

# Installation Instructions

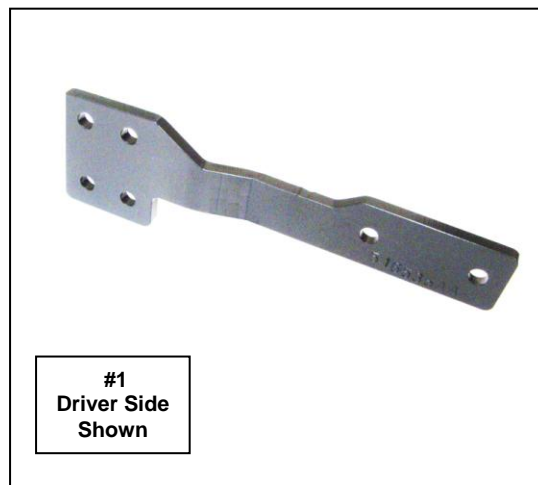
## Road Defender Push Bumper Part #5165

### 2015-2020 Chevrolet Tahoe PPV

Do not attempt to install this product on any vehicle other than the one listed above!

#### Parts List

Item	Qty.	Part #	Description	Torque
1	1 Pr.	516535AA	Main Bracket	
2	2	516545AA	Auxiliary Bracket	
3	2		5/16" Bolt Plate	15 Ft. Lbs.
4	2		5/16" Flat Washer	
5	2		5/16" Lock Washer	
6	2		5/16" Hex Nut	
7	6		M12 T-Bolt	
8	4		M12 x 40mm Hex Bolt	65 Ft. Lbs.
9	2		M12 X 130MM Hex Bolt	93 Ft. Lbs.
10	10		M12 Flat Washer	
11	10		M12 Lock Washer	
12	10		M12 Hex Nut	
13	4		1/2" x 1 1/2" Hex Bolt	75 Ft. Lbs.
14	4		1/2" Flat Washer	
15	4		1/2" Lock Washer	
16	4		1/2" Hex Nut	



#### Assembly & Installation Tools Required

1/2", 3/4", 18mm & 19mm Socket  
 1/2", 3/4", 18mm & 19mm Wrench  
 Ratchet & Ratchet Extension

Approximate installation time: 60 min

#### Note:

**\*Read the assembly and installation instructions completely and verify that all of the parts listed are accounted for. If you have defective, missing or damaged parts or need assistance, please contact Go Rhino Products at: 1-888-427-4466 or email: [warranty@gorhino.com](mailto:warranty@gorhino.com)**

**\*Protect the outer bumper cover prior to the installation.**

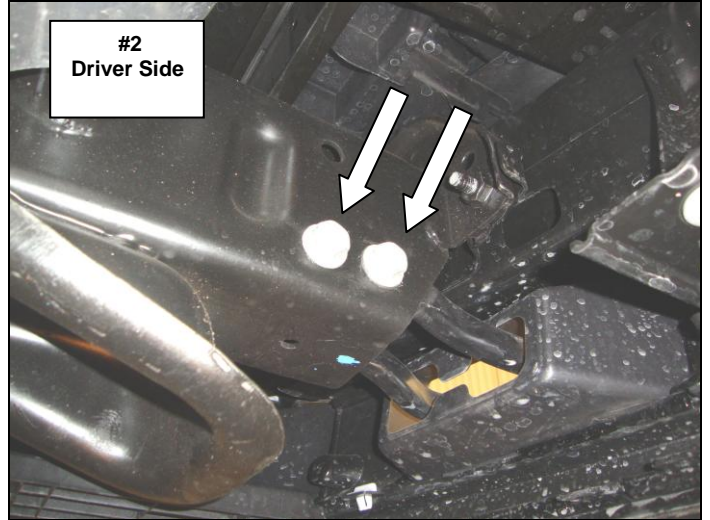
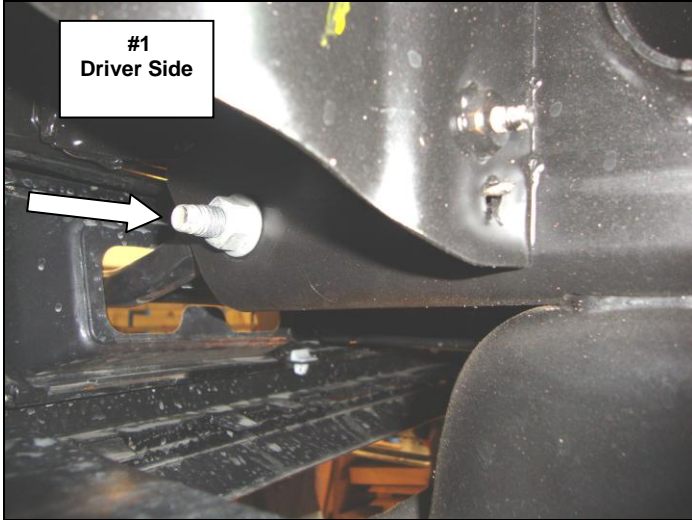
**\*Remove any factory undercoating on areas of the frame surface that the main and auxiliary Brackets contact.**

**\*Torque down all nuts and bolts to specifications listed. Use of pneumatic impact wrench recommended.**

## Installation

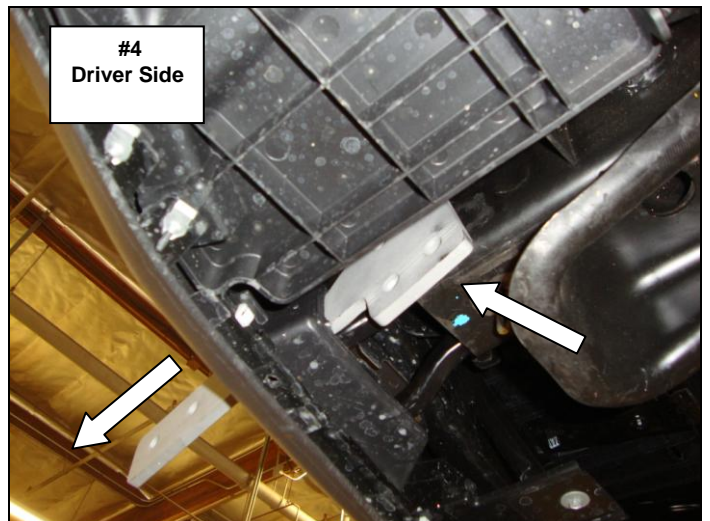
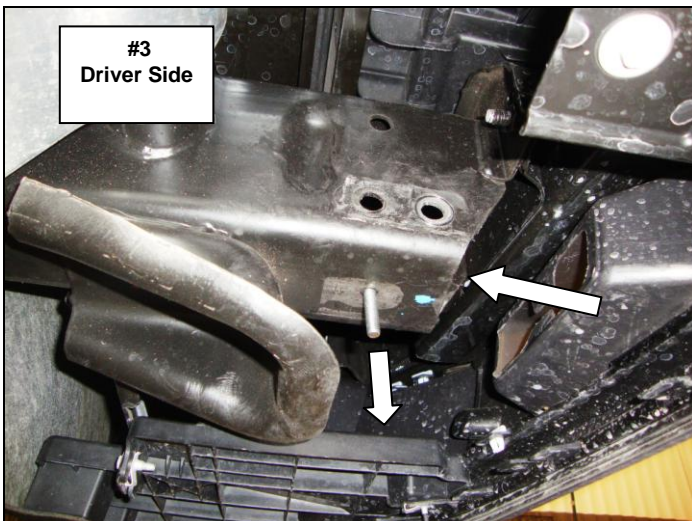
**Step-1** Begin by removing the nut, bolts and tow hook from the driver side frame, **(Photo 1 & 2)**.

**Note:** The tow hook will be reinstalled.



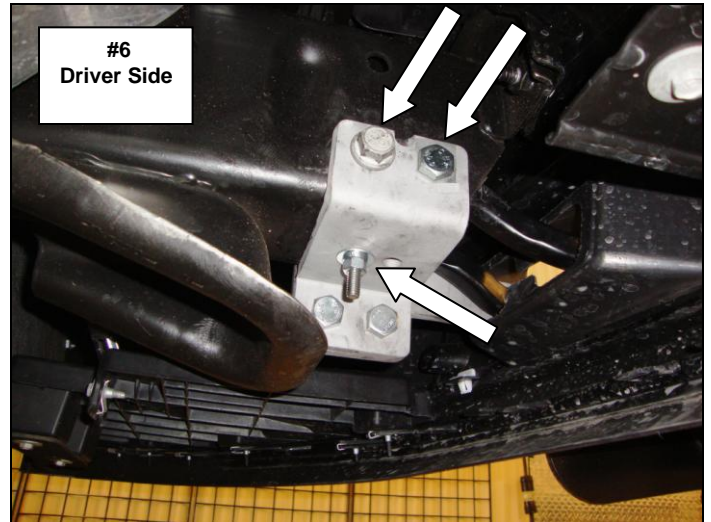
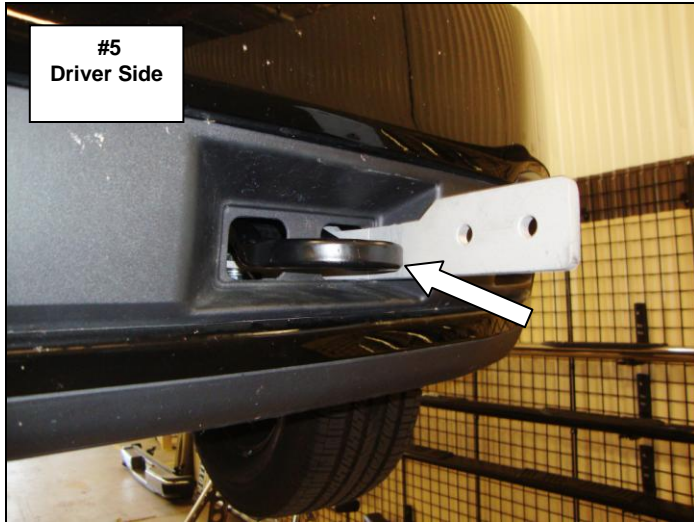
**Step-2** From the opening at the end of the frame, place one of the 5/16" bolt plates inside the frame, and position the bolt plate so the threads extend out through the hole in the bottom of the frame, **(Photo 3)**.

**Step-3** From behind the bumper valance, position the driver side main bracket so the leg of the bracket extends out through the tow hook opening, then rotate and align the bracket with the outer side of frame, **(Photo 4)**.



**Step-4** Reposition the tow hook inside the frame, **(Photo 5)**.

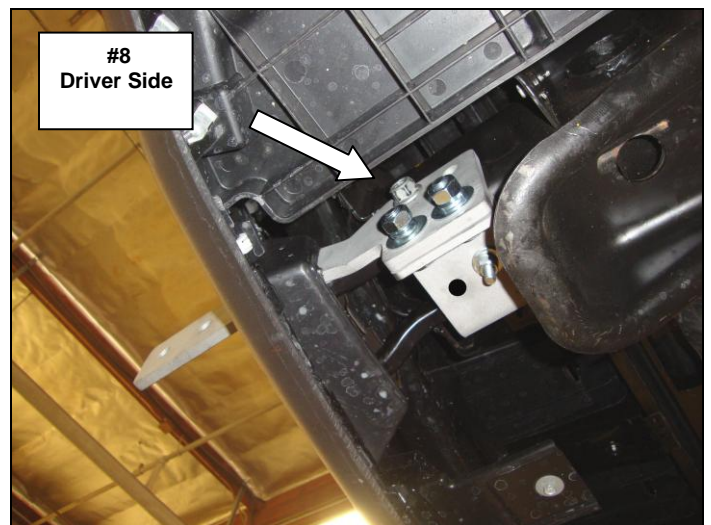
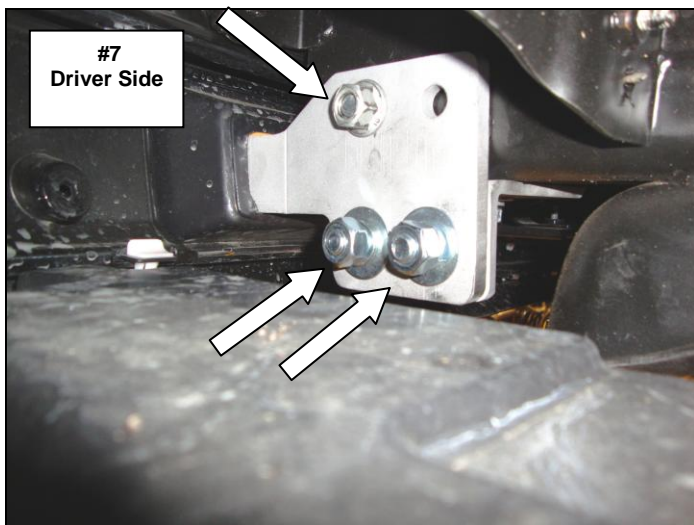
**Step-5** With the tow hook positioned inside the frame, align the holes and attach one of the auxiliary brackets and tow hook to the frame using the factory tow hook rear bolt. Attach the opposite end of the auxiliary bracket, the tow hook and the driver side main bracket to the holes at the front of the frame using one of the supplied M12 x 130mm hex bolts and the factory tow hook nut. Secure the auxiliary bracket to the bottom of the frame using the 5/16" bolt plate, (1) 5/16" flat washer, (1) 5/16" lock washer and (1) 5/16" hex nut, **(Photo 6)**. Leave the nuts and bolts loose for final adjustment.



**Step-6** Align the holes and attach the auxiliary bracket to the driver side main bracket using (2) M12 x 40mm hex bolts, (2) M12 flat washers, (2) M12 Lock washers and (2) M12 hex nuts. Leave the nuts and bolts loose for final adjustment, **(Photo 7 & 8)**.

**Note:**

If your vehicle is not equipped with factory tow hooks, attach the main bracket and auxiliary bracket to the frame using the supplied M12" T-Bolts, M12" flat washers, M12" lock washers and M12" hex nuts.

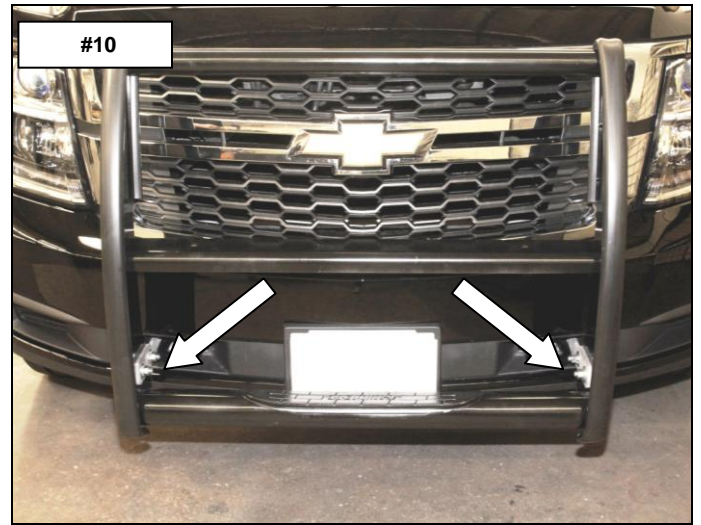
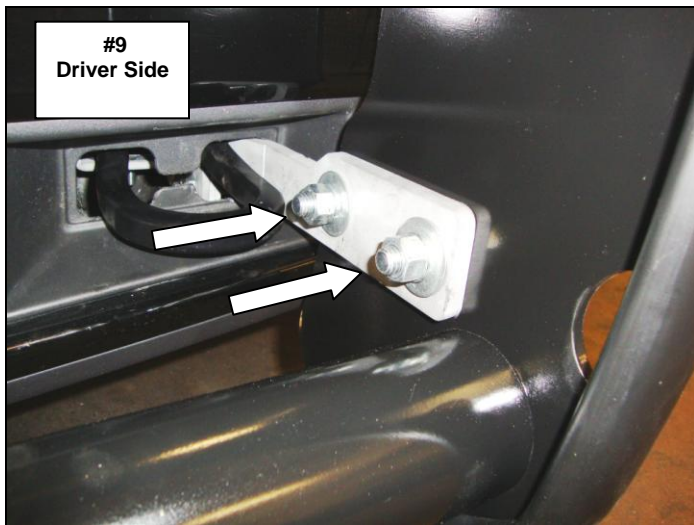


**Step-7** Repeat steps 1, 2, 3, and 4 for the passenger side.

**Step-8** With the tow hook positioned inside the frame, align the holes and attach the remaining auxiliary bracket, the tow hook and the passenger side main bracket to the holes at the front of the frame using the supplied M12 x 130mm hex bolt and the factory tow hook nut. Attach opposite end of the passenger side main bracket and tow hook to the frame using the factory tow hook rear bolt. Secure the auxiliary bracket to the bottom of the frame using the 5/16" bolt plate, (1) 5/16" flat washer, (1) 5/16" lock washer and (1) 5/16" hex nut. Leave the nuts and bolts loose for final adjustment.

**Step-9** Repeat step 6.

**Step-10** With assistance, position and attach the push bumper to the outside of each main bracket using (2) 1/2" x 1 1/2" hex bolts, (2) 1/2" flat washers, (2) 1/2" lock washers and (2) 1/2" hex nuts, (**Photo 9 & 10**). Leave the nuts and bolts loose for final adjustment.



**Step-11** Align the push bumper with the vehicle and tighten all factory and supplied nuts and bolts, (**Photo 11**).



Remember to periodically check and retighten all factory and supplied the nuts and bolts.