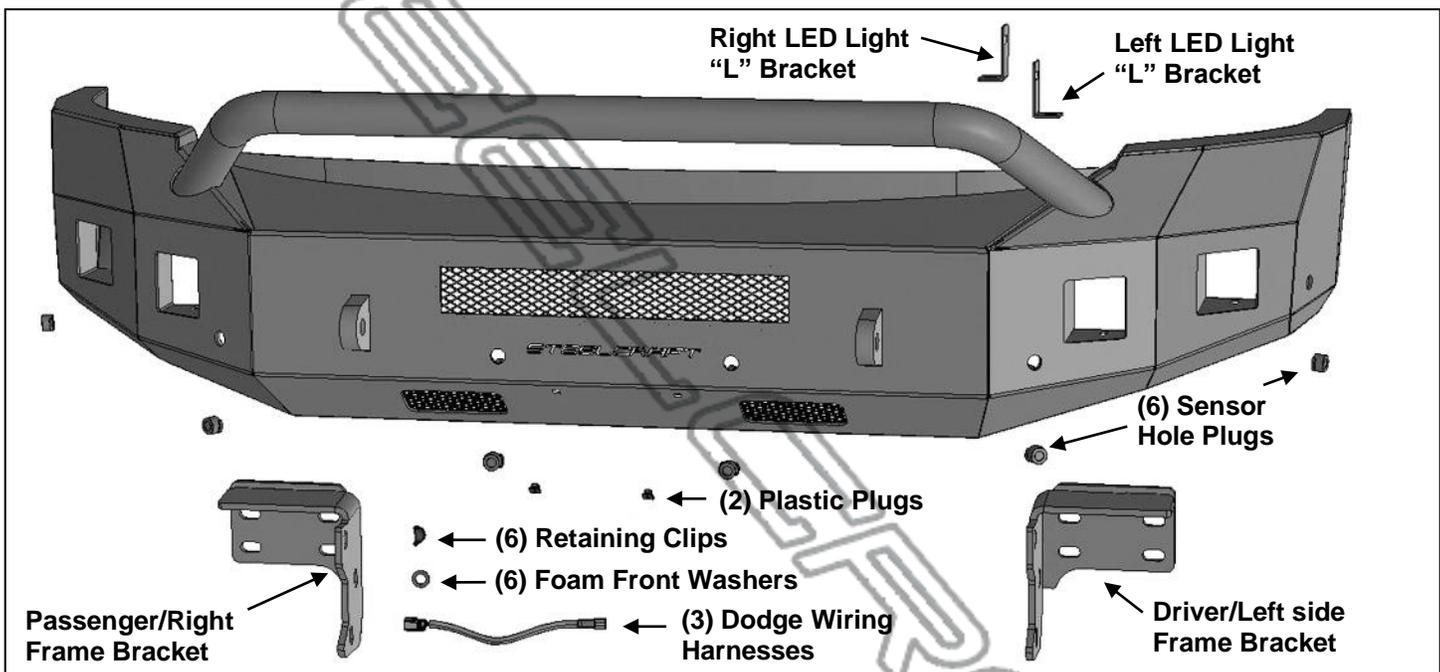


**FORTIS BULLNOSE FRONT BUMPER
2010-18 RAM 25-3500**

PARTS LIST:

1	Fortis Front Bumper	12	12mm x 37mm x 3mm Large Flat Washers
1	Driver/left side Frame Bracket	16	12mm x 32mm x 3mm STD Flat Washers
1	Passenger/right side Frame Bracket	8	12mm Lock Washers
1	Driver/left side LED Light "L" Bracket	8	12-1.75mm Hex Nuts
1	Passenger/right side LED Light "L" Bracket	6	12mm Nylon Lock Nuts
2	License Plastic Plugs	2	8-1.25mm x 25mm Hex Bolts
3	Dodge Wiring Harnesses	2	8-1.25mm x 16mm Hex Bolts
6	Retaining Ring	6	8mm x 24mm x 2mm Flat Washers
6	Foam Seal Washers	4	8mm Lock Washers
6	Sensor Hole Plugs	2	8-1.25mm Hex Nuts
1	Sensor Cover Kit	12	4mm x 10mm Button Head Screws
14	12-1.75mm x 50mm Hex Bolts	1	2.5mm Wrench



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 wiring harness leading to 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, **(Figure 2)**. Carefully remove the grille assembly, **(Figure 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 side of the bumper to the brackets on the end of the frame, **(Figure 4)**. **WARNING!** Assistance is required to hold the bumper in place during hardware removal to prevent it from falling. Slide the bumper off of the tow hooks.
4. Next, remove the tow hooks from the end of the frame, **(Figures 5 & 6)**.
5. Select the driver/left Frame Bracket. Attach the Bracket to the end of the frame with (4) 12mm x 50mm Hex Bolts, (8) 12mm x 32mm STD Flat Washers, (4) 12mm Lock Washers and (4) 12mm Hex Nuts, **(Figure 7)**. Leave hardware loose. Repeat this Step to install the passenger/right Frame Bracket.

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6. **Center LED light installation**, (not included, light sold separately). **NOTE:** It may be easier to install light in Bumper before attaching Bumper to vehicle.
 - a. Select the L/R “L” Brackets, **(Figure 8)**. **NOTE:** “L” Brackets are offset for universal fitment for most LED bar style lights.
 - b. Attach the brackets to the tabs on the back of the Bumper with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 8)**.
 - c. 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 8)**. Do not fully tighten hardware at this time. **NOTE:** “L” Brackets may require modification for hardware larger than 8mm or use brackets supplied with light if possible.
 - d. Adjust light position and tighten hardware.
 - e. Follow light manufacturer’s instructions to wire the light to the vehicle’s electrical system.
7. **Determine if vehicle is equipped with parking sensors**. **NOTE:** Sensors, (if equipped), must be installed in Bumper before Bumper is attached to Brackets.

Models without bumper sensors:

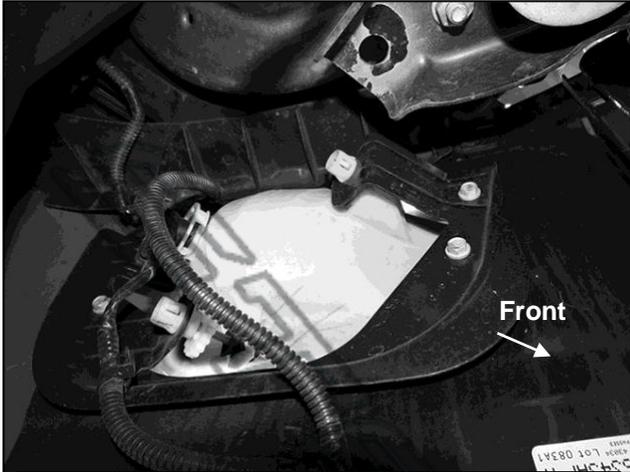
 - a. Select the included (6) Rubber Plugs.
 - b. From behind bumper, push plugs into sensor mounts, **(Figure 9)**. Screws have been provided to lock the plugs in the mount, use is optional.

Models with bumper mounted sensors:

 - a. Remove sensors and wiring harness from back of OE Bumper.
 - b. Select the driver/left outer sensor. Remove the factory sealing washer from the front of the sensor. Slide the provided Foam Washer onto the front of the sensor, **(Figure 10)**.
 - c. Push the sensor in from the back of the Bumper until it is flush with the Bumper. **NOTE:** Sensor tabs may need to be trimmed to fit sensor inside sensor mount. Push (1) Retaining Clip into the mount to secure the sensor in place, **(Figure 11)**.
 - d. Repeat the previous steps to install the remaining sensors.
 - e. Starting on the driver/left side, run the OE sensor wire harness through the bumper cutouts. Connect the first three driver/left sensors to the OE sensor wire harness.
 - f. Use the provided wire harness extensions to connect the wire harness to the remaining three passenger/right side sensors.
8. With assistance, position the Bumper Assembly up to the insides 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.
9. Attach the Bumper to the inside of the Frame Brackets with (6) 12mm x 50mm Hex Bolts, (12) 12mm x 37mm Large Flat Washers and (6) 12mm Nylon Lock Nuts, **(Figures 12 & 13)**. Do not fully tighten.
10. Level and adjust the bumper and fully tighten all hardware.
11. Plug in the bumper harness if equipped, to the main wiring harness.
12. **LED light installation at ends of bumper** (lights not included, sold separately).
 - a. Follow the light manufacturer’s instructions to attach each light to slot in the bottom of the light opening. Check for clearance between front and back of light, **(Figure 14)**.
 - b. **IMPORTANT:** On two lights per side 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 the light to the vehicle electrical system.
13. If front license plate is required, insert (2) Plastic Plugs into the square holes in the front of the Bumper, **(Figure 15)**. Reuse the factory screws to attach the license plate to the plastic plugs.
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.

Driver/left Side Installation Pictured



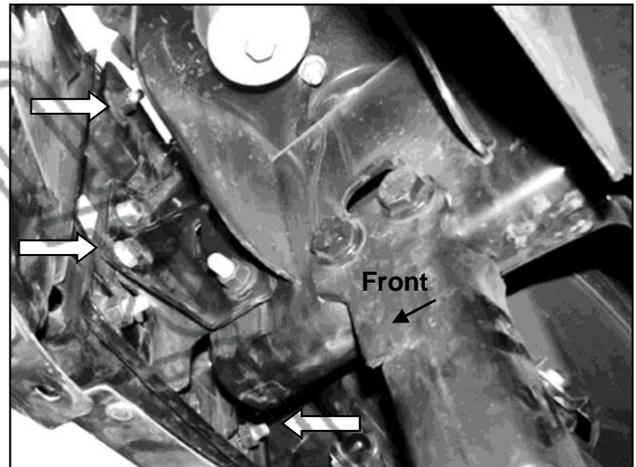
(Fig 1) Unplug lights and sensors if equipped. Unplug harness to bumper and move harness



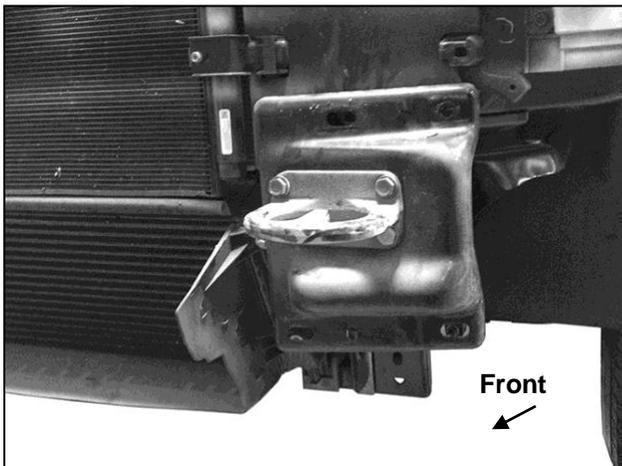
(Fig 2) Open hood and remove plastic cover



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



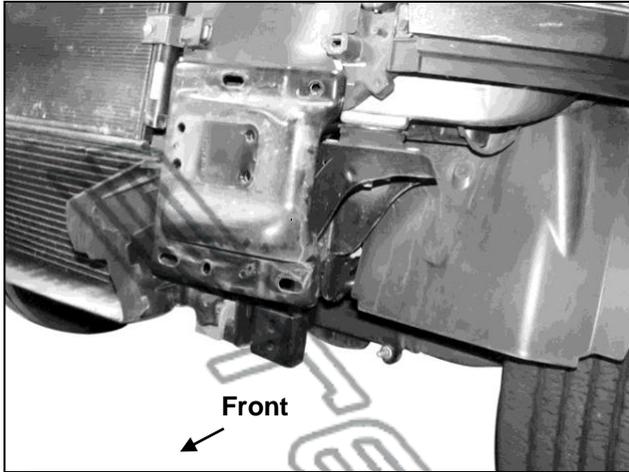
(Fig 4) Remove hex nuts from bumper bolts (arrows). Bumper bracket pictured from below/behind bumper



(Fig 5) Remove tow hook (Driver side pictured)

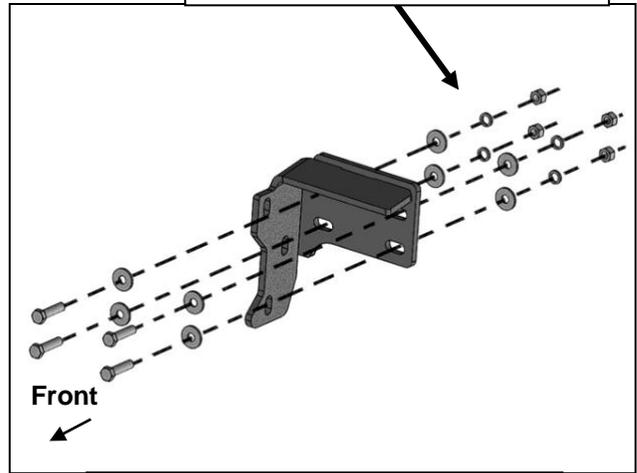
WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or it may fall.

Driver/left Side Installation Pictured



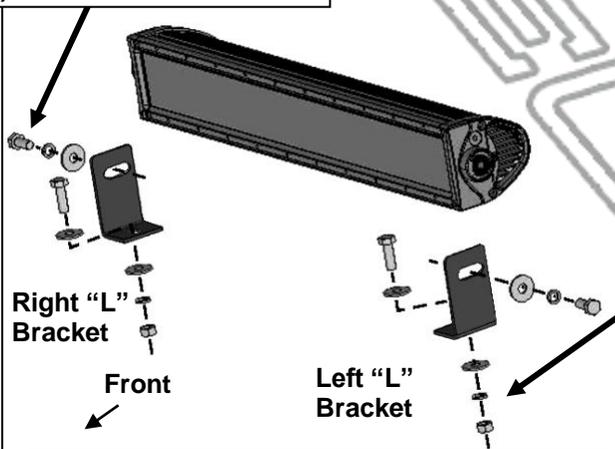
(Fig 6) Tow hook removed from driver side

- (4) 12mm x 50mm Hex Bolts
- (8) 12mm x 32mm Flat Washers
- (4) 12mm Lock Washers
- (4) 12mm Hex Nuts



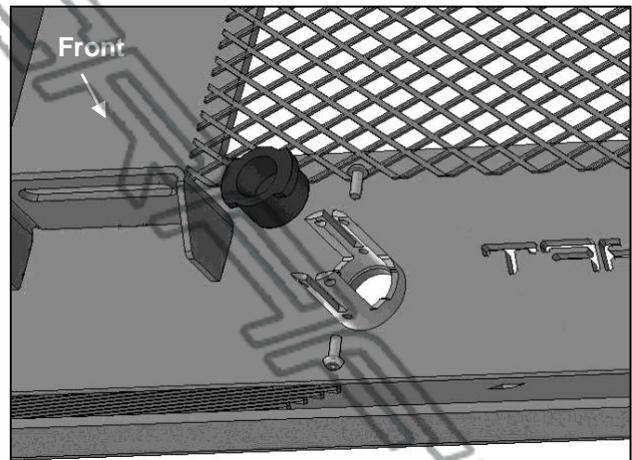
(Fig 7) Attach Frame Bracket to the frame (driver/left side illustrated)

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



(Fig 8) Example of center light installation

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

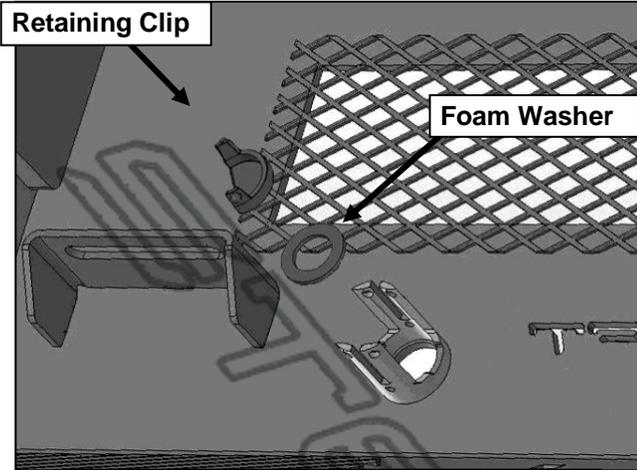


(Fig 9) Insert Plug into sleeve on back of bumper

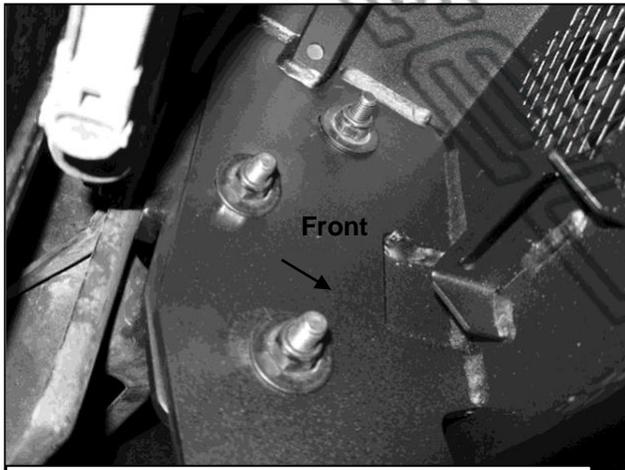


(Fig 10) Replace factory seal washer with Foam Washer

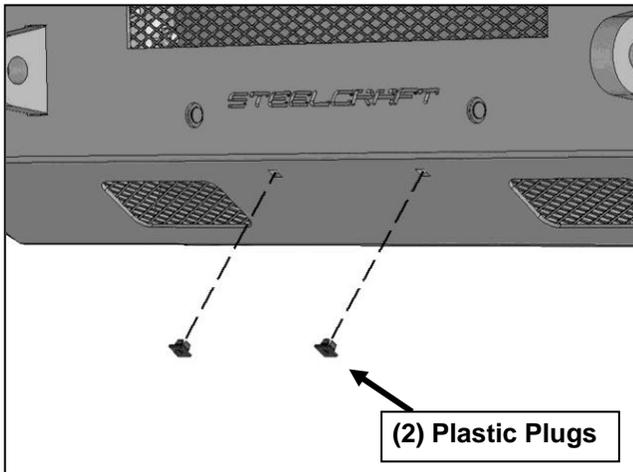
Driver/left Side Installation Pictured



(Fig 11) Push sensor into sensor mount



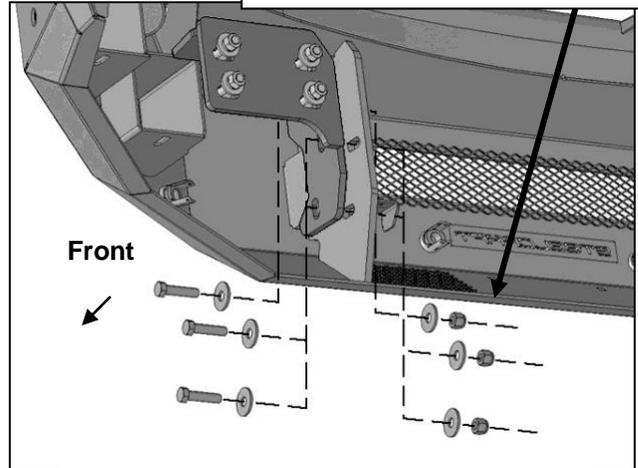
(Fig 13) Driver/left side complete installation



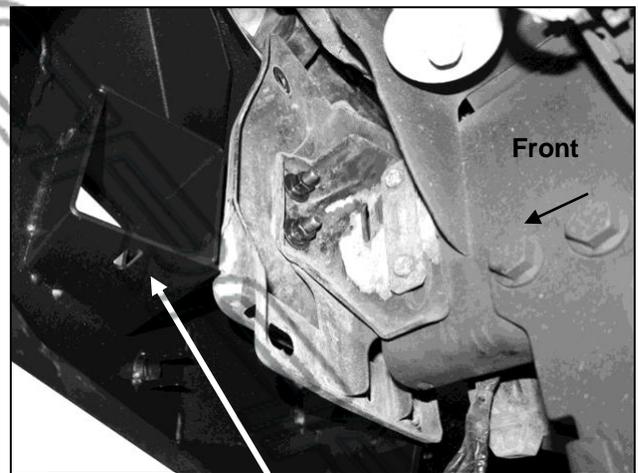
(Fig 15) Attach license plate Plugs in Bumper

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

- (3) 12mm x 50mm Hex Bolts
- (6) 12mm x 37mm Flat Washers
- (3) 12mm Nylon Lock Nuts



(Fig 12) Driver/left side Frame Bracket attached to mounting plate on Bumper



(Fig 14) Outer light mounting brackets