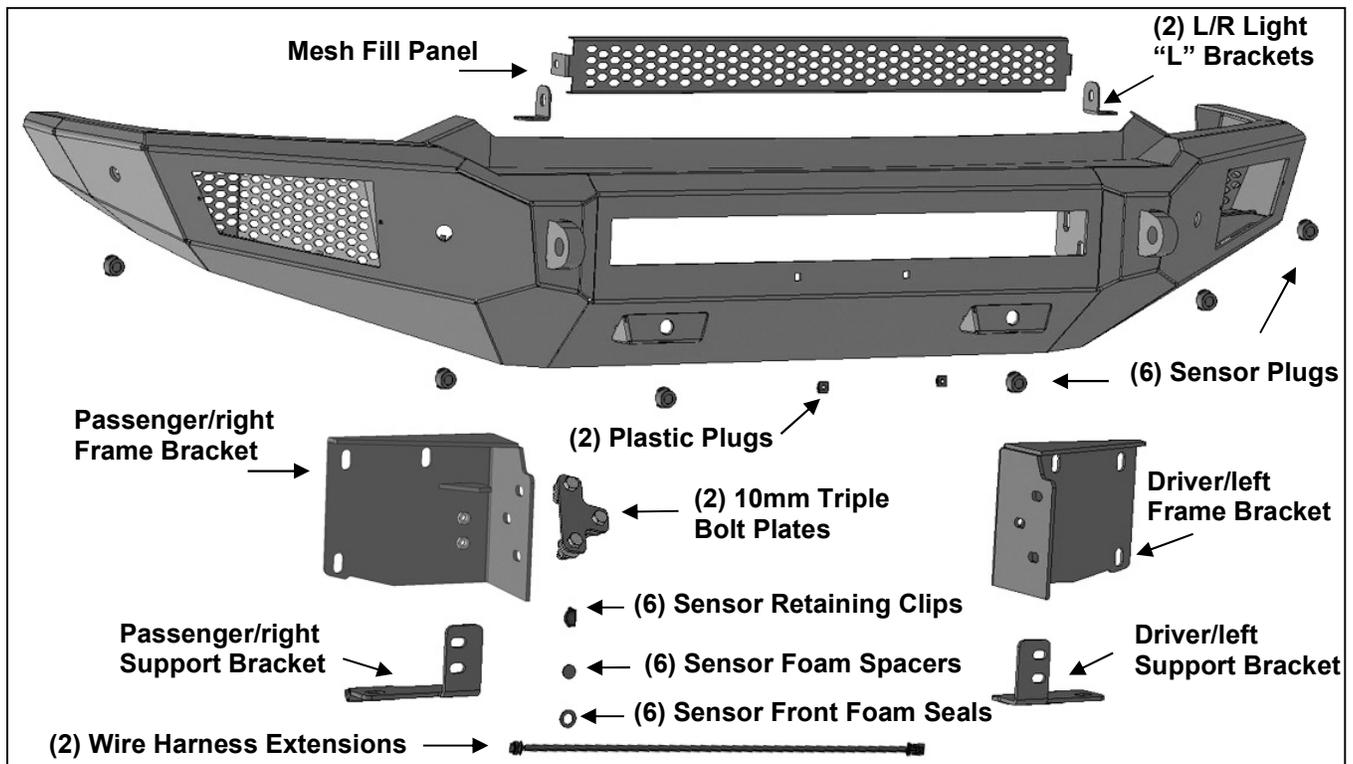


## 2019-2020 DODGE RAM 1500 AMBUSH SERIES FRONT BUMPER (NON-WINCH) PART #DG-19343

### PARTS LIST:

1	Front Bumper	2	12mm Triple Bolt Plates
1	Mesh Fill Panel	6	12-1.75mm x 45mm Hex Bolts
1	Driver/left Frame Bracket	18	12mm x 32mm x 3mm Flat Washers
1	Passenger/right Frame Bracket	12	12mm Nylon Lock Nuts
1	Driver/left Frame Support Bracket	4	10-1.5mm x 30mm Hex Bolts
1	Passenger/right Frame Support Bracket	4	10mm x 30mm x 2.5mm Flat Washers
2	LED "L" Brackets	4	10mm Lock Washers
2	License Plastic Plugs	4	8-1.25mm x 25mm Hex Bolts
2	Ram Sensor Wire Harness Extensions	2	8-1.25mm x 16mm Hex Bolts
6	Sensor Hole Plugs	8	8mm x 24mm x 2mm Flat Washers
6	Sensor Retaining Clips	4	8mm Lock Washers
6	Sensor Foam Spacer Washers	4	8mm Hex Nuts
6	Sensor Foam Front Seals	12	4-0.75mm x 10mm Button Head Allen Bolts
1	Sensor Cover Kit	1	4mm Wrench
2	14-1.50mm "Fine Thread" x 50mm Hex Bolts	1	2.5mm Wrench
2	14mm x 44mm x 3mm Flat Washer	10	Nylon Wire Ties
2	14mm Lock Washer		



### 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.

1. Remove the license plate and bracket. Models with active automatic air dam, unplug and remove air dam from bottom of frame.
2. On the driver/left side of the bumper, remove the (2) factory bolts attaching the inner plastic cover to the side of the frame, **(Figure 1)**. Next remove the outer bolts attaching the cover to the end of the bumper and remove the inner plastic cover. Repeat this **Step** to remove the passenger/right cover.
3. Locate and unplug all wire harnesses leading to the front bumper, **(Figure 2)**.
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) factory flange nuts attaching each bumper bracket to the end of the frame, **(Figures 2 & 3)**. **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 and place bumper on a stable, clean surface.
5. On models equipped with tow hooks, **loosen but do not remove** the inner rear tow hook/body mount bolt. Remove the forward mounting bolt and slide tow hook off of the bottom of the frame, **(Figure 4)**. Repeat to remove remaining tow hook. **NOTE:** Tow hooks cannot be reinstalled with Bumper.
6. Determine if the vehicle is equipped with front bumper parking sensors. **NOTE:** Sensors must be installed before installing Bumper Assembly.

#### **Models without front sensors:**

- a. Select the included (6) Rubber Plugs.
- b. From behind bumper, push plugs into sensor mounting holes, **(Figure 5)**. Screws have been provided to lock the plugs in the sleeve. Use is optional.

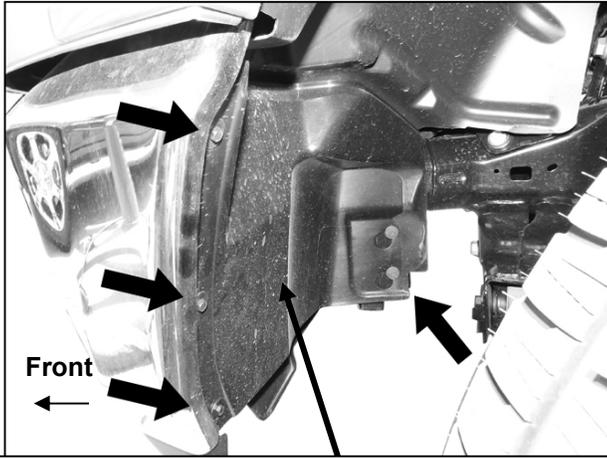
#### **Models equipped with front sensors:**

- a. Disassemble the front bumper to unplug and remove the wiring harness. Remove the driver/left outer sensor first. **IMPORTANT:** The front bumper is equipped with (2) outer brown “L” shaped sensors, (2) #2 location black “L” shaped sensors (2) inner “Z” shaped sensors. Pay close attention to the location and type of all sensors for correct reinstallation, **(Figures 6 & 7)**. Install sensors one at a time.
  - b. Starting with the #1 driver/left outer “L” shaped sensor, remove the sealing washer from the front of the sensor. Select (1) Sensor Foam Washer. Push the Foam Washer onto the front of the sensor, **(Figures 8 & 9)**.
  - c. Slide the sensor into the #1 driver/left outer sensor mount on the Body Armor Bumper. Attach (1) Foam Spacer to (1) Retaining Clip. Push the Retaining Clip into the holes in the sensor mount, **(Figure 10)**.
  - d. Repeat the above steps to attach the #2 “L” sensor.
  - e. Next, repeat the previous Steps to install (1) “Z” shaped sensor into the #3 inner sensor mount, **(Figure 9)**. **IMPORTANT:** The (2) “Z” shaped sensors attach to the **inner** sensor mounts and the (4) “L” shaped sensors attach to the **outer** sensor mounts only.
  - f. Repeat the previous Steps to install the remaining sensors in the correct sensor mounting locations.
  - g. Run the wire harness through the sensor openings on the bumper to connect the wire harness to each sensor.
  - h. Attach the (2) Wire Harness Extensions to the (2) inner “Z” shaped sensors. **NOTE:** Wire harness extensions can only be used with the inner “Z” shaped sensors. Use the included Wire Ties to attach the harness to the Bumper.
7. **Center LED light installation** (light sold separately).
    - a. Select the “L” Brackets, **(Figure 11)**. Attach the Brackets to the top of the (2) mounting tabs welded onto 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. 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 11)**. Do not fully tighten hardware at this time. **IMPORTANT:** “L” Brackets are designed for 8mm light mounting hardware only.

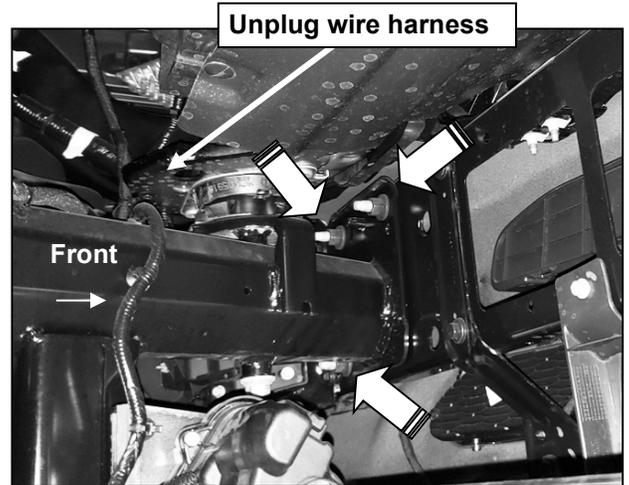
- c. Follow light manufacturer's instructions to properly wire light once bumper has been installed.
8. **Center Fill Panel installation** (no center light installed).
  - d. Select the "L" Brackets, **(Figure 11)**. Attach the Brackets to the top of the (2) mounting tabs welded onto the back of the bumper with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts. Leave loose at this time.
  - e. Attach the Center Fill Panel to the "L" Brackets with the included (2) 8mm x 25mm Hex Bolts, (4) 8mm Flat Washers, (2) 8mm Lock Washers and (2) 8mm Hex Nuts, **(Figure 12)**.
  - f. Push Fill Panel up against back of Bumper. Align Panel to Bumper and tighten hardware.
9. **LED light installation at ends of bumper** as supplied with bumper or sold separately.
  - a. Insert light into opening in the passenger/right side of the Bumper and up to mounting slot. Check for clearance between front and back of light. If necessary, remove screen from back of opening, **(Figure 13)**.
  - b. Attach (1) light to the slot in the top of the light opening, **(Figure 13)**.
  - c. Repeat the above steps for driver/left side light installation.
  - d. Follow light manufacturer's instructions to properly wire light once bumper has been installed.
10. Select the Passenger/Right Frame Bracket, **(Figure 14)**. Attach the Bracket to the frame with (3) 12mm x 45mm Hex Bolts, (6) 12mm Flat Washers and (3) 12mm Nylon Lock Nuts, **(Figures 14 & 15)**.
11. Select the passenger/right Support Bracket. Determine if the vehicle was equipped with tow hooks.  
**Models without tow hooks.**
  - a. **Loosen but do not remove** the inner/rear body mount bolt, **(Figure 16)**. Slide the slotted inner end of the Support Bracket under the inner/rear body mount bolt.
  - b. Attach the Support Bracket to the bottom of the frame with the included 14-1.5mm x 50mm **Fine Thread** Hex Bolt, 14mm Lock Washer and 14mm Flat Washer, **(Figure 17)**.
  - a. Attach the front of the Support Bracket to the back of the Mounting Bracket with (2) 10mm x 30mm Hex Bolts, (2) 10mm Lock Washers and (2) 10mm Flat Washers, **(Figures 18 & 19)**. Leave loose.  
**Model with tow hooks.**
  - b. Slide the slotted inner end of the Bracket under the inner/rear tow hook-body mount bolt. Reuse the front tow hook bolt or the included 14mm hardware to attach the Support Bracket to the bottom of the frame, **(Figure 17)**.
  - c. Attach the front of the Support Bracket to the back of the Mounting Bracket with (2) 10mm x 30mm Hex Bolts, (2) 10mm Lock Washers and (2) 10mm Flat Washers, , **(Figures 18 & 19)**. Leave loose.
12. Repeat **Steps 10 & 11** to install the Driver/left Frame and Support Brackets.
13. With assistance, position the Bumper Assembly up to the inside 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.
14. Insert (1) 12mm Triple Bolt Plate up and through the mounting plate on the back of the passenger/right side of the Bumper and through the Mounting Bracket, **(Figure 20)**. Attach the Bumper to the Bolt Plate with (3) 12mm Flat Washers and (3) 12mm Nylon Lock Nuts, **(Figures 20 & 21)**. **NOTE:** Triple Bolt Plate can be installed on either side of the Mounting Bracket as desired, **(Figure 20)**. Repeat this Step to attach the driver/left side of the Bumper to the Bracket. Do not fully tighten at this time.
15. Level and adjust the bumper and fully tighten all hardware.
16. Plug the bumper wire harness into the main harness on the driver/left side of the vehicle.
17. If front license plate is required, insert (2) Plastic Plugs into the square holes in the front of the Bumper. Reuse the factory screws to attach the license plate to the plastic plugs, **(Figure 22)**.
18. 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.

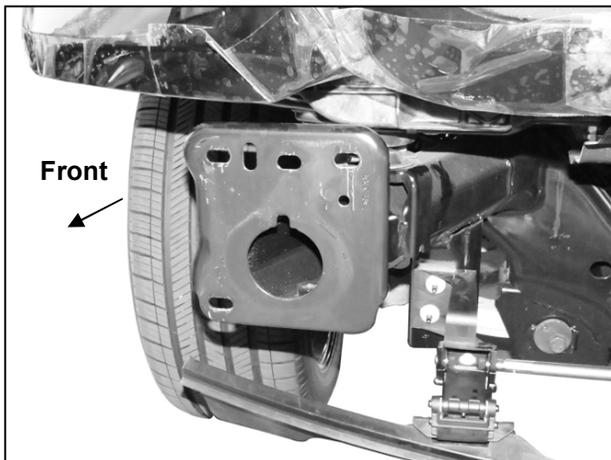
## Driver/left Side Installation Pictured



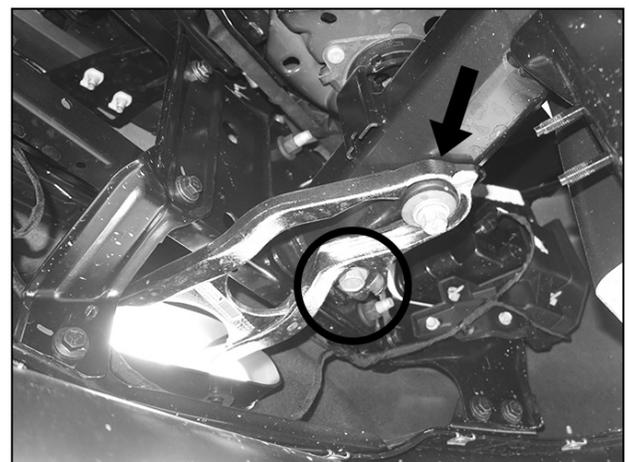
(Fig 1) Remove the inner plastic cover attached to the outer end of the bumper and outside of the frame (Driver/left side pictured)



(Fig 2) Remove flange nuts attaching the bumper assembly to the end of the frame (driver/left side pictured from behind bumper)

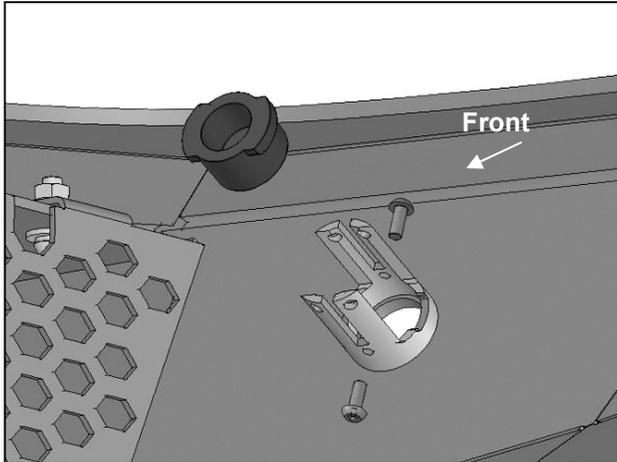


(Fig 3) Frame mounting location after bumper removal (passenger/right side pictured)

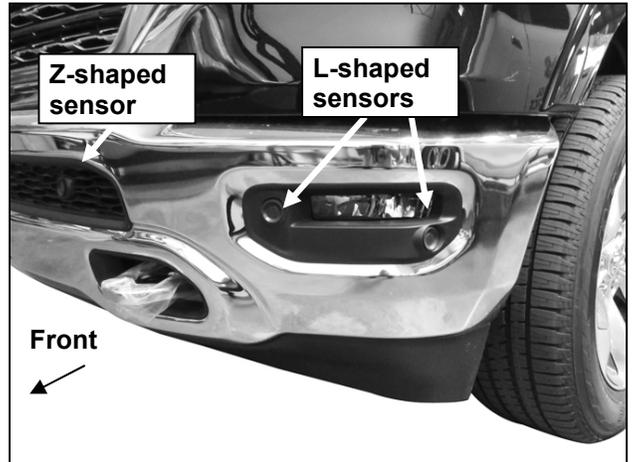


(Fig 4) Loosen but do not remove body bolt (arrow) and remove hex bolt (circle) to remove two hooks (passenger/right side pictured)

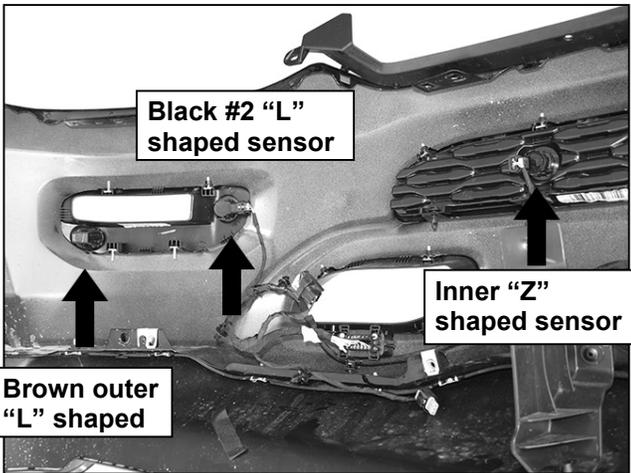
Driver/left Side Installation Pictured



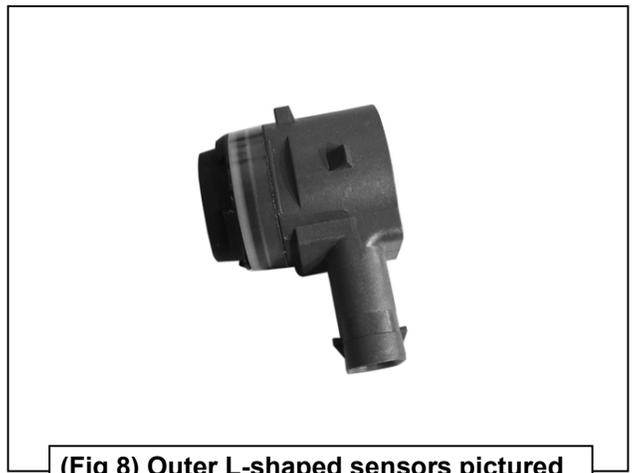
(Fig 5) Insert Plug into mount on back of bumper



(Fig 6) Models equipped with parking sensors, note the type and location of all sensors before removing from bumper. Driver/left side sensor location pictured with factory bumper on for instruction purposes only



(Fig 7) Back of driver/left side of bumper pictured. Disassemble bumper to remove sensors and harness

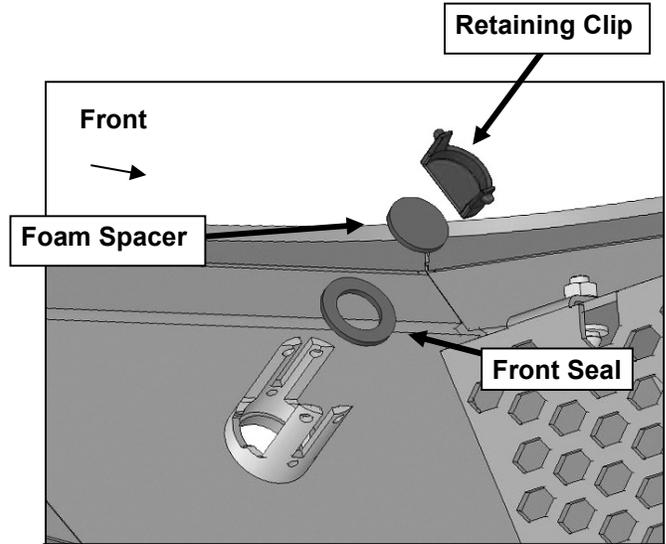


(Fig 8) Outer L-shaped sensors pictured

## Driver/left Side Installation Pictured

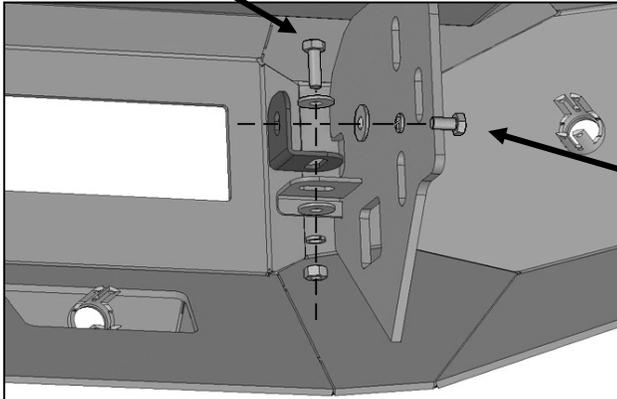


(Fig 9) Remove factory sealing washer from sensor and place (1) Foam Washer over the sensor (Inner Z-shaped sensor pictured)



(Fig 10) Insert sensors into the corresponding sensor mounts on the back of the bumper in the same order as removed (driver/left outer sensor mount illustrated)

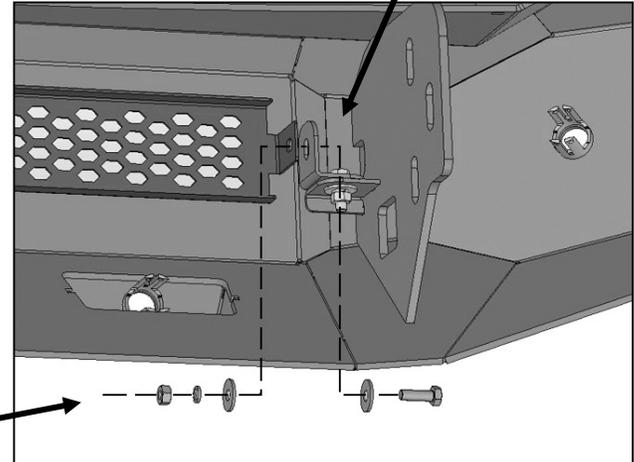
- 8mm x 25mm Hex Bolt
- (2) 8mm Flat Washers
- 8mm Lock Washer
- 8mm Hex Nut



(Fig 11) Example of center light installation

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

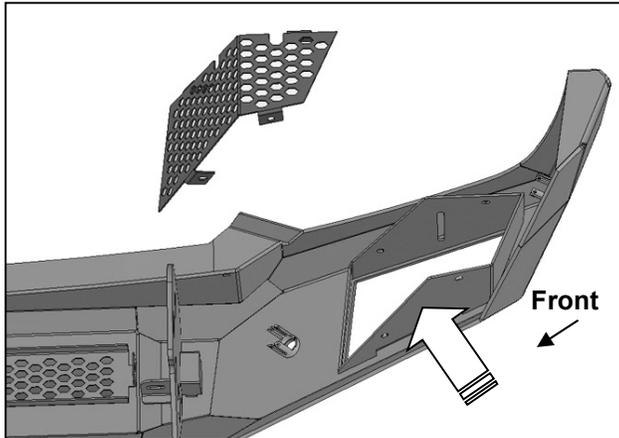
- 8mm x 25mm Hex Bolt
- (2) 8mm Flat Washers
- 8mm Lock Washer
- 8mm Hex Nut



(Fig 12) Example of Mesh Fill Panel installation

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

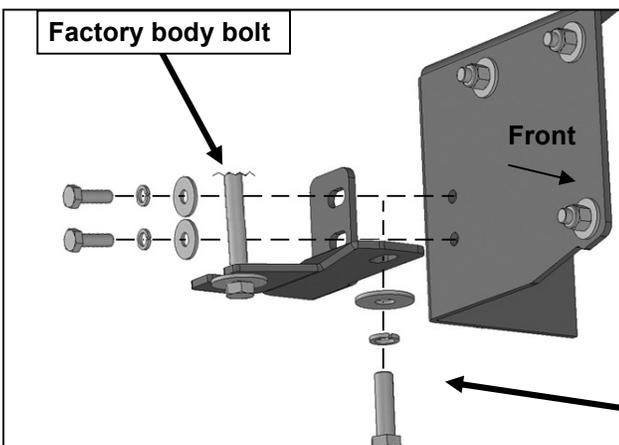
## Driver/left Side Installation Pictured



(Fig 13) Remove outer light screens, if necessary

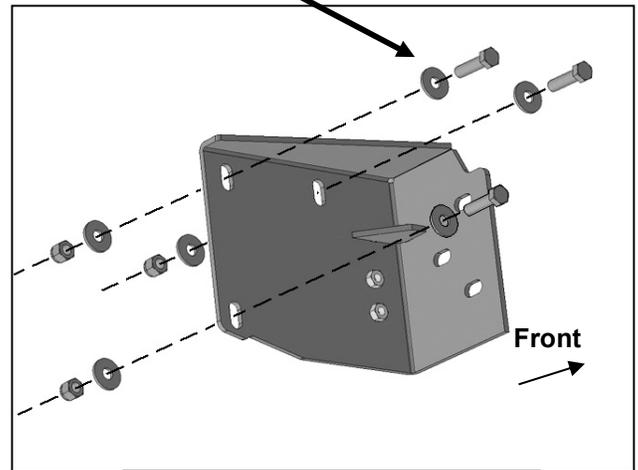


(Fig 15) Passenger/right Frame Bracket installed

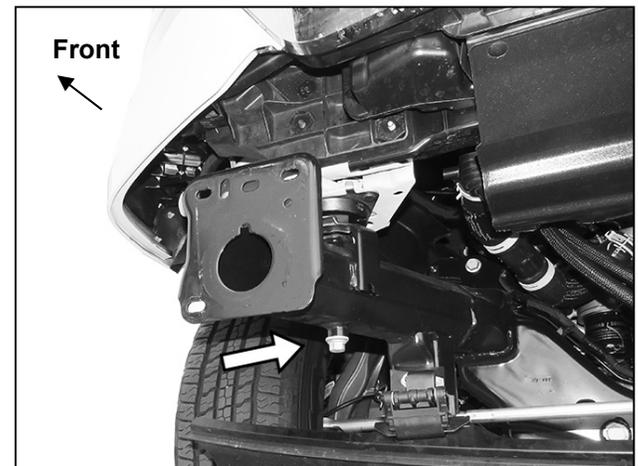


(Fig 17) Attach passenger/right Support Bracket to bottom of frame and back of Frame Bracket. Models with tow hooks, reuse factory tow hook bolt to attach Bracket to bottom of frame

- (3) 12mm x 45mm Hex Bolts
- (6) 12mm Flat Washers
- (3) 12mm Nylon Lock Nuts



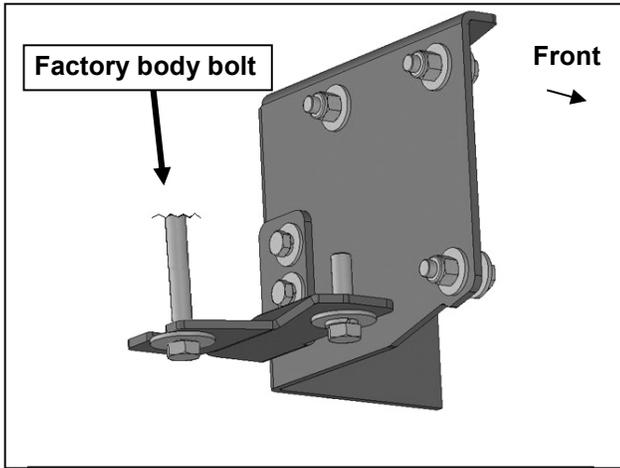
(Fig 14) Attach passenger/right Frame Bracket to end of frame



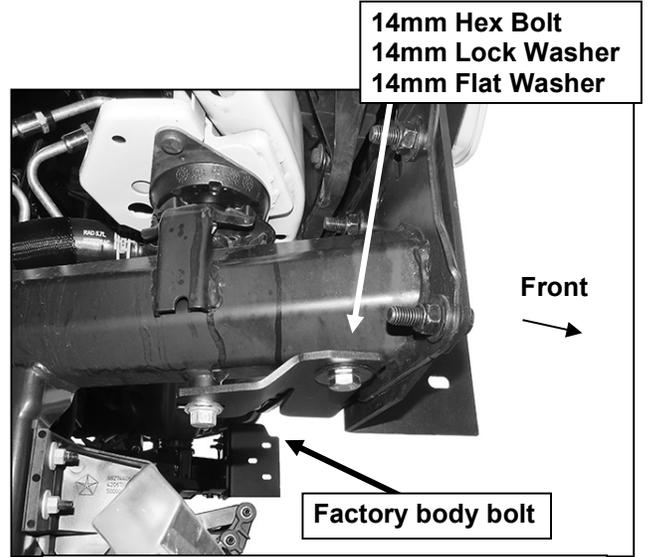
(Fig 16) Loosen body bolt (arrow). Slide passenger/right Support Bracket under bolt head. Models with tow hooks, leave rubber bushing in place on bottom of frame

- 14mm x 55mm Hex Bolt
- 14mm Lock Washer
- 14mm Flat Washer
- Or reuse factory tow hook bolt if equipped

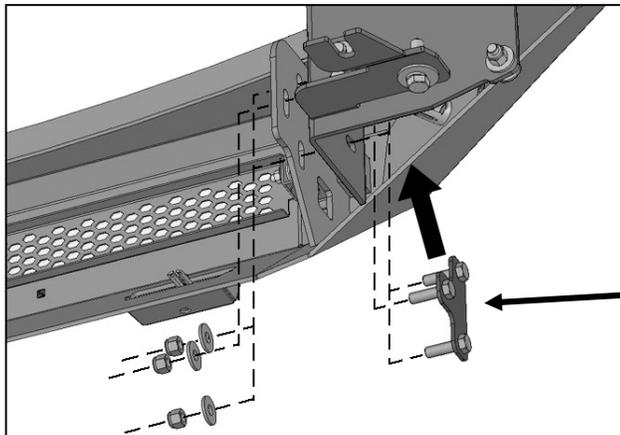
Driver/left Side Installation Pictured



(Fig 18) Passenger/right Brackets installed

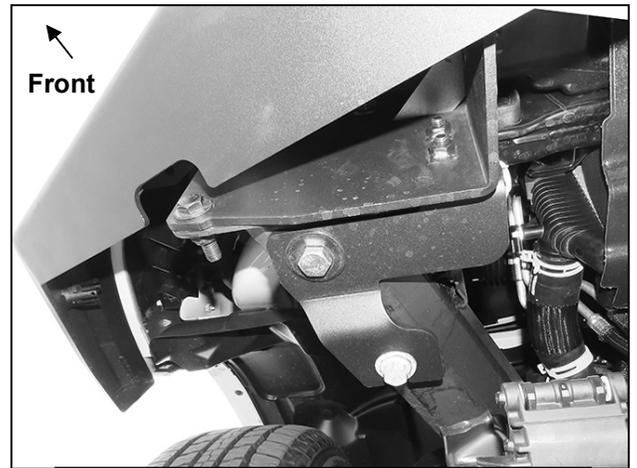


(Fig 19) Passenger/right Brackets installed

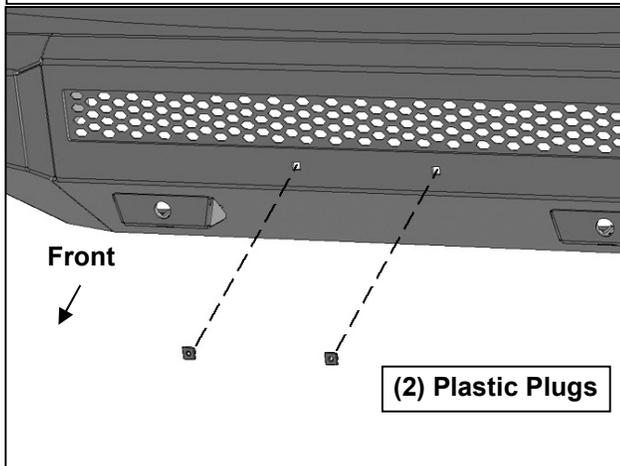


10mm Triple Bolt Plate  
(3) 10mm Flat Washers  
(3) 10mm Nylon Lock Nuts

(Fig 20) Insert 10mm Bolt Plate into back of Bumper and out through Bracket. NOTE: Bolt Plate can be installed in either direction



(Fig 21) Passenger/right side of Bumper attached to Frame and Support Brackets



(Fig 22) Push Plastic Plugs into front of Bumper for license plate