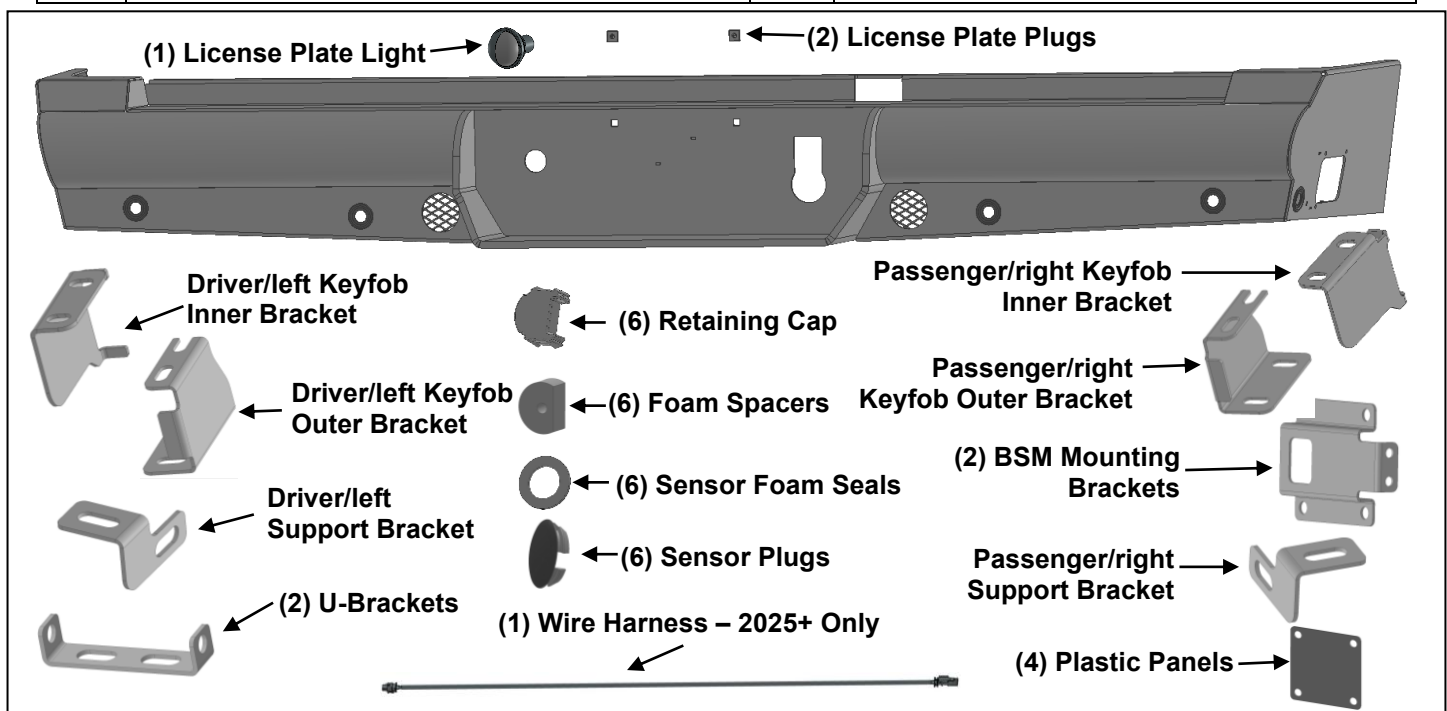


**HD REPLACEMENT REAR BUMPER
2019-26 RAM 1500 (EXCLUDES "CLASSIC")**

PARTS LIST:

1	HD Rear Bumper Assembly	1	License Plate Light
1	Driver/left Keyfob Inner Bracket	2	Plastic Plugs for license plate mount
1	Driver/left Keyfob Outer Bracket	4	12-1.75mm x 35mm Hex Bolts
1	Passenger/right Keyfob Inner Bracket	8	12mm x 37mm x 3mm Flat Washers
1	Passenger/right Keyfob Outer Bracket	4	12mm Nylon Lock Nuts
2	BSM Mounting Brackets	24	6 x 20mm Hex Bolts
2	U-Brackets	22	6mm x 12mm x 1.6mm Flat Washers
4	Plastic Panels	32	6mm x 18mm x 1.6mm Flat Washers
1	Driver/left Support Bracket	30	6mm Lock Washers
1	Passenger/right Support Bracket	30	6mm Hex Nuts
1	Sensor Cover Kit	2	4mm x 15mm Button Head Bolts
6	Sensor Hole Plugs	4	4mm x 12mm x 1mm Flat Washers
6	15.5mm x 25mm x 2mm Foam Seals	2	4mm Lock Washers
6	20mm x 10mm Foam Spacers	2	4mm Hex Nuts
6	Retaining Caps	1	2.5mm Wrench
1	Wire Harness - 2025+ Model Years Only	12	Self-Tapping Plastic Screws
4	Foam Pads		



PROCEDURE:

REMOVE CONTENTS FROM PACKAGING. SOME PARTS ARE SMALL AND WILL BE HIDDEN IN WRAPPINGS. VERIFY ALL PARTS ARE PRESENT AND DO NOT DISCARD PACKAGING UNTIL INSTALLATION IS COMPLETE. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. BUMPER IS HEAVY, ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE. ALLOW EXHAUST TO COMPLETELY COOL BEFORE STARTING INSTALLATION.

1. Start installation by unplugging the wiring harness leading to the rear bumper, **(Figure 1)**. Move harness away from the bumper.
2. Remove the license plate. Remove the (2) hex bolts behind rear license plate, **(Figure 2)**.

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3. Place blocks or jack stands under the bumper to support it during bumper bolt removal. Once the bumper has been safely supported, remove the (4) factory hex nuts, (2 per side), and slide the rear bumper off of the end of the frame, **(Figures 3 & 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.
4. Disassemble the bumper to remove the wiring harness, towing plug, parking sensors, BSM (Blind Spot Monitor) sensor, keyfob sensor, and tire pressure monitoring sensor (TPMS) from the back of the bumper if equipped, **(Figure 5)**. **NOTE:** Label sensors with location for proper reinstallation. OE license plate lights will not be re-used.
5. Determine if the vehicle is equipped with bumper mounted parking sensors. **NOTE:** Depending on tow package, it may be necessary or easier to install all sensors, (if equipped).

Models without bumper sensors:

- a. Select the included (6) Sensor Plugs, **(Figure 6)**.
- b. Push the Sensor Plugs through the sensor sleeve holes from the front of the bumper, **(Figure 6)**.

Models with parking sensors:

- a. Remove the silicone seal from the end of the sensor. Slide the included larger Sensor Foam Seal over front of sensor, **(Figure 7)**.
 - b. Insert sensor with Foam Seal into sensor sleeve, **(Figure 8)**.
 - c. Place Foam Spacer over end of sensor. Push Sensor Retaining Cap into sensor sleeve and lock into mounting holes, **(Figure 8)**.
 - d. Repeat previous Steps to install remaining parking sensors.
6. **Models with TPMS (tire pressure monitoring system) only; otherwise skip to step 7.**
 - a. Remove the sensor from the back of the bumper, **(Figure 9)**. **NOTE:** It may be necessary to partially disassemble the plastic bumper panel to remove the sensor.
 - b. Attach the sensor to tabs on back of bumper with included (2) 4mm x 15mm Button Head Screws, (4) 4mm Flat Washers, (2) 4mm Lock Washers and (2) 4mm Hex Nuts, **(Figures 10 & 11)**. Do Not Overtighten 4mm hardware or damage to sensor could result.
 7. Position the Plastic Panel over the holes in the sides of the bumper and secure in place with (3) 6mm Flat Washers, (3) 6mm Lock Washers, and (3) 6mm Hex Nuts, **(Figure 12)**. Check that all gaps are filled.
 8. **2025+ Models with keyfob proximity sensor only; otherwise skip to step 9:**
 - a. Starting with the Driver/left side brackets, position the keyfob sensor between the Inner and Outer Keyfob Bracket forming a clamshell around the sensor. Secure Brackets with (2) 6mm x 20mm Hex Bolts, (4) 6mm Flat Washers, (2) 6mm Lock Washers, and (2) 6mm Hex Nuts. Add foam pads as required for spacers and adjust until properly secured, **(Figure 13)**. If sensor is still loose, secure with sip ties to prevent rattling. Set Keyfob sensor assembly to side.
 9. **2025+ Models with Blind Spot Monitor; otherwise skip to step 10:**
 - a. Using the Driver/left side brackets, position the BSM (Blind Spot Monitor) sensor between the BSM Mounting Bracket and Plastic Panel. Secure Brackets with (3) 6mm x 20mm Hex Bolts, (6) 6mm Flat Washers, (3) 6mm Lock Washers, and (3) 6mm Hex Nuts, **(Figure 14)**. Position sensor so plug is centered in the bucket opening. Set this BSM sensor assembly to the side. **NOTE:** The top forward hole is left empty. See **Fig. 14** for location.
 - b. Secure U-Bracket to the bumper mounting tabs using (2) 6mm x 20mm Hex Bolts, (4) 6mm Flat Washers, (2) 6mm Lock Washers, and (2) 6mm Hex Nuts, **(Figure 15)**.
 - c. Position the previously assembled keyfob sensor assembly onto the rearmost bumper mounting tab and secure with (1) 6mm x 20mm Hex Bolts, (2) 6mm Flat Washers, (1) 6mm Lock Washers, and (1) 6mm Hex Nuts. Next place the Support Bracket underneath the

HD REPLACEMENT REAR BUMPER 2019-26 RAM 1500 (EXCLUDES "CLASSIC")

forward bumper mounting tab and secure it to the bumper mounting tab and the front slot of the keyfob sensor assembly using (1) 6mm x 20mm Hex Bolts, (2) 6mm Flat Washers, (1) 6mm Lock Washers, and (1) 6mm Hex Nuts, **(Figure 16, 19 & 20)**.

- d. Grab previously assembled BSM and secure the BSM sensor assembly against the U-Bracket and Support Bracket using (3) 6mm x 20mm Hex Bolts, (6) 6mm Flat Washers, (3) 6mm Lock Washers, and (3) 6mm Hex Nuts, **(Figure 17, 18, 19 & 20)**.
10. Repeat **Steps 8-9** to the Passenger/right side if applicable.
11. Attach factory wiring harness to Bumper, **(Figure 21)**. Plug harness into sensors as equipped. **IMPORTANT:** Run the wiring harness above the Brackets to clear the exhaust tips. It may be necessary to remove a portion of the outer wiring cover on the harness to allow the harness to reach the sensors. A parking sensor wire extension has been provided for 2025+ models.
12. With assistance, position the Bumper up to the bumper brackets on the ends of the frame. 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. Line up the (2) mounting holes in the back of the driver side of the bumper with the brackets on the end of the frame. Attach the Bumper to the frame with the included (2) 12mm Hex Bolts, (4) 12mm Flat Washers and (2) 12mm Nylon Lock Nuts, **(Figures 22 & 23)**. Leave hardware loose at this time. Repeat to attach the passenger/right side of the Bumper. Slowly open the tail gate and check for clearance. Level and adjust the Bumper and tighten all hardware.
13. Select the License plate light, **(Figure 24)**. Insert the light into the hole in the Bumper. Connect the wire on the Light to the license plate light harness by splicing into driver side wires. Tape-off passenger side plug to keep debris out.
14. Insert the trailer plug into the opening in the Bumper if equipped. Insert the included (2) push-in plugs to attach the license plate to the Bumper, **(Figures 24 & 25)**. Reuse factory hardware to attach license plate to plastic plugs in Bumper.
15. Plug in the bumper wiring harness to the main wiring harness on vehicle.
16. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

To protect your investment, wax this product after installing. Regular waxing is recommended to add a protective layer over the finish. 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 wiring harness leading to bumper



(Fig 2) Remove license plate to access and remove (2) hex bolts (arrows)

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Driver/left side installation pictured



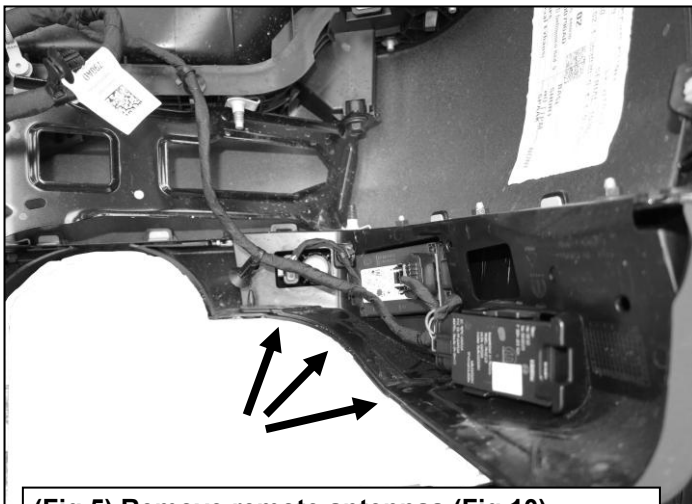
(Fig 3) Remove hex nuts to remove bumper (arrow)



(Fig 4) Factory bumper assembly removed

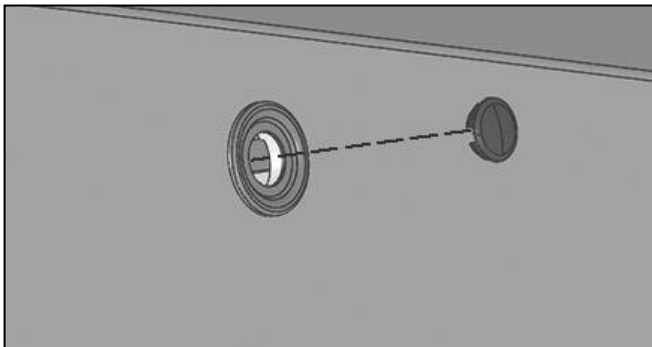
WARNING! Do not remove bumper bolts unless the bumper is properly supported on blocks or stands or the bumper may fall.

Models with dual exhaust, allow exhaust to completely cool before starting installation

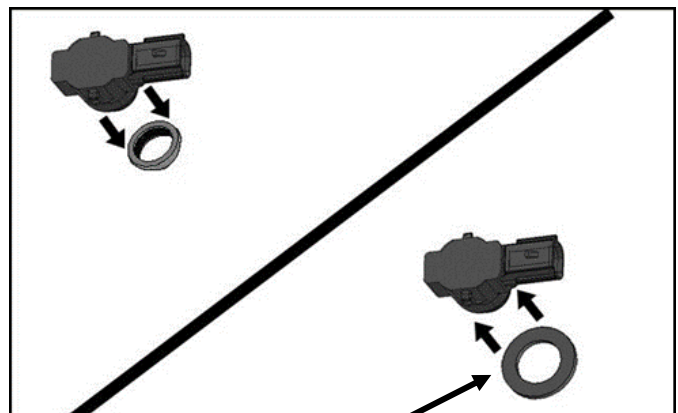


(Fig 5) Remove remote antennas (Fig 10), sensors and wiring harness as equipped

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



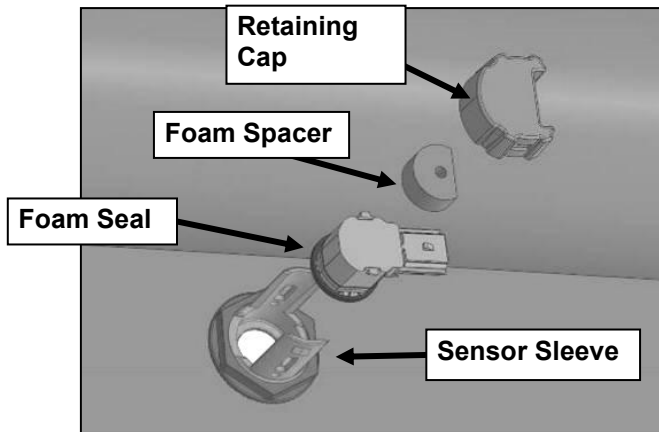
(Fig 6) Models without front sensors, push Sensor Plug into sensor sleeve



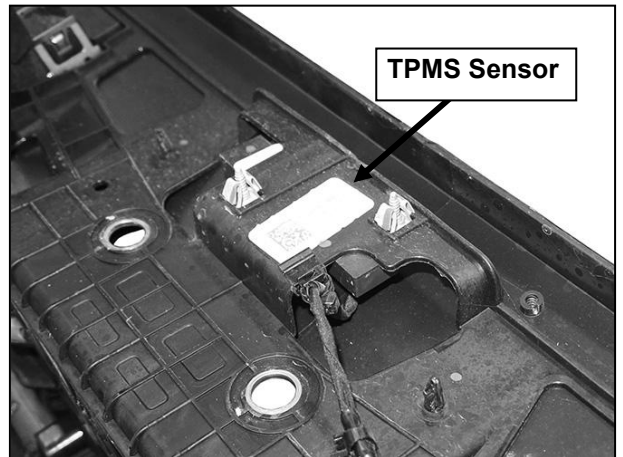
(Fig 7) Remove silicone seal from sensor. Slide large Foam Seal over end of sensor (arrow)

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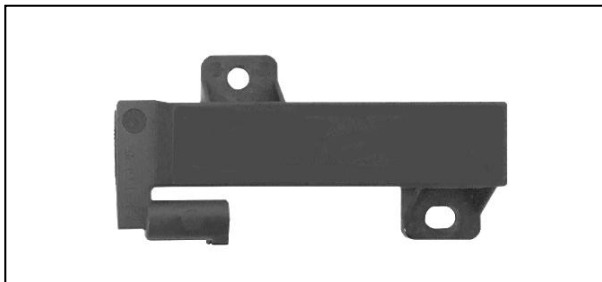
Driver/left side installation pictured



(Fig 8) Slide sensor into sleeve, place Foam Spacer behind sensor and use Retaining Cap to lock sensor in sleeve.

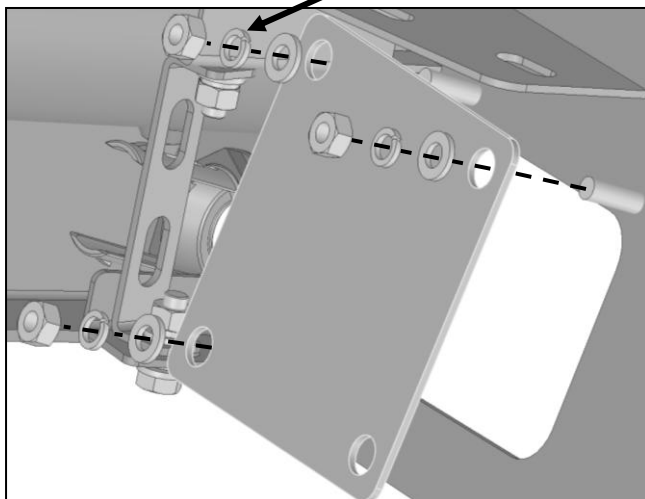


(Fig 9) Remove tire pressure monitoring sensor from back of bumper, if equipped



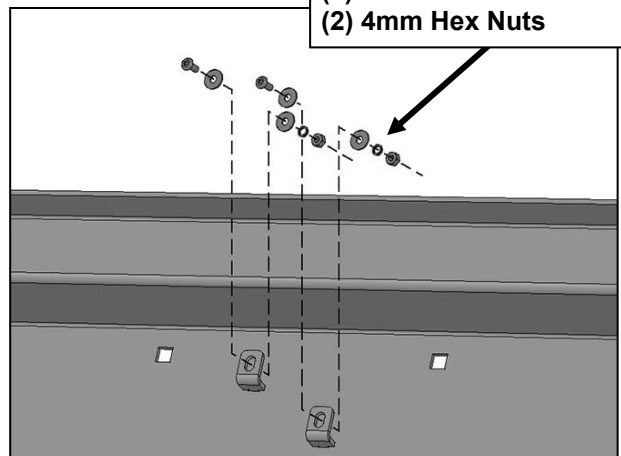
(Fig 10) Tire pressure monitoring sensor (TPMS)

- (3) 6mm Flat Washers**
- (3) 6mm Lock Washers**
- (3) 6mm Hex Nuts**



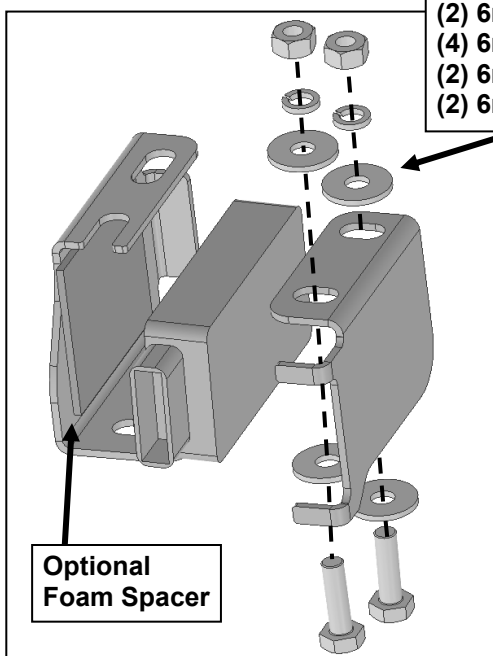
(Fig 12) Attach first Plastic Panel to the bumper

- (2) 4mm x 15mm Screws**
- (4) 4mm Flat Washers**
- (2) 4mm Lock Washers**
- (2) 4mm Hex Nuts**



(Fig 11) Attach TPMS sensor to back of Bumper

Driver/left side installation pictured

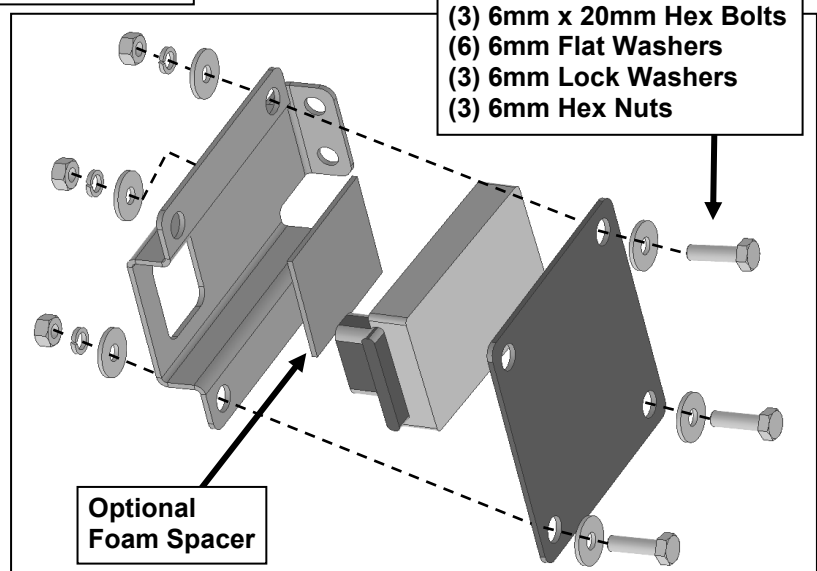


- (2) 6mm x 20mm Hex Bolts
- (4) 6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts

NOTE: Reference Figure 19 and 20 for model of completed sensor assembly installation.

Optional Foam Spacer

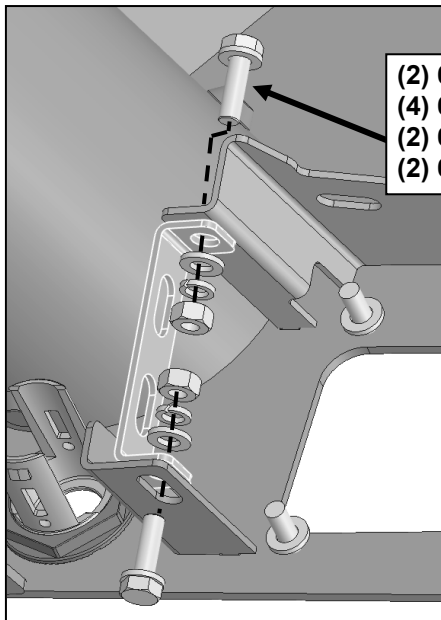
(Fig 13) Secure keyfob sensor between Inner and Outer Keyfob Brackets



- (3) 6mm x 20mm Hex Bolts
- (6) 6mm Flat Washers
- (3) 6mm Lock Washers
- (3) 6mm Hex Nuts

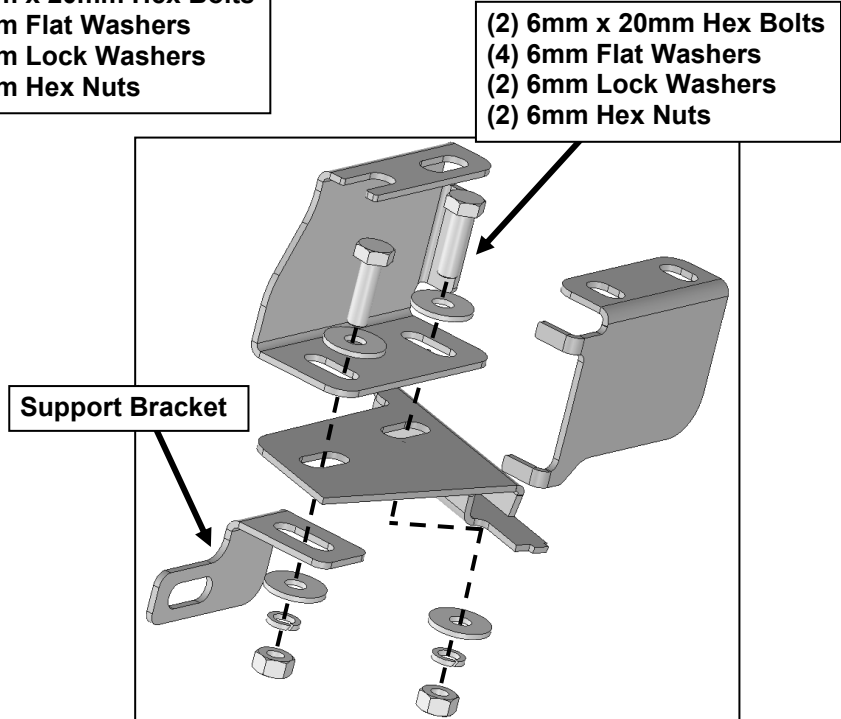
Optional Foam Spacer

(Fig 14) Secure the blind spot monitor sensor between the BSM Mounting Bracket and the second Plastic Panel. NOTE: The top-forward hole remains unused until Figure 18.



- (2) 6mm x 20mm Hex Bolts
- (4) 6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts

(Fig 15) Secure U-Bracket to bumper mounting tabs



- (2) 6mm x 20mm Hex Bolts
- (4) 6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts

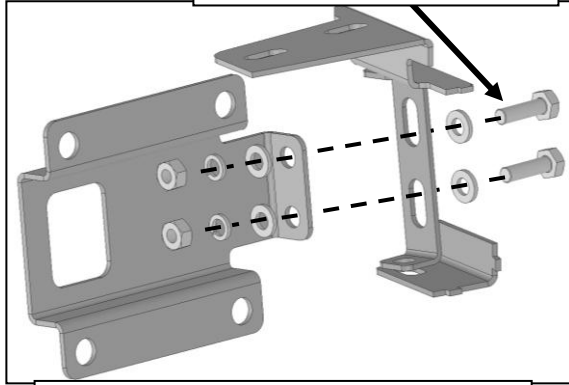
Support Bracket

(Fig 16) Secure the keyfob sensor assembly to the bumper mounting tab. Attach Support Bracket using the same hardware. NOTE: Keyfob Sensor not shown for clarity.

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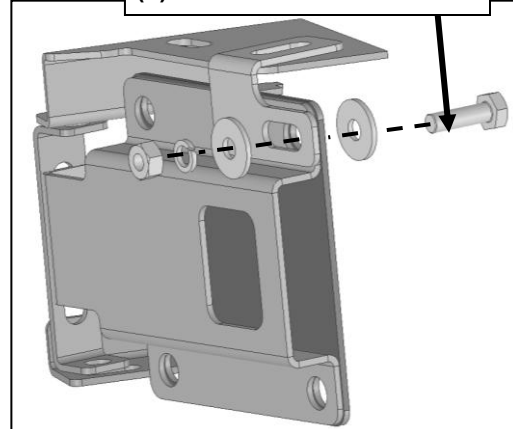
Driver/left side installation pictured

- (2) 6mm x 20mm Hex Bolts
- (4) 6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts

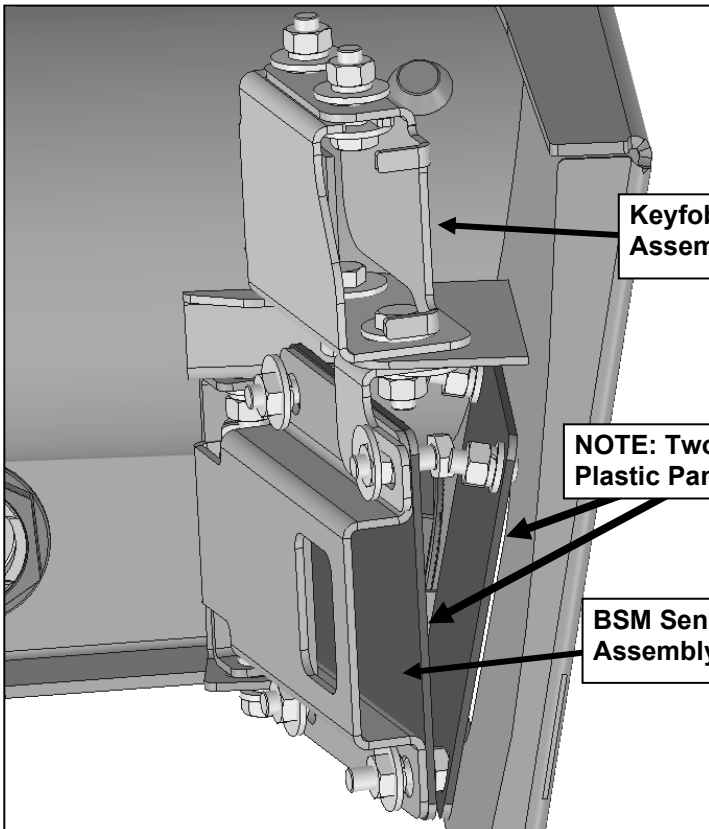


(Fig 17) Secure BSM assembly to the U-Bracket. NOTE: Plastic Panel and BSM Sensor not shown for clarity.

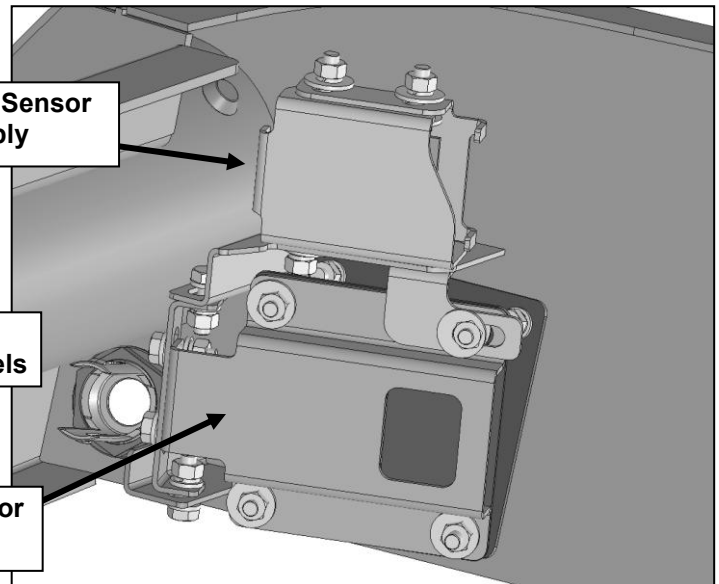
- (2) 6mm x 20mm Hex Bolts
- (4) 6mm Flat Washers
- (2) 6mm Lock Washers
- (2) 6mm Hex Nuts



(Fig 18) Secure BSM assembly to the Support Bracket. NOTE: BSM Sensor not shown for clarity.

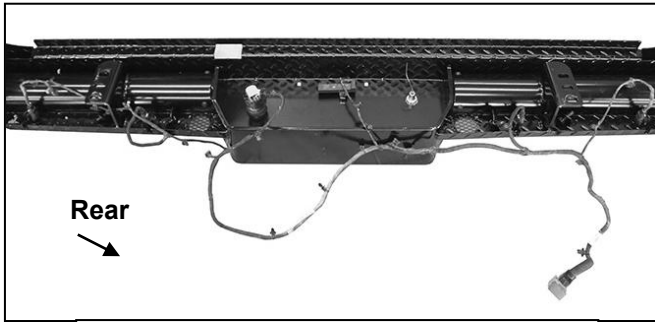


(Fig 19) Completed installation of the keyfob and BSM sensor. NOTE: Sensors have been removed for clarity.



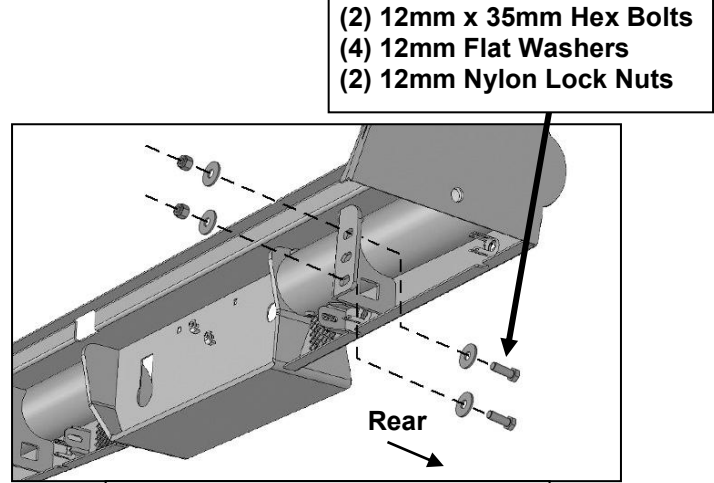
(Fig 20) Completed installation of the keyfob and BSM sensor. NOTE: Sensors have been removed for clarity.

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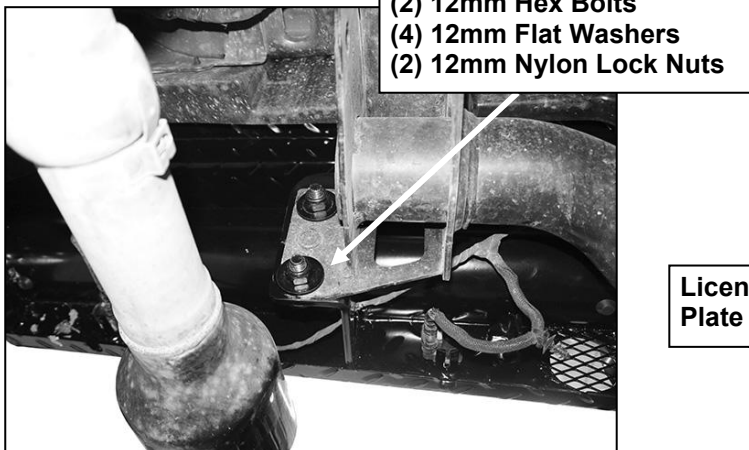


(Fig 21) Attach factory wire harness to Bumper and plug into sensors

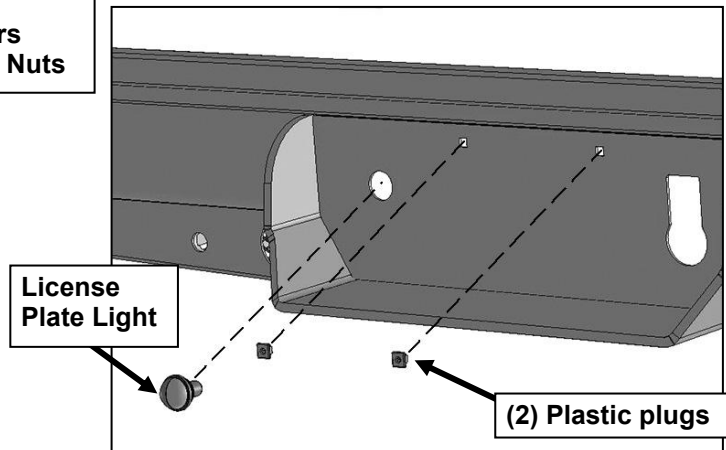
WARNING! Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.



(Fig 22) Driver/left side illustrated



(Fig 23) Bumper attached to end of frame (passenger/right side pictured from behind Bumper)



(Fig 24) Push Plastic Plugs for license plate and tow plug into place. Carefully bend locking tab on tow plug outward if necessary to lock in place



(Fig 25) Attach License Plate Light wire to wiring harness



Completed Installation