



INSTALLATION GUIDE

18+ / JEEP JL

STEALTH FIGHTER REAR BUMPER



PREPARATION

We recommend reading through the installation instructions in whole before performing the work.

- Disconnect the negative battery terminal. Park the vehicle on level ground and set the emergency brake.
- When button head bolts are being used, install the supplied washer on the nut side. Then, hold the bolt stationary and only turn the nut to tighten. Do not turn the bolt to tighten hardware assembly, unless otherwise noted.
- Anti-seize is recommended for all fasteners.



SKILL LEVEL

-Easy/Intermediate

****This installation requires 2 people for best results****



TIME REQUIRED

- 2 hours for OEM Removal/Bumper Install
-1 Additional Hour to Wire Cube Lights

****Labor Rates are based on a vehicle with no pre-existing damage. Wiring labor is based on a standard wiring procedure with light switches installed in an easily accessible location. Custom light triggering or switch mounting location will result in a greater labor charge.****



INCLUDED IN KIT

- 4- Nylon Lock Nuts (1/2-13")
- 4- Button Head Bolts (1/2-13 X 1 1/2")
- 4- Flat Washer (1/2")
- 3- Nylon Lock Nuts (1/4-20")
- 3- Button Head Bolts (1/4-20 X 1")
- 3- Flat Washer (1/4")
- 2- Hex Head Bolts (1/2-20 X 1 1/2")
- 2- Nylon Lock Nut (1/2-20")
- 4- Flat Washer (1/2")
- 1- License Plate Light



TOOLS REQUIRED

- (Sockets) 8mm, 16mm, 17mm, 18mm, 21mm, 7/16, 3/4
- (Box end wrenches) 7/16, 3/4, 8mm, 16mm, 17mm, 18mm, 21mm
- (Allen wrenches) 5/32, 5/16
- Fastener remover or flathead screwdriver
- Philips Head Screwdriver
- Zip ties
- Ratchet
- Epoxy

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STEP 1

Unplug the rear bumper harness connector, then release the two plastic clips holding the bumper end of the harness to the vehicle. This connector is located under the vehicle on the driver side.

REMOVAL



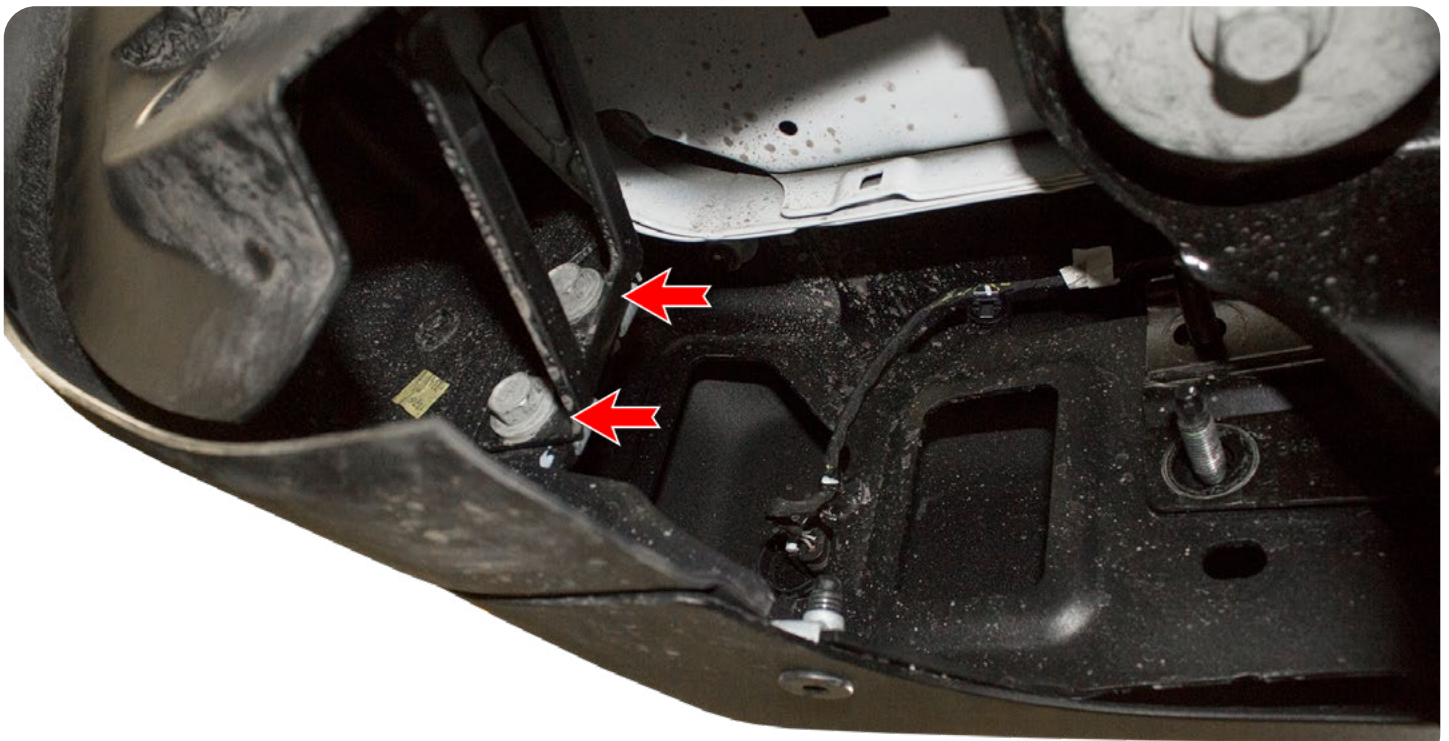
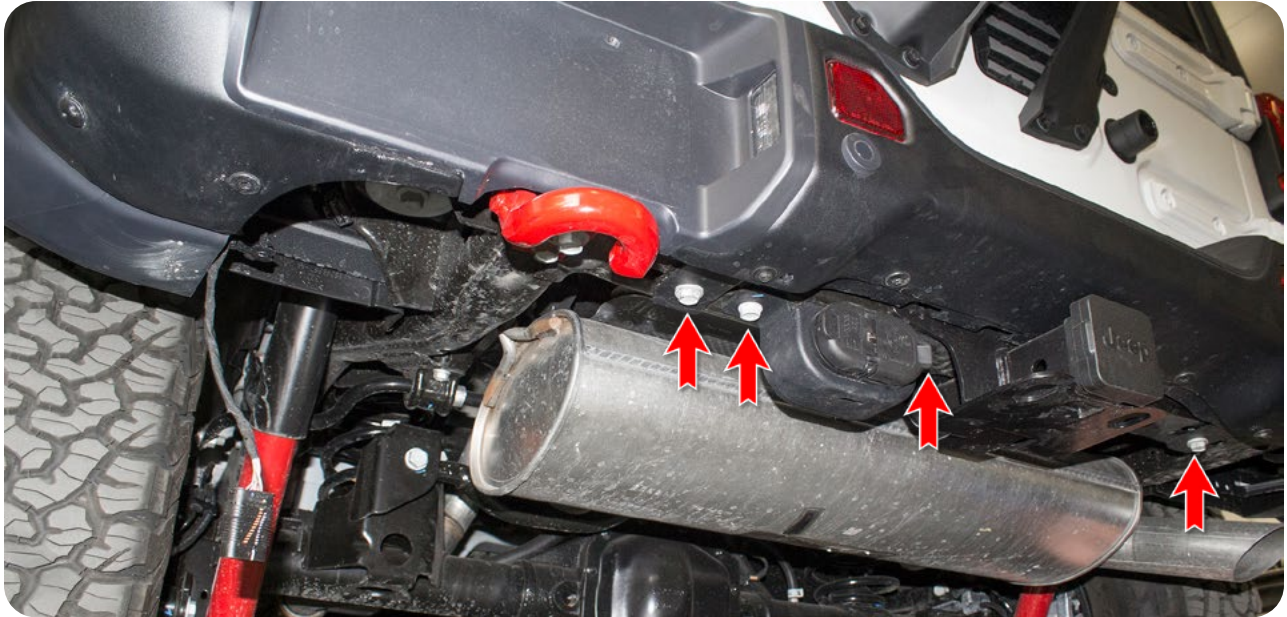
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□ STEP 2

Using a (16mm Socket), remove the bottom two bumper bolts and the two trailer plug bracket bolts. Save these bolts for reuse. Using a (16mm Socket), remove the bumper side support bolts (2 per side) that are accessible from underneath the truck on the outer section of the bumper.

REMOVAL



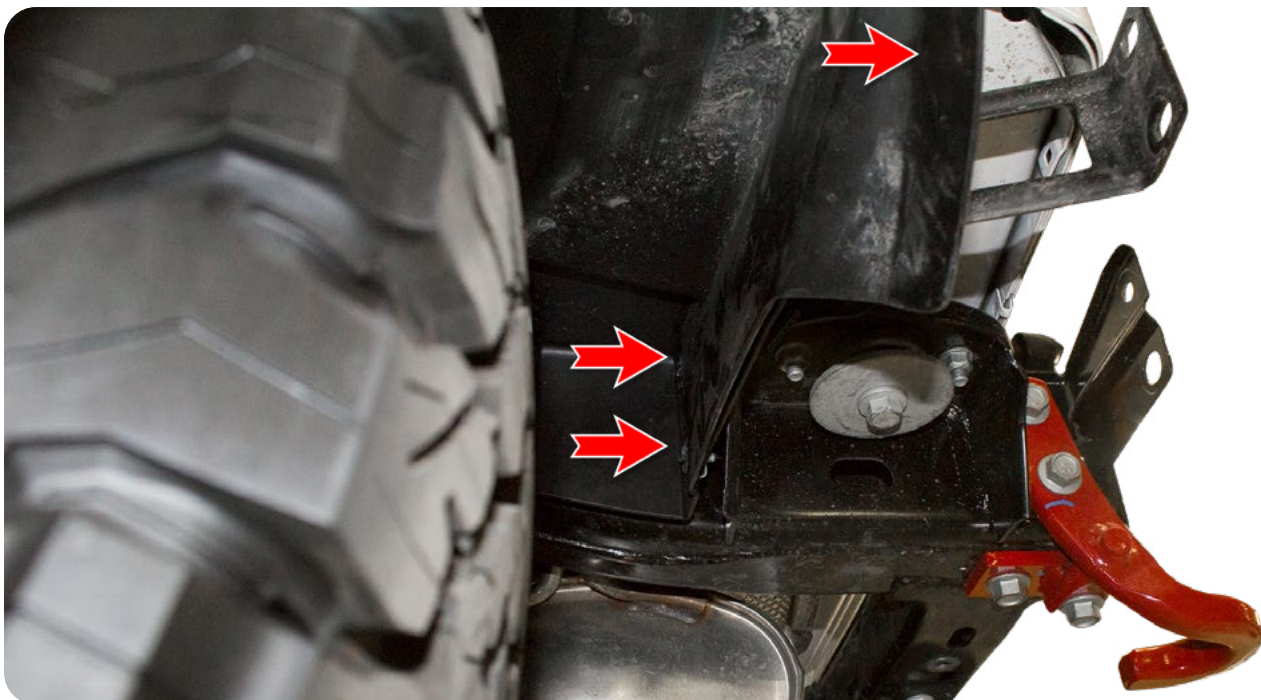
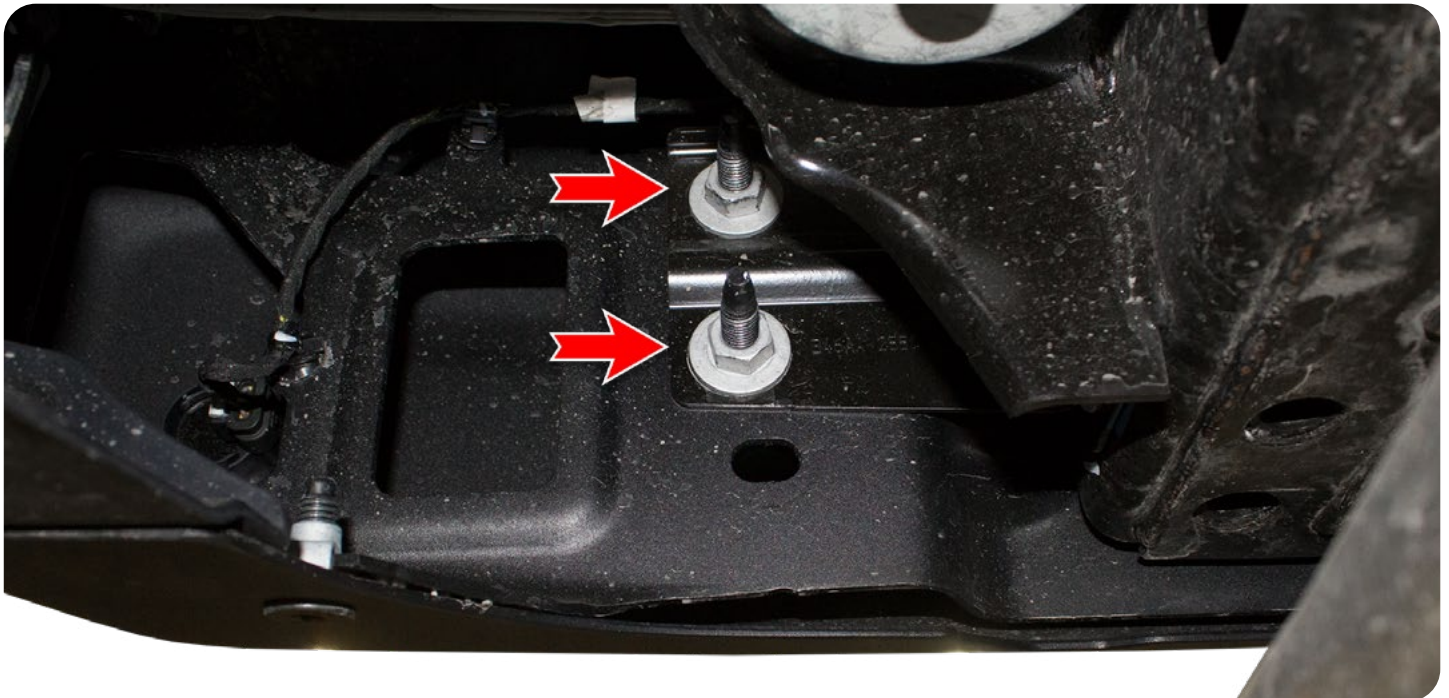
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□ STEP 3

Using a (17mm Socket), remove the bumper mounting nuts (2 per side) which are accessible from underneath the vehicle. Then, remove the OEM bumper. Using an (8mm Socket), remove the three (per side) inner fender liner bolts. Then, remove the lower inner fender liner pieces from the vehicle.

REMOVAL

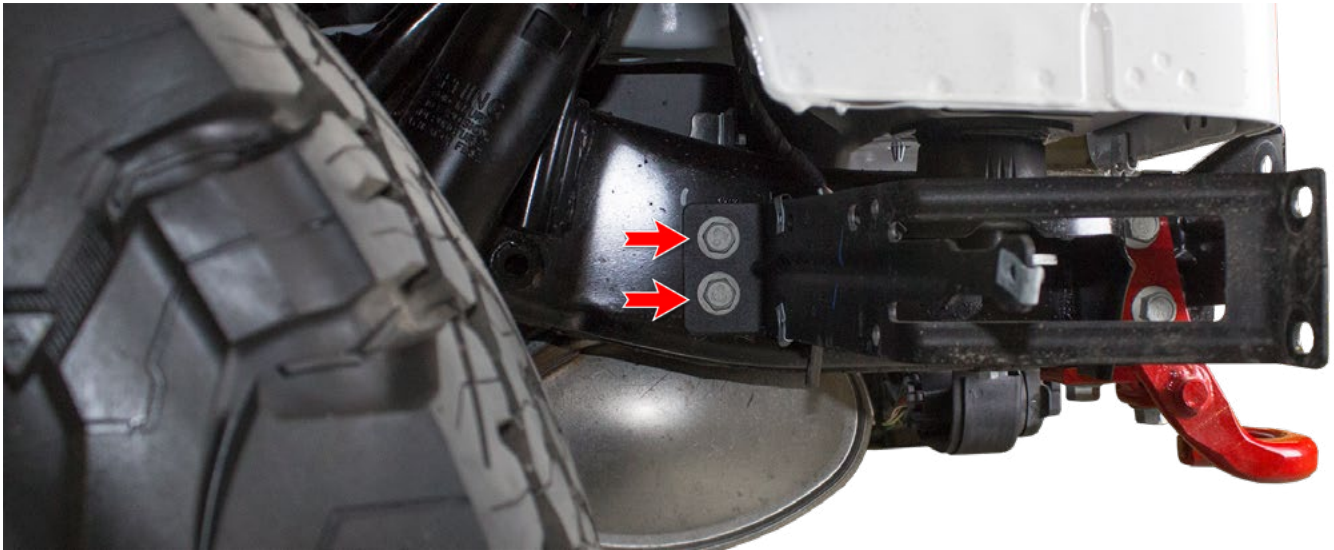


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□ STEP 4

Remove the two bolts that hold on each bumper side support bracket. Then, remove both brackets from the vehicle. Use an (18mm Socket) to remove the driver side tow hook bolts (x4). Then, use a (21mm Socket) to remove the passenger side bumper mounting bracket bolts (x2). Remove the tow hook and both bumper mounting brackets from the vehicle.



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□ STEP 5

IF YOU HAVE A METAL BUMPER, FOLLOW THIS STEP. IF NOT, SKIP TO STEP 10. Remove the parking sensors from the OEM rear bumper. Do this by first spreading the tabs on the inner mounting ring and releasing the sensor out the back side of the bumper. Then, spread the tabs on the outer mounting ring to release it from the inner mounting ring. Finally, press the tabs in on the inner mounting ring to push it out the front side of the bumper.

REMOVAL



Spread these tabs and release the parking sensor from the rear



Spread these tabs and release the outer mounting ring from the rear



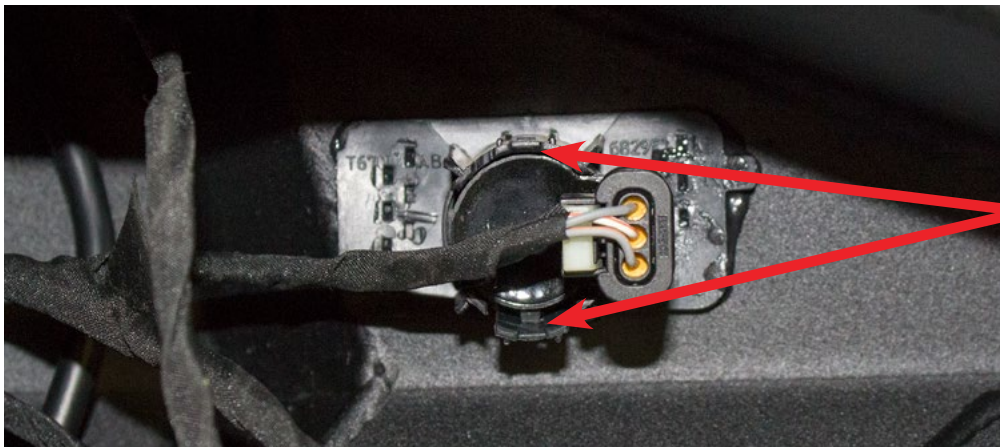
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□ STEP 6

IF YOU HAVE A PLASTIC BUMPER, FOLLOW THIS STEP. IF NOT, SKIP TO STEP 11. Remove the parking sensors from the OEM Rear Bumper. Do this by first spreading the tabs on the mounting ring and releasing the sensor out the back side of the bumper. Then, take a putty knife, scraper, or something similar and work it between the sensor ring mounting plate and the rear bumper. Use the scraper to cut through the plastic welds holding that plate to the OEM bumper. Once the plastic welds have been broken, the plate will be free from the bumper. Make sure to keep track of the order/orientation of the sensors on the OEM bumper as you will need to install them in the same order/orientation on your new bumper.

REMOVAL



Spread these tabs to release the sensor



Use a scraper to separate the mounting plate from the bumper



This is what it looks like once its separated

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□ STEP 7

IF YOUR PARKING SENSORS LOOK LIKE THE SENSORS IN STEP 9, FOLLOW THIS STEP. IF NOT, SKIP TO STEP 16. Install the two outer OEM Parking Sensors on your new bumper by pressing the inner mounting ring in from the front until it clicks into place. Then, press the outer ring onto the inner ring from the backside. Finally, press the sensor into place from the back side. For the two outer sensors, install the sensors 180 degrees from the OEM orientation (with the raised portion of the mounting ring towards the center of the bumper).



Install this backing ring with the slimmer part faced towards the center of the bumper.



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□ STEP 8

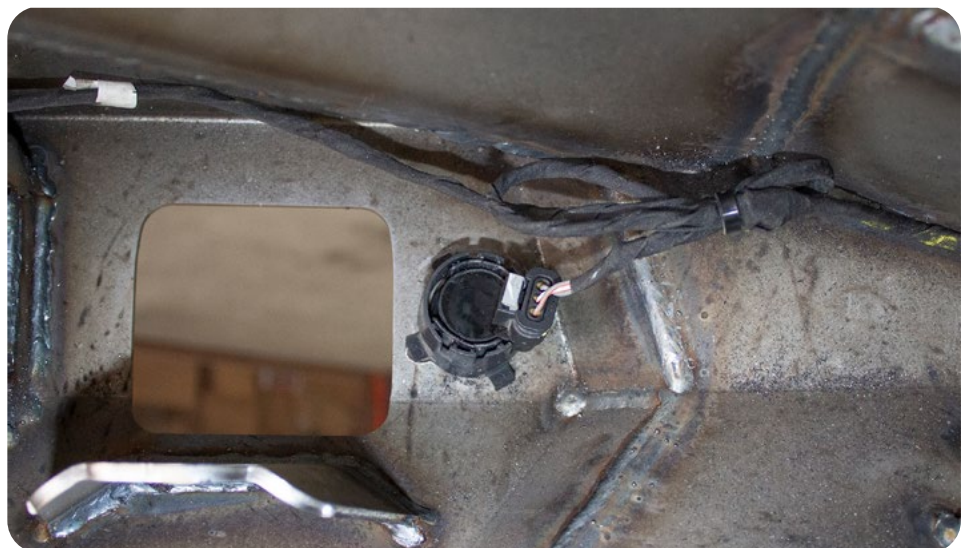
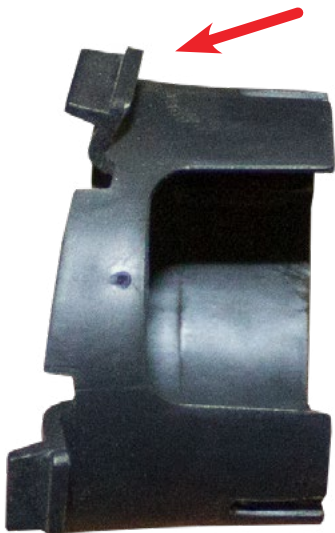
For the two middle sensors, you will have to face the sensor mounting rings so that the fatter part is towards the top of the bumper as shown in (Fig M). You will also have to switch the backing rings, so that the backing ring that originally went on the left side will now go on the right side and the backing ring that went on the right side will now go on the left side.

INSTALLATION



Install the backing rings with the slimmer part facing upwards.

Install the left backing ring on the right side of the bumper and the right backing ring on the left side of the bumper.



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□ STEP 9

IF YOUR PARKING SENSORS LOOK LIKE THE SENSORS IN STEP 10, FOLLOW THIS STEP. IF NOT, SKIP TO STEP 18. Before installing the parking sensor mounting plates, you will have to trim both outer plates. Do this by setting them in place in their precut holes (push them in place from the back side keeping the same orientation as on the OEM bumper). Then, mark out where you will have to make your cuts. We cut them so that none of the mounting plate is visible from the front side of the bumper.

BEFORE



AFTER



BEFORE



AFTER



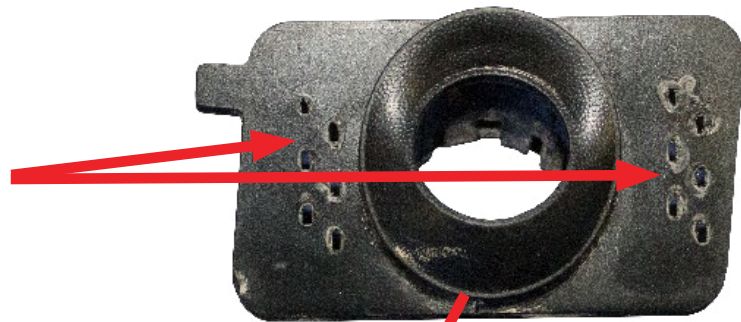
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□ STEP 10

IF YOUR PARKING SENSORS LOOK LIKE THE SENSORS IN STEP 10, FOLLOW THIS STEP. IF NOT, SKIP TO STEP 18. Use a strong epoxy to glue the parking mounting plates to your new bumper. Do this by applying epoxy on the front face of the mounting plate. Then, push the sensor mounting ring through the precut hole in the bumper from the backside of the bumper, so that the front face of the mounting plate gets glued to the back side of the bumper. Install the sensor rings in the exact position they came off the OEM bumper. Once the glue has set, push the sensor into the back side of the mounting ring until it clicks into place.

Apply epoxy on these faces



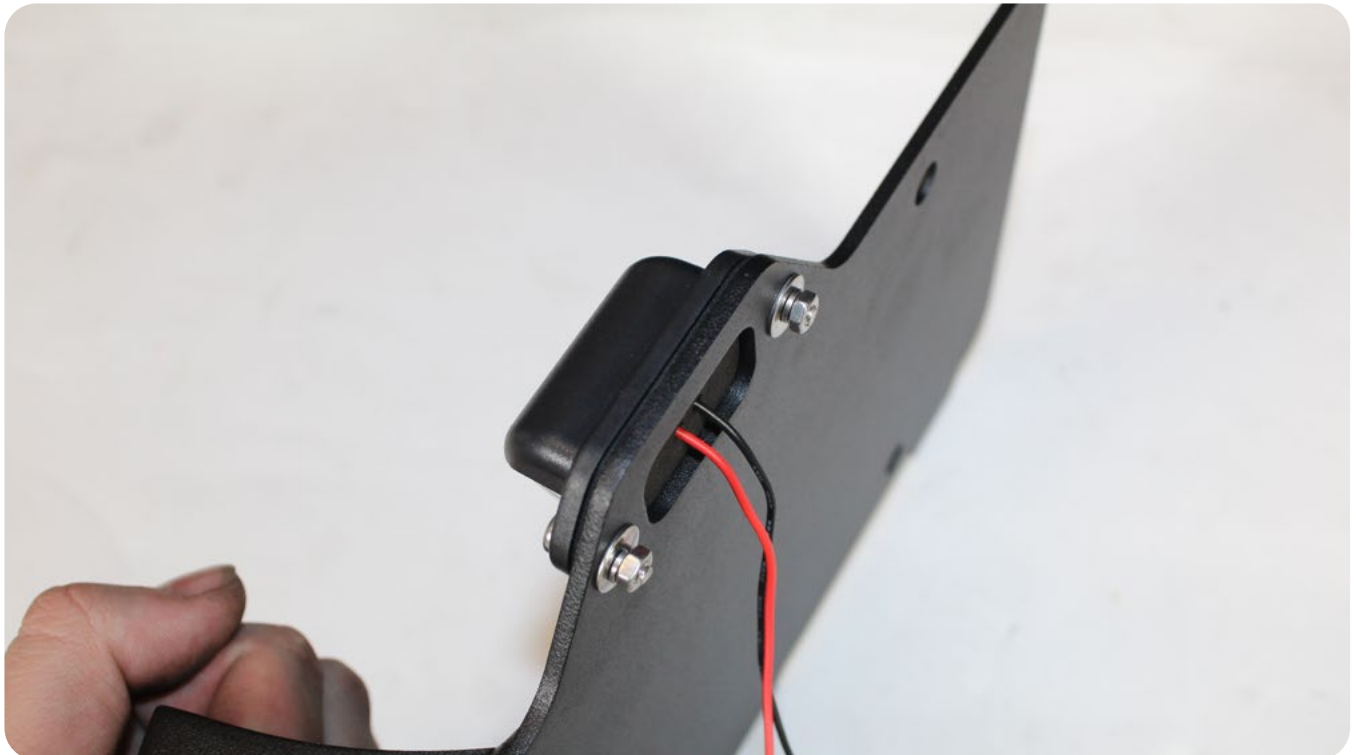
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□ STEP 11

Install the provided license plate light to your license plate bracket using a (Philips head screwdriver) and holding the nut with your hand.

INSTALLATION



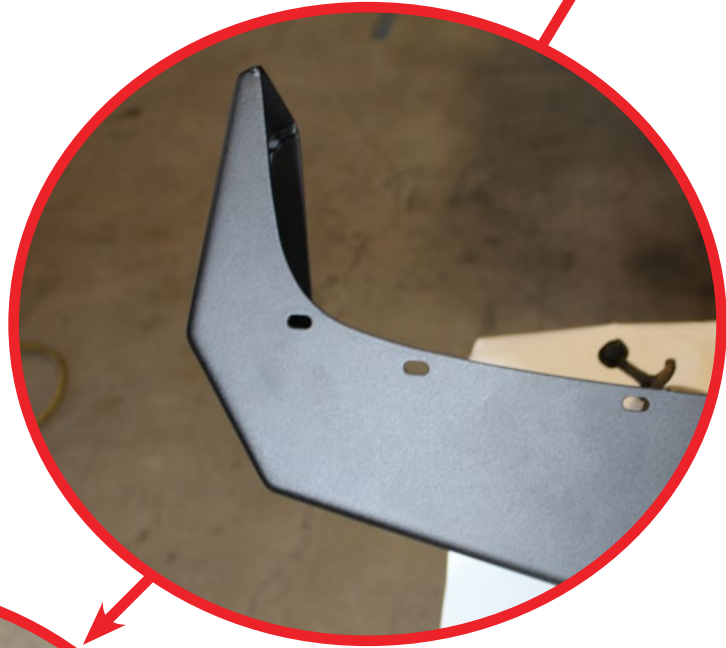
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□ STEP 12

Install the license plate bracket with the provided 1/4" button head bolts, washers, and nylon lock nuts using a (5/32 allen) and a (7/16 wrench).

INSTALLATION



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□ STEP 13

Install the mounting plates with the OEM bolts removed from step 4. The passenger side will take the provided 1/2" hex head bolts, washers, and nylon lock nuts using a (3/4 wrench) and (3/4 socket) for the bottom of the mounts as shown below.



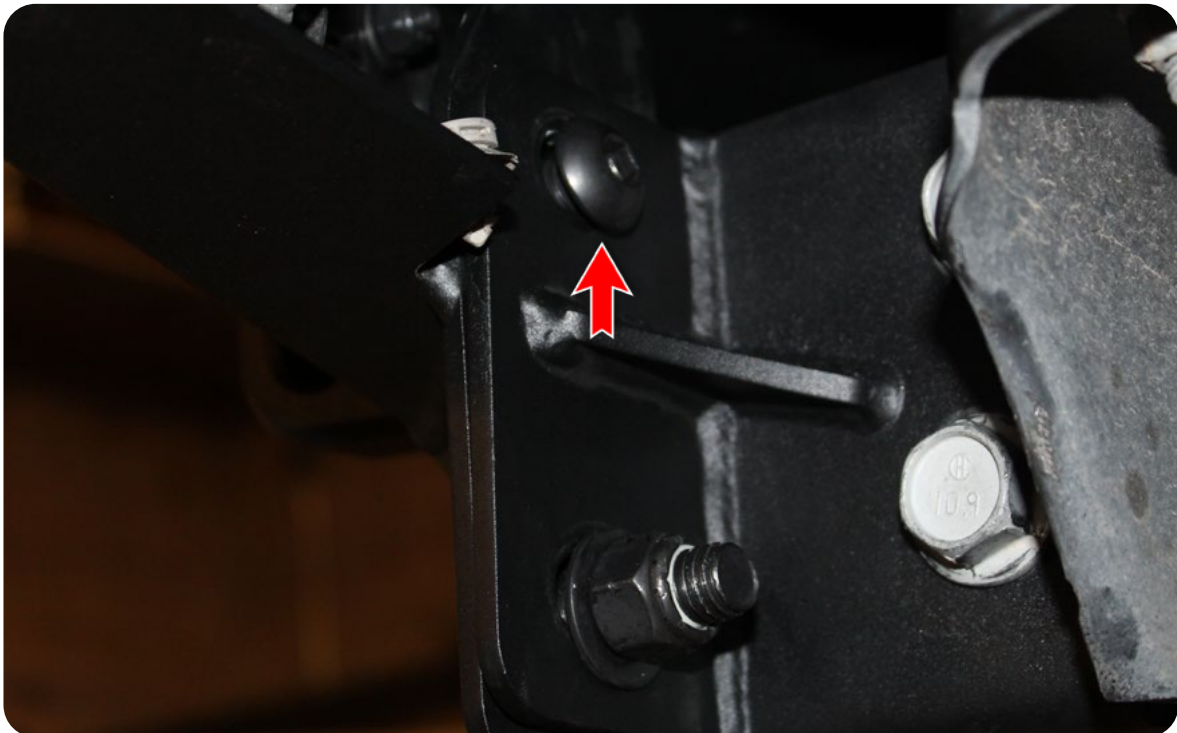
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□ STEP 14

You can now install your Stealth Fighter rear bumper with the provided 1/2" button head bolts, washers, and nylon lock nuts using a (5/16 allen wrench) and (3/4 wrench).

INSTALLATION





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FINAL

STEP 1

Stand back and enjoy your new ADD Stealth Fighter™ Rear Bumper.

Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.



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