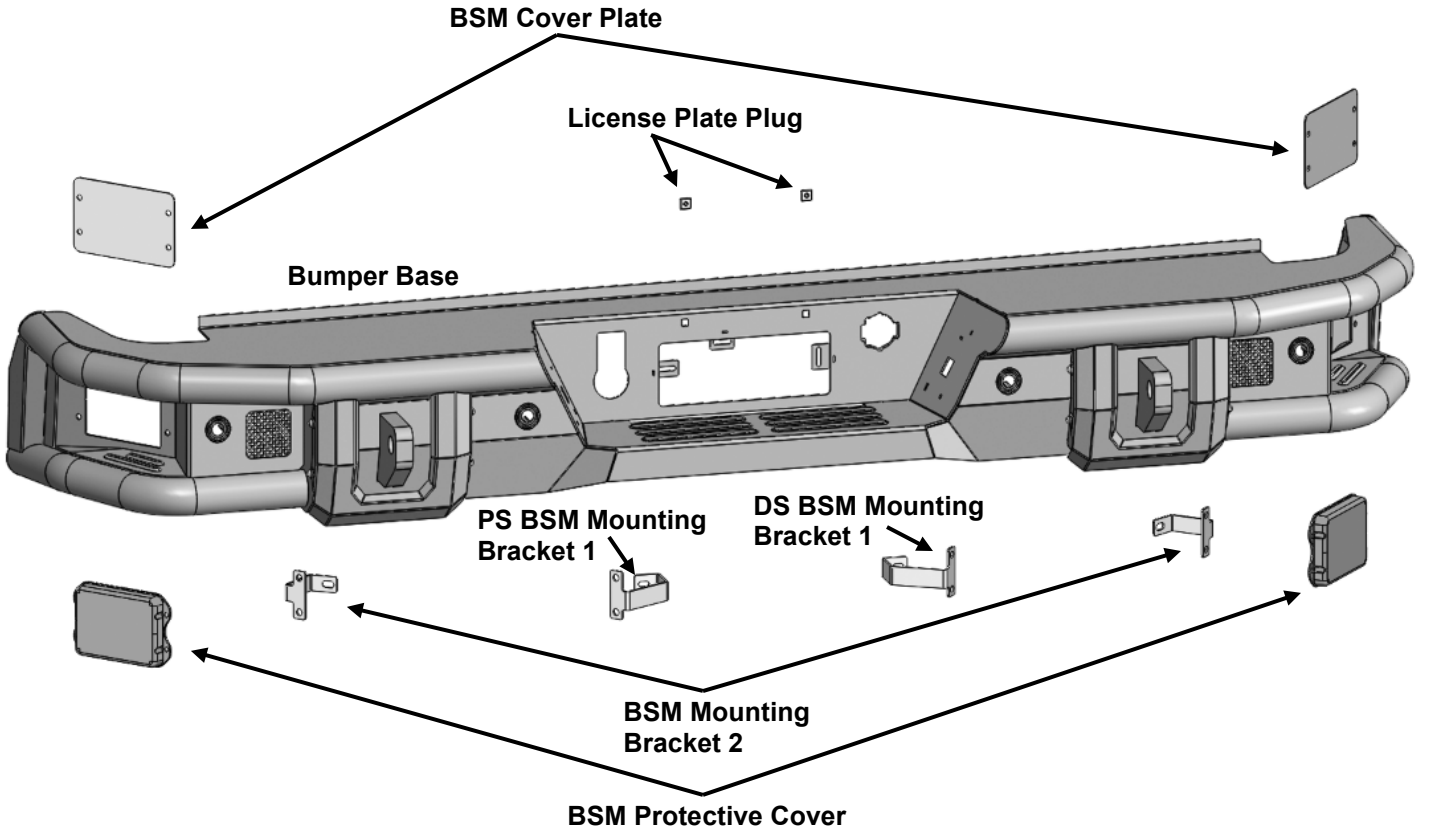
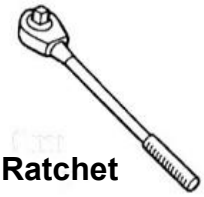
Installation Instructions

PARTS LIST:

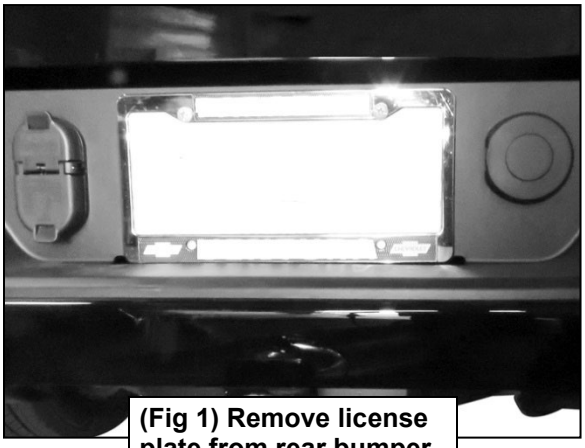
Qty	Item Description	Qty	Item Description
1	Bumper base	2	Mesh Mounting Plate
2	Plastic Plugs for License Plate	2	Light Grid Mounting Plate 2
10	Zip Ties	2	Light Grid Mounting Plate 1
6	Anti-Collision Rubber Stoppers	4	12mm Plastic Retainers
2	Blind Spot Monitor Protective Cover	12	6mm Lock Washers
3	Parking Sensor Extension Harness	16	6mm x 18mm x 1.6mm Flat Washers
1	DS/Left BSM Mounting Bracket 1	8	12mm x 37mm x 3mm Flat Washers
1	PS/Right BSM Mounting Bracket 1	8	6-1.00mm x 20mm Button Head Allen Bolt
2	BSM Cover Plate	4	12mm Hex Lock Nuts
2	BSM Mounting Bracket 2	12	6mm Hex Nuts
4	15.5mm x 25mm OD x 2mm Foam Washer	4	6mm Hex Flange Nuts
8	4mm x 15mm Flat Head Self Tapping Screw	4	6-1.00mm x 20mm Hex Bolts
4	20mm x 10mm Foam Spacers	4	12-1.75mm x 40mm Hex Bolts
4	Plastic Plug (Without sensors) (PP)	2	6-1.00mm x 20mm Combo Bolts
4	Retaining Cap (PP)	1	4mm Allen Wrench



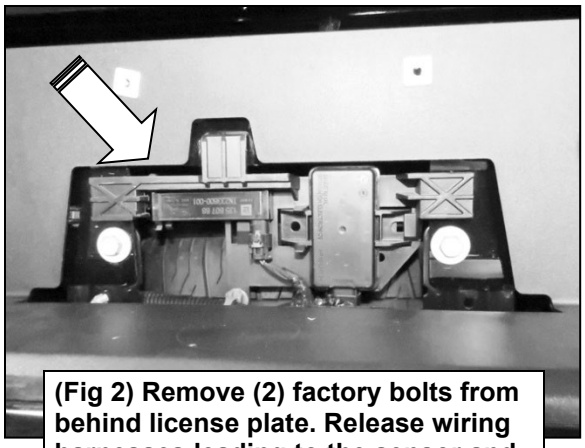
TOOLS REQUIRED

 Ratchet	Socket	Extensions	Wrench

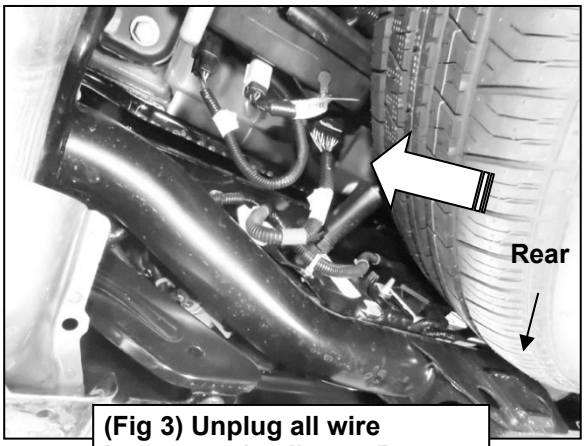
1 Follow (Fig 1 – 9) to remove hardware and bumper to prepare for HD4 Rear Bumper installation.



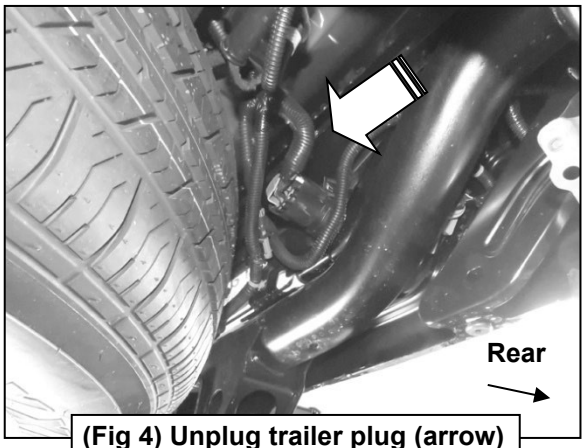
(Fig 1) Remove license plate from rear bumper



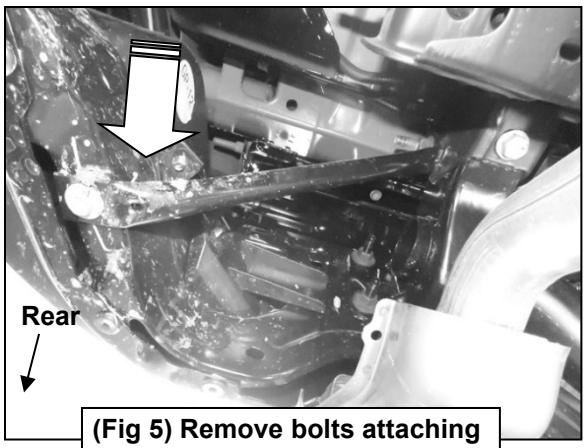
(Fig 2) Remove (2) factory bolts from behind license plate. Release wiring harnesses leading to the sensor and antenna if equipped (arrow)



(Fig 3) Unplug all wire harnesses leading to Bumper

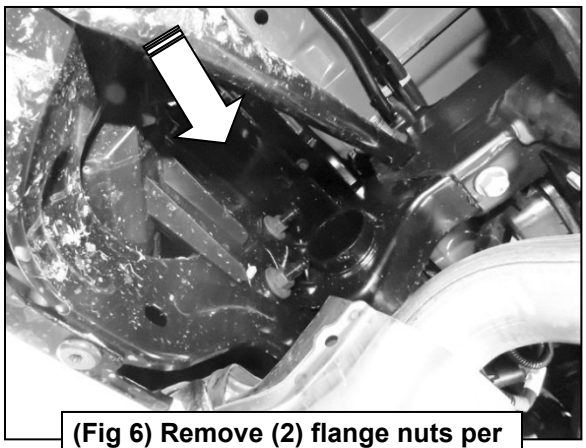


(Fig 4) Unplug trailer plug (arrow)

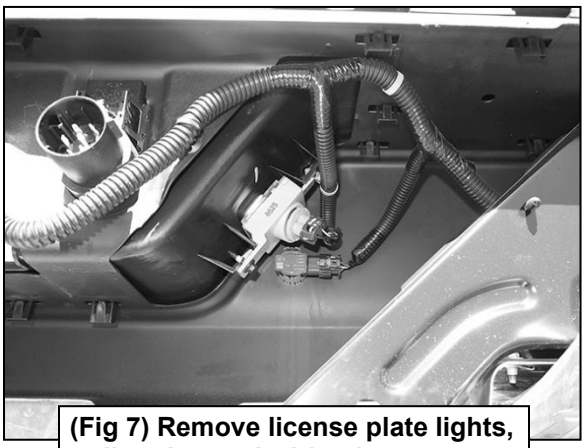


(Fig 5) Remove bolts attaching outer bumper supports to bottom of bumper (arrow)

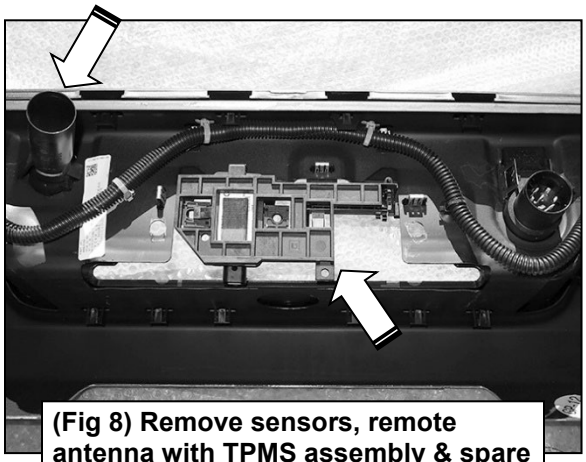
WARNING! Before removing hardware, fully support the weight of the bumper with blocks or stands to prevent injury or damage to the vehicle.



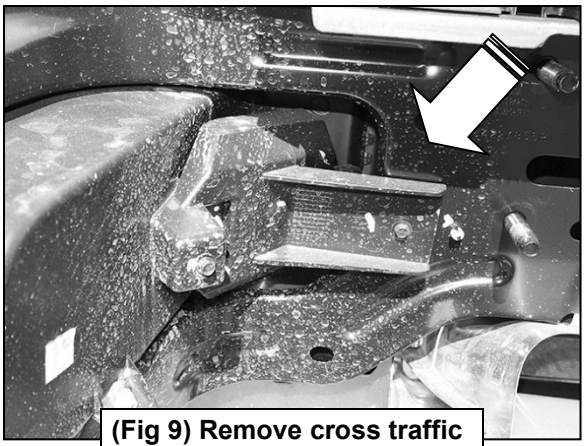
(Fig 6) Remove (2) flange nuts per side attaching bumper to frame



(Fig 7) Remove license plate lights, trailer plug and wiring harness

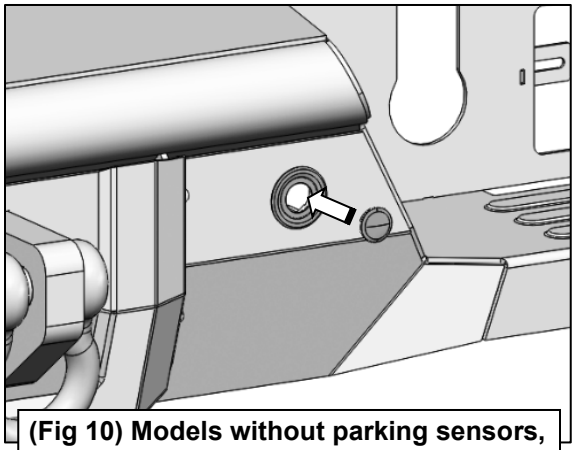


(Fig 8) Remove sensors, remote antenna with TPMS assembly & spare tire access tube from back of bumper. Also remove wire harness.

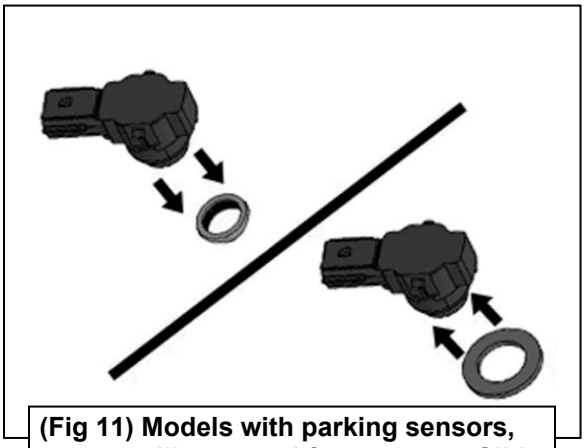


(Fig 9) Remove cross traffic sensors if equipped (arrow)

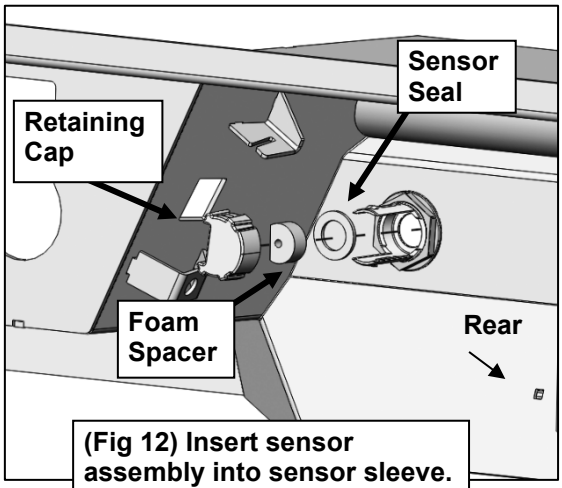
2 Follow (Fig 10 – 14) to attach Parking Sensors and TPMS Assembly to HD4 Rear Bumper. Ensure hardware is hand tightened.



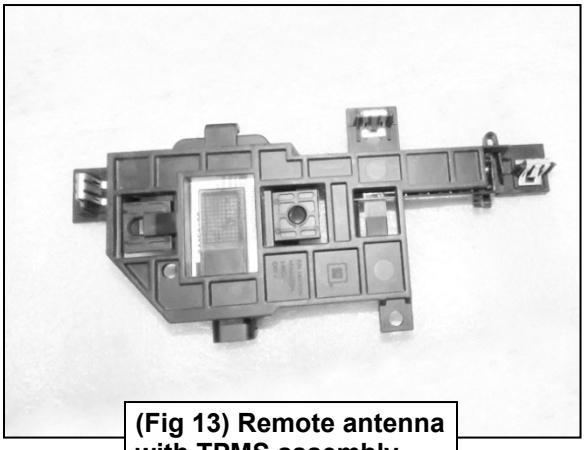
(Fig 10) Models without parking sensors, insert Plastic Plugs into sensor mounts



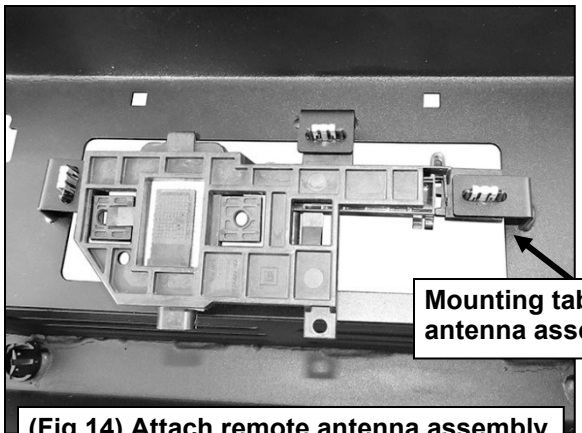
(Fig 11) Models with parking sensors, remove silicone seal from sensor. Slide Foam Seal over end of sensor (arrow)



(Fig 12) Insert sensor assembly into sensor sleeve. Secure with Retaining Clip



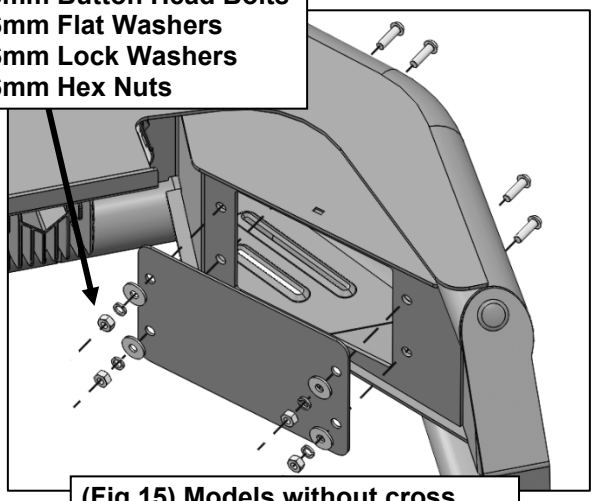
(Fig 13) Remote antenna with TPMS assembly



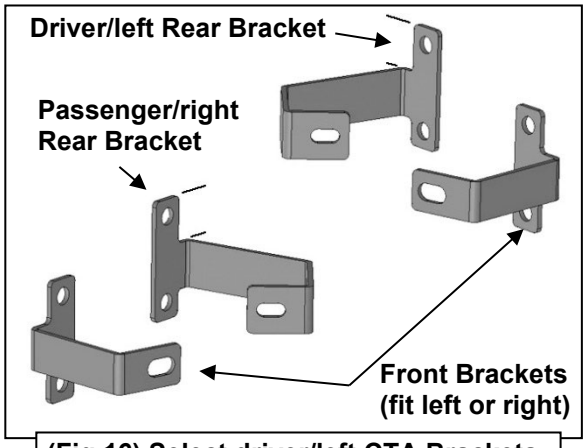
(Fig 14) Attach remote antenna assembly (Fig 13), to slots in mounting tabs

3 Follow (Fig 15 – 19) to attach Cross Traffic Alert Sensors to HD4 Rear Bumper. Ensure hardware is hand tightened.

(4) 6mm Button Head Bolts
(4) 6mm Flat Washers
(4) 6mm Lock Washers
(4) 6mm Hex Nuts

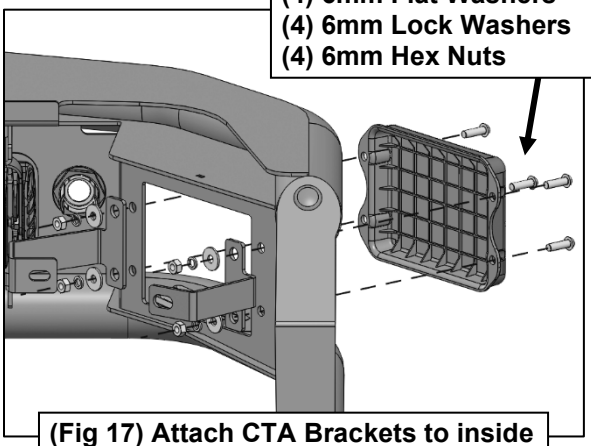


(Fig 15) Models without cross traffic alert sensors (CTA), attach Block Off Plates to Bumper

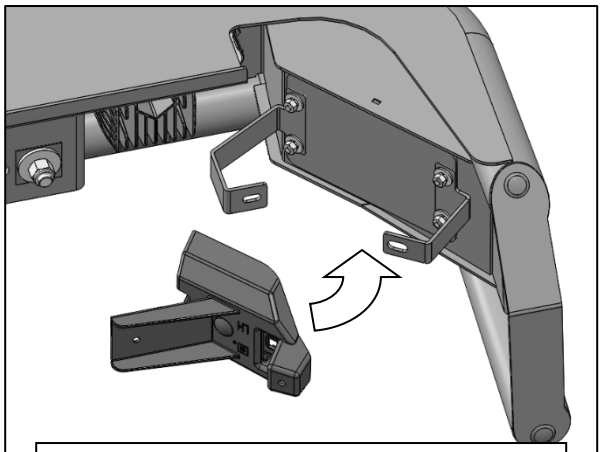


(Fig 16) Select driver/left CTA Brackets

(4) 6mm Button Head Bolts
(4) 6mm Flat Washers
(4) 6mm Lock Washers
(4) 6mm Hex Nuts

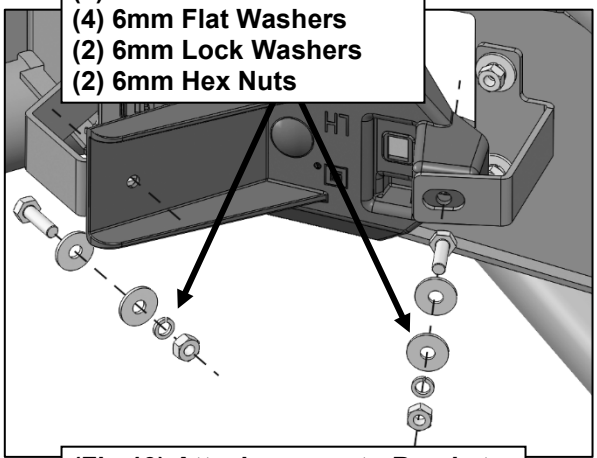


(Fig 17) Attach CTA Brackets to inside of Bumper and Outer Plastic Cover



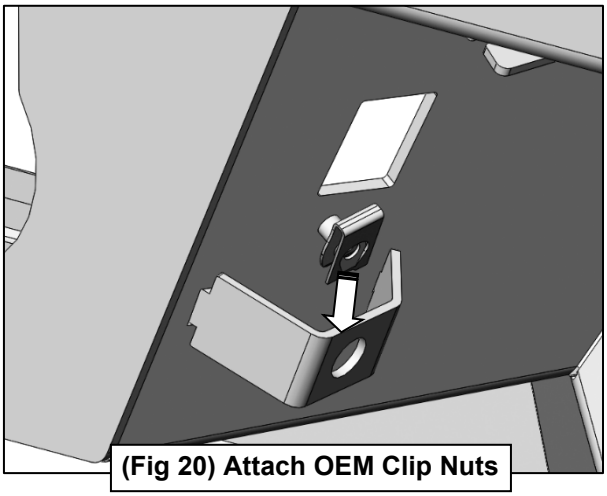
(Fig 18) Slide CTA sensor into Brackets

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

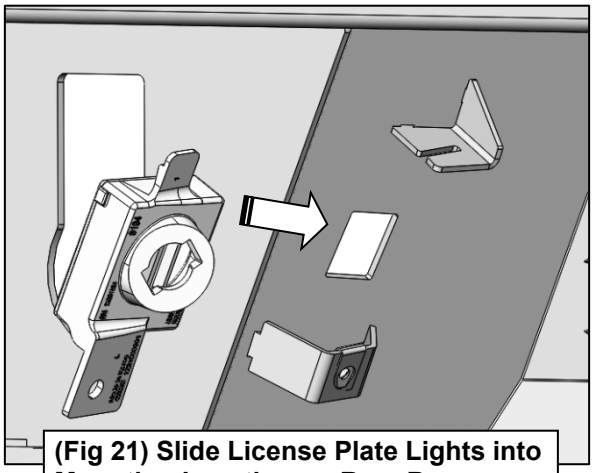


(Fig 19) Attach sensor to Brackets

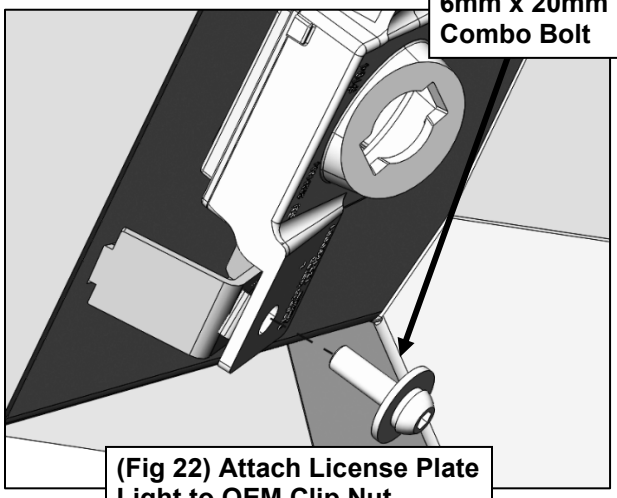
4 Follow (Fig 20 – 24) to attach License Plate Lights, Trailer Plug, Tire Access Plug, and License Plate. Ensure hardware is hand tightened.



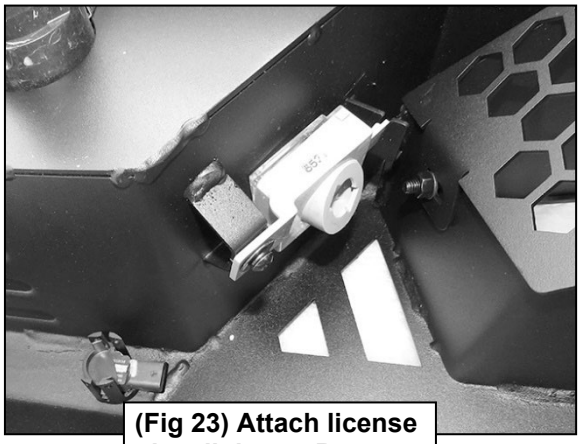
(Fig 20) Attach OEM Clip Nuts



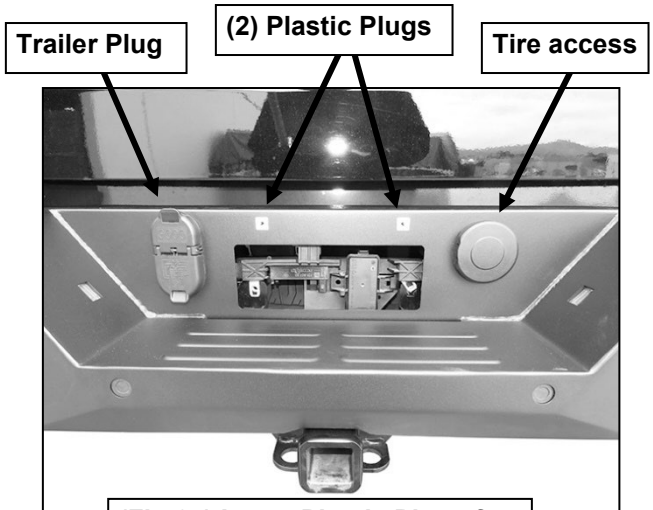
(Fig 21) Slide License Plate Lights into Mounting Location on Rear Bumper



(Fig 22) Attach License Plate Light to OEM Clip Nut

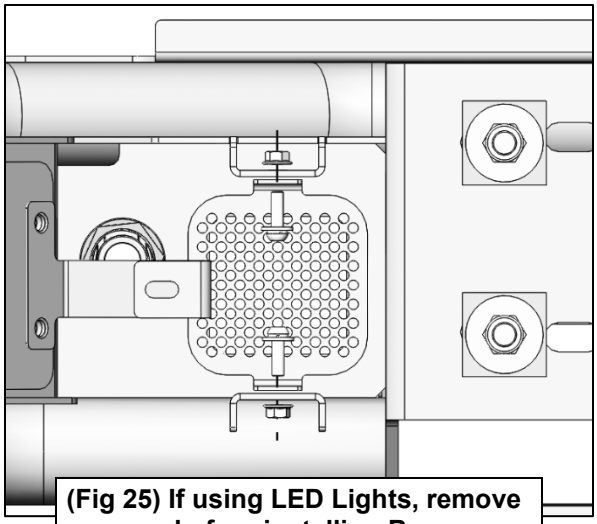


(Fig 23) Attach license plate lights to Bumper



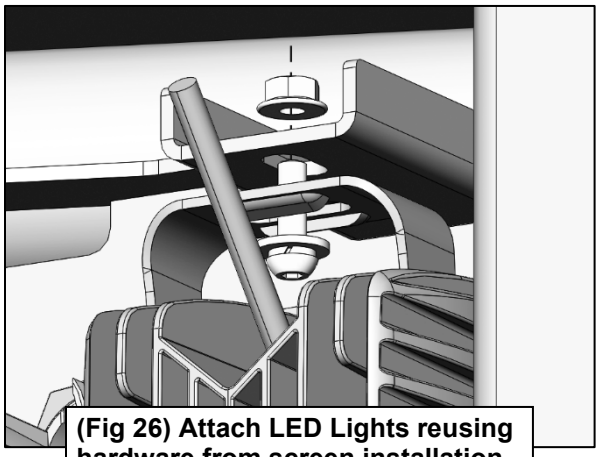
(Fig 24) Insert Plastic Plugs for license plate, and install Trailer Plug and Tire Access Plug

5 Follow (Fig 25 – 29) to attach LED Lights, then attach Bumper to vehicle. Hand tighten hardware at this point.

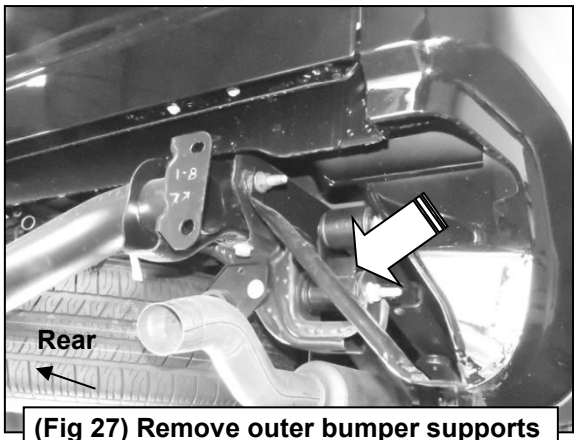


(Fig 25) If using LED Lights, remove screens before installing Bumper

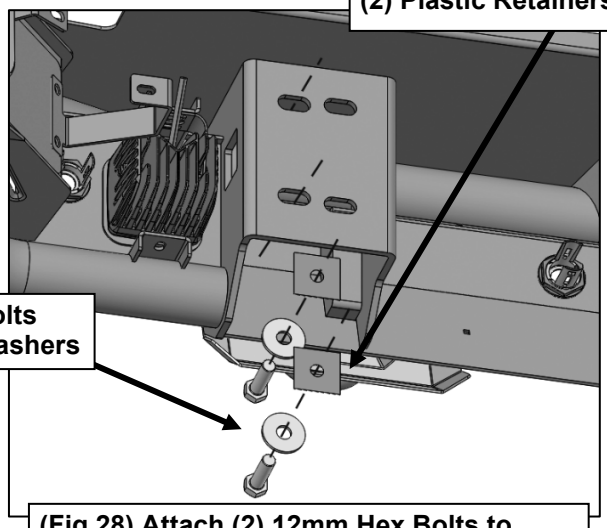
WARNING! Fully support the weight of the bumper with blocks or stands to prevent injury or damage to the vehicle.



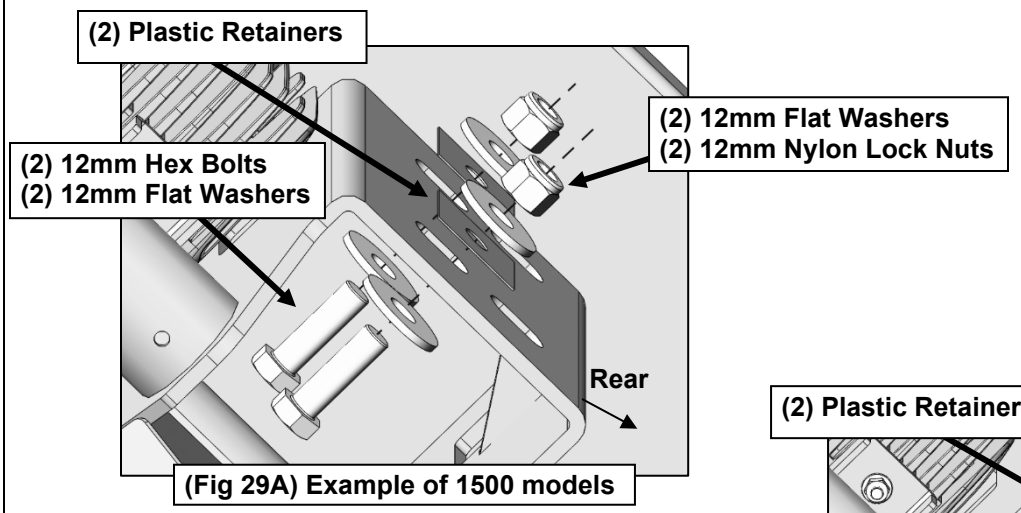
(Fig 26) Attach LED Lights reusing hardware from screen installation



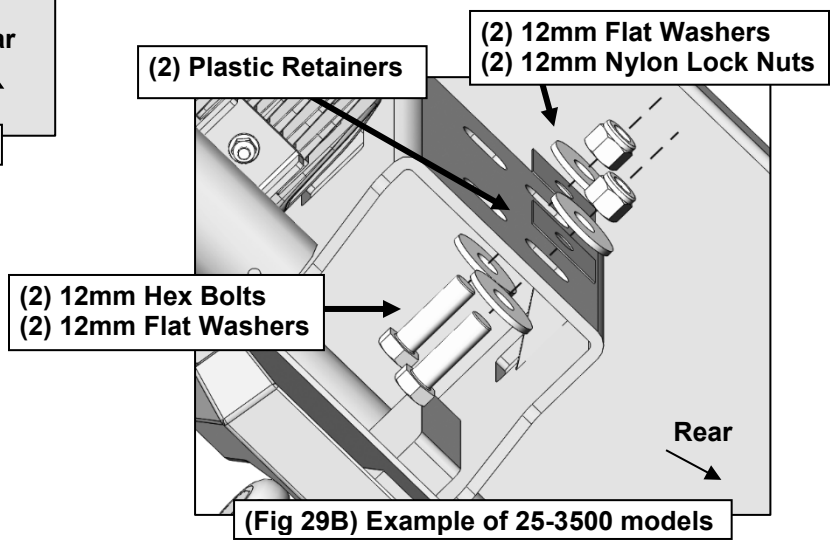
(Fig 27) Remove outer bumper supports from both sides of frame (arrow)



(Fig 28) Attach (2) 12mm Hex Bolts to Bumper. For 1500 models, use outer slots. For 2500-3500 models, use inner slots.



(Fig 29A) Example of 1500 models



(Fig 29B) Example of 25-3500 models

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Ensure Bumper is level, then tighten all hardware and double check all wiring connections. At this point, installation is complete. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

Completed Installation