

FORD F-150 SKID PLATE INSTALL INSTRUCTIONS



JUGGERNAUT USA

OFFROAD OUTFITTERS

Thanks for purchasing our F150 skid plate! Please let us know if you have any issues or questions!

Feel free to call or text (970) 341-4221 or
Email: sales@juggernautusa.com

Install Video Link:

<https://youtu.be/8dljOcYZ2oU>

The skid plates can be installed on the ground, but if you do decide to jack up your truck to get more room for the install ALWAYS use jack stands. Never go underneath your truck on jacks alone.

- For 21+ models the active air dam will have to be removed in order for the front skid plate to fit.

Front and Engine Skid Plate Install:

- **Use provided blue loctite on all bolts that go into clip nuts**
1. Starting from the front of the vehicle on the frame rails behind tow hooks the first step is to remove any factory skid plate, or plastic flaps that cover the bottom of the intercooler on the ecoboost models. Depending on the model of F-150 the mounting location of our brackets and skid plates there may be factory installed clip nuts and fasteners that can be used if you choose. We do provide clip nuts and grade 10.9 hardware for every mounting location if you want to use stronger hardware. They are the same M10 thread as the factory clip nuts so if you want to use the factory clip nuts that are already installed you can.
 2. Before we install the front two mounting brackets we want to install the provided M10 clip nuts on the brackets. The barrel side of the clip nut will be on the backside and installed on both the left and right bracket as shown below. The orientation of the brackets is shown as well.

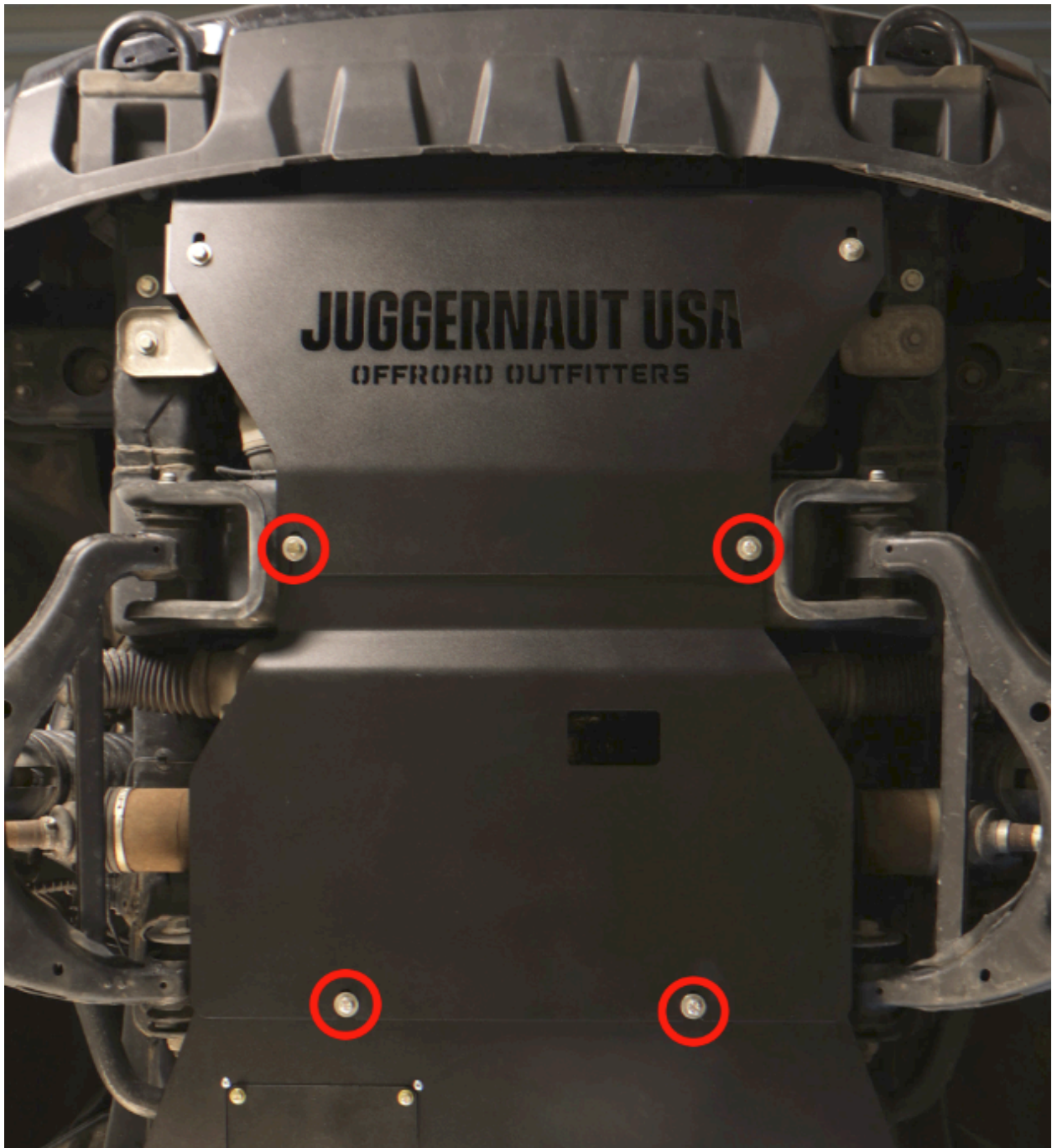




3. These brackets will be installed now on the frame rail. On the ecoboost models you will remove the bolt for the intercooler support bracket ONE SIDE AT A TIME. If you remove both sides the intercooler will drop down and could damage the hoses. Once the bolt is removed install one clip nut in the bolt location in front of the intercooler mount location. See image below for locations. Install with factory bolt on intercooler and provided M10 bolt and washer in front, leave loosely tightened for now.



4. Repeat the installation steps for the mounting bracket on the other side of the vehicle.
5. Remove any factory skid plate between first and second cross member if equipped.
6. Install clip nuts in locations shown below.

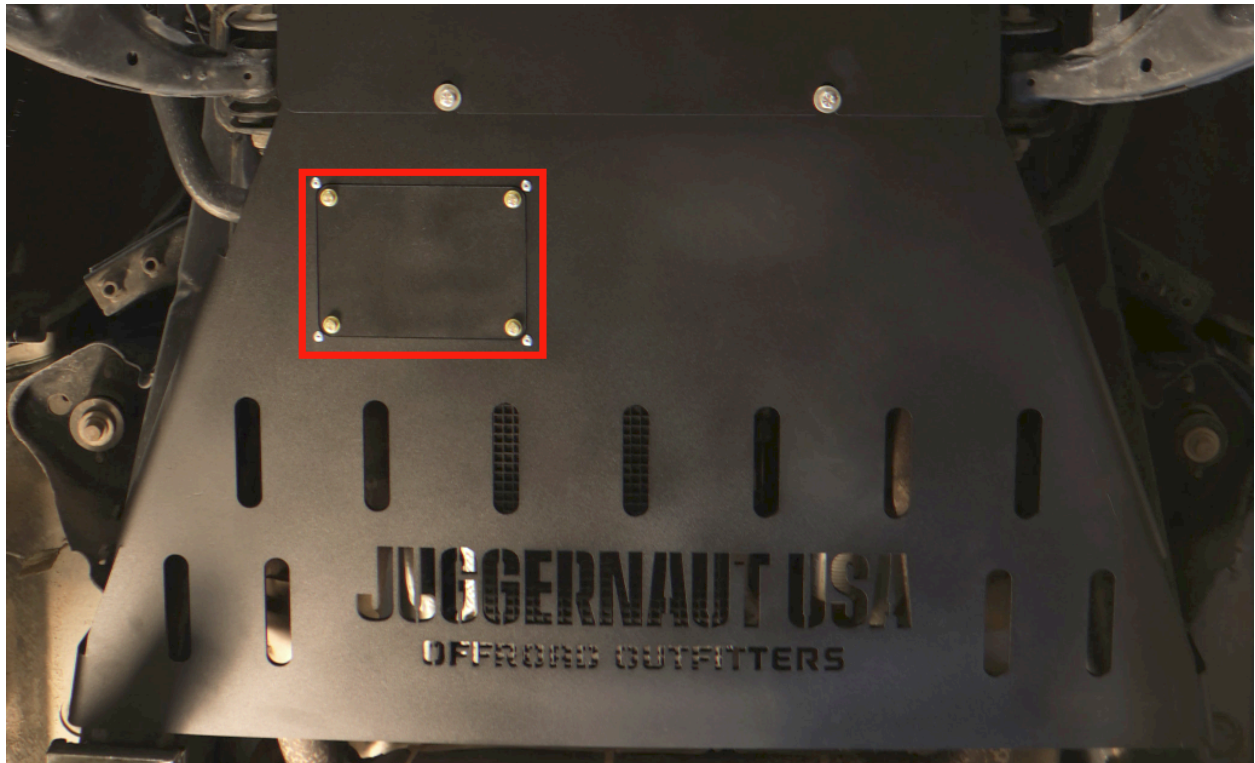


7. Thread (2) M10 bolts with washers rear crossmember a few turns (behind steering rack and differential)
8. Slide engine skid plate onto the two bolts and use (2) more M10 bolts and washer in the front to secure it. Only turn them in a few turns as well.
9. Slide front skid plate on top of engine skid plate and bolts installed in previous step.

10. Install the final (2) M10 bolts with washers on the front of the front skid plate to brackets installed in the first steps.
11. If only installing Front and Engine skid plate go ahead and tighten all the bolts to OEM specifications at this point and you are complete with install! If you are installing the transmission skid plate as well, keep the bolts loose until the entire package is installed.

Transmission Skid Plate Install:

1. For the transmission skid plate before it is installed on the vehicle the oil drain cover should be installed. Use the provided (4) 1/4-20 bolts and washers to install the oil cover to the skid plate. See image below for location



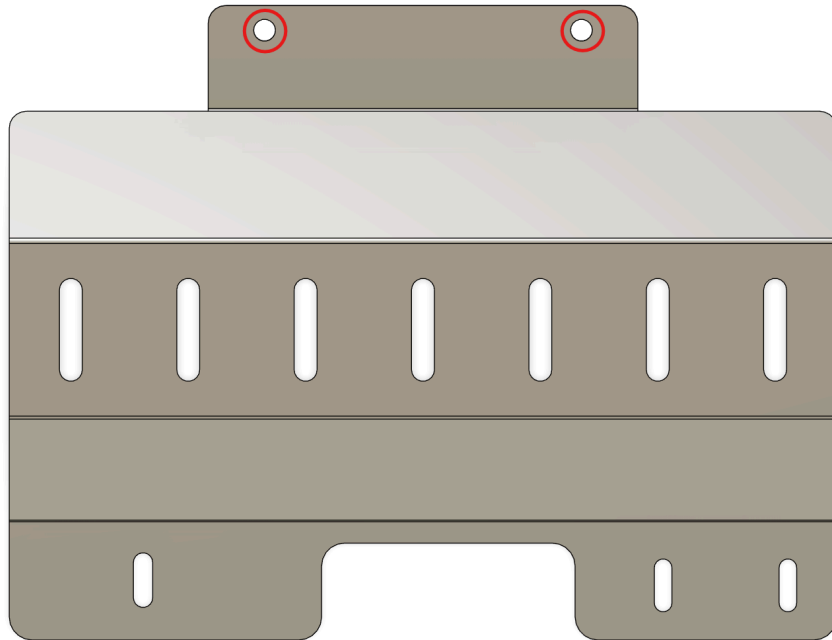
2. Remove the felt skid plate (if equipped) and the rear mounting brackets on the outside of both sides of the frame rails.
3. The transmission skid plate will install where the rear mounting brackets were. Install the provided M10 clip nut on both sides. See picture below for locations.



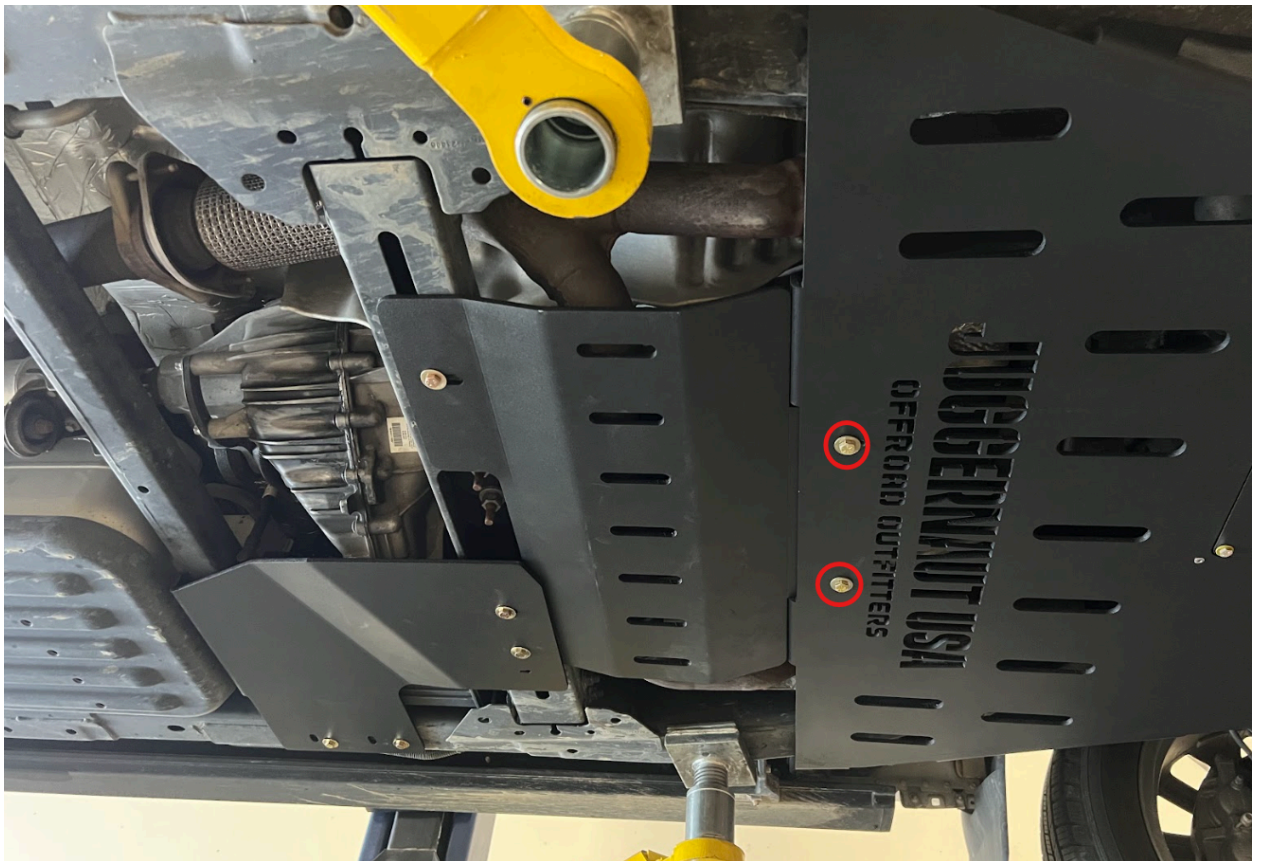
4. Once clip nuts are installed, slide the transmission skid plate into the (2) loose M10 bolts on the engine crossmember above the engine skid plate.
5. Secure the back of the skid plate with provided (2) M10 bolts on the frame rail.
6. Tighten the front and rear bolts to OEM specifications and the skid plate install is complete!

Transfer Case Skid Plate Install:

1. ***For Powerboost models only:** For install of the transmission skid plate extension start with installing the provided (2) M10 Clip Nuts on the two holes circled below.



2. Using the provided (2) M10 Bolts and (2) washers, install the extension onto the transmission skid plate as shown below.



3. The driver's side of the extension plate will use the provided (2) M8 clip nuts and M8 bolts/washers to secure the skid plate. If using the transfer case skid plate this will go on top of the extension plate and use the same holes.
4. Use the provided M12x80mm Flange bolt to secure the rear passenger side of the extension plate. The bolt will go all the way through the transmission crossmember and you will use the provided M12 serrated flange nut to secure the bolt on the top side of the crossmember. (in location shown below)



5. For the powerboost transfer case skid plate, install the remaining (2) M8 clip nuts on the drivers side frame rail and use the (2) M8 bolts and washers to secure the frame rail side of the transfer case skid plate.