

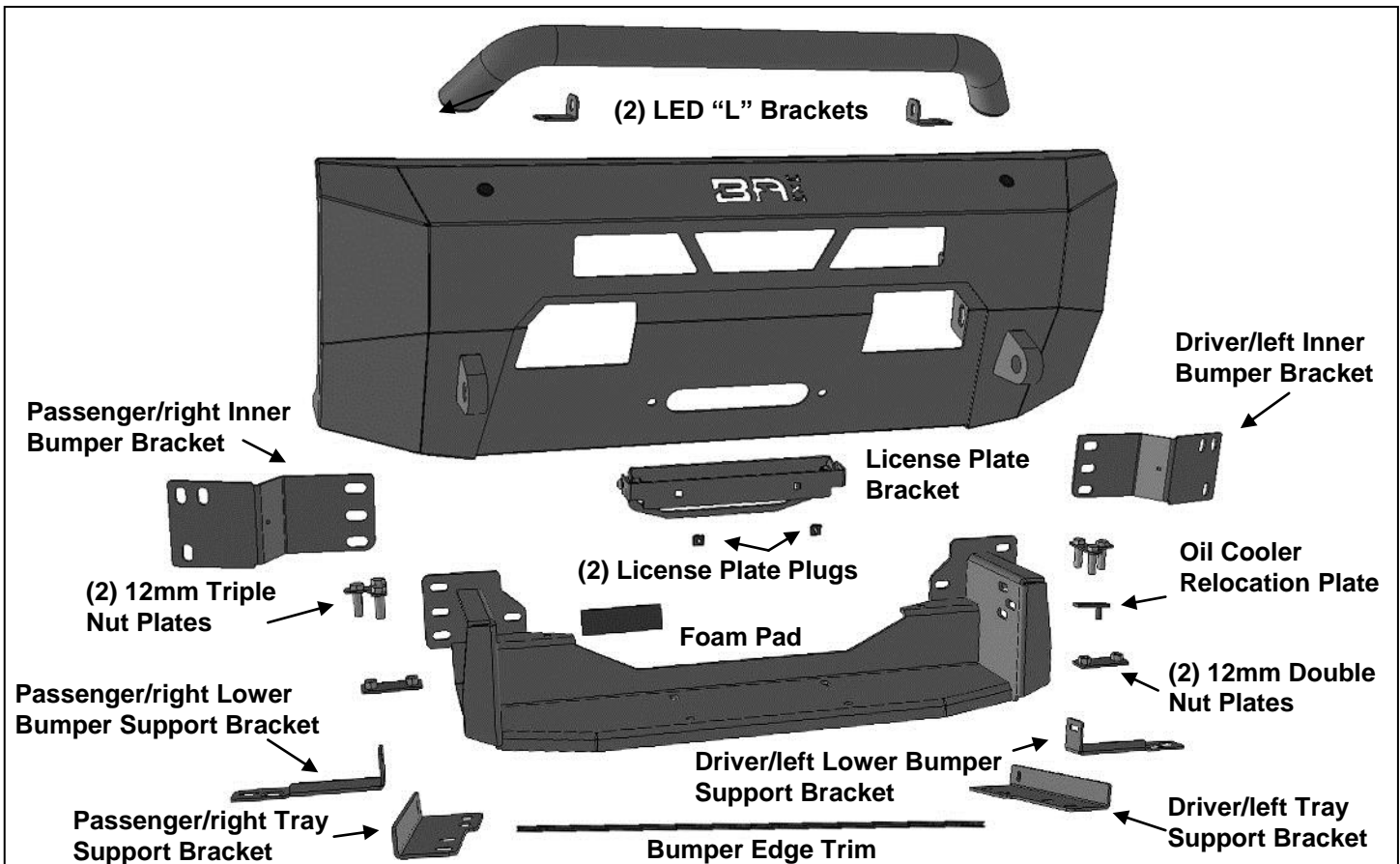


INSTALLATION INSTRUCTIONS

2014-2021 TOYOTA TUNDRA HILINE FRONT WINCH BUMPER PART #TN-19339

PARTS LIST:

1	Hiline Front Bumper	10	12mm Lock Washers
	Winch Tray Bracket Assembly (packed in Bumper)	6	12-1.75mm Hex Nuts
1	Bull Nose Hoop	2	10-1.50mm x 30mm Button Head Bolts
1	Driver/left Tray Support Bracket	2	10-1.50mm x 25mm Hex Bolts
1	Passenger/right Tray Support Bracket	2	10mm x 30mm x 2.5mm Large Flat Washers
1	Driver/left Inner Bumper Bracket	4	10mm x 20mm x 2mm Small Flat Washers
1	Passenger/right Inner Bumper Bracket	4	10mm Lock Washers
1	Driver/left Lower Bumper Support Bracket	2	10-1.5mm Hex Nuts
1	Passenger/right Lower Bumper Support Bracket	1	8-1.25mm x 25mm Countersunk Bolt
2	LED "L" Brackets	2	8-1.25mm x 30mm Hex Bolts
1	Cooler Relocation Plate	2	8-1.25mm x 25mm Hex Bolts
1	2100mm Edge Trim	2	8-1.25mm x 16mm Hex Bolts
1	120mm x 40mm x 3mm Foam Pad	11	8mm x 24mm x 2mm Flat Washers
1	License Plate Bracket	4	8mm Lock Washers
2	Plastic License Plugs	2	8mm Hex Nuts
2	12-1.75mm x 40mm Triple Bolt Plates	3	8-1.25mm Nylon Lock Nuts
2	12mm Double Nut Plates	1	6mm Wrench
4	12-1.75mm x 45mm Hex Bolts	1	5mm Wrench
10	12mm x 32mm x 3mm Flat Washers		



PROCEDURE:

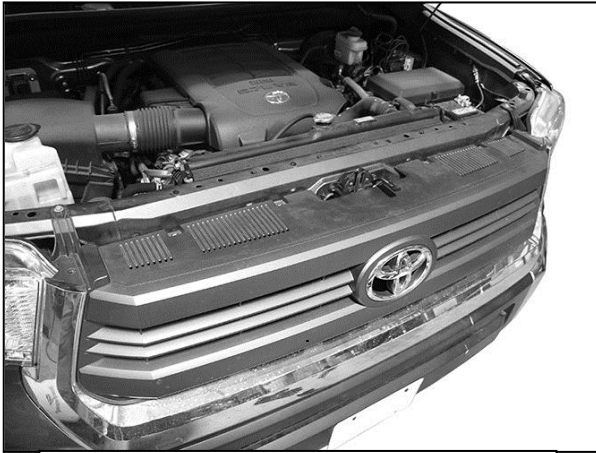
REMOVE CONTENTS FROM BOX. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. ASSISTANCE IS RECOMMENDED TO AVOID POSSIBLE INJURY OR DAMAGE TO THE VEHICLE. CUTTING IS REQUIRED.

1. Open the hood and remove the plastic cover from the top of the radiator and the grille, **(Figure 1)**. Temporarily remove the plastic grille.
2. Move to the driver/left wheel opening. Remove the hardware attaching the plastic cover to the back and bottom of the outer end of the front bumper, **(Figures 2 & 3)**. Next, remove the plastic clip attaching the cover to the side of the frame and remove the cover, **(Figure 4)**.
3. Repeat **Step 2** to remove the plastic cover from the passenger/right side of the vehicle.
4. On models with factory fog lights and/or bumper mounted sensors, unplug the wiring harness leading to the front bumper, **(Figure 5)**.
5. Remove the license plate. Remove hardware attaching plastic cover on bottom of bumper to cross member, **(Figure 6)**. Next, remove both tow hooks. **NOTE:** Large tow hooks cannot be reinstalled
6. Place blocks or jack stands under the front bumper to support it during mounting bolt removal. Once the bumper has been supported, remove the hex nuts attaching the inner bumper bracket to the end of the frame, **(Figure 7)**. **WARNING!** Assistance is required to hold the bumper in place during hardware removal to prevent the bumper from falling. Remove the bumper assembly, **(Figure 8)**.
7. Carefully unwrap the Hiline Bumper/winch tray assembly, **(Figure 9)**. Remove and discard the hex bolts attaching the Winch Tray to the inside of the Bumper.
8. Next, select the Winch Tray Bracket Assembly. Reuse (2) factory flange nuts to attach the Winch Tray to the inner studs on the frame only at this time, **(Figures 10 & 14)**. Do not fully tighten hardware. **IMPORTANT:** Tray installs close to oil cooler hoses on the passenger/right side of the crossmember. Apply the Adhesive Backed Foam Pad to the back of the Winch Tray to protect hoses and cooler.
9. Remove the hex flange bolt attaching the driver/left side of the oil cooler to the top of the crossmember if equipped, **(Figure 11)**. Select the Cooler Relocation Plate. Attach the Plate to the threaded hole in the crossmember with the included 8mm x 25mm Countersunk Bolt, **(Figure 12)**. Use the factory flange bolt and the included (1) 8mm Flat Washer and (1) 8mm Nylon Lock Nut to attach the tab on the cooler to the Relocation Plate, **(Figure 13)**.
10. If a winch, (not included), will be installed, follow manufacturer's instructions to attach winch to Tray and hook up electrical system, **(Figure 14)**.
11. Move to the factory bumper assembly. Remove the hardware attaching the outer bumper brackets and aluminum crossbar to the bumper, **(Figure 15)**.
12. From the back of the factory bumper, remove the narrow grille from the upper opening, **(Figures 16 & 17)**. Turn the bumper over. Use removable tape, (masking tape for example), to make a vertical line from the outer end of the opening straight down along the bottom of the groove in the plastic to close to the bottom of the bumper, **(Figures 18 & 19)**. Follow the raised molded-in line in the plastic to make a short horizontal line. Repeat this **Step** to mark the passenger/right side of the plastic bumper.
13. Use a sharp knife or hacksaw blade to cut the plastic bumper along the tape lines, **(Figure 20)**.
14. Remove the factory outer bumper brackets from the ends of the crossbar, **(Figure 21)**. Select the driver/left Inner Bumper Mounting Bracket. Reuse the factory hardware to attach the Mounting Bracket to the front facing side of the factory bumper bracket, **(Figure 22)**. Reuse the factory hardware to attach the factory bumper bracket and Inner Bracket to the back of the factory bumper, **(Figures 23 & 24)**. Repeat this **Step** to attach the passenger/right Inner Bumper Bracket and factory bumper bracket.
15. With assistance, position the factory bumper assembly up to the outside of the Winch Tray. Reuse the (6) factory flange nuts to attach the Inner Bumper Brackets to the outer studs on the frame and Winch Tray Bracket Assembly, **(Figures 25 & 26)**. Do not fully tighten hardware at this time.
16. Check fit between cut area on factory bumper and Winch Tray Bracket Assembly. Temporarily slide the Hiline Bumper into place and check fit. Trim plastic bumper as needed and move Hiline Bumper to a clean stable work surface.

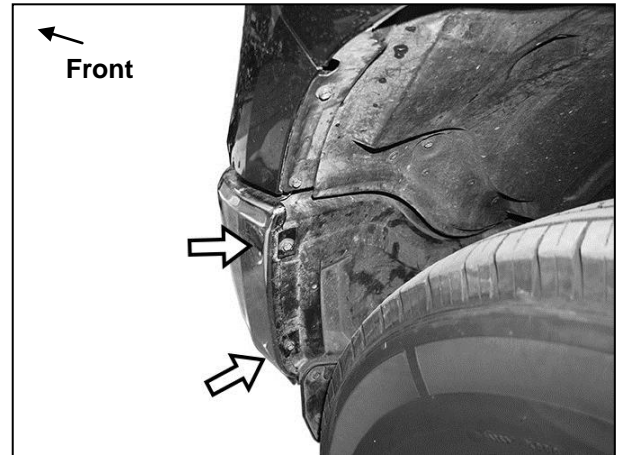
17. Push the included Edge Trim onto the edge of the Hiline Bumper, **(Figure 27)**. Cut Edge Trim to fit.
18. Determine if Bull Nose Hoop, LED Light and/or front License Plate Bracket will be installed. **NOTE:** Installation is easier with Hiline Bumper off vehicle.
Bull Nose Hoop Installation (optional):
 - a. Remove rubber plugs from holes in the Bumper, **(Figure 28)**.
 - b. Use the included (2) 10mm x 25mm Hex Bolts, (2) 10mm Lock Washers and (2) 10mm x 32mm Large Flat Washers to attach Bull Nose Hoop to top of Hiline Bumper, **(Figure 28)**.**Center LED light installation**, (light sold separately, installation is optional).
 - a. Select (1) LED "L" Bracket, **(Figure 29)**. Attach the "L" Bracket to the tab on the back of the Bumper with the included (1) 8mm x 25mm Hex Bolt, (2) 8mm Flat Washers and (1) 8mm Nylon Lock Nut, **(Figure 29)**. Repeat to attach remaining "L" Bracket.
 - b. Attach LED light assembly with the included (2) 8mm x 16mm Hex Bolts, (2) 8mm Lock Washers and (2) 8mm Flat Washers, **(Figure 29)**. Do not fully tighten hardware at this time.
 - c. Adjust light position and tighten hardware.
 - d. Follow light manufacturer's instructions to wire the light to the vehicle's electrical system once Bumper has been fully installed.**Front License Plate Bracket (optional)** and cable guide (guide not included):
 - a. Insert the License Plate Bracket between the Bumper and the winch cable guide, (guide not included), with the included (2) 10mm x 30mm Button Head Bolts, (4) 10mm x 20mm Small Flat Washers, (2) 10mm Lock Washers and (2) 10mm Hex Nuts, **(Figure 30)**.
 - b. Insert (2) Plastic Plugs into the square holes in the Bracket, **(Figure 30)**. Reuse the factory screws to attach the license plate to the Plastic Plugs.
19. With assistance, position the Hiline Bumper up to the outside of the Winch Tray. 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.
20. Select (1) 12mm Tripple Bolt Plate. Insert the Bolt Plate into the opening in the Bumper and out through the driver/left side of the Bumper and Winch Tray, **(Figure 31)**. Attach the Hiline Bumper to the Bolt Plate with the included (3) 12mm Flat Washers, (3) 12mm Lock Washers and (3) 12mm Hex Nuts, **(Figures 32 & 33)**. Leave hardware loose. Repeat this **Step** to attach the passenger/right side.
21. Select the driver/left Winch Tray Support Bracket. Place (1) 12mm Double Nut Plate onto the mounting tab on the driver/left side of the Winch Tray, **(Figure 34)**. Line up the (2) forward slots on the Support Bracket with the slots in the mounting tab. Attach the Support Bracket to the bottom of the tab and the Double Nut Plate with (2) 12mm x 45mm Hex Bolts, (2) 12mm Lock Washers and (2) 12mm Flat Washers, **(Figure 34)**. Reuse the tow hook hardware from **Step 5** to attach the Support Bracket to the threaded holes in the bottom of the frame. Models equipped with "small tow hook," attach Support Bracket between tow hook and frame. Do not tighten hardware. Repeat this **Step** to attach the passenger/right Winch Tray Support Bracket. **NOTE:** Large loop tow hooks cannot be reinstalled.
22. Level and adjust the Hiline Bumper to the vehicle and the factory bumper and fully tighten all hardware.
23. Select the driver/left Lower bumper Support Bracket. Attach the Support Bracket to the slot in the side of the Winch Tray Support Bracket with (1) 8mm x 30mm Hex Bolt, (2) 8mm Flat Washers, (1) 8mm Lock Washer and (1) 8mm Hex Nut, **(Figure 35)**. Reuse the factory bumper bracket bolt to attach the outer end of the Support Bracket to the bottom of the factory bumper, **(Figure 36)**. Repeat this **Step** to attach the passenger/right Lower Bumper Support Bracket.
24. Reinstall the plastic grille and top cover, **(Figure 1)**. Reattach the ends of the factory bumper and reinstall the plastic covers. Plug bumper wiring harness into main harness.
25. 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 Hiline Front Bumper assembly.

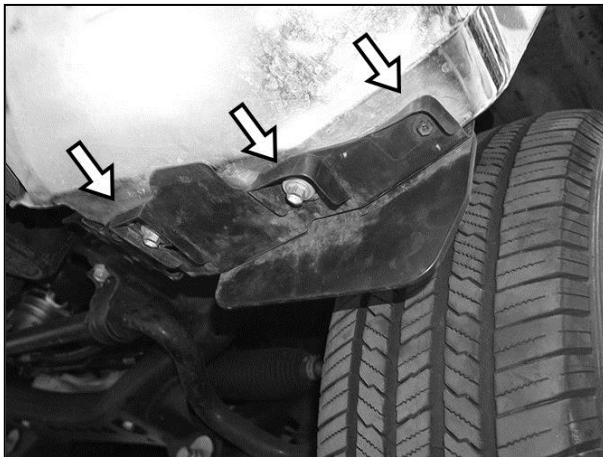
Driver/left Side Installation Pictured



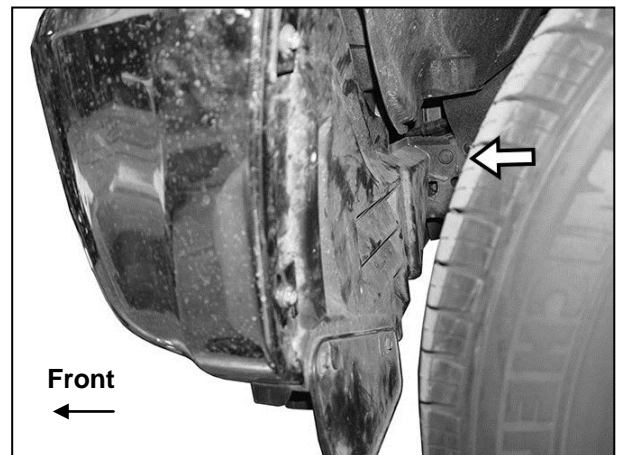
(Fig 1) Remove plastic cover and grille



(Fig 2) Remove hardware attaching plastic cover to back of bumper (arrows)



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



(Fig 4) Remove clip attaching plastic cover to side of frame, (arrow), and remove cover

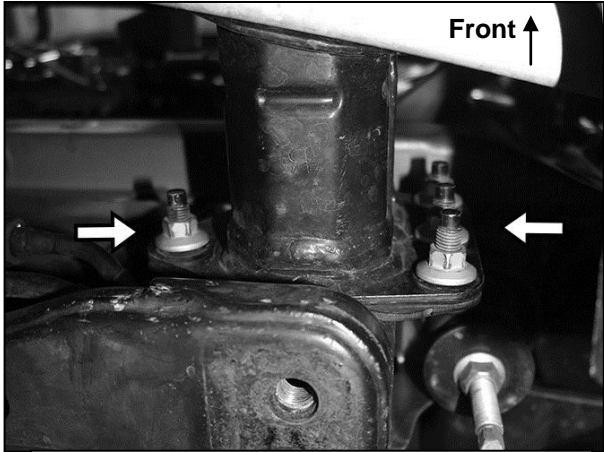


(Fig 5) Disconnect fog lights and move wiring harness away from bumper (arrow). Passenger side of bumper pictured

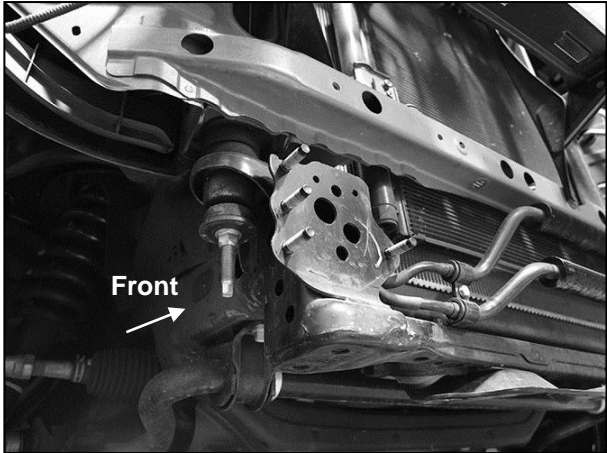


(Fig 6) Remove hardware attaching plastic cover on bottom of bumper to cross member (arrows), Remove tow hooks

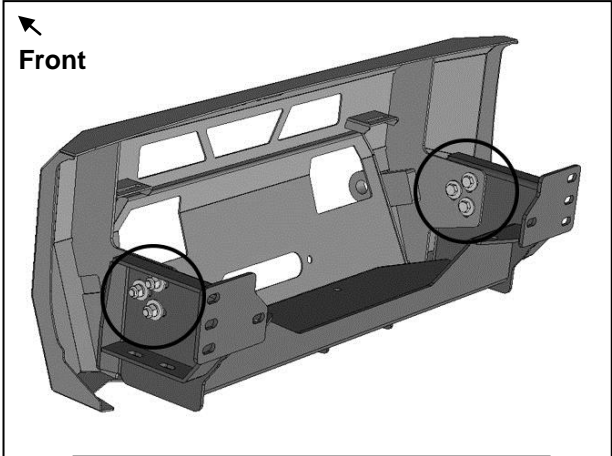
WARNING! Do not remove bumper hardware unless the bumper is properly supported on blocks or stands or it may fall.



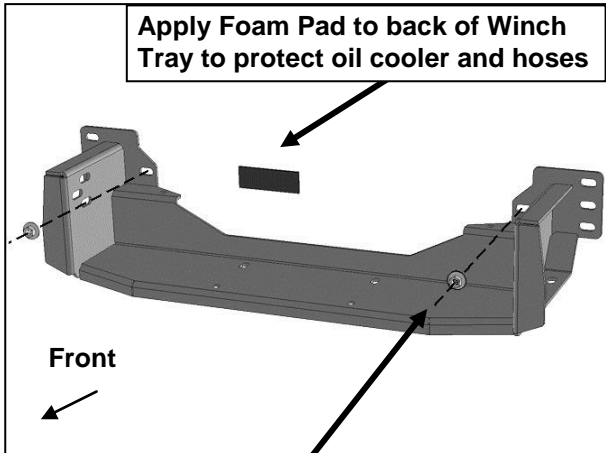
(Fig 7) Remove hex nuts attaching bumper brackets to end of frame.



(Fig 8) Passenger/right side frame mounting location (bumper & grille removed)



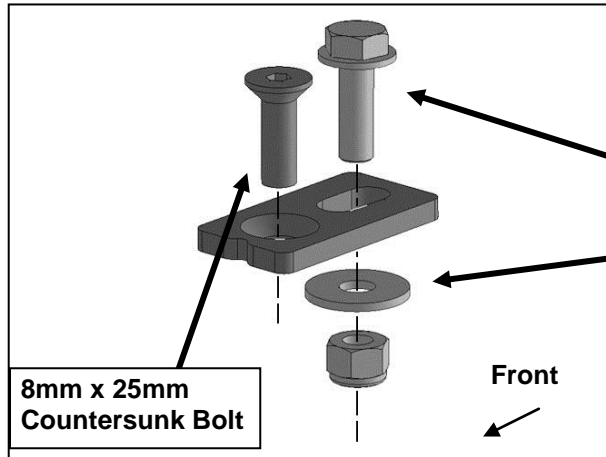
(Fig 9) Remove hardware (circled) to separate Winch Tray from Bumper. Discard hardware



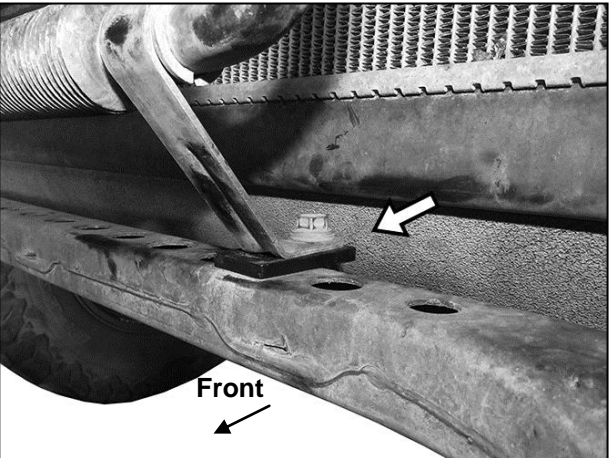
(Fig 10) Reuse (2) factory flange nuts to attach Winch Tray to inner studs on end of frame



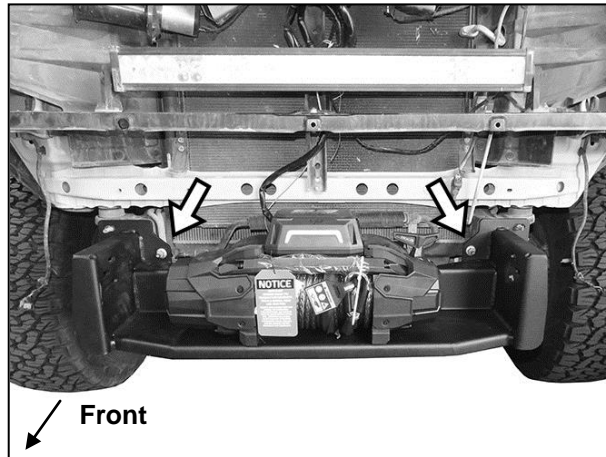
(Fig 11) Remove hex bolt attaching driver/left side of cooler to frame crossmember (arrow)



(Fig 12) Reuse factory flange bolt to attach cooler to top of Relocation Plate

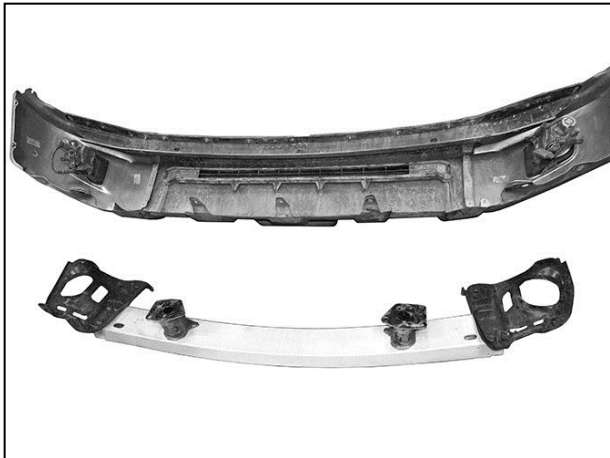


(Fig 13) Relation Plate and cooler reinstalled

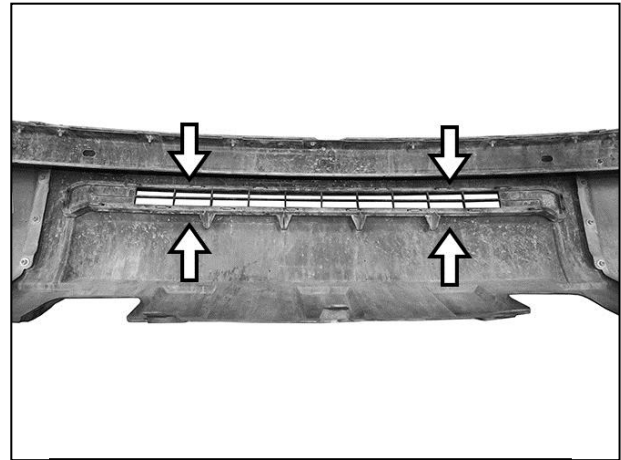


(Fig 14) Winch Tray installed (note winch not included)

Driver/left Side Installation Pictured



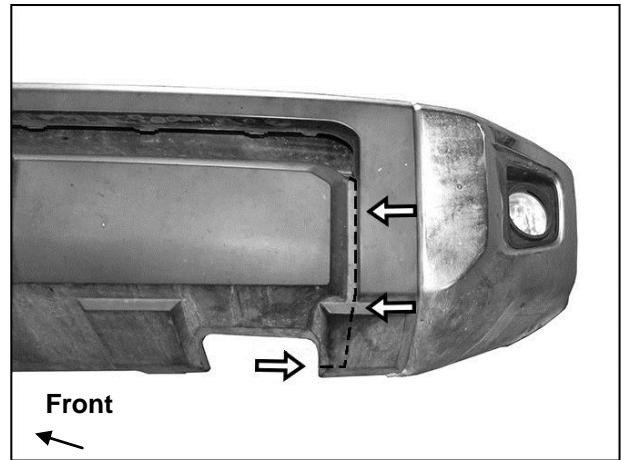
(Fig 15) Remove impact bumper and brackets from back of factory bumper



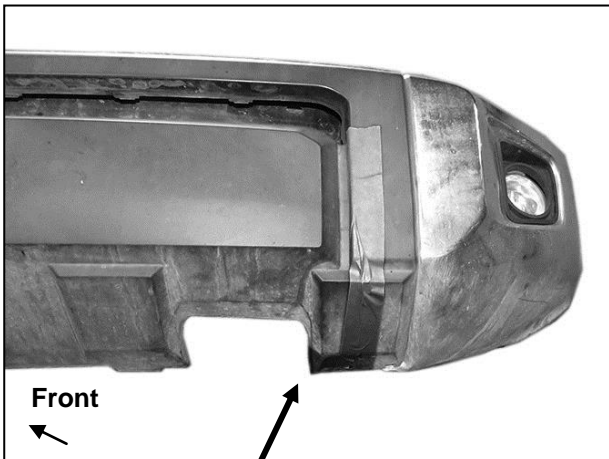
(Fig 16) Remove upper grille from back of plastic bumper section (arrows)



(Fig 17) Remove upper grille from back of plastic bumper section

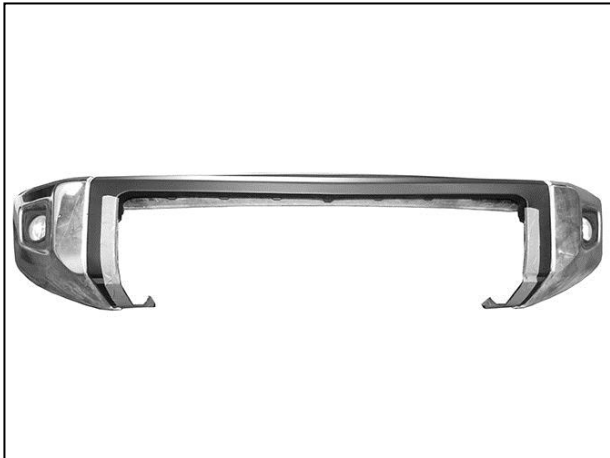


(Fig 18) Locate edge and lower raised section on front of plastic center panel (arrows)

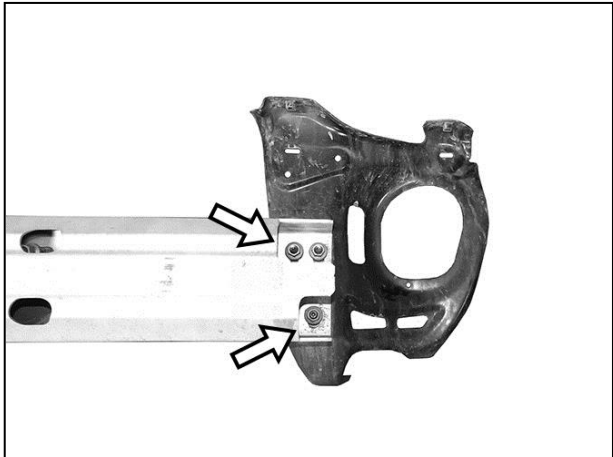


(Fig 19) Use masking tape to draw a straight guideline down and inward. Carefully cut along guidelines

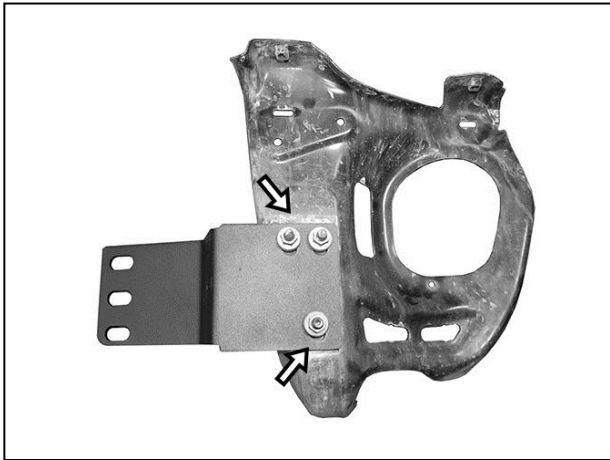
Driver/left Side Installation Pictured



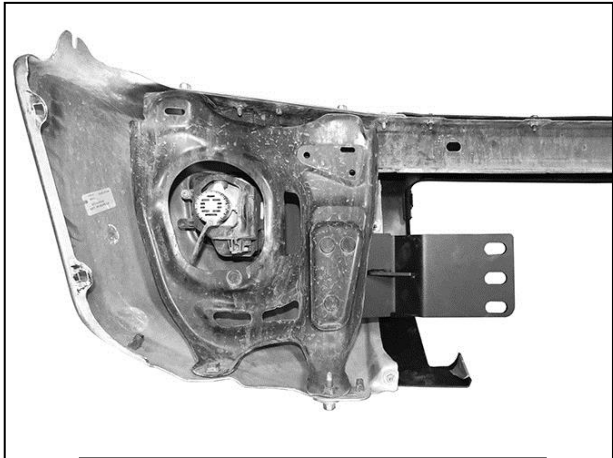
(Fig 20) Plastic center section on front bumper cut



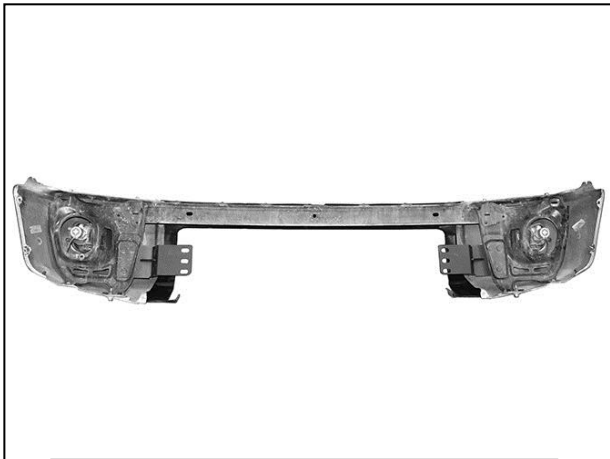
(Fig 21) Remove bumper brackets from ends of aluminum impact bumper



(Fig 22) Reuse flange nuts to attach Inner Bumper Bracket to factory bumper bracket

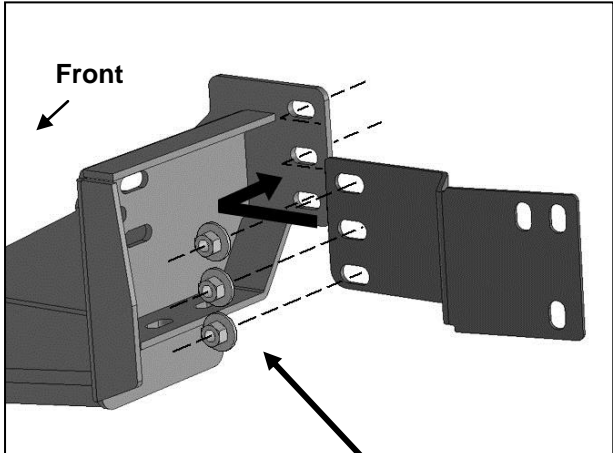


(Fig 23) Reuse factory hardware to attach bumper bracket and Inner Bracket to factory bumper

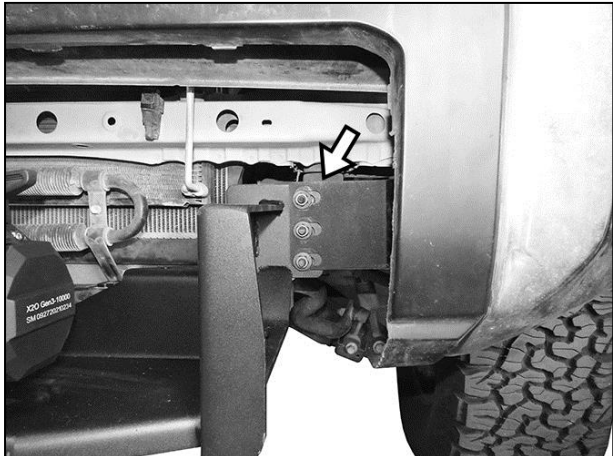


(Fig 24) Factory bumper reassembled (pictured from back of bumper)

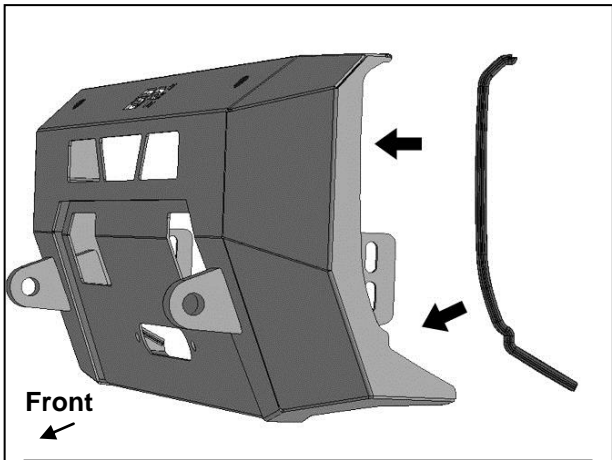
Driver/left Side Installation Pictured



(Fig 25) Reuse the factory flange nuts to attach the Inner Bumper Brackets on the bumper assembly to the Winch Tray and frame

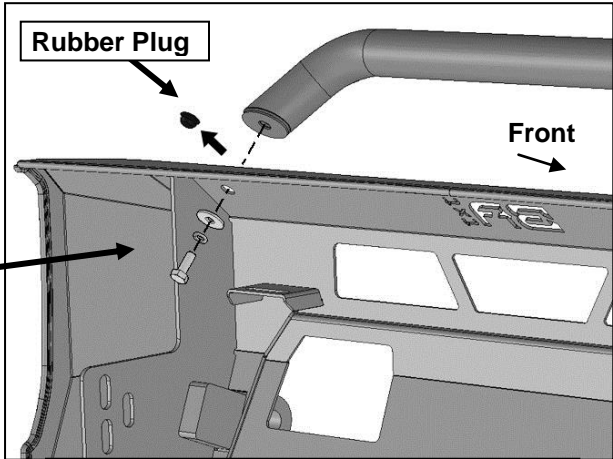


(Fig 26) Reuse the factory flange nuts to attach the Inner Bumper Brackets on the bumper assembly to the Winch Tray and frame



(Fig 27) Push the edge trim onto the Hiline Bumper. Note Edge Trim must be cut to fit

- 10mm x 25mm Hex Bolt
- 10mm Lock Washers
- 10mm x 32mm Large Flat Washer

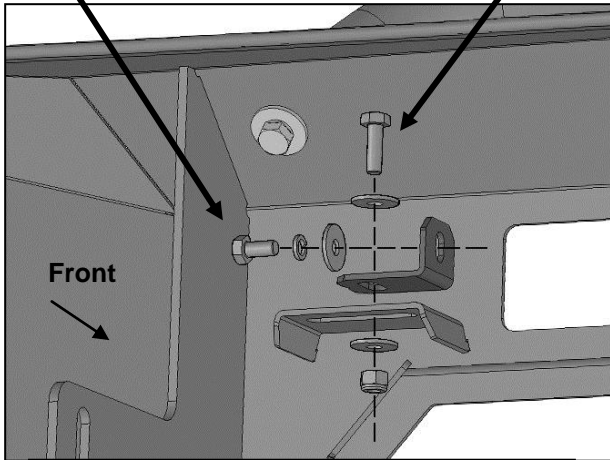


(Fig 28) Remove Rubber Plugs to attach Bull Nose Hoop to top of Hiline Bumper

Driver/left Side Installation Pictured

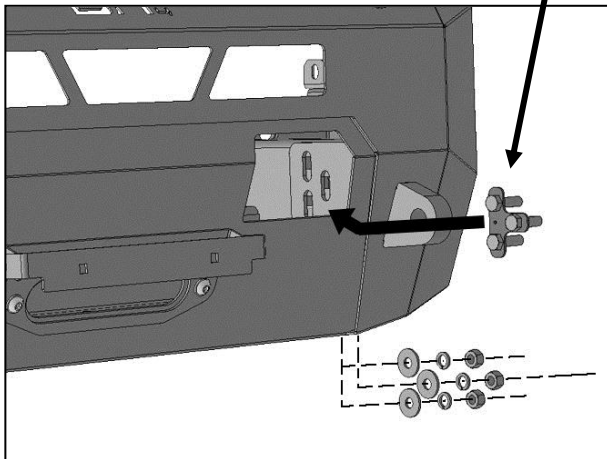
- 8mm x 16mm Hex Bolt
- 8mm Lock Washer
- 8mm Flat Washer

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



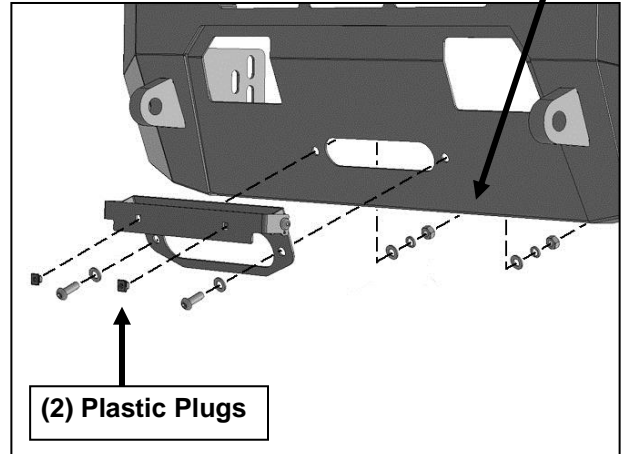
(Fig 29) Attach LED bar style light to "L" Brackets (driver/left side illustrated)

- 12mm Triple Bolt Plate
- (3) 12mm Flat Washers
- (3) 12mm Lock Washers
- (3) 12mm Hex Nuts

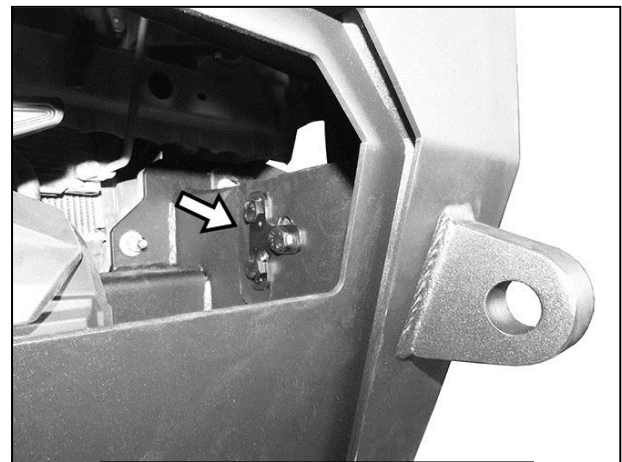


(Fig 31) Insert Triple Bolt Plate into opening in Hiline Bumper (see Figure 32). Push Bolt Plate through side of Bumper and Winch Tray

- (2) 10mm x 30mm Button Head Bolts
- (4) 10mm x 20mm Small Flat Washers
- (2) 10mm Lock Washers
- (2) 10mm Hex Nuts

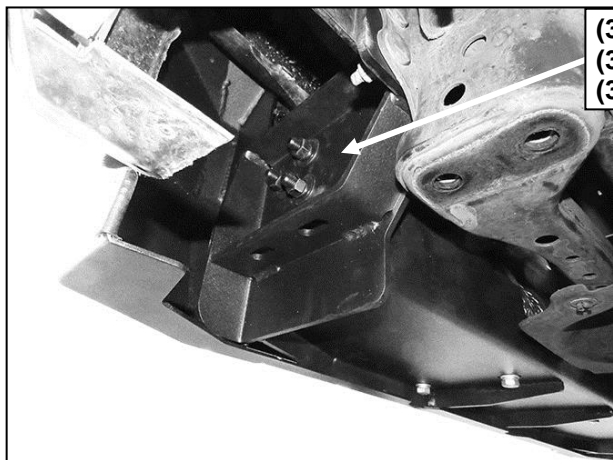


(Fig 30) Attach License Plate Bracket to Bumper if required. NOTE: Install Bracket between Bumper and winch cable guide. Push Plastic Plugs into square holes in License Plate Bracket and attach plate to Plugs



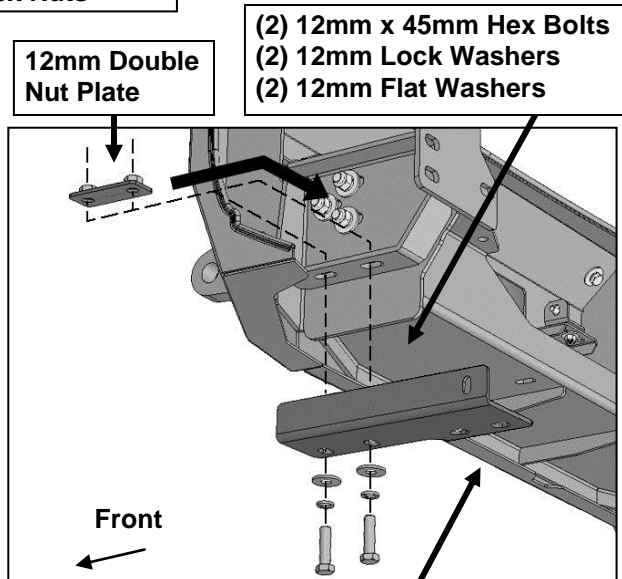
(Fig 32) Push Bolt Plate through side of Bumper and Winch Tray

Driver/left Side Installation Pictured

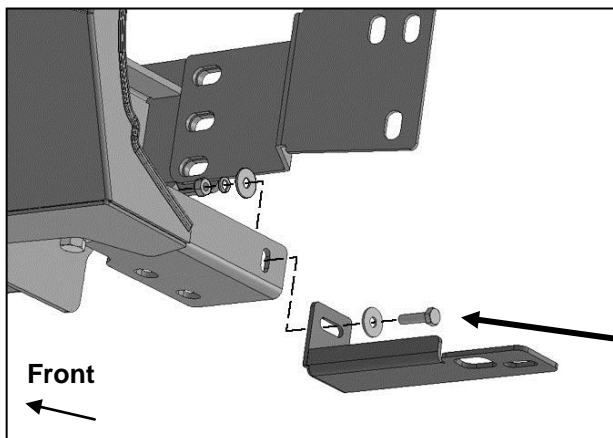


- (3) 12mm Flat Washers
- (3) 12mm Lock Washers
- (3) 12mm Hex Nuts

(Fig 33) Driver/left side of Bumper and Winch Tray pictured from below



(Fig 34) Attach Winch Tray Support Bracket to bottom of tab on Tray. Reuse tow hook hardware to attach Bracket to bottom of frame

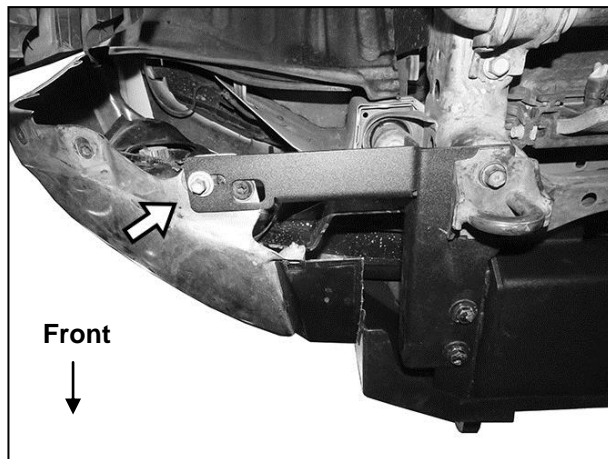


- 8mm x 30mm Hex Bolt
- (2) 8mm Flat Washers
- 8mm Lock Washer
- 8mm Hex Nut

(Fig 35) Attach Lower Bumper Support Bracket to side of Winch Tray Support Bracket



Complete Installation
(Accessories not included)



(Fig 36) Reuse factory hex bolt to attach Lower Bumper Support Bracket to bottom of bumper (arrow)