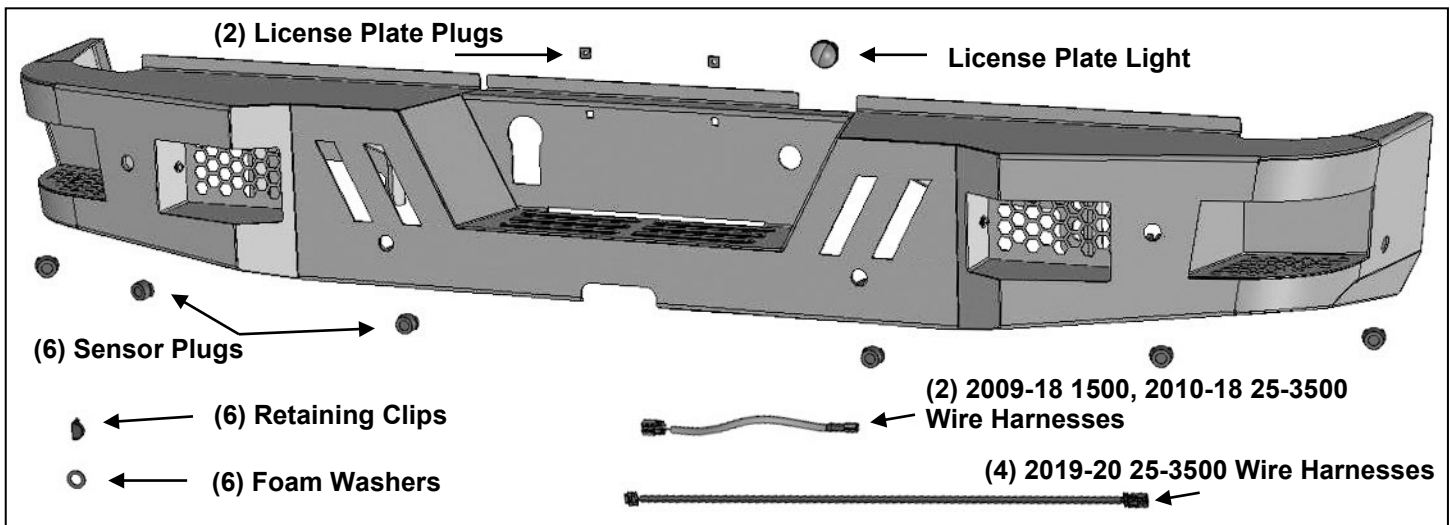


2010-2023 Ram 2500/3500 Eco Series Rear Bumper PART #DG-2963

PARTS LIST:

1	Heavy Duty Rear Bumper Assembly	16	12mm x 37mm x 3mm Flat Washers
1	Push in License Plate Light	8	12mm Nylon Lock Nuts
2	Plastic Plugs for license plate mount	4	8mm x 40mm Hex Bolts
2	Harnesses Extensions (2009-18 1500, 2010-18 2500-3500)	4	8mm x 28mm x 3mm Flat Washers
4	Harnesses Extensions (2019-23 2500-3500)	4	8mm Lock Washers
6	Sensor Retaining Clips	14	4mm x 10mm Button Head Bolts
6	15.5mm x 25mm x 2mm Foam Washers	4	4mm x 12mm x 1mm Flat Washers
6	Sensor Hole Plugs	2	4mm Lock Washers
1	Sensor Cover Kit	2	4mm Hex Nuts
8	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.

1. Start installation by unplugging all wiring harnesses leading to the bumper, (Figure 1). Move the wiring harnesses away from the bumper. Remove the license plate. Remove the (2) hex bolts located behind the plate attaching the center of the bumper to the receiver hitch, if equipped.
2. Place blocks or jack stands under the bumper to support it during bumper bolt removal. Once the bumper has been safely supported, remove the factory bumper bolts and slide the rear bumper off of the end of the frame, (Figures 2—4). **WARNING!** Assistance is required to hold the bumper in place during hardware removal and to prevent the bumper from falling. Move the bumper to a clean stable work surface.
3. Remove all sensors as equipped, (Figure 6), wiring harness and outer tow harness plug from the factory bumper. Label sensors with location for reinstallation.
4. Determine if the vehicle is equipped with sensors.

Models without bumper sensors:

- a. Select the included 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 with bumper mounted parking sensors (NOTE) Models with (4) sensors, use included Rubber Plugs to fill unused outer sensor holes:

- a. Select the outer sensor, **(Figure 6)**.
- b. Remove the silicone seal from the end of the sensor. Slide the larger Foam Sensor Seal over front of sensor, **(Figure 7)**.
- c. Insert sensor with Seal into sensor mount, **(Figure 8)**.
- d. Push Sensor Retaining Clip into sensor mount and lock into mounting holes, **(Figure 8)**.
- e. Repeat previous Steps to install remaining sensors.
- f. Attach factory wiring harness to sensors. **NOTE:** Use the included Wiring Harness Extensions as necessary to extend the reach of the harness to the sensors. **IMPORTANT:** kit includes **(2) 2009-18 1500 harnesses and (4) 2019-20 25-3500 harnesses**, use correct harness as needed.

Models with TPMS (tire pressure monitoring system).

- a. Remove the sensor from the back of the bumper, **(Figure 9)**. **NOTE:** It may be necessary to partially disassemble the factory bumper to remove the sensor.
 - b. Attach the sensor to tabs on back of bumper with included (2) 4mm Button Head Screws, (4) 4mm Flat Washers, (2) 4mm Lock Washers and (2) 4mm Hex Nuts, **(Figure 10)**. Do Not Overtighten 4mm hardware or damage to sensor could result.
 - c. Once installed, plug wiring harness into TPMS sensor.
5. Remove screens in light housings for more room around lights as needed, **(Figure 11)**. **NOTE:** Lights available separately.
 6. With assistance, position the Bumper Assembly up to the bumper brackets on the end of the frame, **(Figure 12)**. Temporarily support the weight of the Bumper Assembly. **WARNING:** To avoid possible injury or damage to the vehicle, do not proceed until the Bumper is fully and safely supported.
 7. Line up the (2) outer holes in the passenger/right frame mounting bracket with the (2) holes in the plate on the back of the Bumper. Attach the Bumper to the frame bracket with (2) 12mm Hex Bolts, (4) 12mm Flat Washers and (2) 12mm Nylon Lock Nuts, **(Figures 12 & 13)**. Leave hardware loose at this time. Repeat to attach the driver side of the Bumper to the frame bracket.
 8. Next, line up the (2) inner holes on the passenger/right frame bracket with the mounting plate on the Bumper. Select the correct installation. **NOTE:** Depending on model year, the frame bracket may be equipped with outer mounting holes only. Adjust installation accordingly, **(Figures 2 & 3)**.

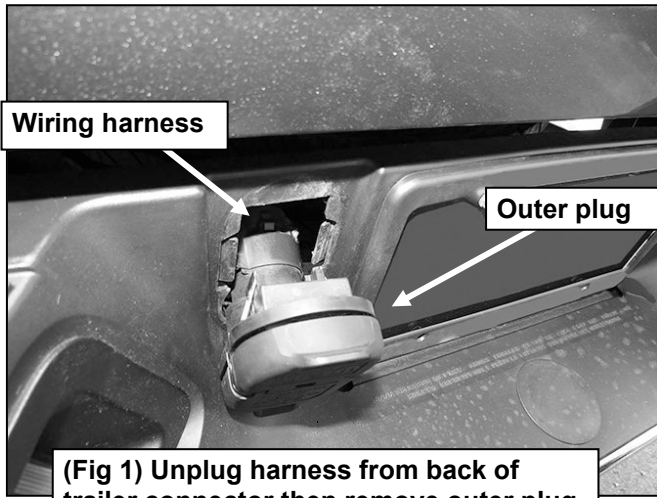
Models with 8mm hex nuts welded onto the back of the frame bracket:

- a. Use (2) 8mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers to attach the passenger/right side of the Bumper to the frame bracket, **(Figure 12)**. Repeat this Step to attach the driver/left side of the Bumper to the frame bracket. Do not fully tighten hardware.

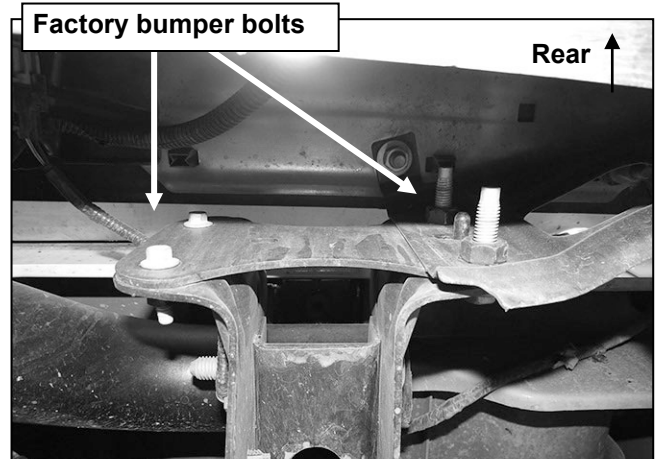
Models with open holes in frame bracket:

- b. Use (2) 12mm Hex Bolts, (4) 12mm Flat Washers and (2) 12mm Nylon Lock Nuts to attach the passenger/right side of the Bumper to the frame bracket, **(Figure 12)**. Repeat this Step to attach the driver/left side of the Bumper to the frame bracket. Leave hardware loose.
9. Slowly open the tailgate and check for clearance. Level and adjust the Bumper and fully tighten all hardware.
 10. Snap the plug for the trailer harness into the opening in the HD Bumper, **(Figure 13)**. If necessary, use a flat blade screwdriver to carefully pry the metal clips out to grab the edge of the openings in the Bumper. Reattach the wiring harness to the back of the plugs.
 11. Select the included (2) push-in plugs to attach the license plate to the Bumper, **(Figure 13)**.
 12. Select the included Universal License Plate Light. Insert the Light into the mounting hole in the bumper, **(Figure 13)**. Connect the wire harness to the License Plate Light. Seal off any open wiring connection.
 13. Use the included Wire Ties to secure the wiring harnesses to the bumper and frame.
 14. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

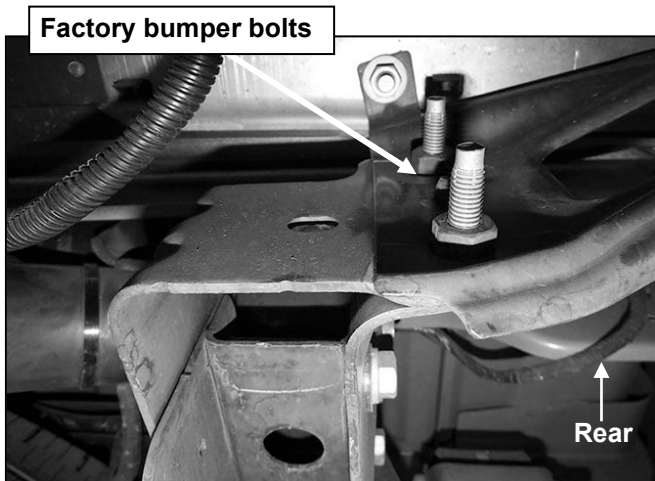
To protect your investment, Do not use any type of polish or wax that may contain abrasives that could damage the finish. Mild soap may be used to clean the Heavy Duty Bumper assembly.



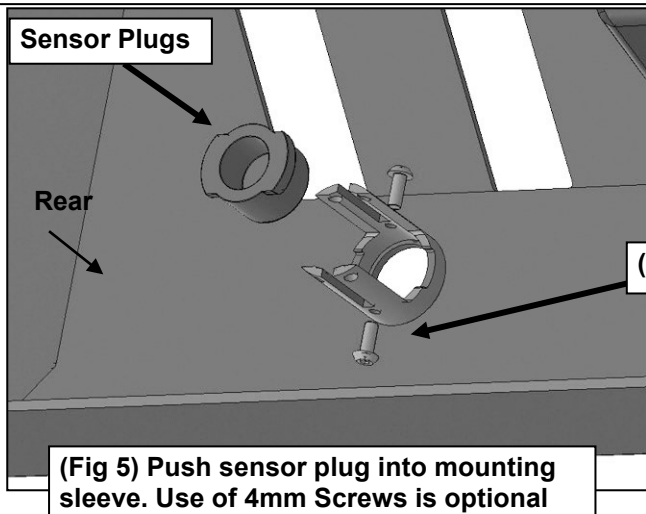
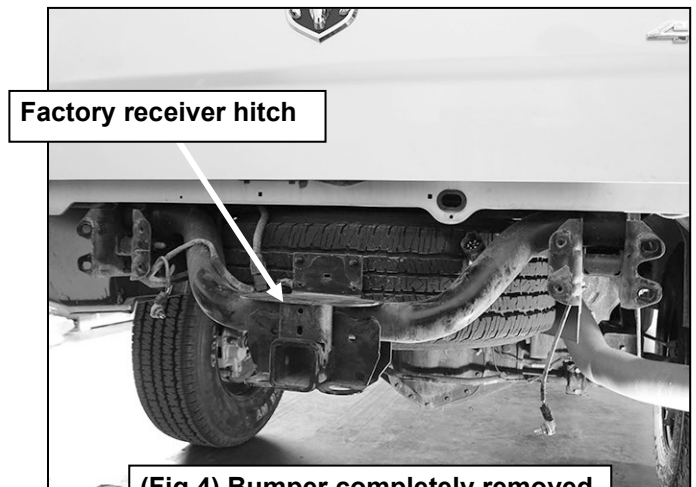
(Fig 1) Unplug harness from back of trailer connector then remove outer plug



(Fig 2) Example of factory bumper bracket with 8mm hex nuts (left) welded onto back of bracket

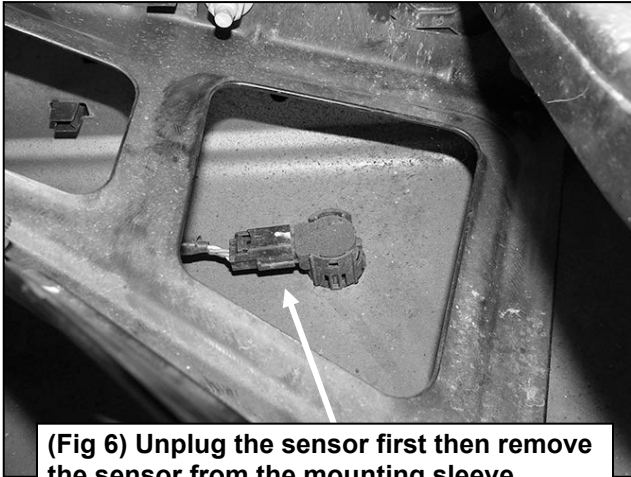


(Fig 3) Example of factory bumper bracket with (2) hex bolts only (right) pictured from below bumper



(Fig 5) Push sensor plug into mounting sleeve. Use of 4mm Screws is optional

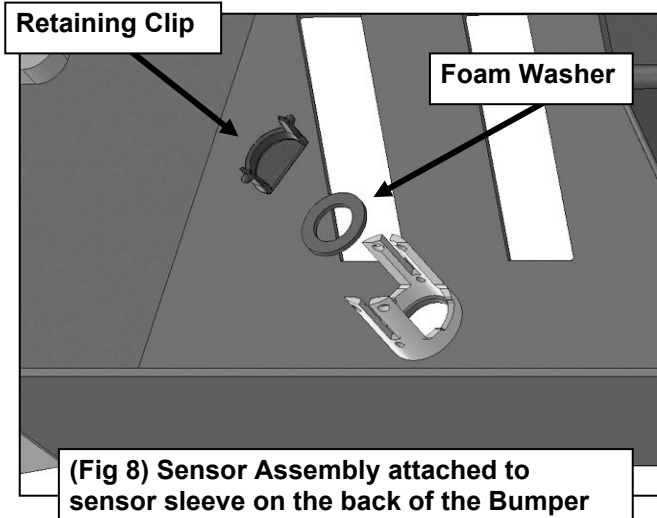
WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or it may fall.



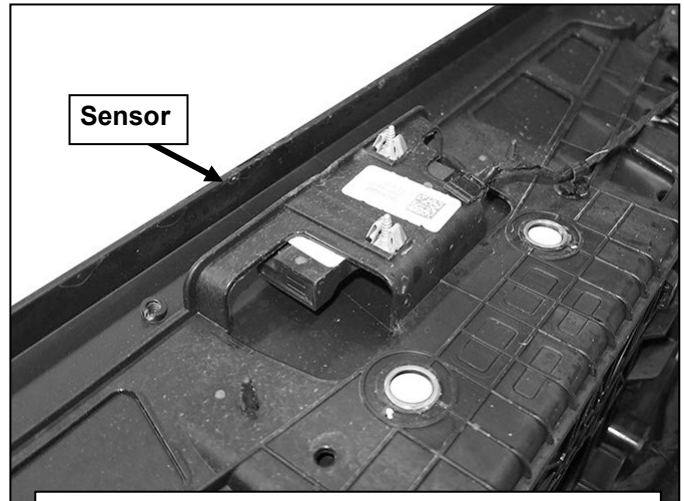
(Fig 6) Unplug the sensor first then remove the sensor from the mounting sleeve



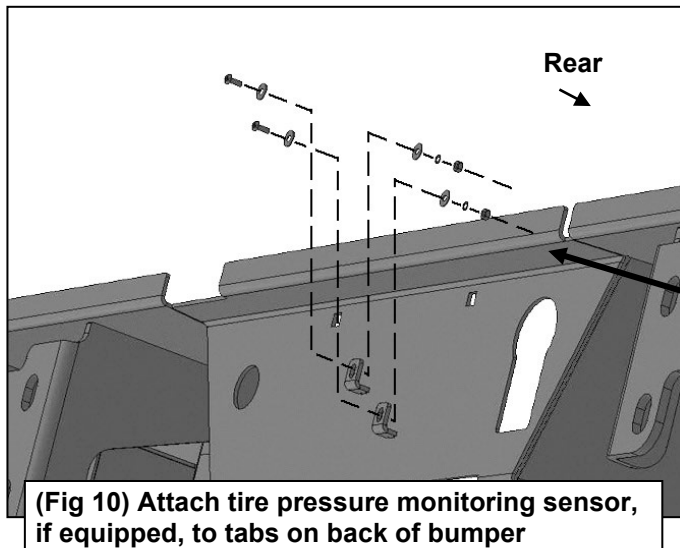
(Fig 7) Remove the seal from the end of the sensor. Install larger Foam Washer (Fig 8)



(Fig 8) Sensor Assembly attached to sensor sleeve on the back of the Bumper



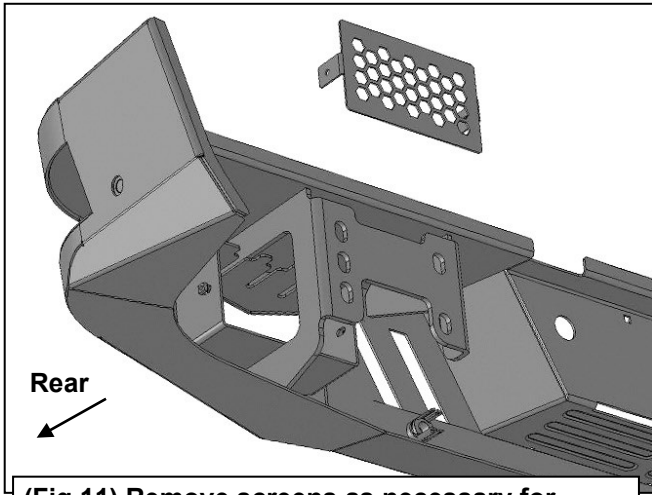
(Fig 9) Remove tire pressure monitoring sensor (TPMS) from back of bumper, if equipped



(Fig 10) Attach tire pressure monitoring sensor, if equipped, to tabs on back of bumper

- (2) 4mm Screws
- (4) 4mm Flat Washers
- (2) 4mm Lock Washers
- (2) 4mm Hex Nuts

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



(Fig 11) Remove screens as necessary for additional clearance around or access to lights

- Outer mounting hardware**
 (2) 12mm Hex Bolts
 (4) 12mm Flat Washers
 (2) 12mm Nylon Lock Nuts

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

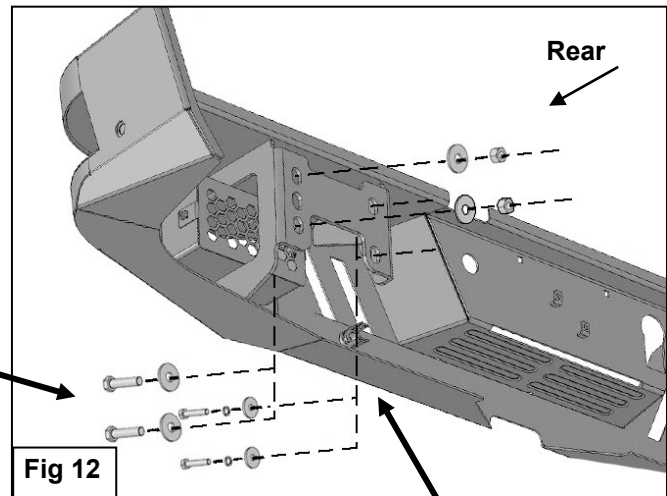
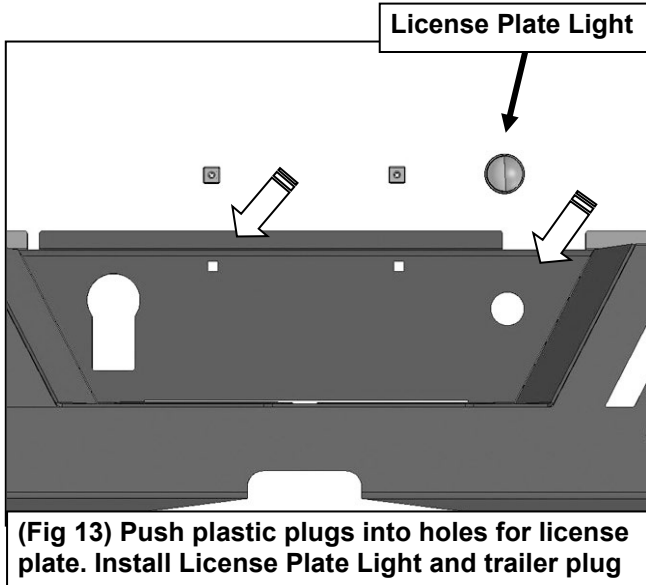


Fig 12

- On inner side of bracket, use:**
 (2) 12mm Hex Bolts
 (4) 12mm Flat Washers
 (2) 12mm Nylon Lock Nuts
 or
 (2) 8mm Hex Bolts
 (2) 8mm Lock Washers
 (2) 8mm Flat Washers



(Fig 13) Push plastic plugs into holes for license plate. Install License Plate Light and trailer plug



Complete Installation