

INSTALLATION GUIDE

Rear Bumper



From the stock bumper you removed from vehicle, you'll need to take the parking sensor wiring from it and feed it into the new bumper. (See Fig 1A - 1C)

1A



1B

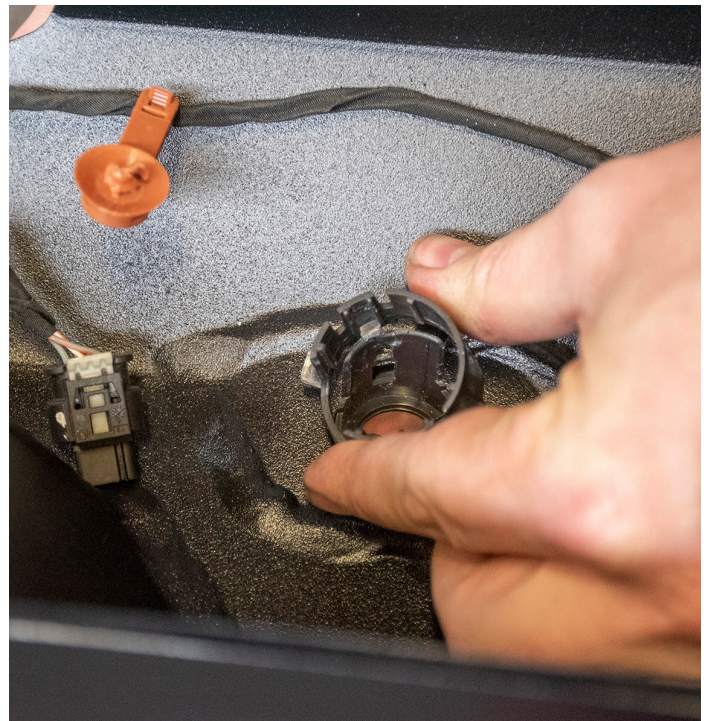


1C



1D

From the inside of bumper, you'll need to insert the outer sensor housing shown in Fig 1D into each sensor cutout on the bumper.



2A



2B

Carefully insert the sensor itself into the outer housing you put into place, making sure it fits snug.



2C

Next, we'll be placing the provided small frame brackets into position within the frame well shown in Fig 2C.

Place this using double backed tape as this bracket will be tightened after the bumper is placed into position.



2D

With the help of a friend, carefully place the bumper onto the rear frame, checking for alignment on each end to make sure it's sitting flush and even.



Once bumper is in position, you'll need to climb underneath and insert the stock bolt for the top hole (that came off of stock vehicle) and (2) provided bolts for the bottom two holes (see Fig 3A). Make sure to use provided washers and nyloc nuts to secure bumper to vehicle.

**We recommend checking one last time that the bumper spacing and position is where you want it before tightening down completely.

3A

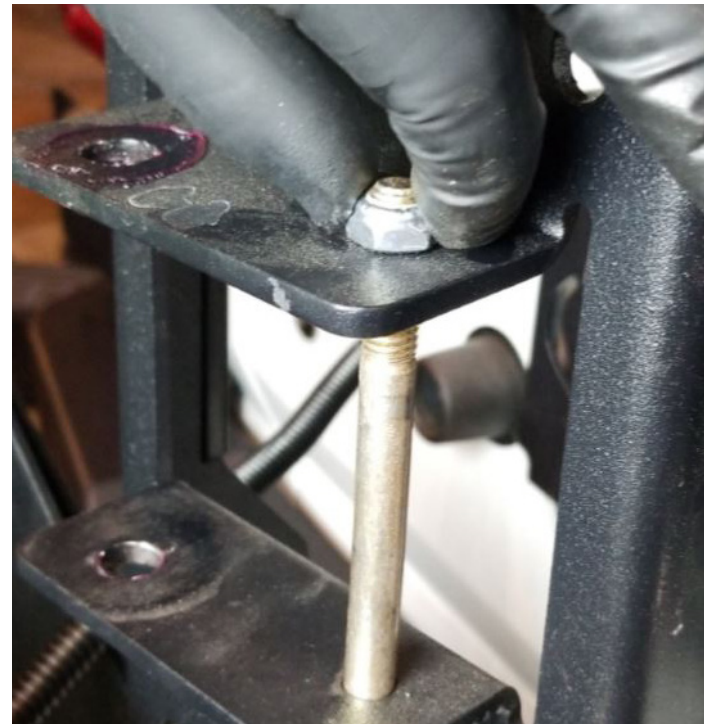


3B

Next we'll be attaching the provided door plate to the door itself with the stock bolts you removed from the door to get the stock tire mount off.



Next place the Latch bolt through from the bottom up and tighten with nut.



There are two positions available to place your tire mount. For this vehicle we chose the lower. The higher mounting position is meant for larger tire sizes (ie 40"+)



Next, we'll be removing the camera from the stock tire mount that was on the vehicle (See Fig 4A) There are two bolts on top that need to be removed.

4A



4B

We'll also be unmounting the wiring on the inside



4C

We'll then place the camera system into the new camera mount bracket shown in Fig 4C & 4D



4D



4E

Next, we'll be inserting two small tabs (Fig 4E) on the inside of camera bracket (5A) where the tab inserts are located on the inside walls and tightened down with provided bolts.



5A



5B



5C



Next, we'll insert the two bolts provided to secure the camera into the new camera mount bracket and secured as shown in Fig 5A on next page.

Next, we'll be tightening down the tire mount to the swing arm as shown in Fig (5D & 5E) with provided allen head bolts.

5D

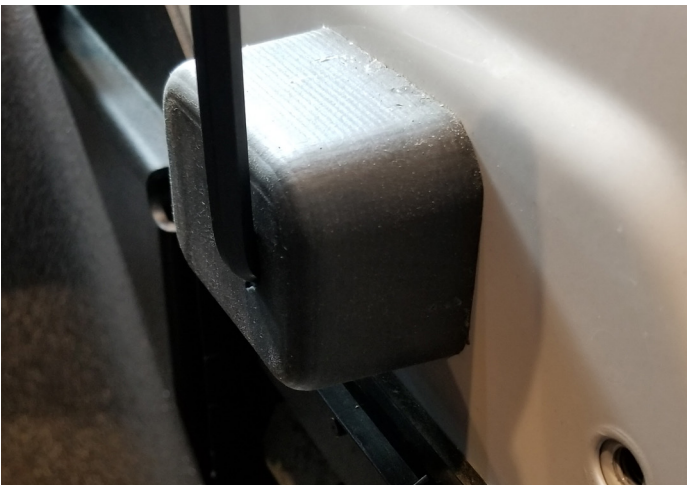


5E



At this stage, it's also a good idea to place the bump stops for top and bottom as shown in Fig 5F & 5G

5F



5G



Provided in kit are spacers that can be used as needed depending on fitment. We had to use two (one for top and bottom).

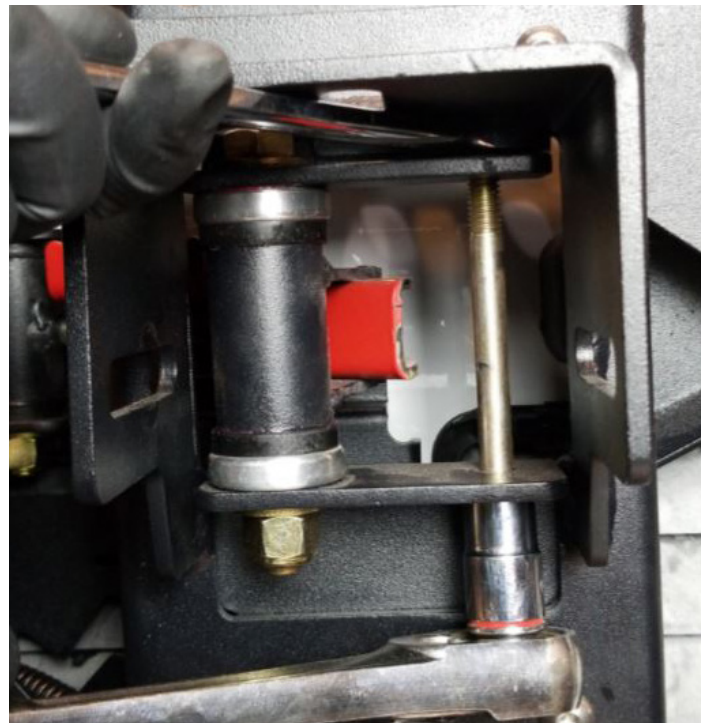
*Please note this is a very tight fit and may need to be forcefully inserted.

Tighten these down once secure (6A)

6A



6A



You are now ready to place the camera/tire mount onto the swing arm.

Start by inserting two bolts on each side and tightening down.



Lastly, insert the top bolt from the bottom up and tighten with socket and wrench.



Next, we'll need to grease one of the bearings and place on the bottom of each arm as shown to right. Also shown is the grease seal that goes in last to secure everything inside.



With your hand holding the bearing and grease seal, carefully place the arm onto each spindle.

*You may need to slightly wiggle and adjust the arm so that the bearing is sitting flush and the arm is seated all the way down properly.



After the arm is seated correctly, grease another bearing and place it on top. Wiggle the arm if needed to get the greased bearing to sit properly.



Next, drop in your washer.



Lastly, place your locking nut and tighten down.

Make sure not to tighten down this nut too much as you only want it snug. This allows it to be removed later when performing maintenance. (regreasing your bearings, etc)





Make sure to apply anti-seize to the threads of the Expedition One cap before tightening down onto the arm.



