



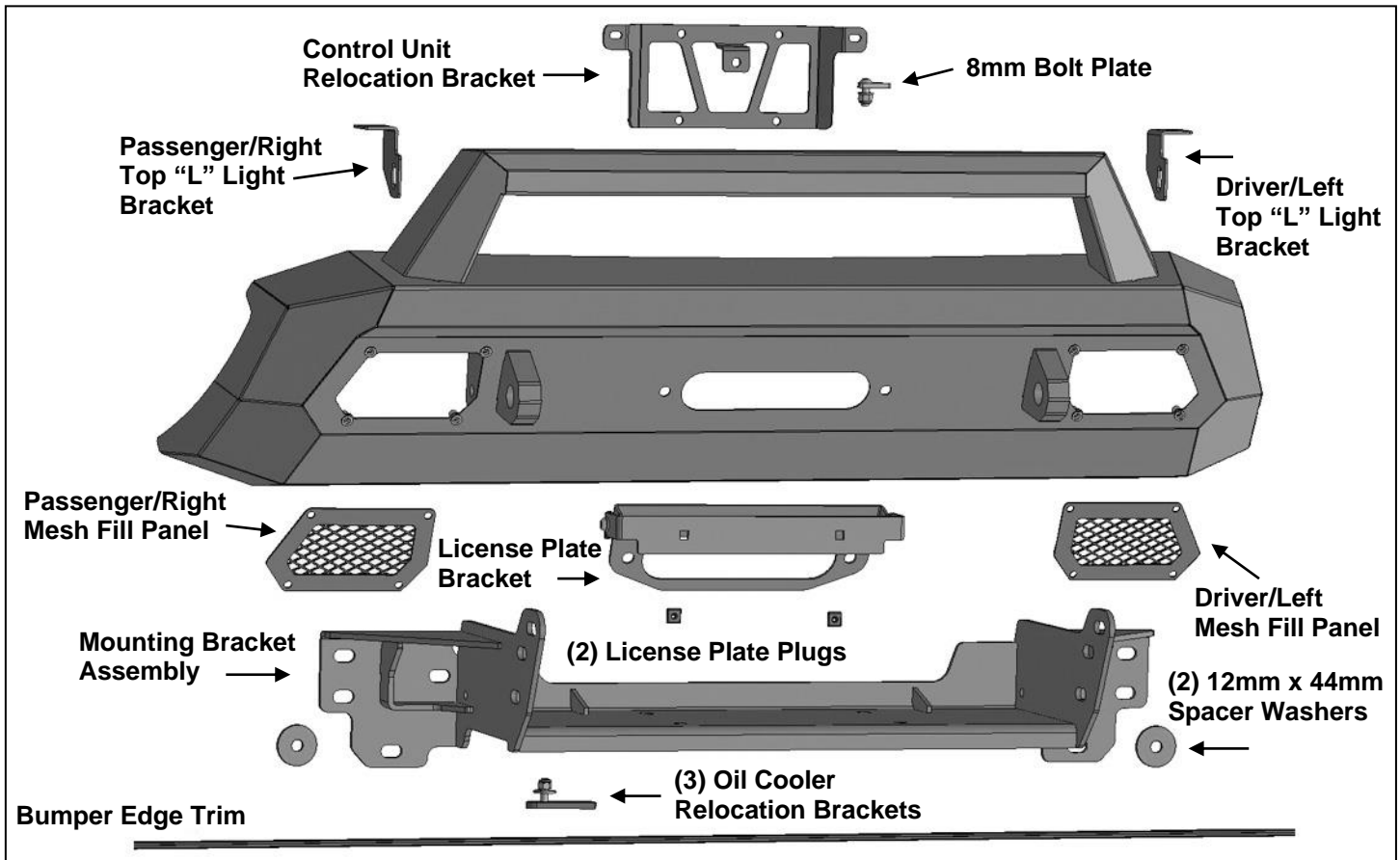
TEL: 1-866-XANATOS

INSTALLATION INSTRUCTIONS

**ARMOUR III HD FRONT WINCH BUMPER
16-23 TOYOTA TACOMA
PART# AR3HD62NL**

PARTS LIST:

1	CS-1 "HD" Winch Front Bumper	2	10-1.5mm x 30mm Button Head Bolts
1	Winch Tray Bracket Assembly	2	10mm x 20mm x 2mm Flat Washers
1	Control Unit Relocation Bracket	2	10mm Nylon Lock Nuts
1	Driver/left Mesh Fill Panel	2	8-1.25mm x 25mm Hex Bolts
1	Passenger/right Mesh Fill Panel	2	8-1.25mm x 16mm Hex Bolts
1	Driver/left "L" Top Light Bracket	9	8mm x 24mm x 2mm Flat Washers
1	Passenger/right "L" Top Light Bracket	1	8mm x 16mm x 1.6mm Flat Washer
1	Pivot License Plate Bracket	4	8mm Lock Washers
2	Plastic Plugs for License Plate	4	8mm Nylon Lock Nuts
1	2000mm Edge Trim	2	8mm Hex Nuts
3	Cooler Relocation Bolt Plates	8	6mm x 20mm Button Head Combo Bolts
1	8mm Bolt Plate (For Relocation Bracket)	2	6mm x 20mm Button Head Allen Bolts
2	12-1.75mm x 120mm Hex Bolts	4	6mm x 20mm Flanged Bolts
6	12-1.75mm x 45mm Hex Bolts	4	6mm x 18mm x 1.6mm Flat Washers
2	12mm x 44mm x 4mm Large Spacer Washers	2	6mm Nylon Lock Nuts
2	12mm x 32mm x 3mm Flat Washers	1	6mm Wrench
6	12mm x 24mm x 2.5mm Flat Washers	1	5mm Wrench
6	12mm Lock washers	1	4mm Wrench
2	12mm Nylon Lock Nuts	10	Nylon Wire Ties



PROCEDURE:

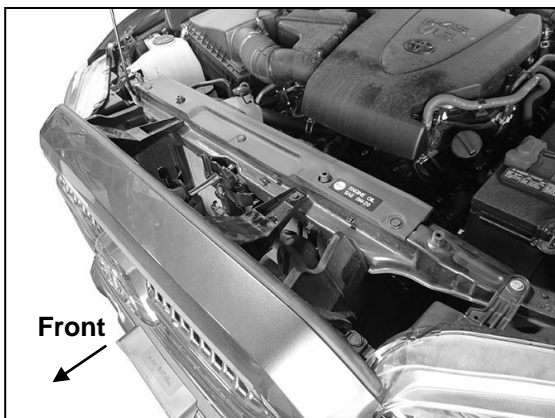
REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. ASSISTANCE IS HIGHLY RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE. CUTTING IS REQUIRED.

1. Open the hood and remove the plastic cover from the top of the radiator and grille, **(Figure 1)**. Next, carefully remove the plastic grille, **(Figure 2)**.

2. Remove the air dam attached to the bottom of the bumper cover, **(Figure 2)**. Remove the license plate and bracket from the bumper cover, **(Figure 2)**.
3. On models with factory fog lights, unplug and move the wiring harness leading to the front bumper.
4. Remove the hardware attaching the plastic bumper cover along the bottom, **(Figure 3)**.
5. Pull the fender liner back to locate the fender flare clips. Release the clips and carefully pull the front leading end of the fender flares to release from the bumper cover, **(Figure 4)**. The flares do not need to be fully removed, simply release the front portion and leave the rest of the flare attached.
6. Remove the hardware attaching the plastic bumper cover at the top and ends. With assistance, pop the ends off of the inner clip and pull the bumper off and away from the vehicle, **(Figure 5)**. **NOTE:** The CS1 Winch Bumper can be installed with the plastic bumper cover in place but access to mounting hardware and electrical connections is limited so bumper cover removal is recommended.
7. Remove the aluminum impact bumper and brackets from the frame, **(Figures 6 & 7)**.
8. Determine if the vehicle is equipped with a power steering cooler, **models without cooler, proceed to Step 8. Models equipped with a power steering cooler:**
 - a. Remove the (2) bolts attaching the cooler to the top of the crossmember, **(Figures 8 & 9)**.
 - b. Move to the passenger/right wheel opening. Release the clips and pull back the fender liner covering the side of the frame, **(Figure 10)**. Remove the hex bolt attaching the inner hose bracket to the top of the frame, **(Figure 11)**.
 - c. Select (1) 8mm Bolt Plate, **(Figure 12)**. With the bolt on the Bolt Plate facing up, reuse the factory bolt to attach the Bolt Plate to the top of the frame, **(Figure 13)**. Repeat to attach the (2) Bolt Plates to the front crossmember in front of the radiator, **(Figures 14 & 15)**.
 - d. Rotate the Bolt Plates so that the bolt on each Bolt Plate is towards the rear.
 - e. Next, attach the cooler to the (2) Bolt Plates on the crossmember with (2) 8mm Flat Washers and (2) 8mm Nylon Lock Nuts, **(Figures 12, 14 & 15)**. **NOTE:** If needed, use the included (2) 8mm Hex Nuts as spacers to raise the cooler up for additional clearance.
 - f. Repeat the previous **Step** to attach the passenger/right hose bracket to the Bolt Plate on the top of the frame, **(Figure 13)**.
 - g. Fully tighten the hardware on the Relocation Brackets and reattach the fender liner.
9. Follow the instructions packaged with the winch to remove the control unit. Attach the winch to the top of the winch tray on the Bracket assembly.
10. With assistance, hold the Bracket assembly and winch up to the end of the frame. Reuse the factory hex nuts to attach the Bracket assembly to the frame, **(Figure 16)**. Do not fully tighten hardware.
11. Insert (1) 12mm x 120mm Hex Bolt with (1) 12mm x 32mm STD Flat Washer into the front of the Frame Bracket and crossmember, **(Figure 17)**. Guide the long Hex Bolt through the crossmember. Secure the Bracket to the long Hex Bolt with (1) 12mm x 44mm Spacer Washer and (1) 12mm Nylon Lock Nut, **(Figure 18)**. Snug but do not fully tighten Bumper Bracket hardware at this time. Repeat this **Step** to attach the passenger/right side of the Frame Bracket assembly.
12. Locate and remove the clips, (1 per side), from the back of the bumper cover attaching the ends of the outer cover, **(Figure 19)**. Pull the outer center cover off of the main bumper cover.
13. Reinstall the plastic bumper cover. **NOTE:** Do not insert the (2) plastic clips attaching the top of the cover to the crossmember, **(Figure 20)**. Reattach the fender flares.
14. Align and center the Frame Bracket and Winch assembly and fully tighten all attaching hardware.
15. Release the clips attaching the wire harness to the top of the crossmember, **(Figure 20)**.
16. Select the Control Unit Relocation Bracket. Attach the Bracket to the bottom of the control unit with the included (4) 6mm Flange Bolts, **(Figure 21)**. Insert the 8mm Bolt Plate into the hole in the top of the support in front of the radiator, **(Figure 22)**. Attach the Relocation Bracket to the Bolt Plate with (1) 8mm x 16mm Small Flat Washer and (1) 8mm Nylon Lock Nut, **(Figure 23)**.
17. Next, attach the mounting tabs on the Relocation Bracket to the top of the crossmember and bumper cover with the included (2) 6mm x 20mm Button Head Bolts, (4) 6mm Flat Washers and (2) 6mm Nylon Lock Nuts, **(Figures 20 & 24)**. Fully tighten Relocation Bracket hardware at this time.
18. Attach winch cable guide, (not included), to CS1 Bumper. If front license plate is required, attach the License Plate Bracket between the front of the Bumper and guide/roller with the included (2) 10mm x 30mm Button Head Bolts, (2) 10mm Flat Washers and (2) 10mm Nylon Lock Nuts, **(Figure 25)**.
19. Apply the included Edge Trim to the Bumper to protect the plastic bumper cover. Cut Edge Trim to fit.

20. With assistance, position the Bumper Assembly up to the outside 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. Line up the driver/left side mounting plate on the back of the Bumper with the Frame Bracket. Attach the Bumper to the Bracket with the included (3) 12mm x 45mm Hex Bolts, (3) 12mm Lock Washers and (3) 12mm x 24mm Small Flat Washers, **(Figures 26 & 27)**. Do not fully tighten hardware at this time. Repeat this **Step** to attach the passenger/right side of Bumper.
22. Level and adjust the bumper and fully tighten all hardware.
23. Hold the grille up in position. Mark a 2" x 20" rectangle onto the bottom of the grille to clear the control unit and clutch release lever, **(Figure 28)**. **IMPORTANT:** Size of cut area does not represent all makes and models of winches. Installer must determine what will need to be cut to clear control unit and access release lever.
24. Determine if accessory light, (not included), will be installed on the Bumper Hoop.
 - a. Select the driver/left Top Light Bracket. Attach the Bracket to the slot on the back of the Bumper Hoop with (1) 8mm x 25mm Hex Bolt, (2) 8mm x 24mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 29)**. Do not tighten hardware at this time.
 - b. Repeat previous Step to attach the passenger/right Bracket.
 - c. Select the 20" light, (not included). Attach the light to the Top Light Brackets with the hardware included with the light or the supplied (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm x 24mm Flat Washers, **(Figure 29)**. Adjust and fully tighten light and Bracket hardware.
25. Attach the Mesh Fill Panels to the Bumper with the included (8) 6mm Combo Bolts, **(Figure 30)**.
26. Use the included (2) push-in Plastic Plugs to attach the front license plate, (if required), to the (2) holes in the front of the Bumper, **(Figure 30)**.
27. Reinstall air dam, (optional). **NOTE:** The air dam is attached to the bottom of the main bumper cover with several captive clip nuts, **(Figure 31)**. If air dam will not be reinstalled, remove the clip nuts from the cover to prevent rattles, (optional).
28. 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 Front Bumper assembly.

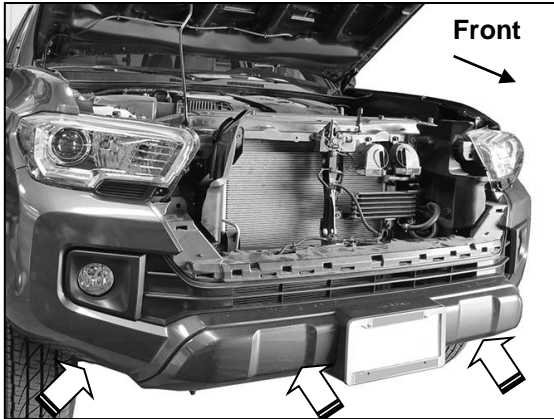


(Fig 1) Remove plastic cover from top of radiator. Note cover will not be reinstalled to allow access to the winch clutch release lever



(Fig 2) Remove grille, license plate, bracket and air dam

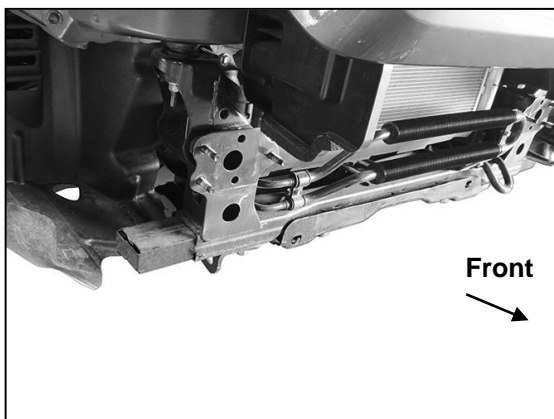
Driver/left Side Installation Pictured



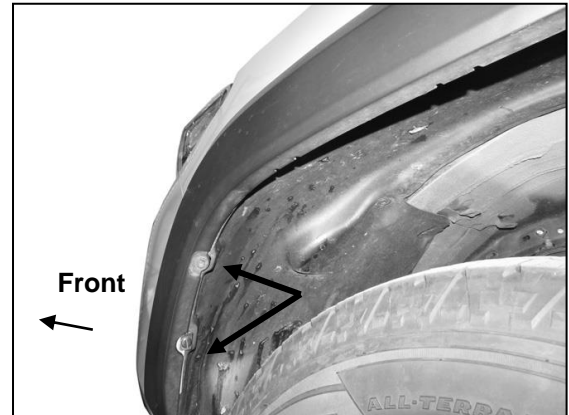
(Fig 3) Remove hardware attaching bottom of bumper to vehicle (arrows)



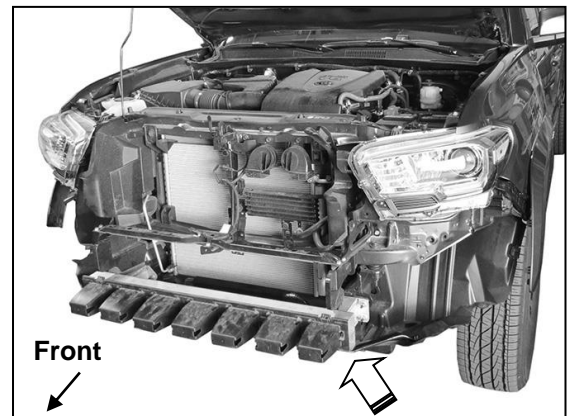
(Fig 5) Pull end of bumper cover outward to release from fender and below headlight. Remove hardware attaching top of bumper cover below grille and remove bumper cover



(Fig 7) Aluminum inner bumper and brackets removed

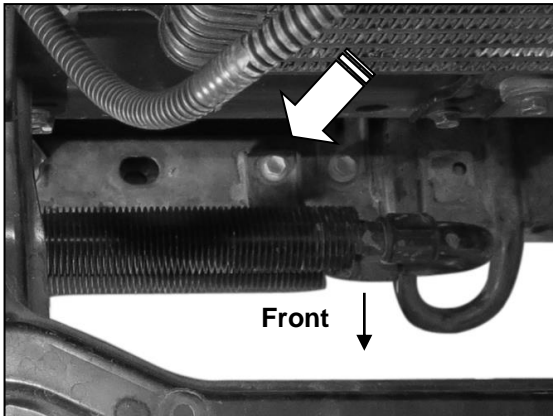


(Fig 4) Remove the hardware along the inside of the wheel well to release the fender liner. Pull liner back and reach up behind fender to release clips attaching end of fender flare. Do not remove flare, only release end of flare attached to bumper cover

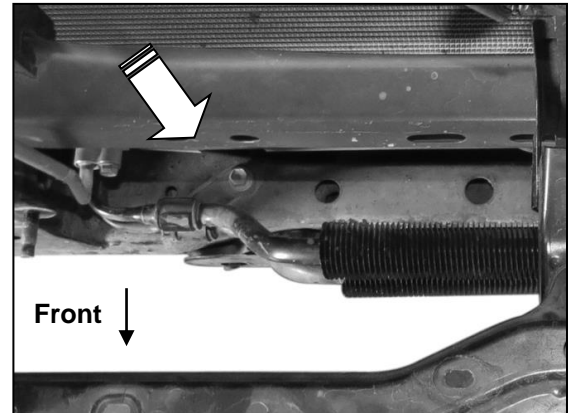


(Fig 6) Remove plastic impact cover and aluminum inner bumper and brackets

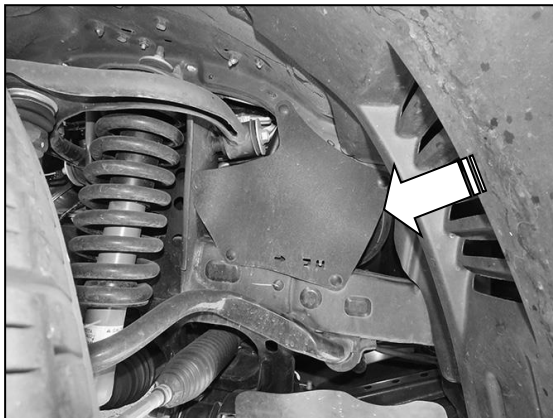
Driver/left Side Installation Pictured



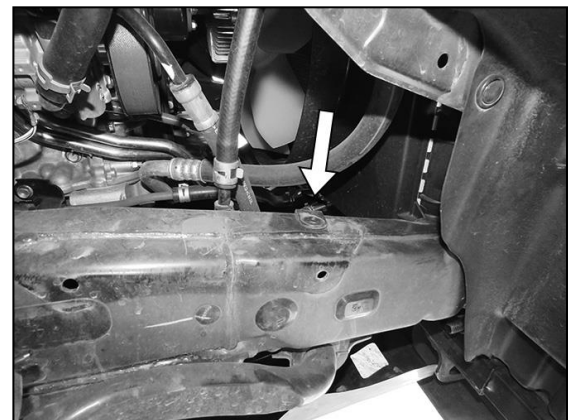
(Fig 8) Remove the bolts attaching the cooler to the top of the crossmember, if equipped (driver/left side pictured)



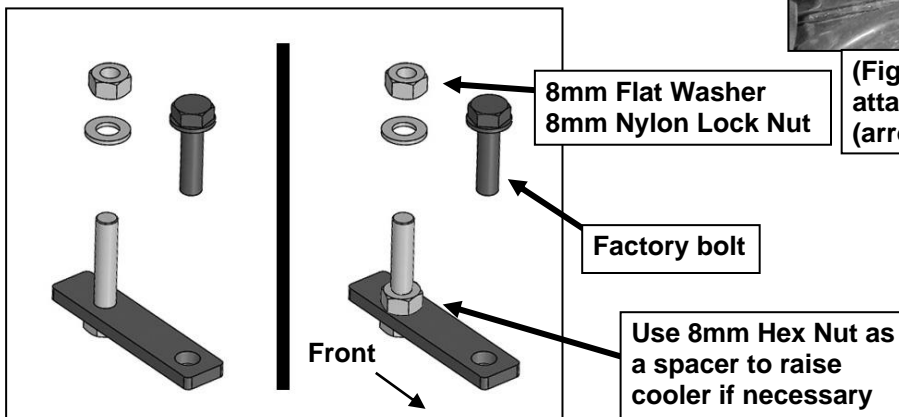
(Fig 9) Remove the bolts attaching the cooler to the top of the crossmember (passenger/right side pictured)



(Fig 10) Pull back passenger/right inner fender liner (arrow)

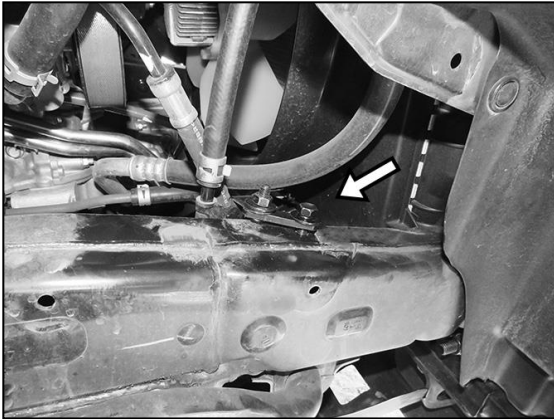


(Fig 11) Remove factory hex bolt attaching bracket to top of frame (arrow-bolt not pictured)



(Fig 12) Reuse the factory bolts to attach Bolt Plate to the cross member and top of frame. Slide the cooler over the bolt on the Bolt Plate and secure with provided hardware

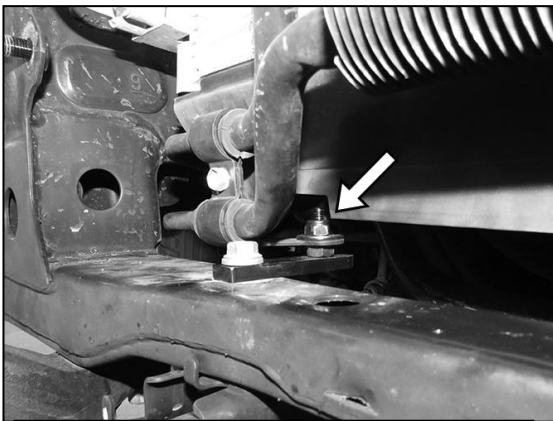
Driver/left Side Installation Pictured



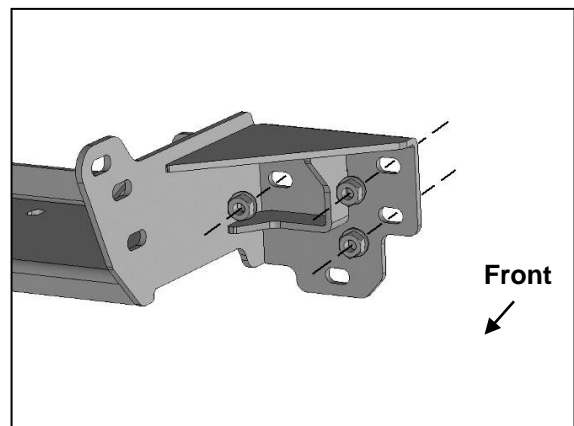
(Fig 13) Bolt Plate installed on top of passenger/right side of frame (arrow). Reinstall fender liner



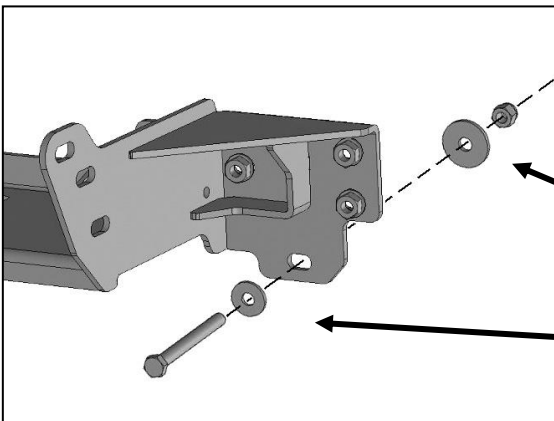
(Fig 14) Driver/left side of cooler relocated towards the radiator (arrow)



(Fig 15) Passenger/right side of cooler relocated towards the radiator (arrow)



(Fig 16) Reuse the factory hex nuts to attach the winch tray bracket assembly and winch (not included) to the frame

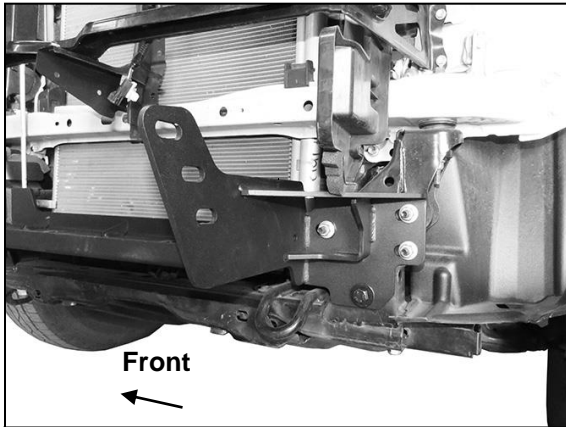


12mm x 44mm Large
Spacer Washer
12mm Nylon Lock Nut

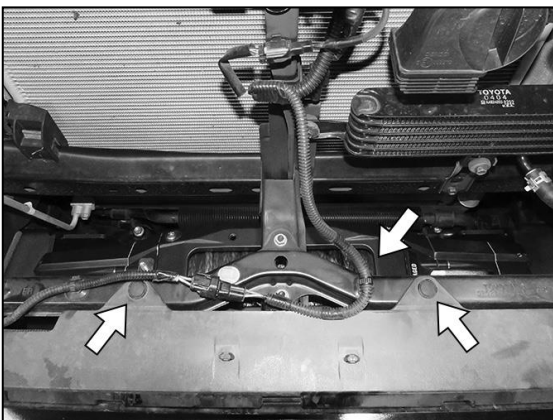
12mm x 120mm Hex Bolt
12mm x 32mm STD Flat
Washer

(Fig 17) Attach the bottom mount on the bracket assembly to the frame crossmember (driver/left side illustrated)

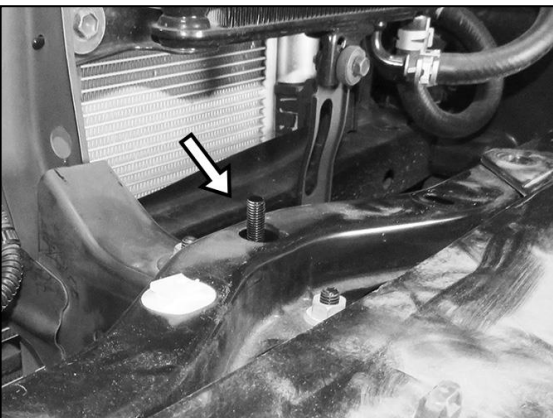
Driver/left Side Installation Pictured



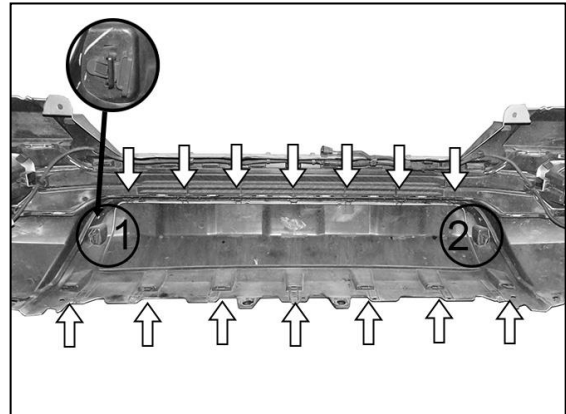
(Fig 18) Driver/left Frame Bracket installed



(Fig 20) Release clips and move wire harness. Remove (2) clips attaching top of bumper cover (arrows)

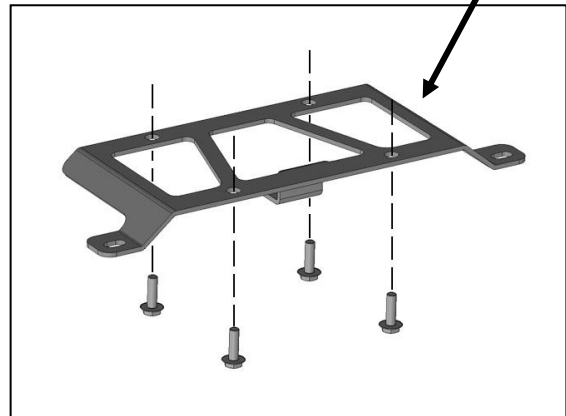


(Fig 22) Insert Bolt Plate into hole in top of crossmember (arrows)



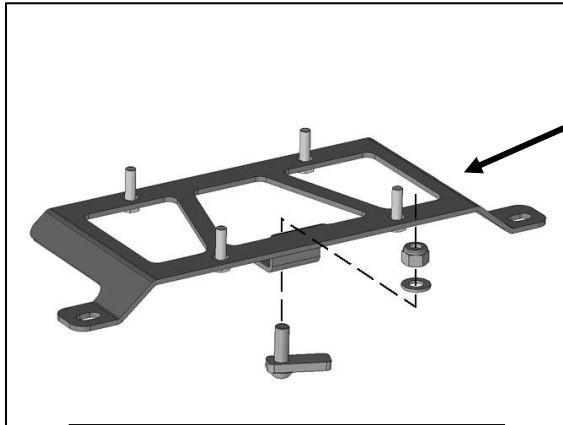
(Fig 19) Remove (2) outer clips from back of bumper cover, then release clips from top and bottom to remove center cover.

(4) 6mm x 20mm
Flange Bolts



(Fig 21) Attach winch control to Relocation Bracket

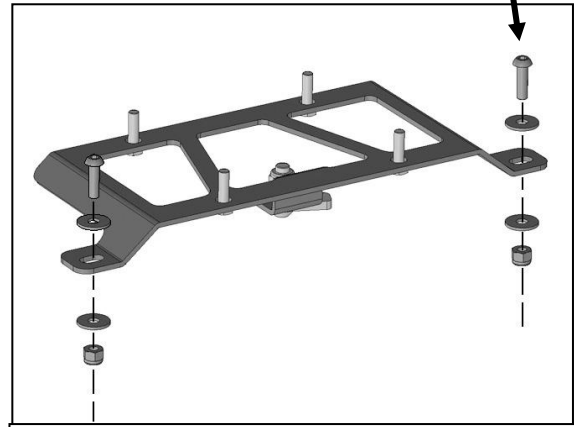
Driver/left Side Installation Pictured



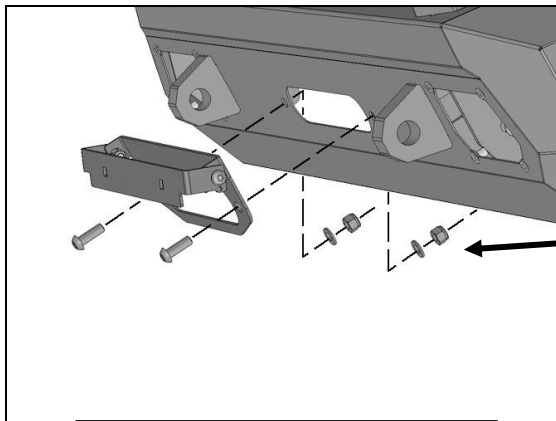
(Fig 23) Attach control unit with Relocation Bracket to Bolt Plate

8mm Bolt Plate
8mm x 16mm Small Flat Washer
8mm Nylon Lock Nut

(2) 6mm x 20mm Button Head Bolts
(4) 6mm Flat Washers
(2) 6mm Nylon Lock Nuts



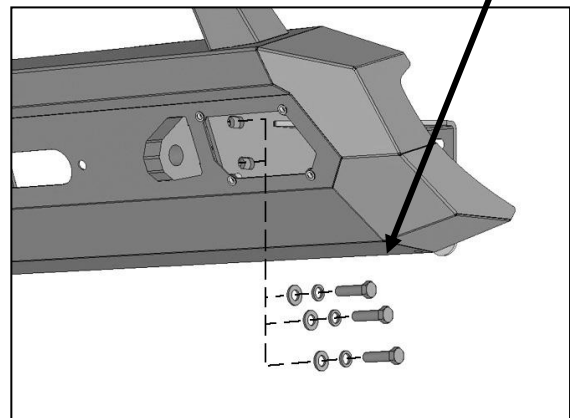
(Fig 24) Attach control unit with Relocation Bracket to top of bumper cover



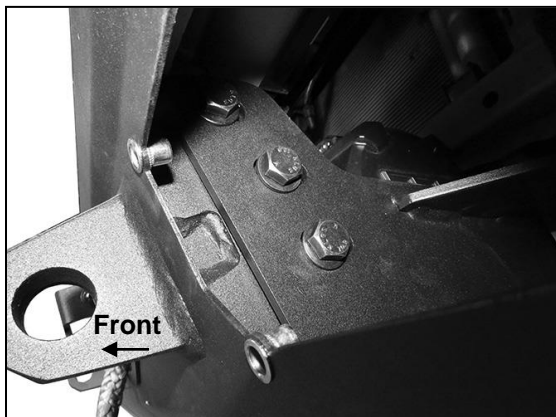
(Fig 25) Attach License Plate Bracket to front of Bumper and cable guide (not pictured)

(2) 10mm x 30mm Button Head Bolts
(2) 10mm x 20mm Flat Washers
(2) 10mm Nylon Lock Nuts

(3) 12mm x 45mm Hex Bolts
(3) 12mm Lock Washers
(3) 12mm x 24mm Small Flat Washers



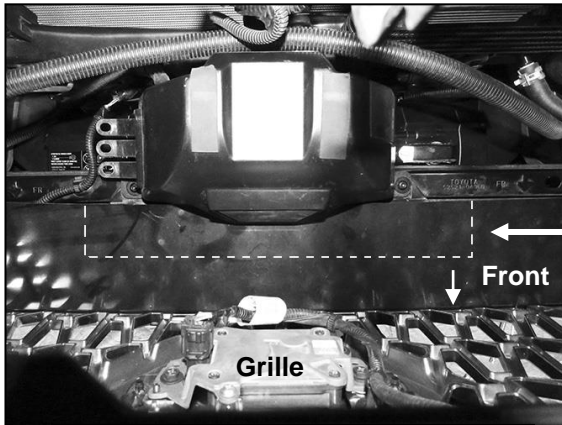
(Fig 26) Attach driver/left side of Bumper to outside of Bracket Winch Tray assembly



(Fig 27) Driver/left side of Bumper installed

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



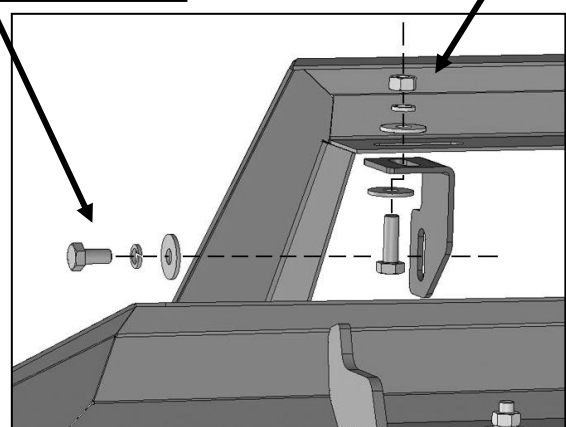
(Fig 28) Mark and cut inside of grille to clear control unit and release lever (pictured from above grille)

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

Cut a 20" x 2" section from the bottom inside of the grille

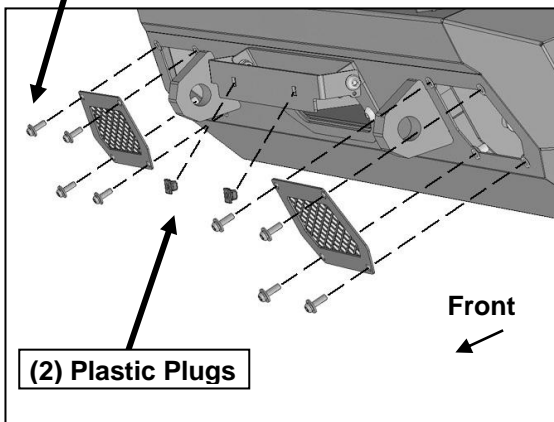
8mm x 16mm Hex Bolt
8mm Lock Washer
8mm Flat Washer

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



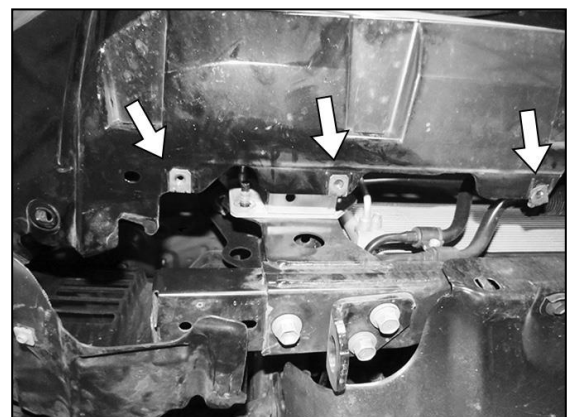
(Fig 29) Driver/left Top Light Bracket installed

(8) 6mm Combo Bolts



(2) Plastic Plugs

(Fig 30) Attach Mesh Fill Panels (driver/left side illustrated)



(Fig 31) If the air dam will not be reinstalled, remove clip on nuts from bottom of bumper cover (arrows) to stop rattles (optional)