

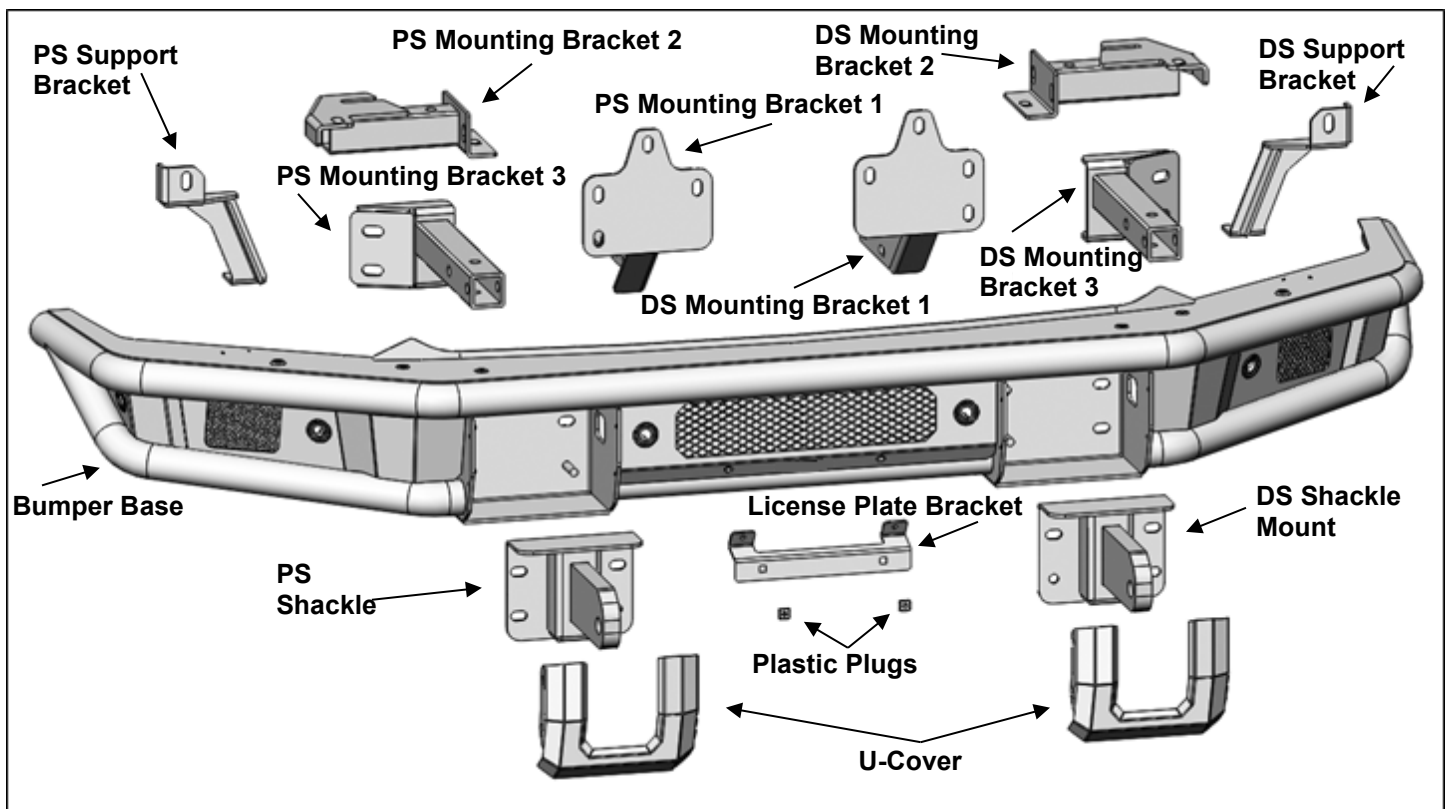
INSTALLATION INSTRUCTIONS

**HD4 LD Front Bumper
2019-24 Dodge Ram 1500
R182146/R182147**

Installation Instructions

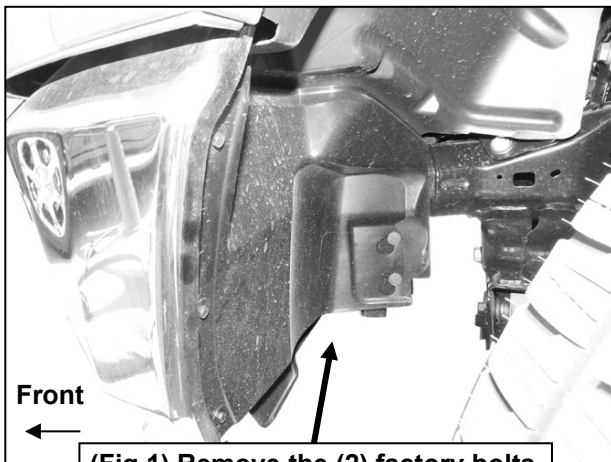
PARTS LIST:

Qty	Item Description	Qty	Item Description
1	Bumper Base	6	D19 Crash Proof Adhesive Pellets
1	DS/left Shackle Mount	12	ST4_15 Flat Head Self Tapping Screw
1	PS/right Shackle Mount	6	Plastic Plug (Without sensors) (PP)
1	DS/left Support Bracket	6	20mm x 10mm Foam Washer
1	PS/right Support Bracket	6	Retaining Cap (PP)
1	License Plate Bracket	6	15.5mm x 25mm x 2mm Foam Washer
2	U-Shaped Cover plate	1	Allen Wrench S=4
1	DS/left Bracket 1	14	6mm x 20mm Combo Bolts
1	PS/right Bracket 1	4	6mm Hex Flange Nuts
1	DS/Left fill in Mesh Panel	2	12-1.75mm x 40mm Hex Bolt
1	PS/Right fill in Mesh Panel	2	12-1.75mm x 50mm Hex Bolt
1	DS/left Bracket 2	4	12mm x 24mm x 2.5mm Flat Washers
1	PS/right Bracket 2	18	12mm Lock Washers
1	DS/left Bracket 3	28	12mm x 32mm x 3mm Flat Washers
1	PS/right Bracket 3	8	12-1.75mm x 90mm Hex Bolt
2	12-1.75mm x 60mm Single-Bolt Plate	18	12mm Hex Nuts
2	12-1.75mm x 60mm Double-Bolt Plate	4	14-2.00mm x 40mm Hex Bolts
2	14mm Nut plate	2	14-2.00mm x 60mm Hex Bolts
2	Spacer 2	6	14mm Lock Washers
8	12mm Plastic Retainers	6	14mm x 28mm x 2.5mm Flat Washers
2	Sensor harness extension	2	12mm Nylon Lock Nuts
2	License plate plastic plugs		

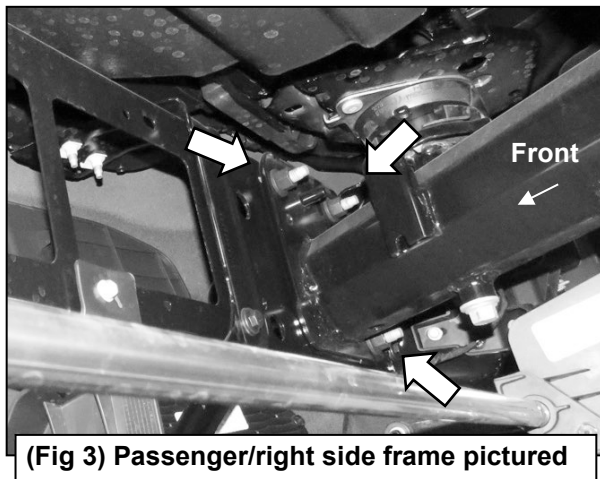


TOOLS REQUIRED

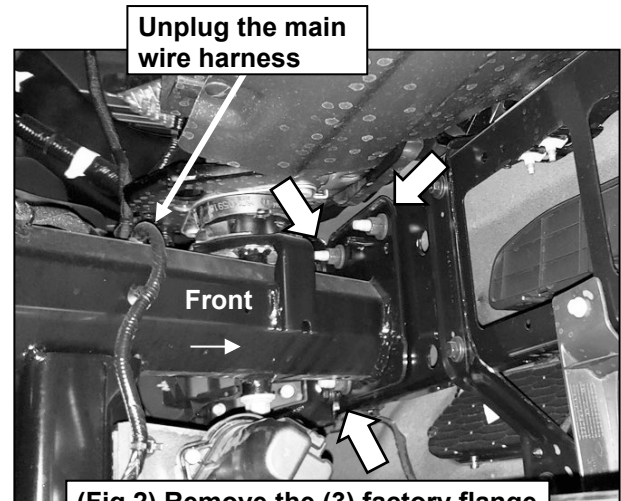
- 1** Follow (Fig 1 – 11) to remove factory bumper and prepare vehicle and Bumper for HD4 Bumper installation.



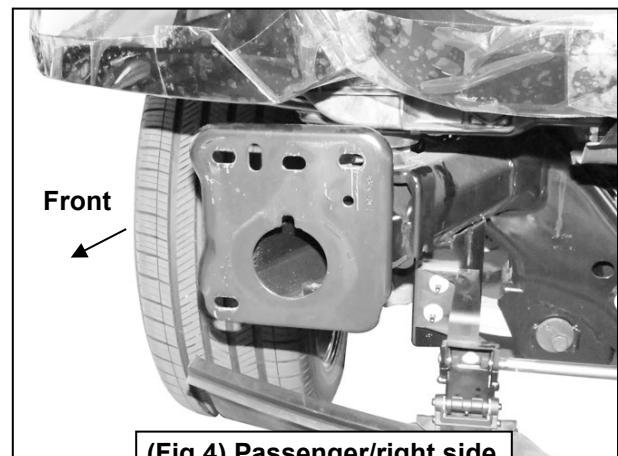
(Fig 1) Remove the (2) factory bolts attaching the side of the bumper to the frame (Driver/left side pictured)



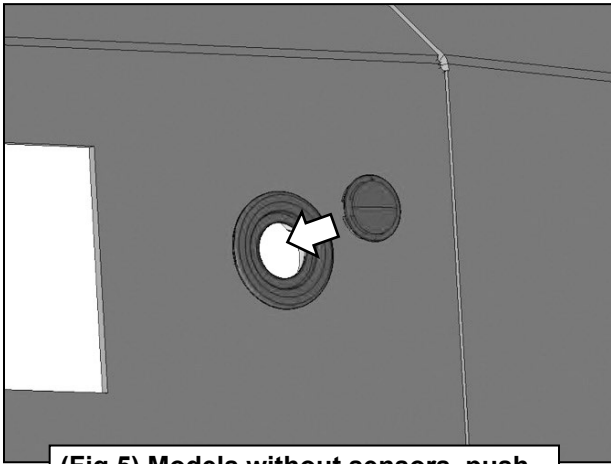
(Fig 3) Passenger/right side frame pictured



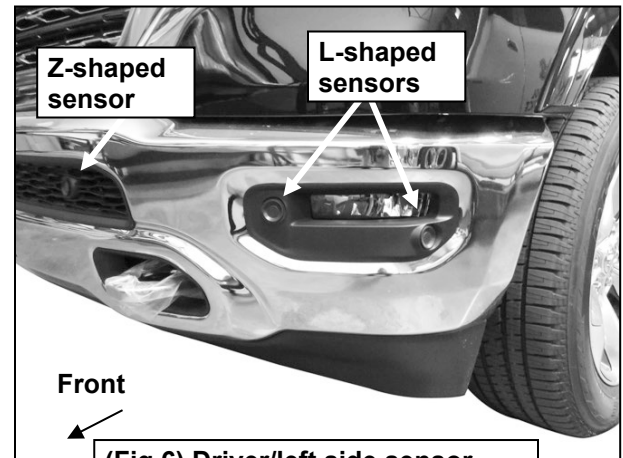
(Fig 2) Remove the (3) factory flange nuts from the driver/left side frame



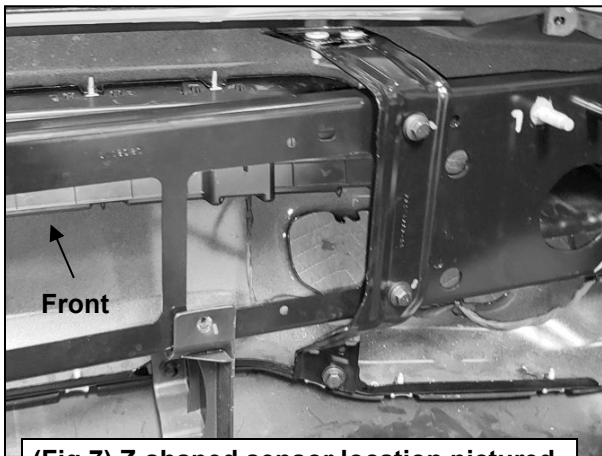
(Fig 4) Passenger/right side Frame mounting location



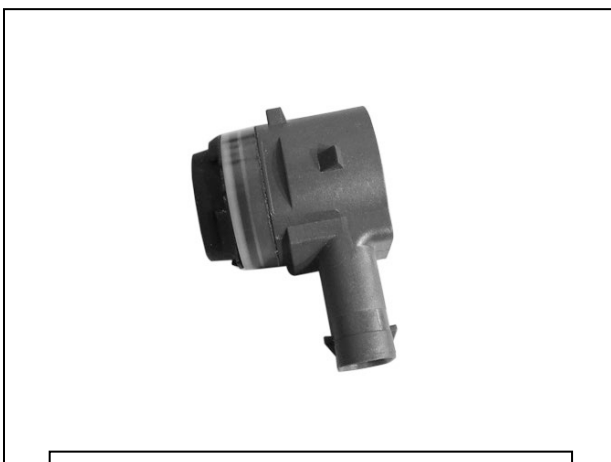
(Fig 5) Models without sensors, push Plastic Plugs into the sensor mounts



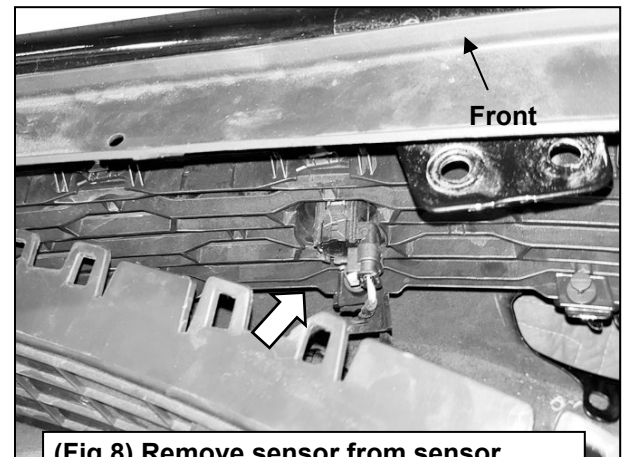
(Fig 6) Driver/left side sensor locations pictured with Bumper on for instruction purposes only



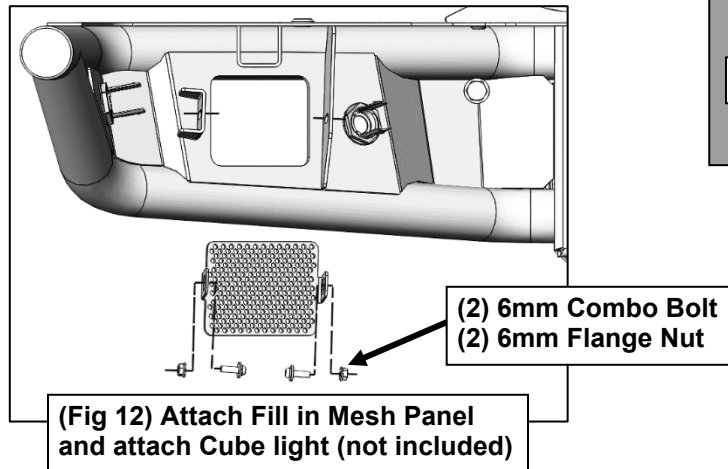
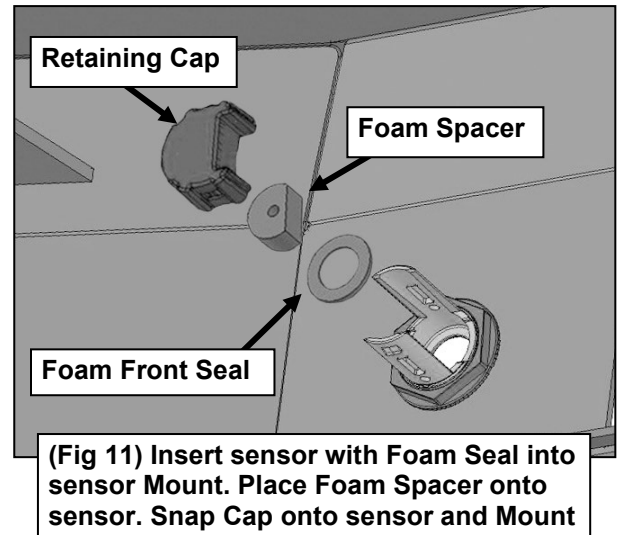
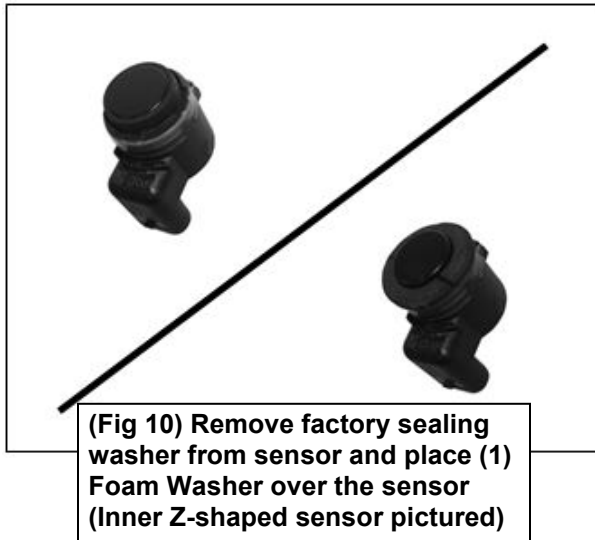
(Fig 7) Z-shaped sensor location pictured behind passenger/right side of bumper



(Fig 9) Outer L-shaped sensor pictured



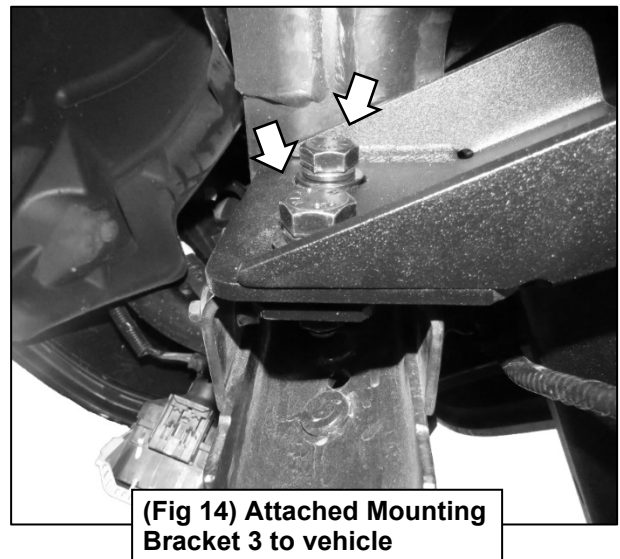
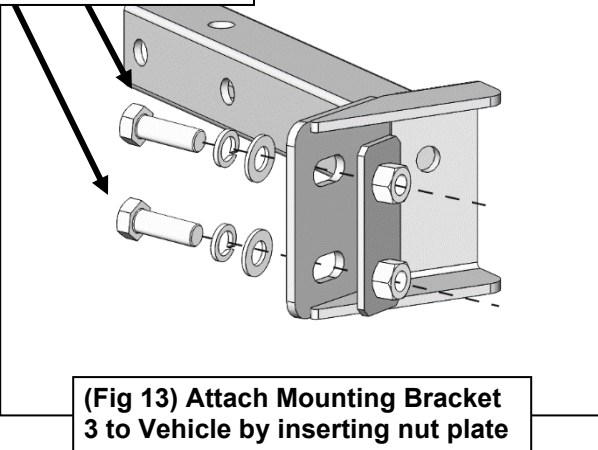
(Fig 8) Remove sensor from sensor sleeve (Passenger/right inner Z-shaped sensor pictured from behind bumper)

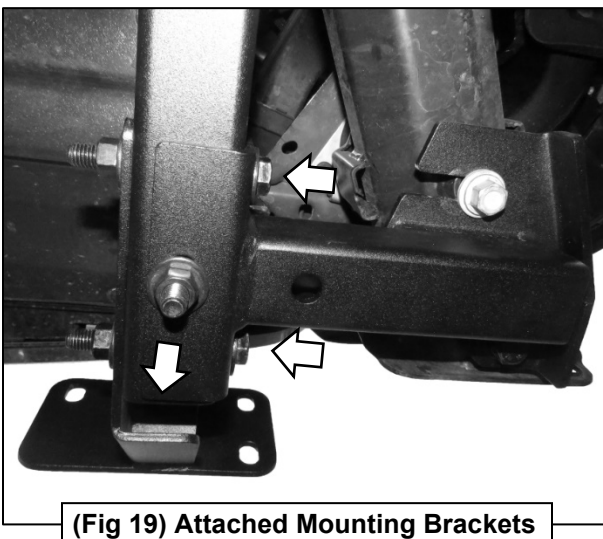
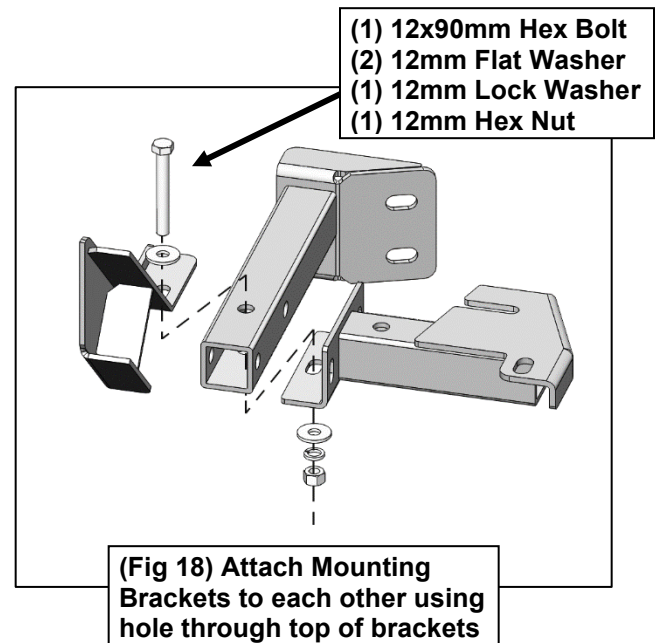
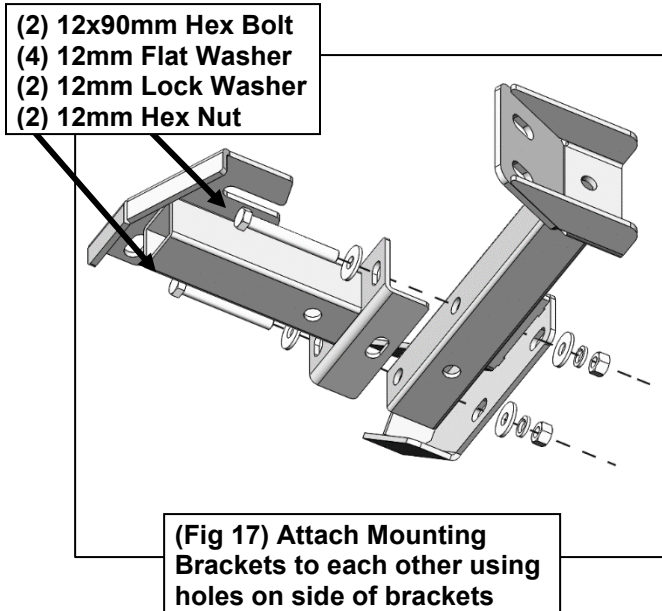
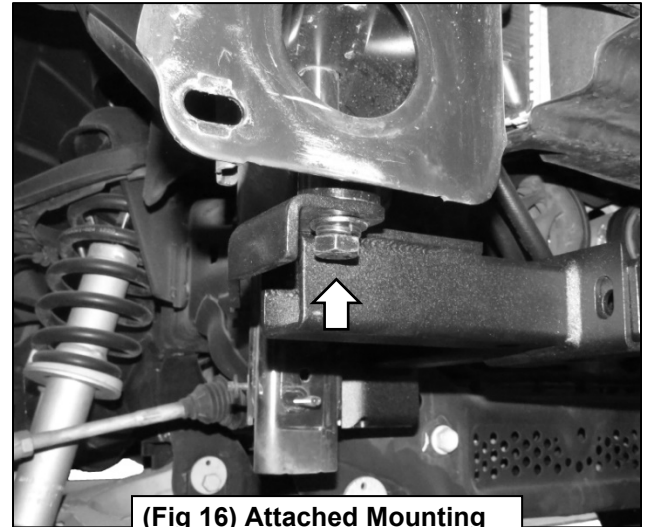
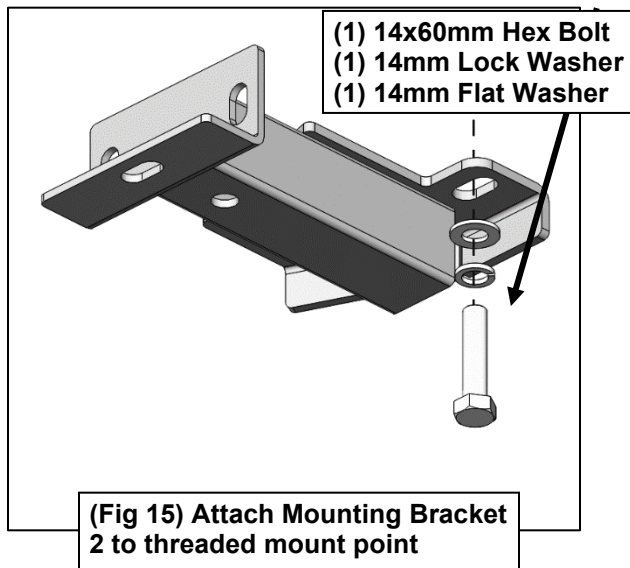


2

Follow (Fig 13 – 19) to attach Mounting Brackets 1, 2, & 3 to vehicle, then attach Mounting Brackets to each other. Ensure hardware is hand tightened at this point.

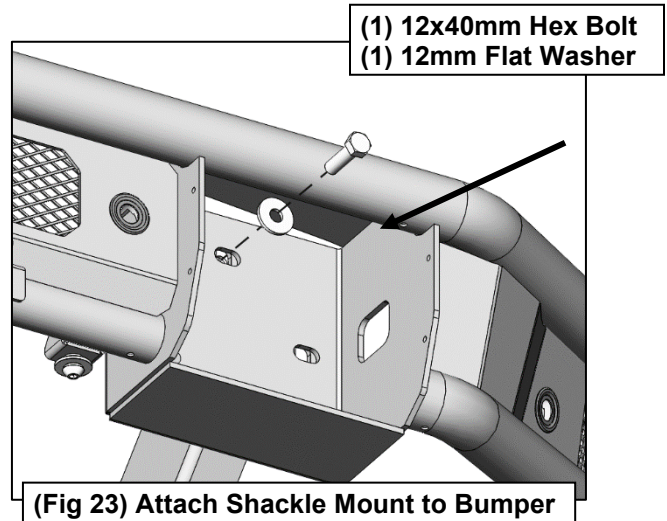
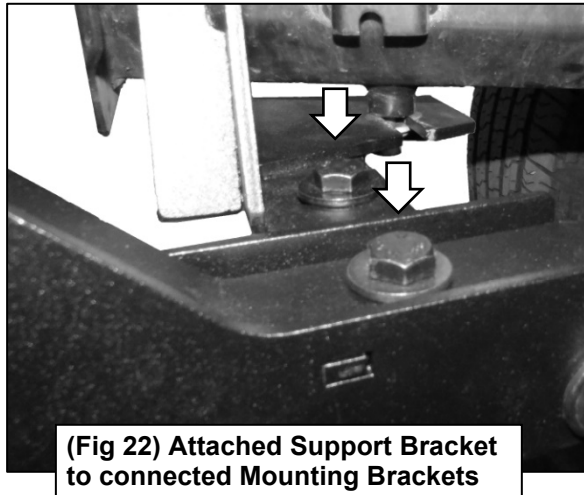
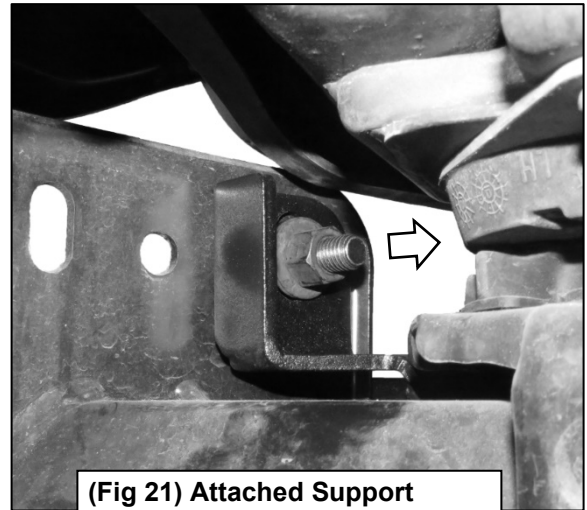
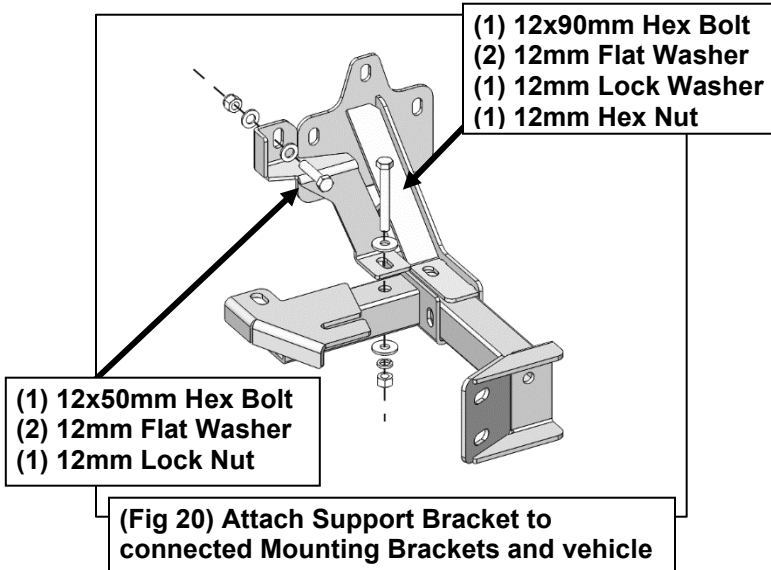
- (2) 14x40mm Hex Bolt
- (2) 14mm Lock Washer
- (2) 14mm Flat Washer
- (1) 14mm Nut Plate

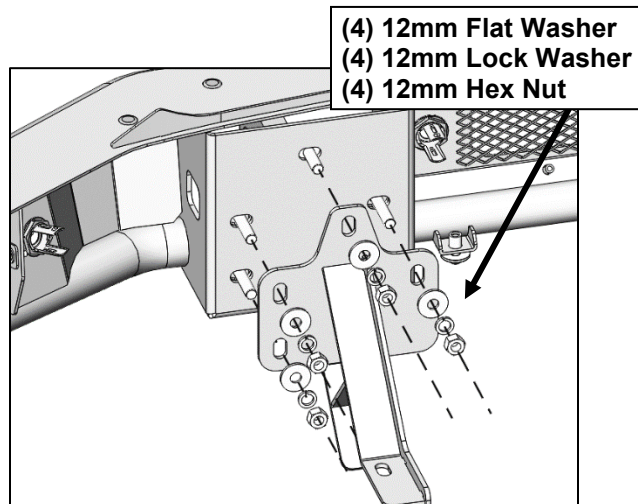
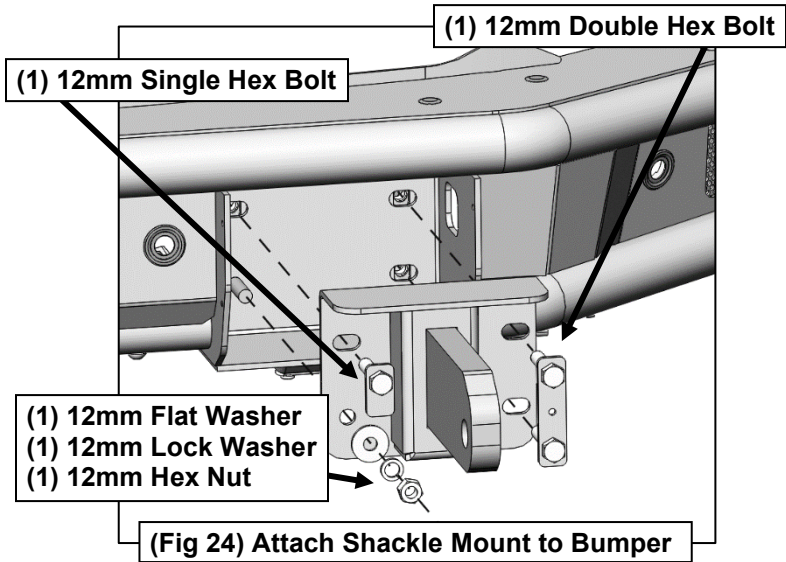




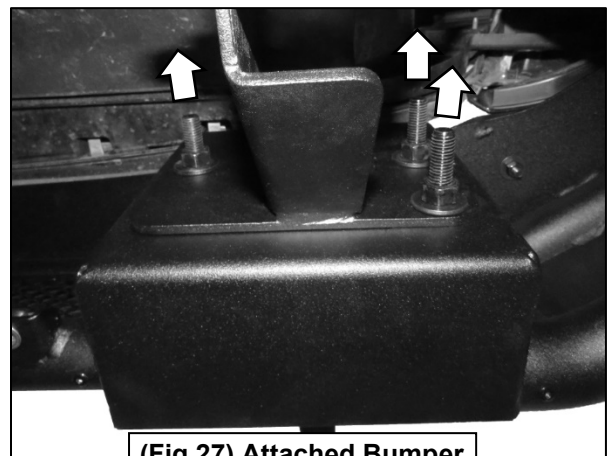
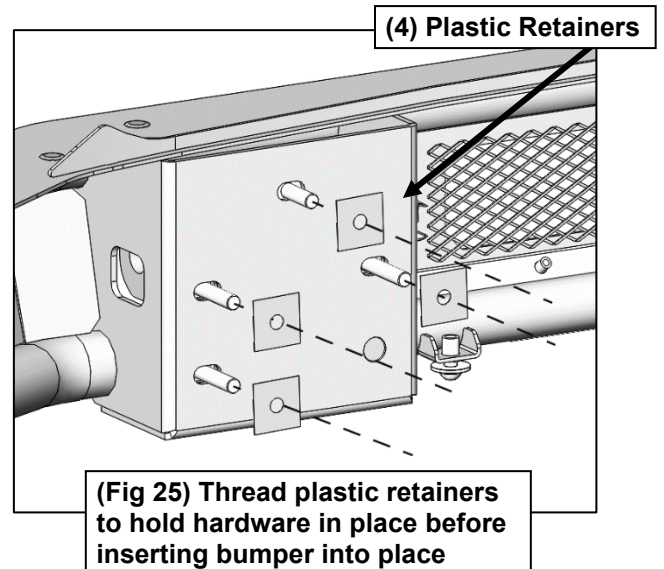
3

Follow (Fig 20 – 29) to attach Support Brackets, then attach shackle mount to bumper, and bumper to vehicle. Ensure hardware is hand tightened at this point.

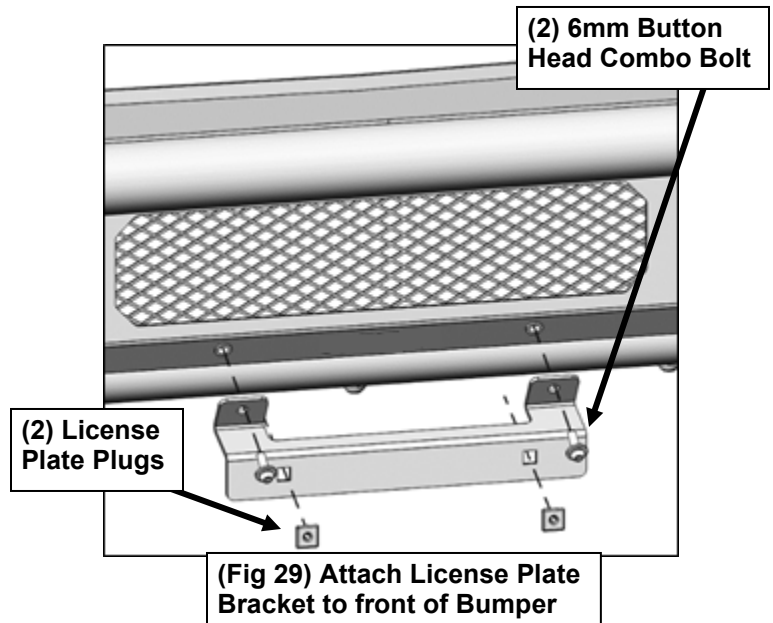
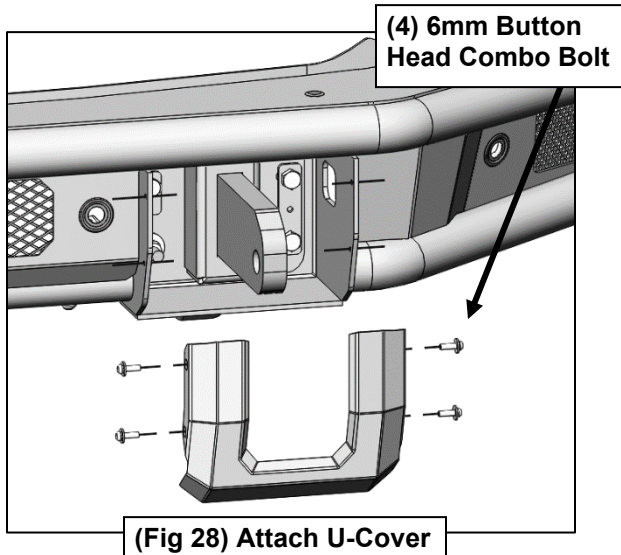




(Fig 26) Attach Bumper to Mounting Bracket 1 by inserting hardware into mounting slots



(Fig 27) Attached Bumper to Mounting Bracket 1



4

Ensure Bumper is level and fits properly, then tighten all hardware and double check all connections. Installation is complete. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

