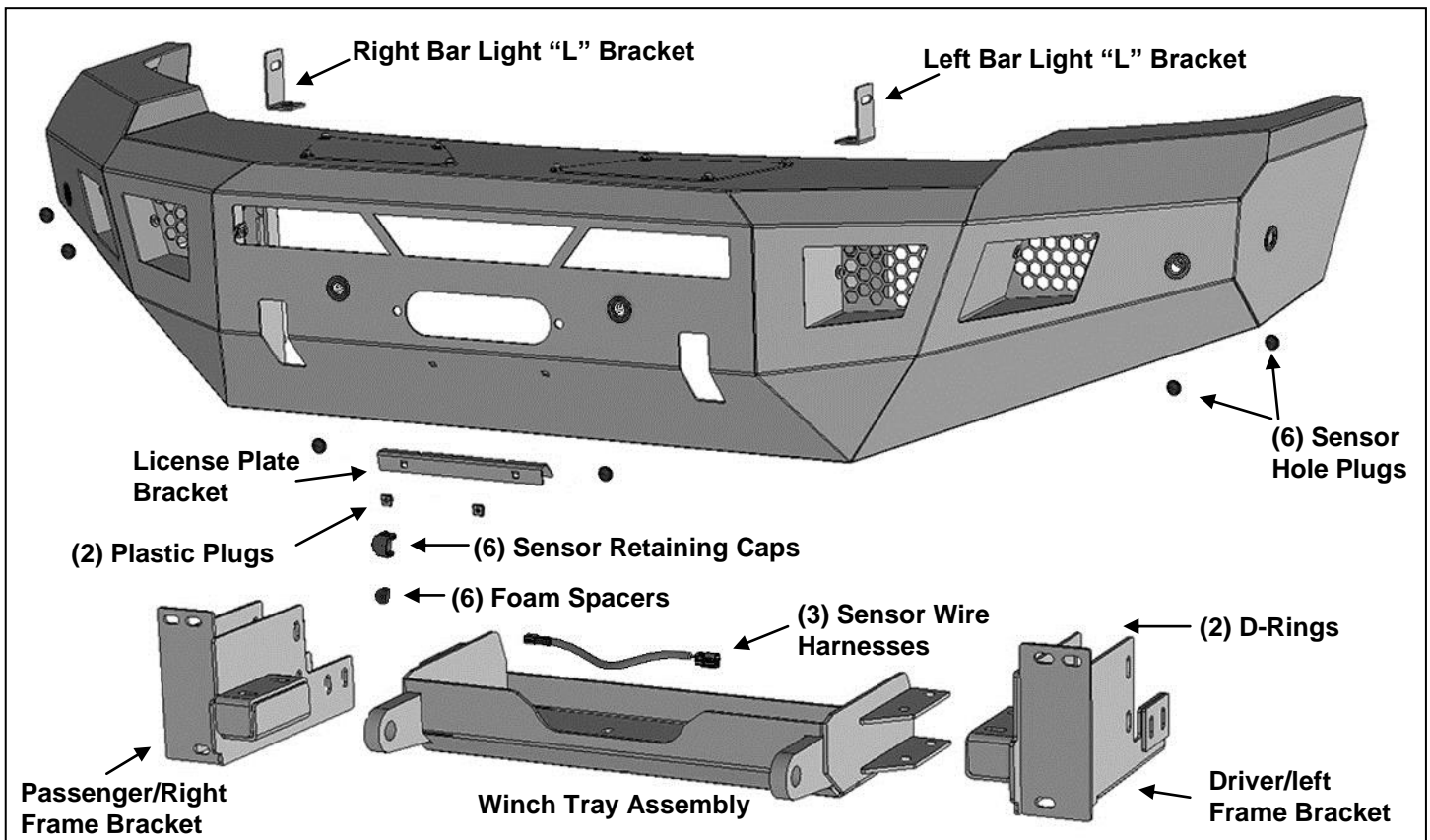


2010-2018 RAM 2500/3500 ECO SERIES FRONT WINCH BUMPER PART #DG-19338

PARTS LIST:

1	HD1 Front Bumper Assembly	12	12mm Lock Washers
1	Driver/left Frame Mounting Bracket	12	12mm Hex Nuts
1	Passenger/right Frame Mounting Bracket	6	10mm x 27mm x 3mm Flat Washers
1	Winch Tray Assembly	6	10mm Lock Washers
1	Driver/left "L" Bracket (center LED light)	6	10mm Hex Nuts
1	Passenger/right "L" Bracket (center LED light)	2	8-1.25mm x 25mm Hex Bolts
1	License Plate Bracket	2	8-1.25mm x 16mm Hex Bolts (LED light bar)
2	Plastic Plugs for license plate mount	6	8mm x 24mm Flat Washers
6	Sensor Hole Plugs	4	8mm Lock Washers
6	Retaining Caps	2	8mm Hex Nuts
6	20mm x 10mm Foam Spacers	2	6mm x 20mm Button Head Bolts
3	Wire Harnesses	4	6mm x 12mm x 1.5mm Flat Washers
1	Sensor Cover Kit	2	6mm Nylon Lock Nuts
2	D-Rings	1	6mm Wrench
4	12-1.75mm x 110mm Hex Bolts	12	4mm Self Tapping Screws
8	12-1.75mm x 100mm Hex Bolts	10	Nylon Wire Ties
24	12mm x 37mm x 2.5mm Flat Washers		





INSTALLATION INSTRUCTIONS

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. CUTTING MAY BE REQUIRED.

1. Remove the license plate and bracket. On models with factory fog lights and/or sensors, unplug any wiring harness leading to the front bumper, **(Figure 1)**. Release the harness from the clips attached to the back of the bumper and move harness away from bumper.
2. Next, open hood and remove the plastic cover between the top of the grille and the top of the radiator. Carefully remove the grill assembly, **(Figures 2 & 3)**.
3. 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 hex nuts attaching each bumper bracket to the end of the frame, **(Figure 4)**. **WARNING!** Assistance is required to hold the bumper in place during hardware removal to prevent the bumper from falling. Slide the bumper assembly off of the tow hooks.
4. Next, remove the tow hooks and the bumper mounting brackets from the end of the frame, **(Figure 5)**. Also remove the lower bumper extensions attached to the bottom of the frame. **IMPORTANT:** On some models equipped with turbo diesel, the shroud, intercooler and lower mounting bracket will need to be loosened or removed to remove the double bolt plate attaching the bumper bracket to the end of the frame, **(Figure 6)**. Assistance is recommended. **OPTION:** To remove the double bolt plates without removing the intercooler, use a hacksaw to cut the threaded ends off of the double bolt plates. Reinstall the intercooler and brackets, (if removed), once bolt plates and bumper brackets have been removed, **(Figure 6)**.
5. Select the driver/left Frame Mounting Bracket, **(Figure 7)**. Attach the Bracket to the end of the frame with (4) 12mm x 100mm Hex Bolts, (8) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, **(Figures 7 & 8)**. Do not fully tighten hardware loose at this time. Repeat this **Step** to install the passenger/right Frame Bracket.
6. Select the Winch Tray Assembly. Slide the Winch Tray into position between the two Frame Mounting Brackets, **(Figure 9)**. Attach the mounting tabs on the Winch Tray to the Frame Brackets with (4) 12mm x 110mm Hex Bolts, (8) 12mm Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, **(Figure 10)**. Leave hardware loose at this time. **IMPORTANT:** On models equipped with turbo diesel engine, the shroud between the front bumper and the intercooler must be cut to clear the back of the Winch Tray, **(Figures 5 & 6)**.
7. If installing winch, (not included), attach the winch to the Winch Tray at this time, **(Figure 10)**. Winch must be installed before Bumper is placed in position against Brackets. **NOTE:** Also attach winch cable guide, (not included), to Bumper assembly. Follow manufacturer's instructions to properly connect the winch to the vehicle's electrical system.
8. **Optional Center LED light installation**, (sold separately). **NOTE:** Light must be installed in Bumper before Bumper Assembly is attached to the Winch Tray and Brackets. **IMPORTANT:** Clearance between the bar style LED light and the winch and/or winch tray must be determined before installing Bumper assembly.
 - a. Select the L/R "L" Brackets, **(Figure 11)**. **NOTE:** "L" Brackets are offset for universal fitment for most LED bar style lights. 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 tighten. **NOTE:** "L" Brackets may require modification for hardware larger than 8mm or use brackets supplied with light if possible.



INSTALLATION INSTRUCTIONS

- b. Attach the light and Brackets to the top of the (2) tabs on 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, **(Figure 11)**. Adjust light position and tighten hardware.
 - c. Follow light manufacturer's instructions to connect the light to the vehicle's electrical system once Bumper has been fully installed.
9. **LED light installation at ends of bumper**, (lights sold separately).
 - a. Insert light into opening and up to mounting slots. Check for clearance between front and back of light. If necessary, remove the screens from the back of the openings, **(Figure 12)**. **NOTE:** Inner light screens must be removed before Bumper is installed.
 - b. Follow the light manufacturer's instructions to attach each light to slot in the top of the light opening. **NOTE:** 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 light installation.
 - d. Follow light manufacturer's instructions to properly connect the lights to the vehicle electrical system.
10. 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, **(Figure 13)**. Insert (2) Plastic Plugs into the square holes in the Bracket. Reuse the factory screws to attach the license plate to the Plastic Plugs.
11. Determine if vehicle is equipped with parking sensors. **NOTE:** Sensors must be installed in Bumper before installing Bumper Assembly.

Models without bumper sensors:

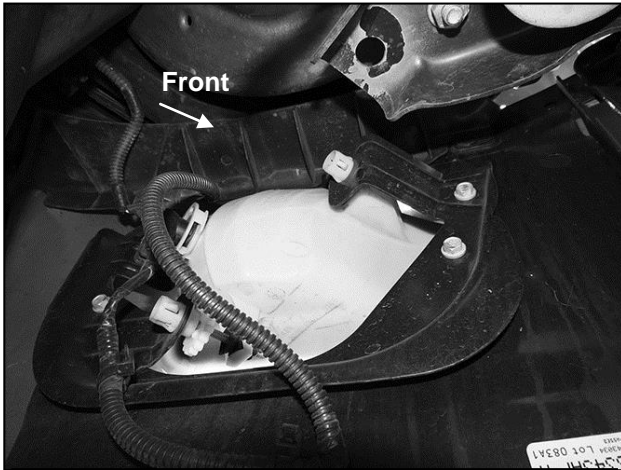
 - a. From front of Bumper, push the included Plugs into sensor mounts, **(Figure 14)**.

Models with bumper mounted sensors:

 - a. Push the sensor in from the back of the Bumper until it is flush with the sensor mount. **NOTE:** Sensor tabs may need to be trimmed to fit sensor inside sensor mount.
 - b. Push (1) Foam Spacer onto the end of the sensor. Snap (1) Retaining Cap onto the sensor mount to secure the sensor in place, **(Figure 15)**.
 - c. Repeat the previous **Steps** for the remaining sensors.
 - d. Starting on the driver/left side, run the OE sensor wire harness through the bumper cutouts. Connect the first three driver/left side sensors to the OE wire harness.
 - e. Use the provided Wire Harness Extensions to connect the remaining three passenger/right side sensors to the OE wire harness.
 - f. Use the provided Wire Ties to secure the Wiring Harnesses to the back of the Bumper.
12. With assistance, position the HD1 Bumper Assembly up to 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.
13. Attach the mounting studs on the back of the driver/left side of the Bumper to the Frame Bracket with (3) 10mm Flat Washers, (3) 10mm Lock Washers and (3) 10mm Hex Nuts, **(Figures 16 & 17)**. Do not fully tighten at this time. Repeat this **Step** to attach the passenger/right side of the Bumper to the Frame Bracket.
14. Align and adjust the Bumper to the vehicle and fully tighten all hardware.
15. Reattach the bumper wiring harness to the main wiring harness.
16. Remove the top cover plates from the Bumper if necessary, to access the winch, **(Figure 18)**.
17. 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.

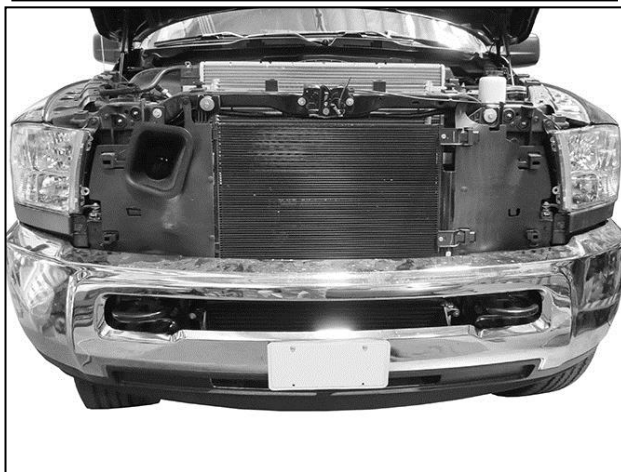
Driver/left Side Installation Pictured



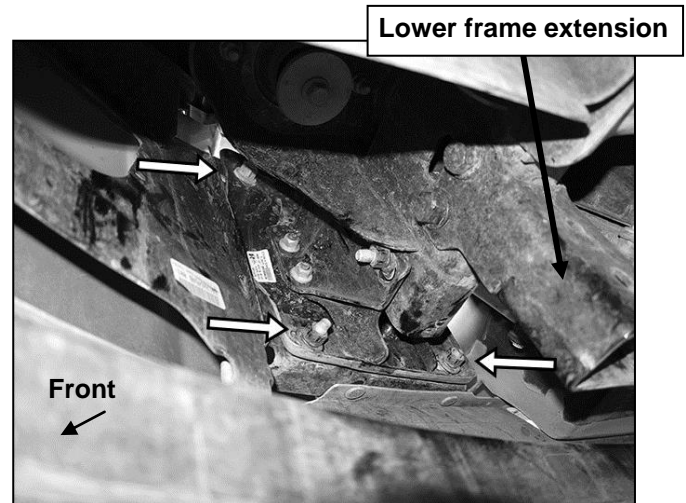
(Fig 1) Unplug lights and sensors if equipped. Unplug harness to bumper and move harness



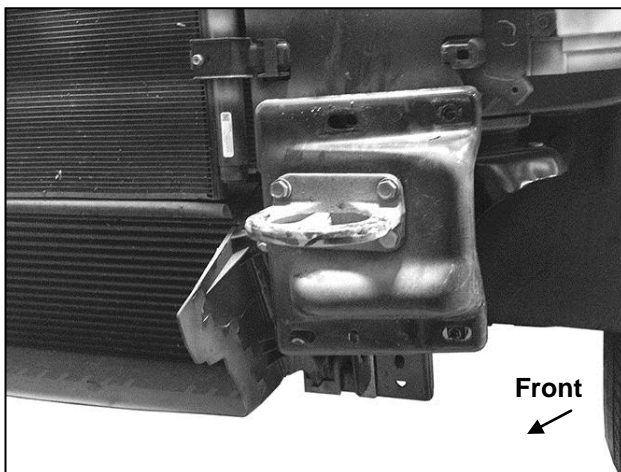
(Fig 2) Open hood and remove plastic cover



(Fig 3) Temporarily remove plastic grille to access top bumper bolts



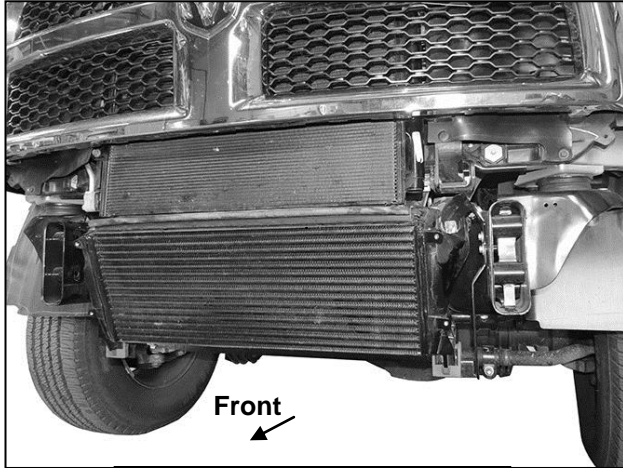
(Fig 4) Remove hex nuts from bumper bolts (arrows). Driver/left side bumper bracket pictured from below/behind bumper



(Fig 5) Remove tow hooks, bumper brackets and lower frame extension (see Fig 4)

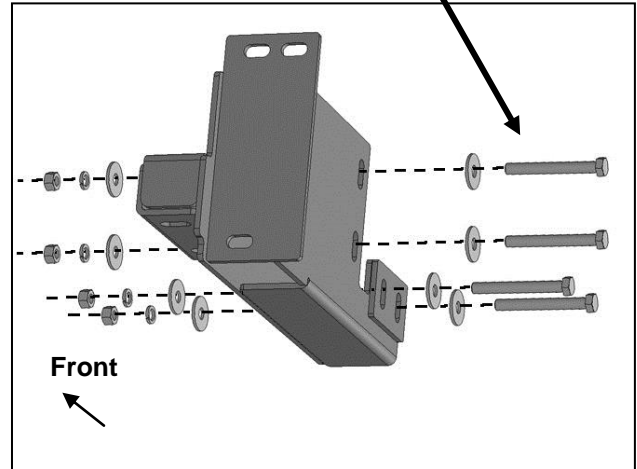
WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or it may fall.

Driver/left Side Installation Pictured



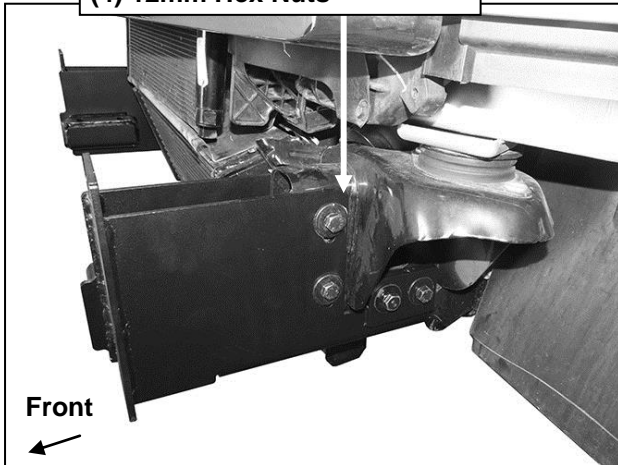
(Fig 6) Diesel models-remove shroud around intercooler

- (4) 12mm x 100mm Hex Bolts
- (8) 12mm Flat Washers
- (4) 12mm Lock Washers
- (4) 12mm Hex Nuts



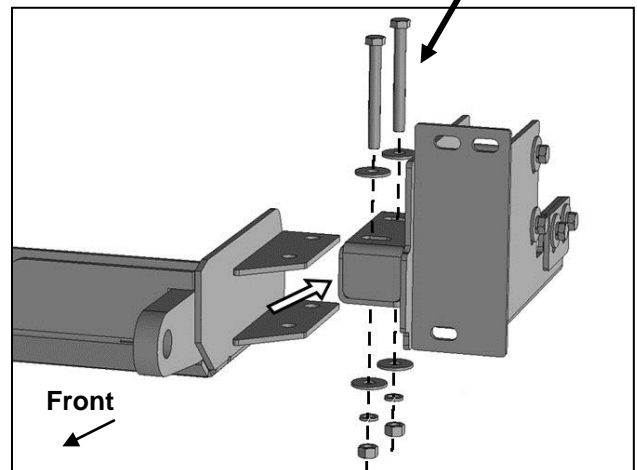
(Fig 7) Attach driver/left Frame Bracket to factory holes in frame

- (4) 12mm x 100mm Hex Bolts
- (8) 12mm Flat Washers
- (4) 12mm Lock Washers
- (4) 12mm Hex Nuts



(Fig 8) Driver/left Frame Bracket installed

- (2) 12mm x 110mm Hex Bolts
- (4) 12mm Flat Washers
- (2) 12mm Lock Washers
- (2) 12mm Hex Nuts



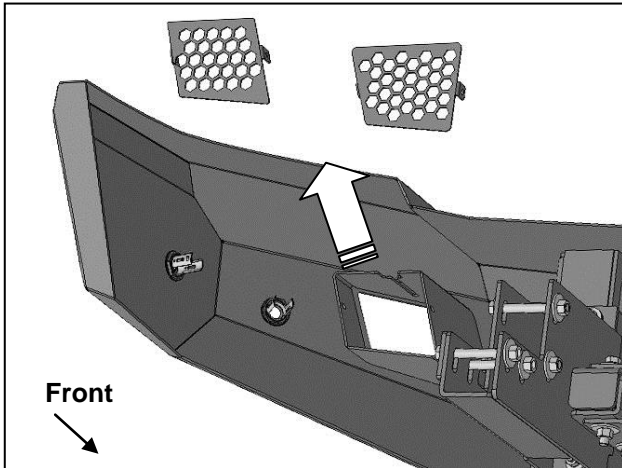
(Fig 9) Slide Winch Tray between Brackets

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

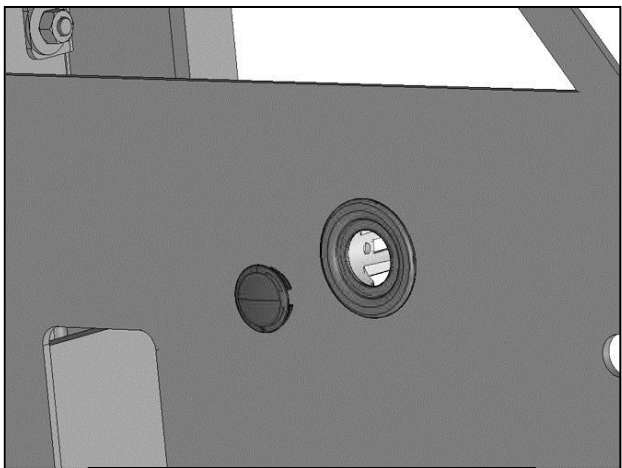
Driver/left Side Installation Pictured



(Fig 10) Attach Winch Tray to Frame Brackets



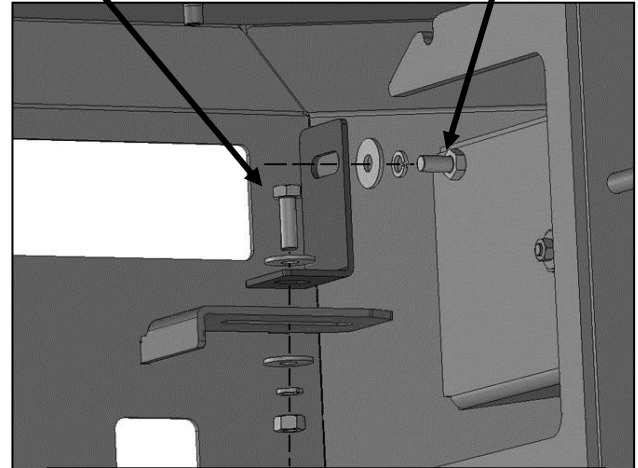
(Fig 12) Remove screens if necessary for clearance/access to outer light mounts



(Fig 14) Models without sensors, push Plugs into sensor mounts

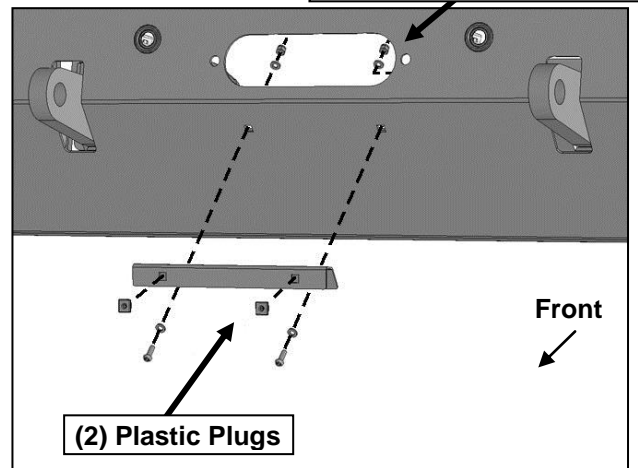
8mm x 25mm Hex Bolt
(2) 8mm Flat Washers
8mm Lock Washer
8mm Hex Nut

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



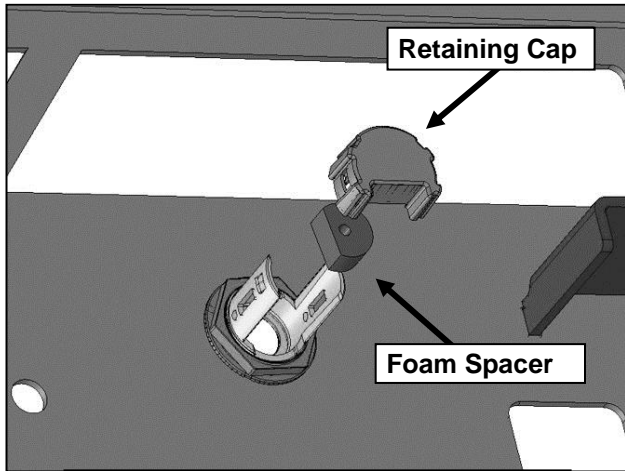
(Fig 11) Attach "L" Bracket to tab on back of Bumper. Attach LED bar style light to "L" Brackets (installation optional)

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



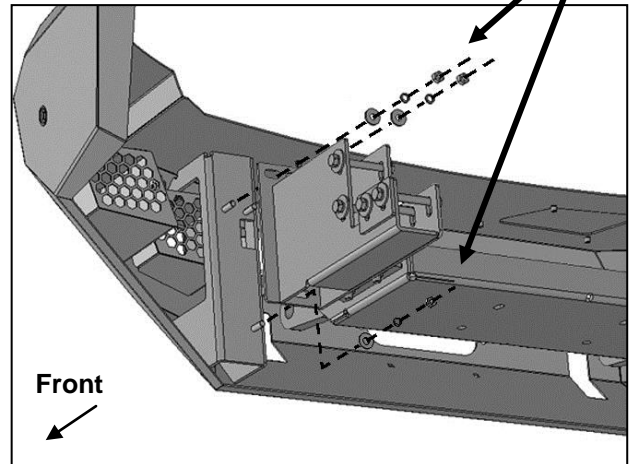
(Fig 13) Attach License Plate Bracket to Bumper

Driver/left Side Installation Pictured

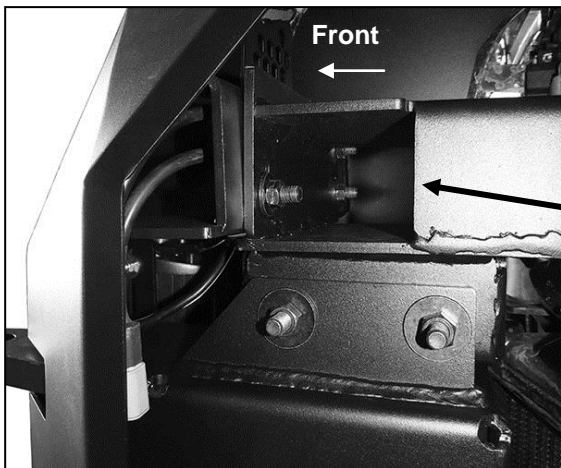


(Fig 15) Sensor assembly attached to sensor sleeve on back of Bumper

- (3) 10mm Flat Washers
- (3) 10mm Lock Washers
- (3) 10mm Hex Nuts



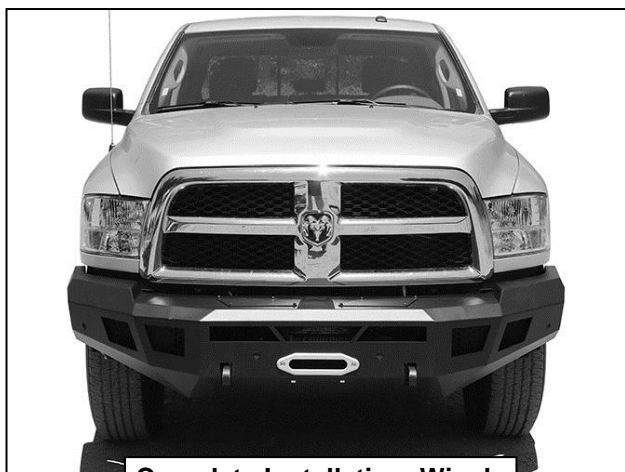
(Fig 16) Driver/left side complete installation



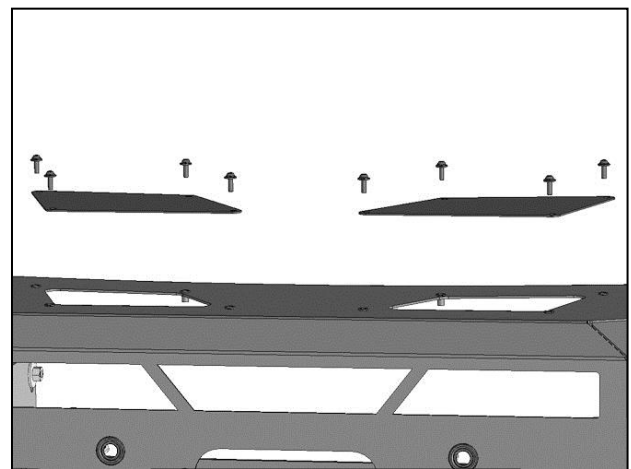
(Fig 17) Driver/left side complete installation pictured from below

- (3) 10mm Flat Washers
- (3) 10mm Lock Washers
- (3) 10mm Hex Nuts

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



Complete Installation. Winch and cable guide not included



(Fig 18) Remove covers for winch access if necessary