex Nuts
6	20mm x 10mm Foam Spacers	6	6mm x 20mm Button Head Bolts
6	15.5mm x 25mm Foam Washers (Discard)	4	6mm x 18mm x 1.6mm Flat Washers
3	Dodge Wire Harnesses	4	6mm x 12mm x 1.6mm Flat Washers
6	Plastic Sensor Hole Plugs	4	6mm Lock Washers
1	Sensor Cover Kit	2	6mm Nylon Lock Nuts
6	12-1.75mm x 35mm Hex Bolts	1	6mm Wrench
12	12mm x 32mm x 3mm Flat Washers	12	4mm Self Tapping Screws
6	12mm Lock Washers	10	Nylon Wire Ties



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. NOTE: ACCESS TO TOW HOOKS WILL BE LIMITED AFFECTING USABILITY.

1. Remove the license plate and bracket. Remove lower air dam, (**Figure 1**). **NOTE:** Air dam is attached with many 2pc retaining clips. Pry up center of pin to release and remove clips.
2. On models with factory fog lights and/or sensors, unplug wiring harness leading to front bumper, (**Figure 2**). Release the harness from the clips and move harness out of way.

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3. Next, remove the plastic fascia fill panel between the headlights and the top of the bumper.
NOTE: Release inner fender liner to access hardware attaching the ends of fascia panel to the bottom of the front fenders, **(Figures 3 & 4)**. On some model years, it may be necessary to temporarily remove the grille to remove the fascia or 1pc plastic bumper cover.
4. Place blocks or jack stands under the bumper to support it during mounting bolt removal. Once the bumper has been safely supported, remove the (3) hex nuts attaching each bumper bracket to the end of the frame, **(Figure 5)**. **WARNING!** Assistance is required to hold bumper in place during hardware removal to prevent the bumper from falling. Slide the bumper assembly off of the end of the frame.
5. Next, remove the plastic inner support blocks from the bottom of the headlights, **(Figure 6)**.
6. Select the driver/left side Frame Mounting Bracket, **(Figure 7)**. **NOTE:** Holes in mounting flange on end of frame are two sizes (3-large, 1-small). Attach the Bracket to the end of the frame with (3) 12mm x 35mm Hex Bolts, (6) 12mm Flat Washers, (3) 12mm Lock Washers and (3) 12mm Hex Nuts. Use (1) 10mm x 35mm Hex Bolt, (2) 10mm Flat Washers, (1) 10mm Lock Washer and (1) 10mm Hex Nut to attach the Bracket to the smaller, top inner mounting hole in the bumper flange, **(Figures 7 & 8)**. Repeat this **Step** to install the passenger/right Frame Bracket.
7. Determine if the vehicle is equipped with front parking sensors. **NOTE:** Sensors and wiring harness must be installed in LD1 Bumper before installing Bumper Assembly.

Models without front sensors:

- a. From the front of the bumper, push the included Plastic Plugs into sensor mounts, **(Figure 9)**.

Models with bumper mounted sensors:

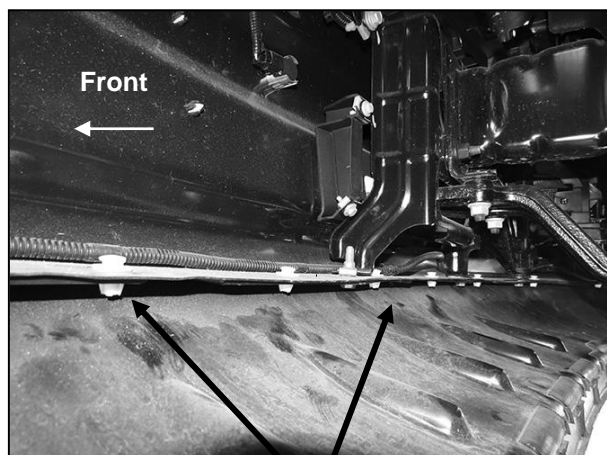
- a. Remove sensors and wiring harness from back of OE Bumper.
 - b. Test fit sensor into sensor mount on LD1 Bumper. Trim off the plastic tabs on the sensor if necessary to fit snug inside of the sensor mount.
 - c. Push the sensor in from the back of the Bumper until it is flush with the sensor mount and Bumper face. Push (1) Foam Spacer and snap (1) Retaining Cap onto sensor and mount to secure the sensor in place, **(Figure 10)**.
 - d. Repeat previous **Steps** for all remaining sensors.
 - e. Starting on the driver/left side, run the OE sensor wire harness through the bumper cutouts. Connect the sensors to the OE sensor wire harness.
 - f. Use the provided wire harness extensions to connect the sensors to the OE sensor wire harness as needed, **(Figure 11)**.
 - g. Use the provided Wire Ties to secure the Wiring Harnesses to the back of the Bumper.
8. **Center LED light installation** (not included).
- a. Select the L/R "L" Brackets, **(Figure 12)**. Attach the Brackets to the top of the (2) mounting tabs welded onto 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. 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 12)**. Do not fully tighten hardware at this time. **IMPORTANT:** "L" Brackets are designed for 8mm light mounting hardware only. Modify "L" Brackets if necessary or use brackets supplied by your light manufacturer, if possible, to install hardware larger than 8mm.
 - c. Follow light manufacturer's instructions to properly wire light once bumper has been installed.

LED light installation at ends of bumper (not included).

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- a. Insert light into opening and up to mounting slots. Check for clearance between front and back of light. If necessary, remove screen from back of opening, **(Figure 13)**.
 - b. Follow the light manufacturer's instructions to attach (1) light to the center slot or (2) lights to the inner and outer slots in the top of the light opening, **(Figure 16)**.
IMPORTANT: On two light systems, attach the flood light to the outer slot and the spot light to the inner slot.
 - c. Repeat the above **Steps** for passenger/right side light installation.
 - d. Follow light manufacturer's instructions to properly wire light once bumper has been installed.
9. With assistance, position the LD1 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.
 10. Attach the mounting tab on the back of the driver/left side of the Bumper to the Frame Bracket with (3) 10mm x 35mm Hex Bolts, (6) 10mm Flat Washers, (3) 10mm Lock Washers and (3) 10mm Hex Nuts, **(Figures 14 & 15)**. Do not fully tighten at this time. Repeat this **Step** to attach the passenger/right side of the Bumper to the Frame Bracket.
 11. Select the driver/left triangle shaped Top Corner Fill Panel, **(Figure 16)**. Attach the Panel to the top of the bumper with (2) 6mm x 20mm Button Head Bolts, (2) 6mm Lock Washers and (2) 6mm x 12mm Small Flat Washers, **(Figure 17)**. **NOTE:** The driver and passenger side Top Corner Fill Panels look similar but are unique. The side of the triangle with the small notch, **(Figure 16)**, will go toward the rear, (toward the fender). Repeat to install the passenger/right Top Corner Fill Panel.
 12. Level and adjust the Bumper and fully tighten all hardware.
 13. 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 x 18mm Large 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 18)**.
 14. 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) Release clips (arrow) to remove air dam (pictured from behind bumper-tow hook equipped)



(Fig 2) Unplug lights and sensors if equipped. Unplug harness to bumper and move harness

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Driver/left Side Installation Pictured

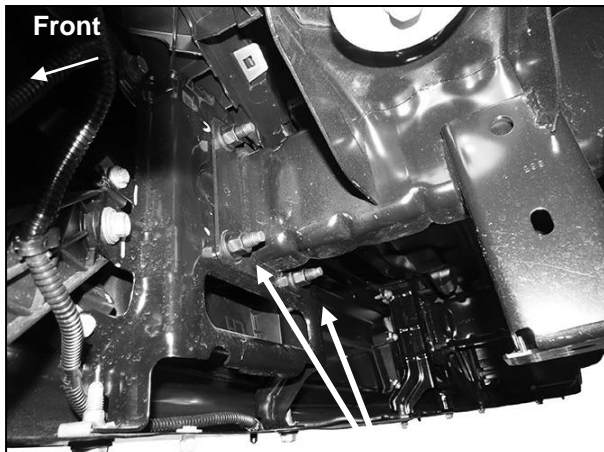


(Fig 3) Pull back fender liner to locate fascia attachment at bottom of front fender

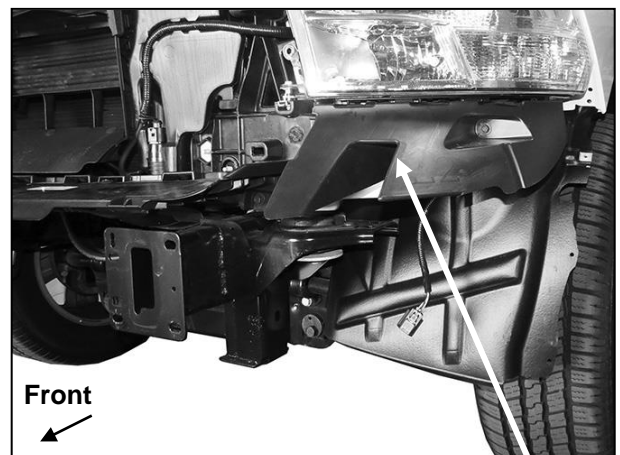
WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or it may fall.



(Fig 4) Remove fascia body panel from top of bumper



(Fig 5) Remove (3) factory hex nuts from each side

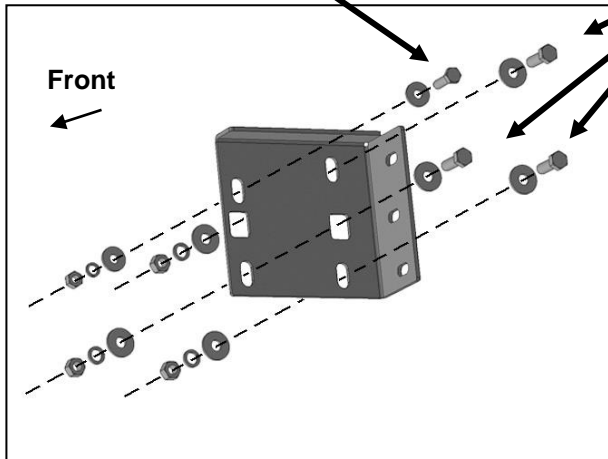


(Fig 6) Remove plastic block from below headlight

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Driver/left Side Installation Pictured

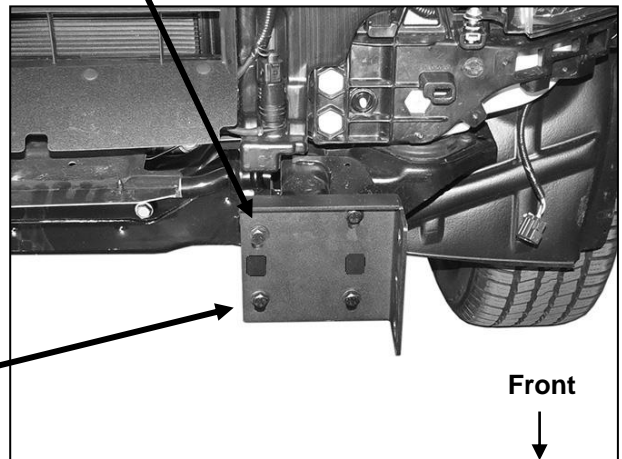
10mm x 35mm Hex Bolt
 (2) 10mm Flat Washers
 10mm Lock Washer
 10mm Hex Nut

(3) 12mm x 35mm Hex Bolts
 (6) 12mm Flat Washers
 (3) 12mm Lock Washers
 (3) 12mm Hex Nuts



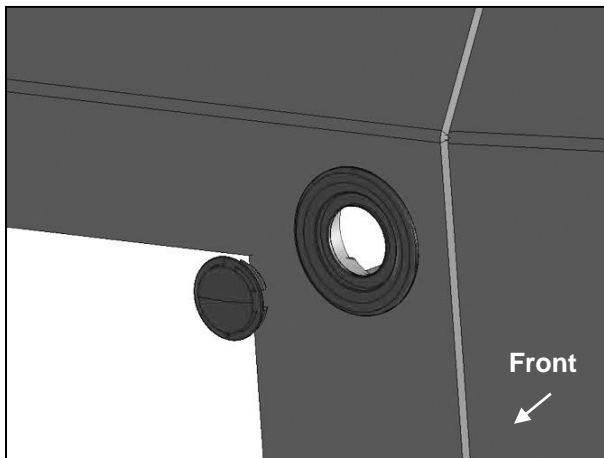
(Fig 7) Attach driver/left Bracket to end of frame

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

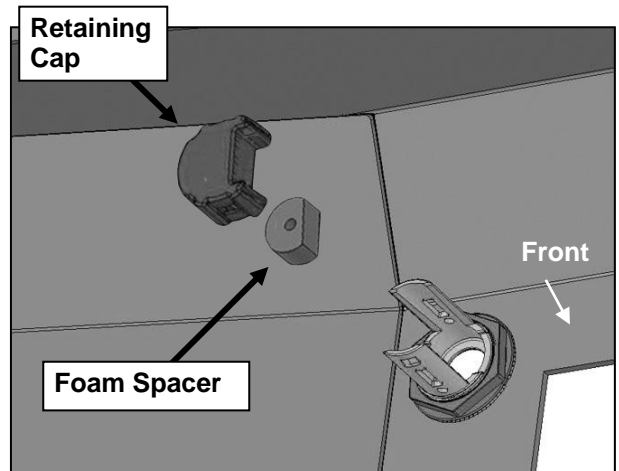


(Fig 8) Driver/left Mounting Bracket installed

(3) 12mm x 35mm Hex Bolts
 (6) 12mm Flat Washers
 (3) 12mm Lock Washers
 (3) 12mm Hex Nuts



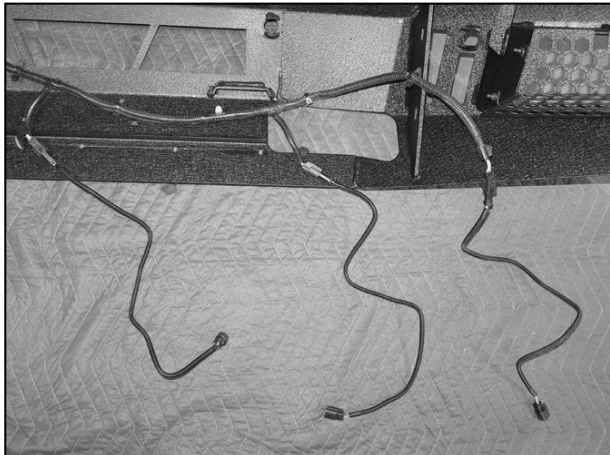
(Fig 9) Insert Plug into sensor mount



(Fig 10) Push sensor into sensor mount on back of Bumper. Place Spacer over sensor. Snap Cap onto Mount to lock sensor in place

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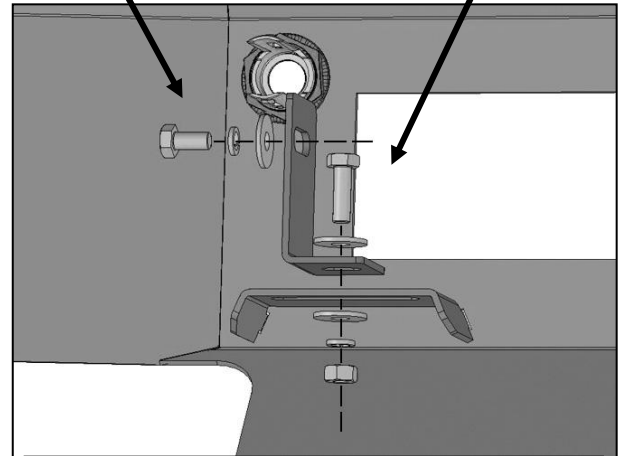
2013-18 RAM 1500 (INCLUDES 2019-24 "CLASSIC" MODEL)
Driver/left Side Installation Pictured



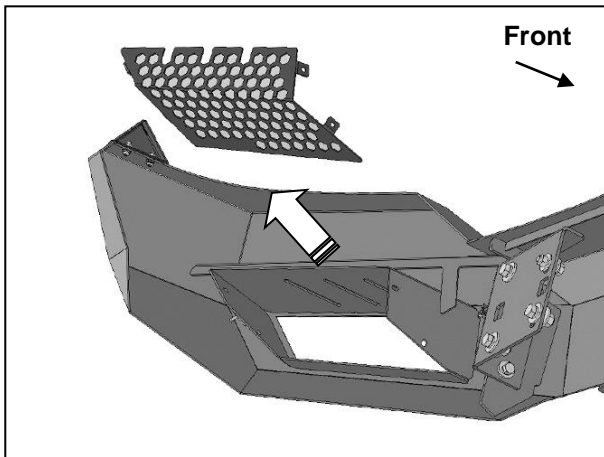
(Fig 11) Use the provided Wire Harness extensions to reach the passenger/right side sensors. Reinstall wiring harness

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

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



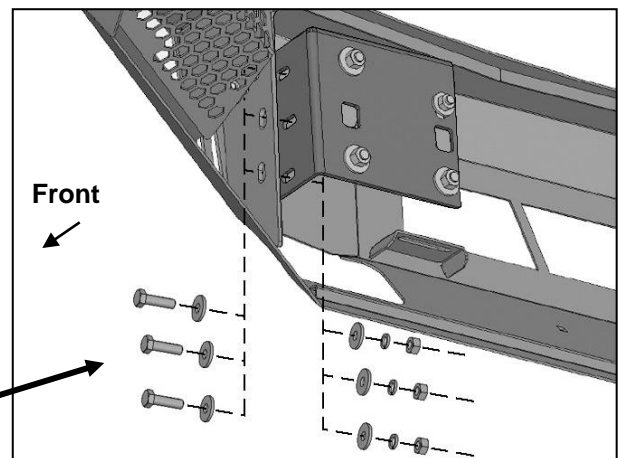
(Fig 12) Example of center light installation



(Fig 13) Remove screens, if necessary, for clearance/access to outer light mounts

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

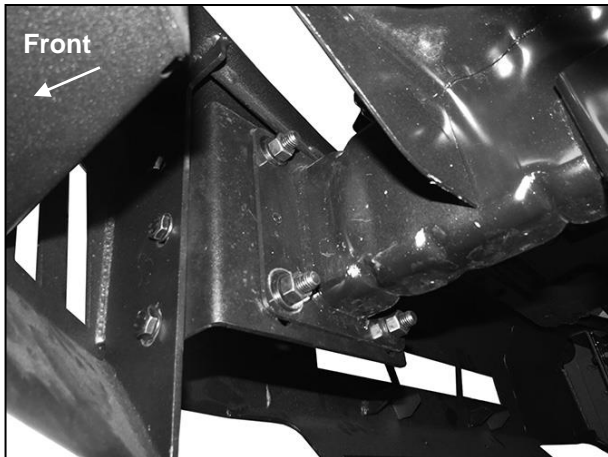
(3) 10mm x 35mm Hex Bolts
 (6) 10mm Flat Washers
 (3) 10mm Lock Washers
 (3) 10mm Hex Nuts



(Fig 14) Attach Bumper to Mounting Brackets

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Driver/left Side Installation Pictured



(Fig 15) Driver/left side complete installation



(Fig 17) Triangle Fill Panel installed

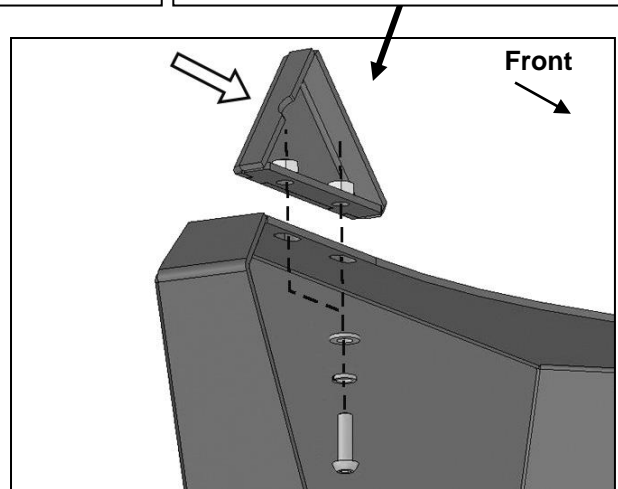


Complete Installation. Lights pictured for example only

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

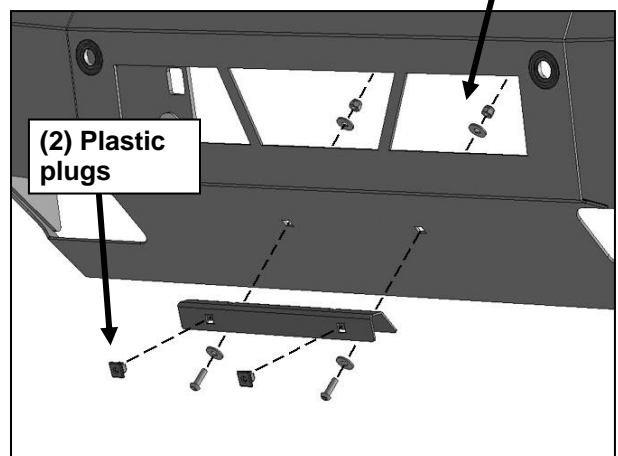
NOTE: Notch (arrow) designates rear of triangle Fill Panel

- (2) 6mm x 20mm Button Head Bolts
- (2) 6mm Lock Washers
- (2) 6mm x 12mm Small Flat Washers



(Fig 16) Attach Driver/left side triangle Fill Panel to top corner of Bumper assembly

- (2) 6mm x 20mm Button Head Bolts
- (4) 6mm x 18mm STD Flat Washers
- (2) 6mm Nylon Lock Nuts



(Fig 18) Attach License Plate Bracket to Bumper