



**TEL: 1-866-XANATOS**

## **INSTALLATION INSTRUCTIONS**

**ARMOUR III HD FRONT WINCH BUMPER**

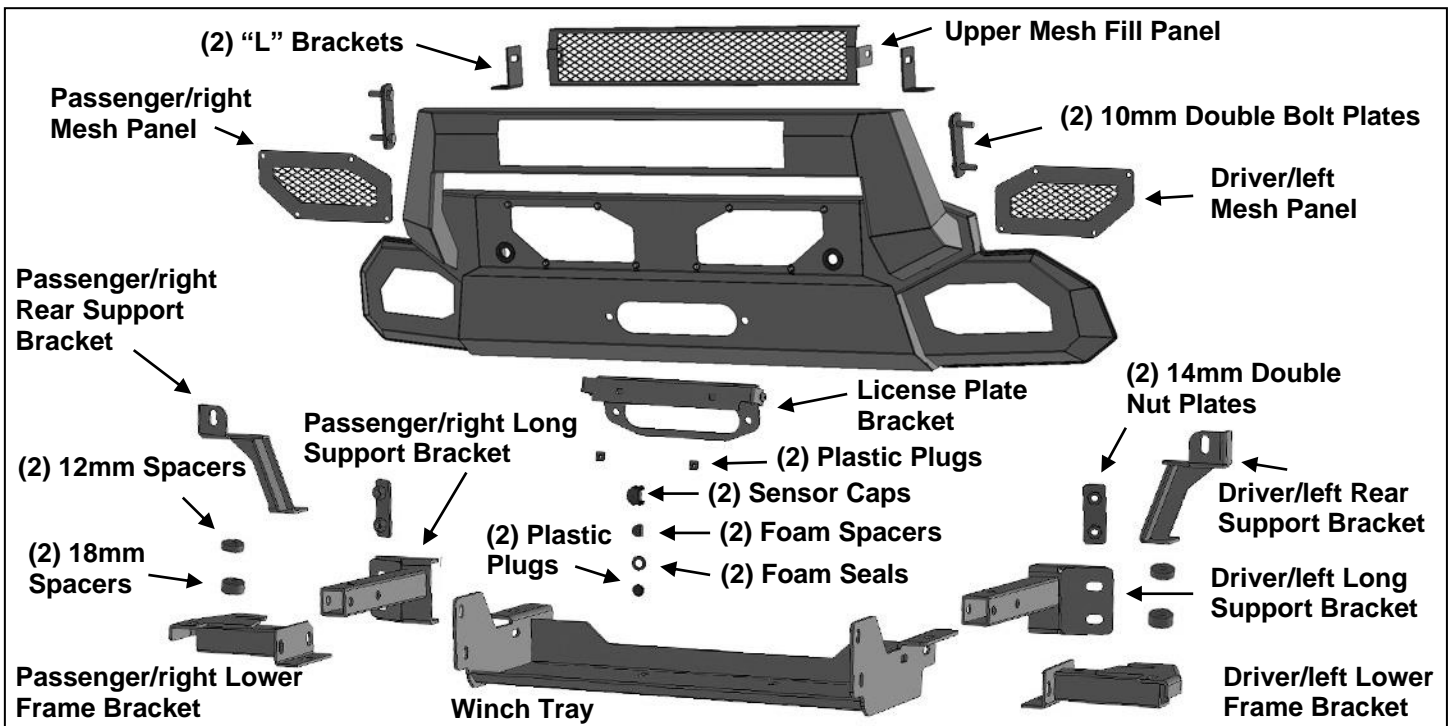
**19-24 DODGE RAM 1500**

**(Excl. 19-24 Classic, 19-22 Diesel, 19-24 Rebel, 21-24 TRX)**

**PART# AR3HD30NL**

**PARTS LIST:**

1	CS1 HD Winch Front Bumper	6	14mm x 28mm x 2.5mm Flat Washers
1	Winch Tray	6	14mm Lock Washers
1	Driver/Left Lower Frame Bracket	8	12-1.75mm x 90mm Hex Bolts
1	Passenger/Right Lower Frame Bracket	16	12mm x 32mm x 3mm Flat Washers
1	Driver/Left Long Lower Support Bracket	8	12mm Lock Washers
1	Passenger/Right Long Lower Support Bracket	8	12-1.75mm Hex Nuts
1	Driver/Left Bumper Rear Support Bracket	2	10mm x 40mm Double Bolt Plates
1	Passenger/Right Bumper Rear Support Bracket	2	10-1.5mm x 30mm Button Head Allen Bolts
2	18mm Spacer (no tow hook models)	4	10mm x 27mm x 3mm Flat Washers
2	12mm Spacer (models with tow hooks)	4	10mm Lock Washers
2	LED "L" Brackets	4	10mm Hex Nuts
1	Upper Mesh Panel	2	10mm Nylon Lock Nuts
1	Driver/Left Bumper Mesh Panel	4	8-1.25mm x 25mm Hex Bolts
1	Passenger/Right Bumper Mesh Panel	2	8-1.25mm x 16mm Hex Bolts
1	Pivot License Plate Bracket	8	8mm x 24mm x 2mm Flat Washers
2	License Plate Plugs	4	8mm Lock Washers
2	20mm x 10mm Foam Spacer	4	8mm Hex Nuts
2	15.5mm x 25mm x 2mm Foam Seals	8	6-1.0mm x 20mm Combo Bolts
2	Retaining Caps	4	4mm Self Tapping Screws
2	Sensor Plastic Plugs	1	3000mm Edge Trim
1	Sensor Cover Kit	10	Plastic Wire Ties
2	14mm Double Nut Plate	1	6mm Wrench
2	14-2.0mm x 60mm Grade 10.9 Hex Bolts	1	5mm Wrench
4	14-2.0mm x 40mm Hex Bolts	1	4mm Wrench



**PROCEDURE:**

**REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE. CUTTING IS REQUIRED.**

1. Remove the license plate and bracket if equipped.
2. On the driver/left side of the bumper, remove the (2) factory bolts attaching the side of the bumper cover to the side of the frame, **(Figure 1)**. Repeat this **Step** for the passenger/right side.
3. Models with automatic air dam behind bumper, unplug and remove air dam, **(Figure 2)**.
4. Locate and unplug the main wire harness on the driver/left side of the bumper, **(Figure 3)**.
5. 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 3 & 4)**. **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 stable clean flat surface.
6. Determine if vehicle is equipped with tow hooks.

**Models without tow hooks**

- a. **Loosen but do not remove the bolt** on the driver/left side of the frame, **(Figure 5)**. **IMPORTANT:** Only loosen the bolt, bolt is also the body mount bolt and does not need to be removed.
- b. Select the driver/left Lower Frame Bracket and (1) 11/16" (18mm) Thick Spacer, **(Figures 6 & 7)**. Slide the slotted end of the Bracket between the washer on the hex bolt and the spacer welded to the frame.
- c. Slide the Spacer between the Bracket and the bottom of the frame, **(Figure 7)**.
- d. Attach the front of the Bracket to the Spacer and threaded hole in the bottom of the frame with the included (1) 14mm Hex Bolt, (1) 14mm Lock Washer and (1) 14mm Flat Washer, **(Figure 7)**. Snug but do not fully tighten the Bracket hardware at this time.

**Models with tow hooks,**

- a. **Loosen but do not remove the driver/left tow hook rear bolt.** Remove the forward tow hook mounting bolt but do not remove the tow hook, **(Figure 8)**. **IMPORTANT:** Remove the forward bolt but **only loosen the rear bolt**. Rear mounting bolt is also the body mount bolt, **(Figure 8)**.
  - b. Select the driver/left Lower Frame Bracket. Slide the slotted end of the Bracket between the
  - c. washer on the hex bolt and the bottom of the tow hook, **(Figure 9)**.
  - d. Select (1) 1/2" (12mm) Thin Spacer, **(Figure 6)**. Insert the Spacer between the Bracket and the bottom of the tow hook, **(Figure 9)**.
  - e. Attach the front of the Bracket to the Spacer, tow hook and threaded hole in the bottom of the frame with the included (1) 14mm Hex Bolt, (1) 14mm Lock Washer and (1) 14mm Flat Washer, **(Figures 9 & 10)**. Snug but do not fully tighten the Bracket hardware at this time.
7. Select the driver/left Long Lower Support Bracket and (1) 14mm Double Nut Plate, **(Figure 12)**. Slide the Nut Plate up into the bottom of the frame, **(Figure 11)**. Attach the Support Bracket to the frame and Double Nut Plate with the included (2) 14mm Hex Bolts, (2) 14mm Lock Washers and (2) 14mm Flat Washers, **(Figures 12 & 13)**. Do not fully tighten hardware at this time.
  8. Repeat **Steps 6 & 7** to install the passenger/right Frame and Support Brackets.
  9. Select the Winch Tray. If installing winch, (winch not included), attach the winch to the Winch Tray and check all clearances at this time. Follow manufacturer's instructions to install winch.
  10. Slide Winch Tray assembly between the Mounting Brackets, **(Figure 14)**. Attach the Tray to the Brackets with (6) 12mm x 90mm Hex Bolts, (12) 12mm Flat Washers, (6) 12mm Lock Washers and (6) 12mm Hex Nuts. Snug but do not fully tighten hardware at this time.
  11. Remove the center plastic cover and air dam from the factory bumper, **(Figure 15)**. **NOTE:** Cover and air dam will not be reinstalled.
  12. Measure 6" inward from the passenger/right edge of the opening, **(Figure 15)**. Cover the front of the bumper with removable tape (masking tape for example). Draw a vertical line from the bottom of the opening to the bottom of the bumper, **(Figure 16)**. Cut the outer bumper along this line. **IMPORTANT:**

(EXCLUDES 19-24 "CLASSIC," 19-22 DIESEL, 19-24 REBEL, 21-24 TRX)

Do not cut or damage the wiring harness on the back of the bumper. If necessary, disassemble the bumper to remove the harness. Repeat this **Step** to cut the driver/left side of the outer bumper.

13. Move to the back of the bumper. Cut the top and bottom cross braces from the inner bumper bracket assembly. Cut along the edge of the bumper brackets, **(Figure 17)**. If necessary, disassemble the bumper to mark and cut the cross braces. Reassemble the factory bumper, **(Figure 18)**. Hold the factory bumper assembly up in position and check for clearance between the cut areas and the winch, winch tray and brackets and trim as necessary, **(Figure 19)**. Align and adjust the factory bumper.
14. Remove the top, inner hex nut from the back of the driver/left bumper bracket, **(Figure 20)**. Select the driver/left Rear Support Bracket, **(Figure 21)**. Attach the bottom mounting hole in the Bracket to the top of the Lower Frame Bracket with (1) 12mm x 90mm Hex Bolt, (2) 12mm Flat Washers, (1) 12mm Lock Washer and (1) 12mm Hex Nut. Leave hardware loose at this time.
15. Use the factory hex nut to attach the driver/left Rear Support Bracket to the back of the factory bumper bracket, **(Figures 21 & 22)**.
16. Repeat **Steps 14 & 15** to install the passenger/right Rear Support Bracket.
17. Carefully unwrap the CS1 Bumper. Attach the included Edge Trim to the edge of the CS1 Bumper, **(Figure 23)**. Cut Edge Trim as necessary.
18. Determine if vehicle is equipped with parking sensors.

**Models without sensors:**

- a. Push the included (2) Plastic Plugs into the sensor mounting holes in the CS1 Bumper, **(Figure 24)**. Skip to **Step 19**.

**Models with parking sensors.**

- a. Unplug and remove the (2) center sensors from the factory bumper.
  - b. Select (1) sensor. Remove the silicone seal from the end of the sensor. Slide the included larger Foam Sensor Seal over front of sensor, **(Figure 25)**.
  - c. Insert sensor with Seal into sensor mount on the CS1 Bumper, **(Figure 26)**.
  - d. Place Foam Spacer onto the end of sensor. Push on the Sensor Retaining Cap and snap onto the sensor mount, **(Figure 26)**.
  - e. Repeat Steps to install the remaining sensor.
19. Determine if accessory light, (not included), or Upper Mesh Fill Panel will be installed at this time.

**Screen Fill Panel Installation (do not install fill panel if installing lights).**

- a. Select (1) "L" Light Bracket. Attach the Bracket to the slot in the back of the Bumper with (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 27)**. Do not tighten hardware at this time.
- b. Repeat previous Step to attach the passenger/right Bracket.
- c. Select the long Upper Fill Panel. Attach the tabs on the 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 27)**. Push the Fill Panel up against the back of the opening, align, adjust and fully tighten hardware.

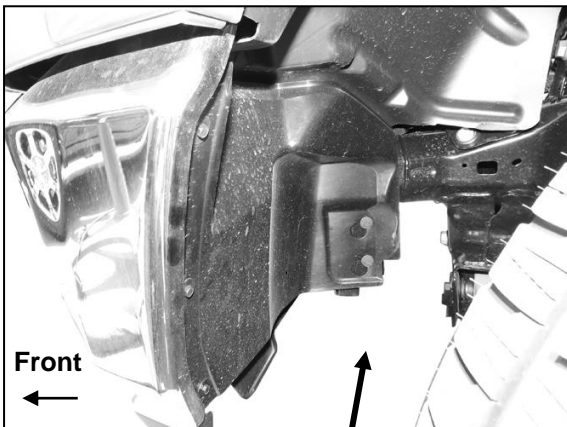
**Bar style LED light (not included).**

- a. Select (1) "L" Light Bracket. Attach the Bracket to the slot in the back of the Bumper with (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 28)**. Do not tighten hardware at this time.
  - b. Repeat previous Step to attach the passenger/right Bracket.
  - c. Select the light, (not included). Attach light to "L" Brackets with the hardware included with the light or (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers, **(Figure 28)**. Adjust the width of the Brackets to the light and fully tighten bracket hardware.
20. With assistance, position the CS1 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.
21. Insert (1) 10mm Double Bolt Plate into the opening in the CS1 Bumper and out the side and through the Bumper Bracket, **(Figure 29)**. Attach the Bumper to the Frame Bracket and Double Bolt Plate with (2) 10mm Flat Washers, (2) 10mm Lock Washers and (2) 10mm Hex Nuts, **(Figure 30)**. Do not fully tighten at this time. **NOTE:** Double Bolt Plate can be inserted from inside or outside as desired for

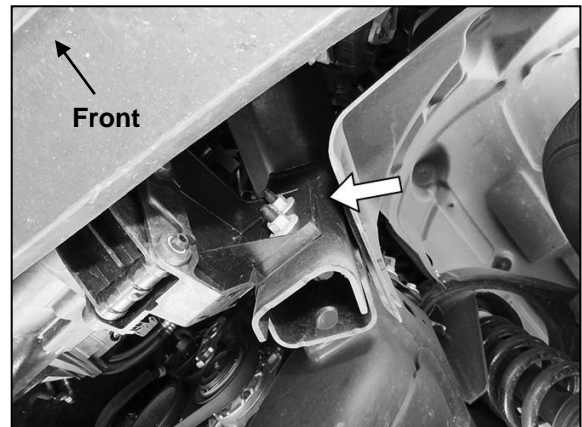
easier access to hardware around tow hook. Repeat this **Step** to attach the passenger/right side of the CS1 Bumper to the Brackets.

22. Level and adjust the CS1 Bumper and fully tighten all hardware.
23. Plug the bumper wiring harness into the sensors and into the main wire harness.
24. Attach winch cable guide, (not included), to front of Bumper. **NOTE:** On vehicles requiring front license plate, select the Pivoting License Plate Bracket, (**Figure 31**). Use the included (2) 10mm x 30mm Button Head Bolts and (2) 10mm Nylon Lock Nuts to attach the Bracket alone or if installing winch, between the cable guide and the Bumper. Push the included (2) push-in Plastic Plugs into the square holes in the Bracket and reuse the factory hardware to attach the license plate to the Plastic Plugs.
25. Install the (2) Mesh Fill Panels with the included (8) 6mm Button Head Combo Bolts, (**Figure 32**-installation optional). **NOTE:** Fill panel must be removed to access the winch spool release lever.
26. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

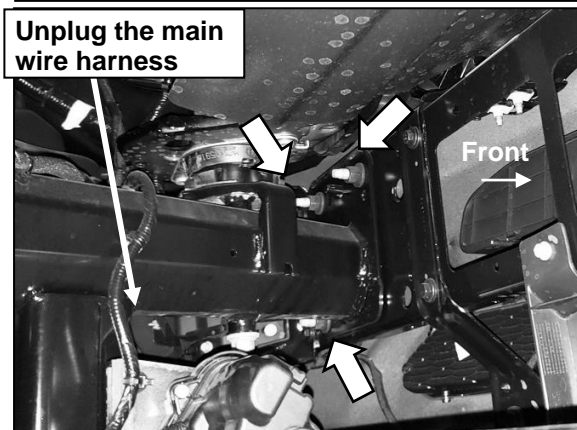
**To protect your investment,** Do not use any type of polish or wax that may contain abrasives that could damage the finish. Mild soap may be used to clean the Bumper assembly.



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



(Fig 2) Models with active air dam, (arrow), unplug and remove air dam (driver/left side pictured)



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



(Fig 4) Bumper removed

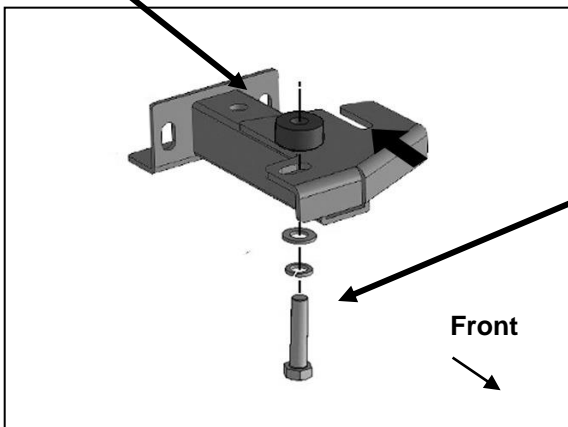
**WARNING!** Do not crawl under bumper unless it is properly supported on blocks or stands or the bumper may fall.

### Driver/left Side Installation Pictured



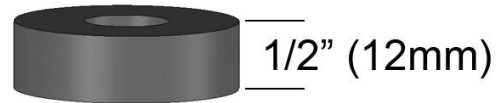
(Fig 5) Models without tow hooks, loosen but Do Not Remove body bolt (arrow)

Insert 11/16" Thick Spacer  
between bottom of frame  
and top of Bracket

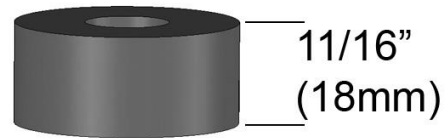


(Fig 7) Models without tow hooks, slide slot in Frame Bracket (arrow) between spacer on frame and body bolt

Use on models with tow hooks only



1/2" (12mm)

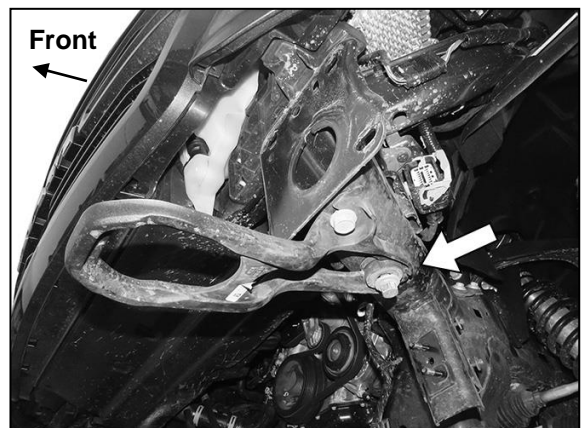


11/16"  
(18mm)

Use on models without tow hooks only

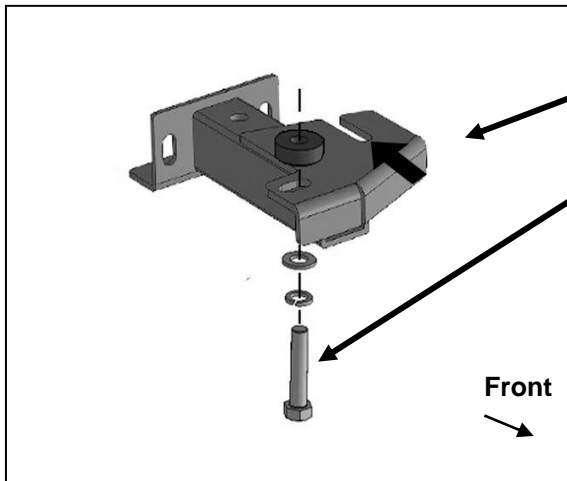
(Fig 6) Determine the correct  
Bracket Spacer

14mm Hex Bolt  
14mm Lock Washer  
14mm Flat Washer



(Fig 8) Models with tow hooks, loosen body bolt (arrow) and remove front hex bolt

# Driver/left Side Installation Pictured

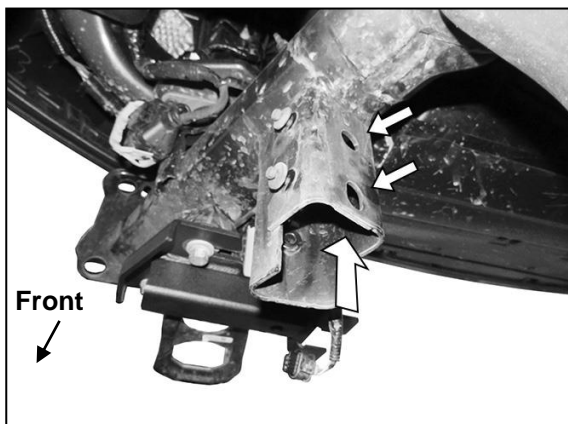


Insert Round 1/2" Thin Spacer  
between bottom of tow hook  
and top of Bracket

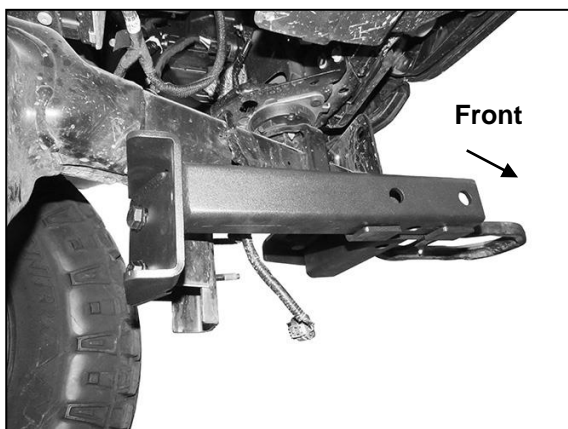
14mm Hex Bolt  
14mm Lock Washer  
14mm Flat Washer

Front

(Fig 9) Models with tow hooks, slide slot in  
Frame Bracket (arrow) between tow hook  
and body bolt



(Fig 11) Insert 14mm Double Nut Plate up  
into opening in bottom of frame (arrow)

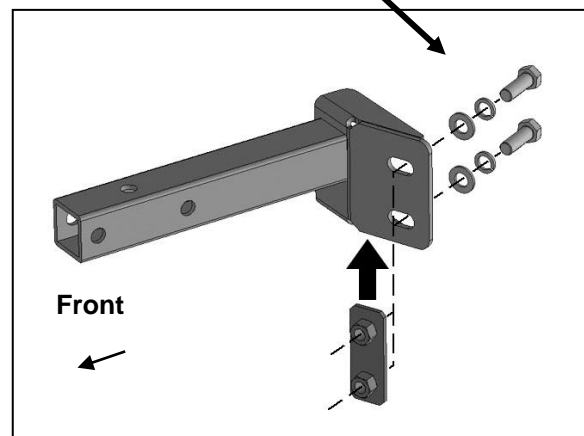


(Fig 13) Line up mounting holes in "Long"  
Support Bracket with Frame Bracket



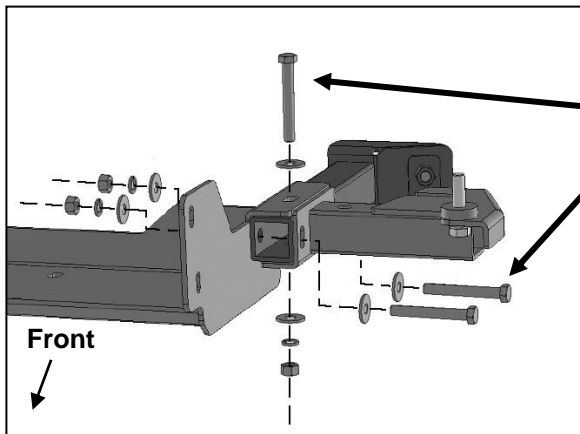
(Fig 10) Models with tow hooks, insert 1/2"  
Thin Spacer between tow hook and top of  
Bracket (arrow)

(2) 14mm Hex Bolts  
(2) 14mm Lock Washers  
(2) 14mm Flat Washers



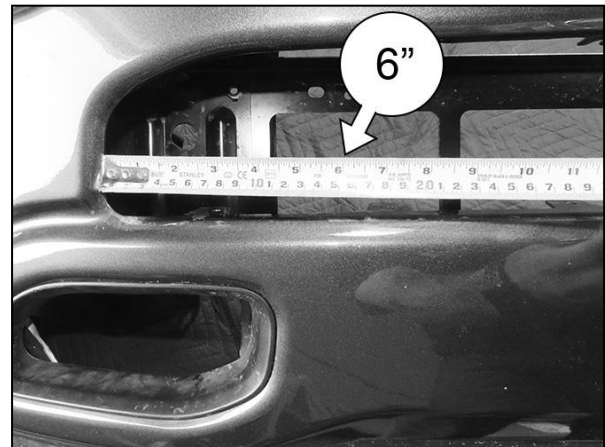
(Fig 12) Attach the driver/left "Long"  
Support Bracket to the frame and Nut Plate

**Driver/left Side Installation Pictured**

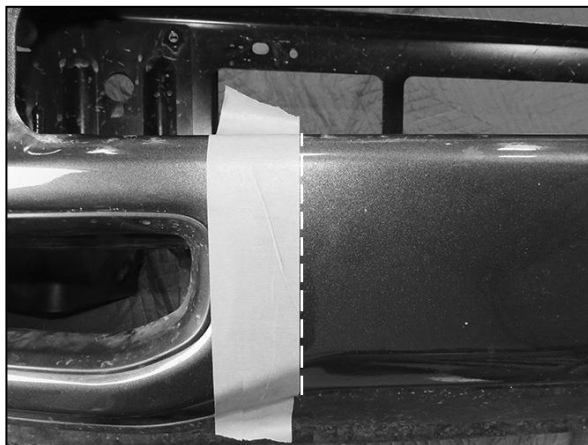


- (3) 12mm x 90mm Hex Bolts
- (6) 12mm Flat Washers
- (3) 12mm Lock Washers
- (3) 12mm Hex Nuts

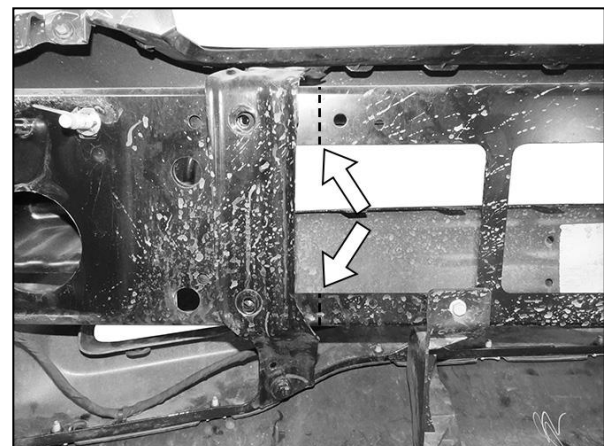
**(Fig 14) Attach winch to Winch Tray, attach Tray assembly to "Long" Support Brackets and Frame Brackets**



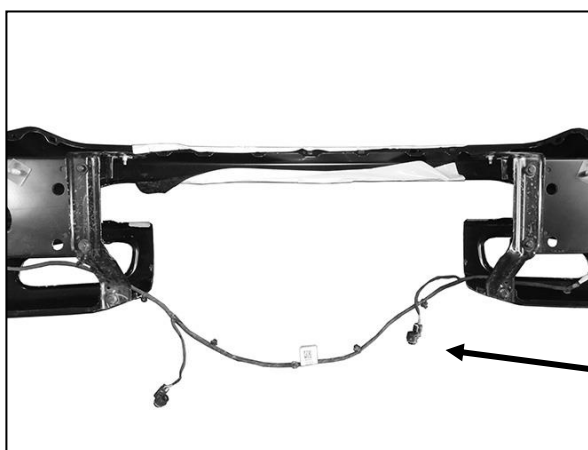
**(Fig 15) Remove center cover from factory bumper. Cover bumper with removable tape. Passenger/right side pictured**



**(Fig 16) Mark a vertical line 6" in from edge of opening. Cut outer bumper along line**



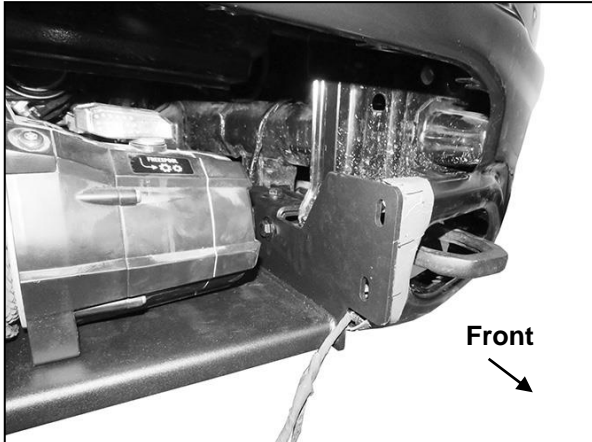
**(Fig 17) Cut out top and bottom cross braces connecting inner bumper brackets (arrows). Driver/left side back of bumper pictured**



**Sensor wiring harness**

**(Fig 18) Reinstall factory bumper**

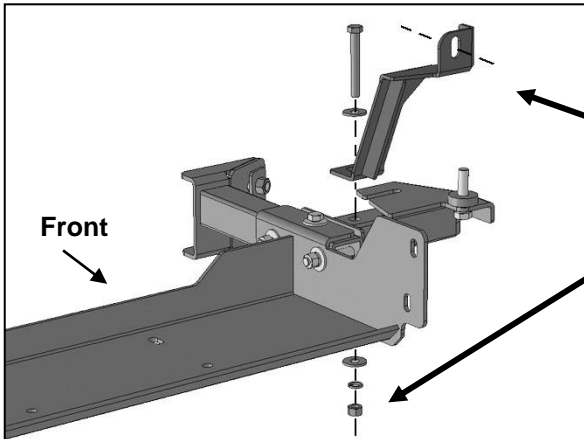
### Driver/left Side Installation Pictured



(Fig 19) Trim factory bumper as needed to clear the Winch Tray and sensor harness



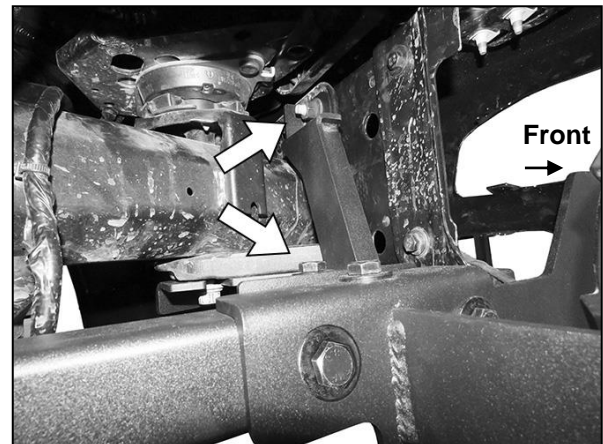
(Fig 20) Remove hex nut attaching factory bumper (arrow)



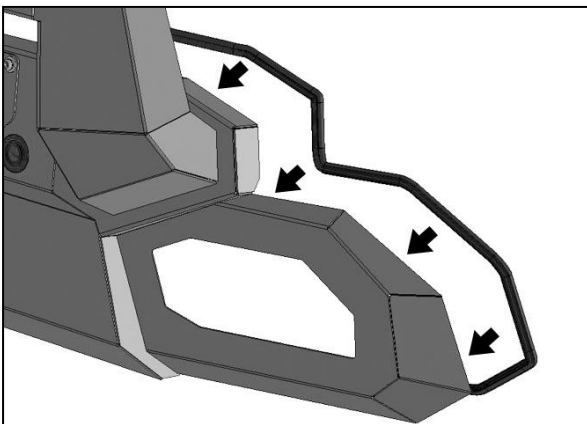
Reuse factory hex nut

12mm x 90mm Hex Bolt  
(2) 12mm Flat Washers  
12mm Lock Washer  
12mm Hex Nut

(Fig 21) Attach driver/left Rear Support Bracket to top of Frame Bracket. Reuse hex nut to attach Bracket to back of bumper mount on frame (arrow-Fig 20)

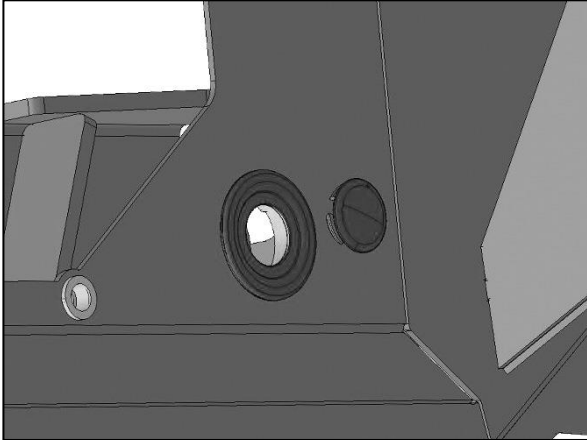


(Fig 22) Driver/left Rear Support Bracket pictured from back of bumper

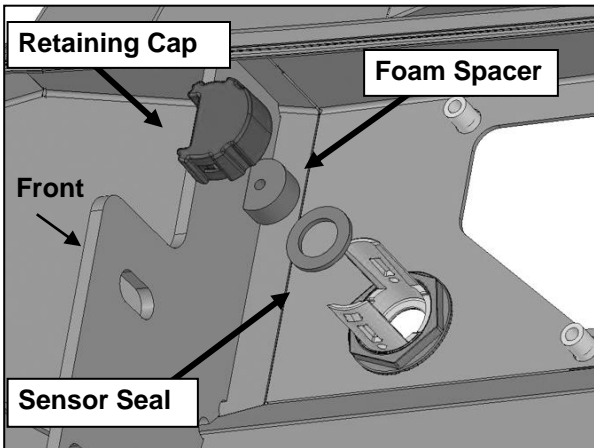


(Fig 23) Attach Edge Trim to back of bumper

**Driver/left Side Installation Pictured**

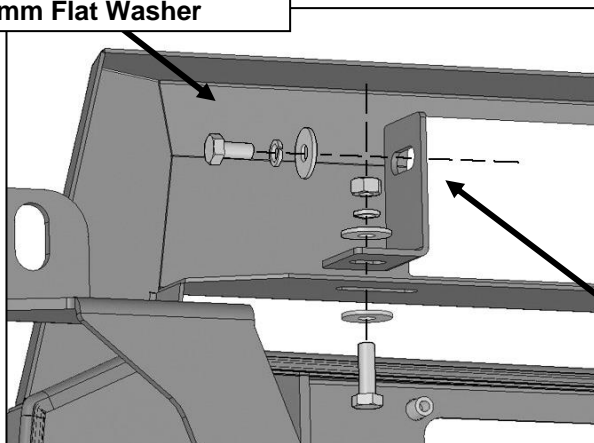


**(Fig 24) Models without sensors, insert Plugs**



**(Fig 26) Push sensor plug into mounting sleeve**

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

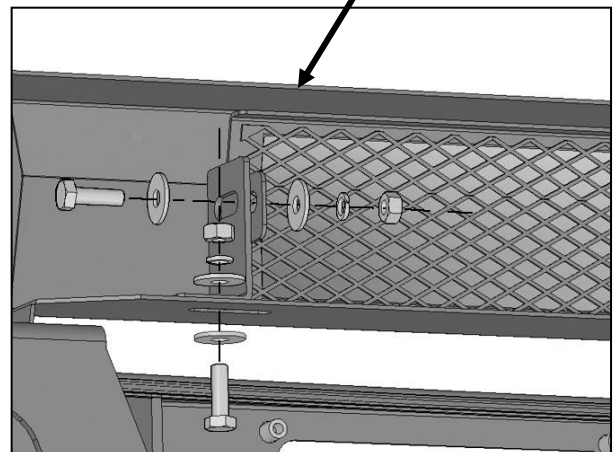


**(Fig 28) Attach "L" Brackets if installing LED center light (not included) or Center Fill Panel**



**(Fig 25) Remove silicone seal from sensor. Slide large Seal over end of sensor (arrow)**

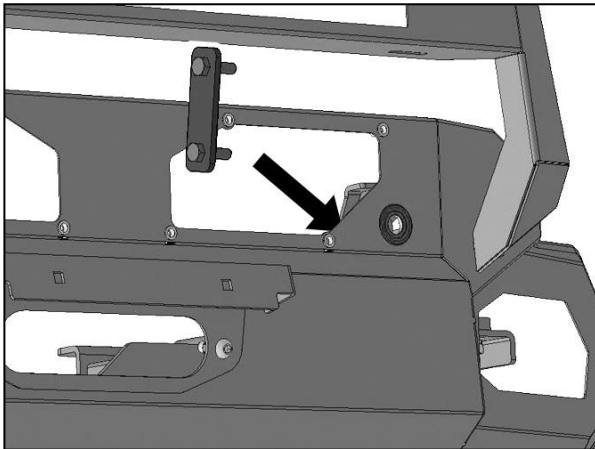
(2) 8mm x 25mm Hex Bolts  
(4) 8mm Flat Washers  
(2) 8mm Lock Washers  
(2) 8mm Hex Nuts



**(Fig 27) Attach Center Fill Panel to "L" Brackets (Do not install Fill Panel with LED light)**

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

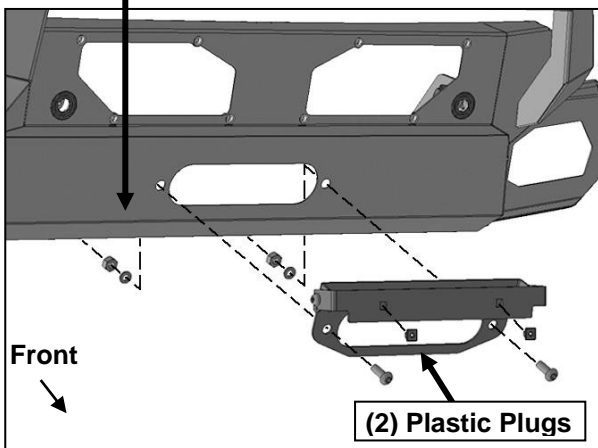
# Driver/left Side Installation Pictured



(Fig 29) Insert 10mm Double Bolt Plate into opening and out through mounting holes in Bracket and Bumper. NOTE: Double Bolt Plate can be inserted from outside if needed to clear tow hook

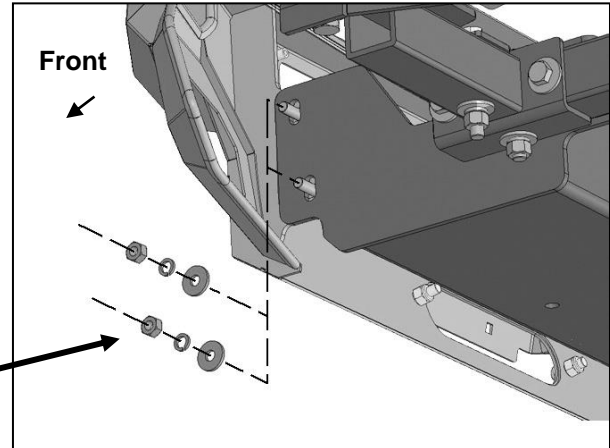
- (2) 10mm Flat Washers
- (2) 10mm Lock Washers
- (2) 10mm Hex Nuts

- (2) 10mm x 30mm Button Head Bolts
- (2) 10mm Nylon Lock Nuts



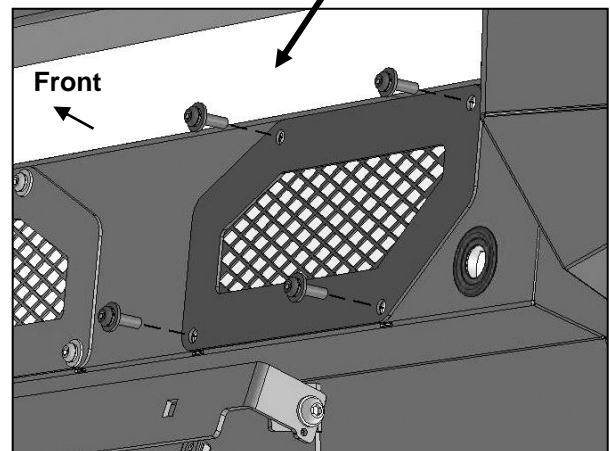
(Fig 31) Attach License Plate Bracket to Bumper

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



(Fig 30) Attach Bumper to Bracket and Double Bolt Plate NOTE: Double Bolt Plate can be inserted as illustrated or from outside if needed to clear tow hook

- (4) 6mm Combo Bolts



(Fig 32) Attach Mesh Panels to front of Bumper. Installation optional