



Model 3 Rear Diffuser Fins Installation Instructions

By FS Performance Engineering

Hi there! Thank you for purchasing our Tesla Model 3 rear diffuser fins! You are now part of the FSPE team. The fins are straightforward to install, but you should take your time when doing so.

Tools Needed:

- Friend/helper
- Flat head screwdriver
- 5/32" Allen Wrench
- 7/16" Open End Wrench
- Drill
- 1/4" Drill Bit
- Pencil/marker
- 10mm socket + ratchet wrench
- Oil
- Masking tape

Included in Kit:

- (6) Diffuser Fins
- (12) 1/4"-20 x 1" Countersunk stainless steel bolts
- (12) 1/4"-20 Stainless steel nyloc nuts
- (12) 1/4" Countersunk washers
- (12) 1/4" Small washers

Steps:

- 1.) Begin by raising the rear of the car. Use a car lift, or place on jack stands.
- 2.) Remove the center tray cover under the rear bumper. Use a flat head screwdriver to turn the plastic screws $\frac{1}{4}$ turn. Pull the tray off.



3.) Use your flat head screwdriver to pop open the tabs found to the left and right of the tray opening just made. Then remove the 2 bolts underneath them with your 10mm socket.



4.) Use the 10mm socket and ratchet wrench to remove the 4 other bolts holding the tray. These bolts are found midway to the rear control arm, and where the rear plastic tray meets the clothlike tray near the control arm.



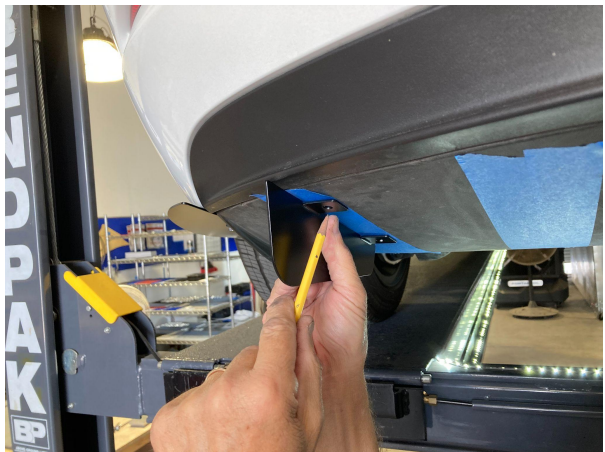
5.) Now you must identify where the fins will mount. The most inner fin is the longest. All tabs on the fins fold toward the inside of the car. Place blue masking tape at the location shown (we started with the left fins).



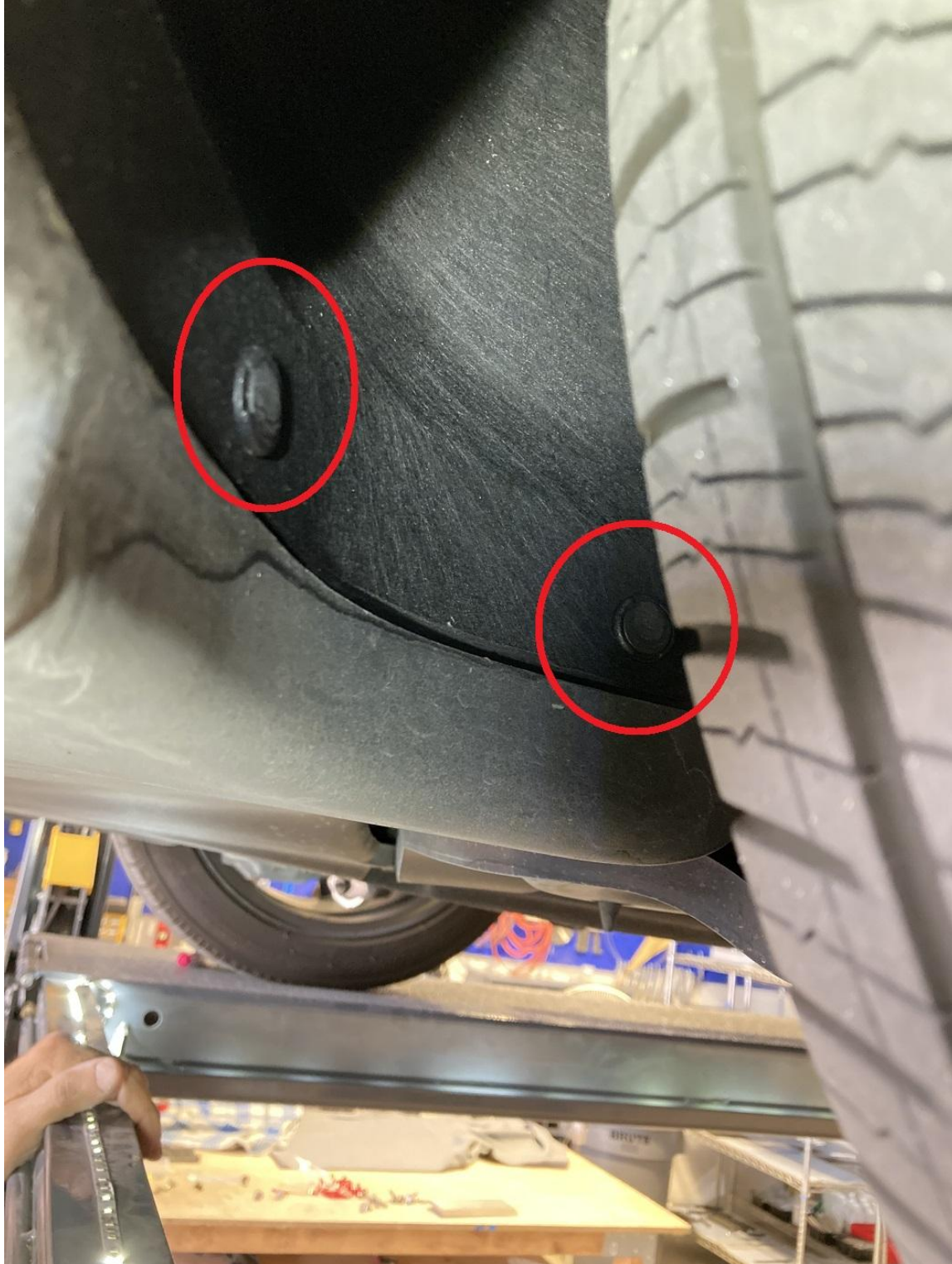
6.) Take your longest left side fin and hold it up against the car. Line the back edge of it with the back edge of the car. Point the fin as straight as possible and mark the front and back holes. Have a friend help. Also mark along the top of the fin onto the tape.



7.) Measure 5.5 inches over from your existing fin line and do the same thing as the previous step using the next longest fin. Then another 5.5 inches for the outer fin (shortest fin).

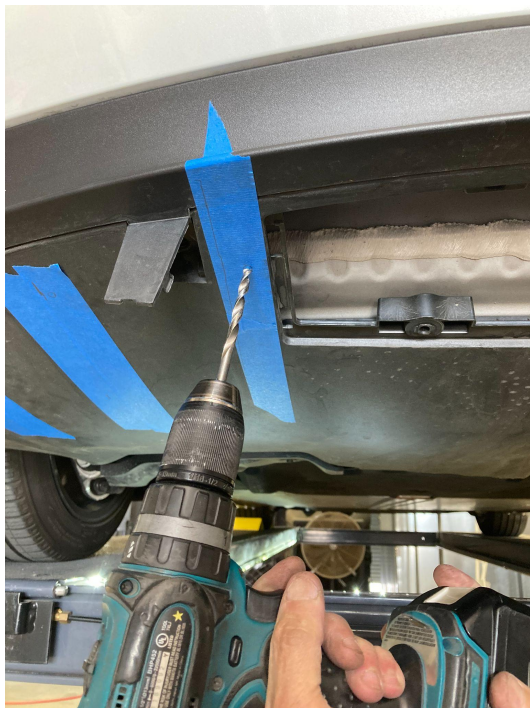


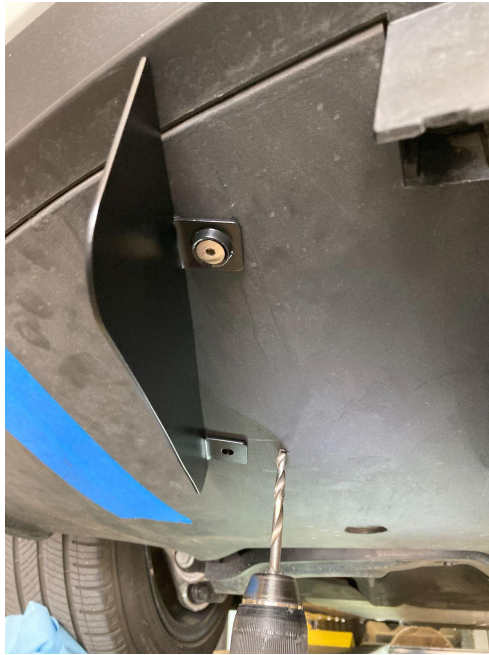
8.) Once all lines are made, move to the side of the car and use your flat head screwdriver to remove the black clips that help hold the tray up. There are 2 on each side located behind the rear wheel in the fender well. Removing these will help you access the top side of the tray for fin installation.



9.) Now you can drill holes for your fins starting with the most inner fin. You will want to drill one hole for the innermost fin first, install one bolt, then assure the second hole is at the right location by checking if the fin is parallel to the car. If not, remark the hole, if so drill the hole! Then install the first fin, and do the same for the other fins.

IMPORTANT: To install the fins you will need to push the bolts upward with the countersunk washers underneath. Inside of the rear plastic tray you'll need to install a ¼" small washer and nyloc nut. **USE OIL ON THE THREADS OF THE BOLTS WHEN INSTALLING THE NUTS ON THEM.** *You'll regret it if you don't use oil.* Remember to remove the masking tape when installing. You will need a second person to reach in from the front of the car above the tray to reach the tops of the bolts. Fins need to be installed from the inside to the outside to assure equal spacing and parallel orientation. The rest is pretty much described in pics.







10.) Assure everything is tight.

11.) If you have edge trim use isopropyl alcohol to clean the edge where it mounts. Edge trim is applied with the 3M backing. Use light heat to form around edges.



12.) ENJOY YOUR NEW AERO. Feel free to contact us with any questions you might have!

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