

## INSTALL INSTRUCTIONS FOR 03-09 4RUNNER PRERUNNER BUMPER

### READ THROUGHOUT BEFORE INSTALLING BUMPER!

#### DETAILS:

- Will only work with 03-09 Toyota 4runners.
- Removal/cutting of factory bumper brackets is required.
- Designed for stock body height and suspension lifted vehicles only. Having a body lift will result in a gap between the bumper and body.
- Will NOT fit a winch. This is a prerunner style bumper.
- On raw steel orders there may be evidence of anti-spatter spray, oils, areas with light surface rust, small amounts of weld splatter, and shallow scratches caused during manufacturing and/or shipping.
- **Powdercoating will NOT be warrantied in any way** from damage, scratches, rub marks, rust, or fading caused during shipping or from normal use. It will be packaged appropriately but we cannot control how the carrier handles the package during transit. There may also be evidence of small scratches or weld splatter under the powdercoating that was caused during manufacturing.
- Intended for offroad use only.
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#### WHATS INCLUDED:

- BUMPER PARTS
  - 1X CENTER TUBE WELDMENT
  - 1X LEFT WING TUBE WELDMENT
  - 1X RIGHT WING TUBE WELDMENT
  - 1X CENTER ALUMINUM SKID PLATE
  - 1X LEFT PLASTIC VALANCE
  - 1X RIGHT PLASTIC VALANCE
  - 2X ALUMINUM LIGHTBAR BRACKETS
- BUMPER HARDWARE
  - 4X M8\*22MM STAINLESS FLANGED BUTTON HEAD BOLTS
  - 8X M6\*14MM STAINLESS FLANGED BUTTON HEAD BOLTS
  - 8X M12\*30MM YELLOW ZINC GRADE 8 FLANGED HEX BOLTS
  - 16X YELLOW ZINC GRADE 8 WASHERS (1.06" OD X .05" ID)
  - 4X M12 YELLOW ZINC GRADE 8 NYLON LOCKNUTS
  - 8X M10 ZINC FLANGE NUTS
  - 8X ZINC WASHERS (1.00 OD X .41 ID)
- LIGHTBAR BRACKET HARDWARE
  - 4X M5\*15MM STAINLESS FLATHEAD BOLTS
  - 4X M5 NYLON LOCKNUTS
  - 4X STAINLESS WASHERS (.35 OD X .21 ID)

## MODIFICATIONS TO VEHICLE:

- 1) Remove stock bumper, fog lights, crash bar, and any bolt on brackets that held the plastic bumper cover.



- 2) Cut off bottoms of bumper brackets on both fenders.



- 3) Bend in tabs on the front of both bumper brackets on the fenders.



- 4) Remove or cut back the bracket that sticks out near the center of the radiator. Can either trim it back or drill out the spot welds and remove it completely. If drilling out welds, be careful to not slip and damage the radiator. (Shown with it drilled out)





5) Cut back brackets under headlights on both sides.



6) Recommended to clean any cut areas and coat with spray paint to prevent rust from forming.

7) Cut wheel well liners. Using a sharpie or masking tape, mark a line going from the corner of the fender flare down to bottom of the liner that's closest to the truck frame. Ensure there are no wires directly behind your marked line. CAREFULLY cut along the line with a sharp box cutter.



### **LIGHTBAR INSTALL:**

- 1) Test lightbar prior to install.
- 2) Take aluminum lightbar brackets and using the hardware that came with the lightbar, loosely install them on either end of the bar. The short flanges on the brackets should be towards the front of the bar and facing away.
- 3) Set the center tube weldment lying face down on a table with the area that holds the lightbar hanging over the edge.
- 4) Set the lightbar into its area on the bumper and align the slots on the brackets with the countersunk holes on either side of the bumper.
- 5) Take the flat head M5 bolts and push them thru the countersunk holes on the front of the bumper. Take the washer and locknut and loosely install them on the backside.
- 6) Adjust the angle of the bar to your desired position and centered it side to side within the bumper.
- 7) Tighten all hardware.

\*\*\* The pictures bellow are of a prototype bumper and have fixed lightbar brackets. It will look slightly different than yours. \*\*\*

### **VEHICLE INSTALL:**

- 1) Ensure all parts and hardware are accounted for.
- 2) Complete all modifications to vehicle listed above.
- 3) If running lightbar, complete install instructions above.
- 4) Take the center tube weldment section (with or without lightbar installed) and install it on the studded mounting plates on the front of the frame rails. Add a ZINC WASHER (1.00 OD X .41 ID) and M10 ZINC FLANGE NUT to each of the studs. Thread them on the studs 99% of the way but leave them a little loose.



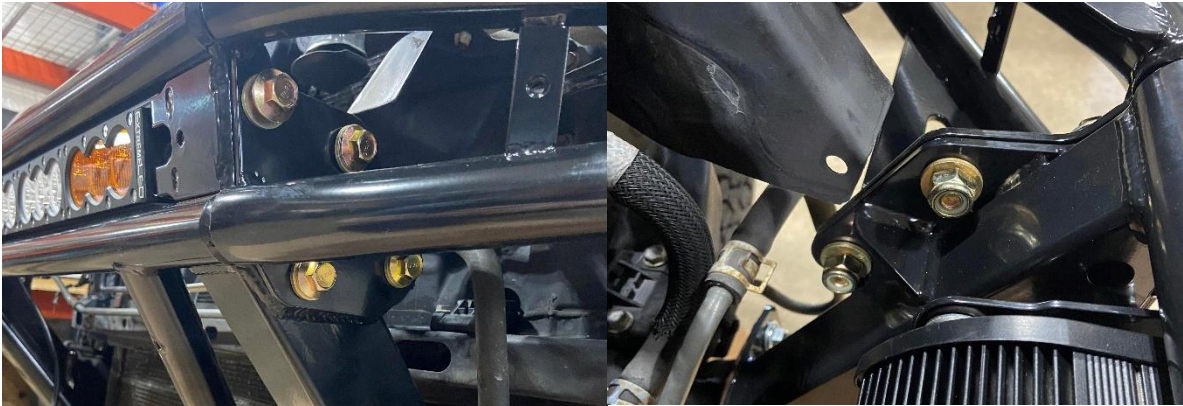
- 5) Take 4X M12\*30MM YELLOW ZINC GRADE 8 FLANGED HEX BOLTS and preinstall one of the YELLOW ZINC GRADE 8 WASHERS (1.06" OD X .05" ID) on each of them.



- 6) Hold up one of the wing tube weldments to the side of the center section and thread in the front two bolts to the weldnuts inside the rectangular tube. Thread the bolts in but leave them a little loose.



- 7) Install the other two bolts thru the back holes. Add another washer and a M12 YELLOW ZINC GRADE 8 NYLON LOCKNUT to each of the bolts on the other side of the brackets. Thread the nuts on but leave them a little loose.



- 8) OPTIONAL: Follow these steps if you would like the wings to fit a little tighter and parallel to the fenders and area under the headlights. If you are doing a lot of off-roading and flexing your suspension often, its recommended to skip these steps and leave a larger gap between the wings and fenders. (Before vs after)



- a) Loosen the upper two bolts and completely remove the lower two bolts.
- b) Angle the wing up so there is a gap between the brackets.
- c) Put one of the washers between the brackets over the rear lower hole. Use a pin or small screwdriver to move the washer into position.



- d) Let the wing rest down to put pressure on the washer and hold it in place.
- e) Loosely install bolt, washer, and locknut.
- f) Angle the wing up so there is a gap between the brackets.
- g) Put one of the washers between the brackets over the forward lower hole. Use a pin or small screwdriver to move the washer into position.



- h) Let the wing rest down to put pressure on the washer and hold it in place.
- i) Loosely install bolt and washer.





- 9) There is a little adjustability in the rotation of the wing. Position it how you want it and tighten down the bolts.
- 10) Repeat steps 3-7 for the opposite side of the vehicle.
- 11) The mounting plates that attach the center section to the vehicle frame have slots to give a little more adjustability. Raise or lower either side to get an even gap between the top of the bumper and vehicle. Once desired gap is achieved, tighten hardware.

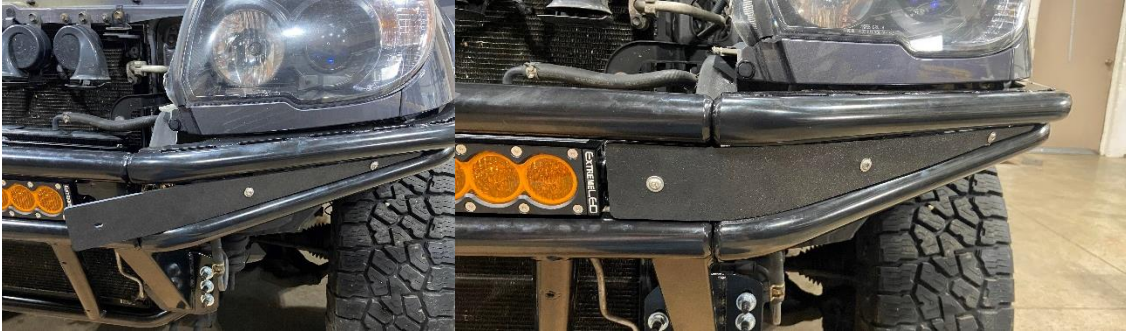


- 12) Take one of the plastic valences and figure out which side to install. On the end of the valence there should be a small angle. That angle should be sloping upward and away from the center of the bumper. The textured side is intended to be facing outward, but if desired you can have the smooth side facing out.





- 13) Loosely install three of the M6\*14MM STAINLESS FLANGED BUTTON HEAD BOLTS. Starting on the outside of the bumper and working your way to the center.



- 14) Move the valence around and even out any gaps between it and the wing tubes then tighten down the bolts.  
15) Repeat steps 11-13 for opposite side of vehicle.  
16) Align the aluminum skid over the bottom of the center section and install the 4X M8\*22MM STAINLESS FLANGED BUTTON HEAD BOLTS.



- 17) If your state requires a front license plate, install it centered on the aluminum skid using the remaining two M6\*14MM STAINLESS FLANGED BUTTON HEAD BOLTS. Do NOT overtighten bolts!



- 18) Wire lightbar.  
a) Sorry no detailed instructions for this step as there are too many different ways to do it. But contact us if you are having trouble and we'd be happy to help or provide resources.  
19) Enjoy your new bumper and send us cool pictures!