Under Cover Fabworks, LLC
undercoverfab.com
sales@undercoverfab.com · (334) 797-7113

Engine Skid Plate Install Instructions

'87–'95 Jeep Wrangler YJ (2.5L four-cylinder)



Included: engine skid plate, (2) 1/4" steel frame brackets, (2) 3/16" steel struts, and all 3/8" mounting hardware.

Hardware: (4) 3/8" x 1" button head cap screws (engine skid to transfer case skid), (8) 3/8" x 1" hex bolts (front mounting), (8) 3/8" nuts, (4) 3/8" standard nuts, (4) 3/8" lock washers and (8) 3/8" flat washers (4 for the frame bolts, 4 for the struts).

Finish: all parts ship bare. Paint the steel parts with a quality paint before you install them to prevent rust. An aluminum skid can be left bare, but keep it clean to prevent heavy oxidation.

Drilling required: the YJ 2.5L frame doesn't have holes for the frame brackets, so you'll drill (4) holes in the frame (Step 2). UCF transfer case skids are not pre-drilled for the engine skid either, so you'll drill (4) holes there too (Step 8).

Before you begin

Support the vehicle on jack stands so you have a safe place to work under the engine and transmission. Set the parking brake, and put an automatic transmission in Park or a manual transmission in gear. Install all hardware finger tight until everything is in place, then tighten it all as the last step. Read these instructions all the way through before you start, and call us with any questions. Under Cover Fabworks assumes no liability for accidents from the use (proper or improper) of these instructions.

Installation

1. Support the Jeep on jack stands with room to work under the engine and transmission.
2. Hold a frame bracket against the bottom of each motor mount stand, centered front to back under the motor mount and as far toward the inside of the Jeep as it will mount. The rounded tab should hang down toward the inside of the Jeep, pointing **toward the rear on the driver side** and **toward the front on the passenger side**. Mark the (2) bracket holes on the frame, then drill them with a 7/16" bit.
3. Put a 3/8" flat washer on each of (4) supplied 3/8" x 1" hex bolts. Reach your hand up into the opening in the frame from the outside toward the inside, and drop the bolts down through the holes you drilled so they hang in place.

4. Push the frame brackets up from the bottom over the bolts, with the tabs positioned as in Step 2. Secure each bolt with a 3/8" lock washer and 3/8" nut. The lock washers hold the bolts from spinning when you tighten the nuts later. Leave them finger tight for now.

5. Bolt the struts to the bracket tabs with (2) of the supplied 3/8" x 1" hex bolts, 3/8" flat washers and nuts, one per strut. **The longer strut goes on the driver side.** The struts are steel angle and install as mirror images of each other: one flange faces in toward the center of the Jeep and the other faces forward. Each strut sits against the outside face of its bracket tab. Leave them finger tight for now; the struts need to move to finish the install.

6. Support the engine skid under the Jeep with its front edge roughly in line with the struts. Line up the bottom of the struts with the mounting holes on the front face of the skid, with the forward-facing flange of each strut flat against the front of the skid. If you have a motor mount lift, use the lower set of holes; otherwise use the upper set. Insert (2) of the supplied 3/8" x 1" hex bolts, one per strut, from inside the skid and install a 3/8" flat washer and nut on the outside of each strut. Leave them finger tight for now.

7. With a floor jack, raise the rear of the engine skid up against the bottom of the transfer case skid. Slide it front to back until the oval cutout lines up with the engine oil drain plug. With a UCF transfer case skid, most of the oil will drain through without a big mess. With other transfer case skids, oil changes may be messier.

8. Using the engine skid as a guide, drill (4) 7/16" holes through the transfer case skid. Insert the supplied 3/8" x 1" button head cap screws up from the bottom of the engine skid and secure them with the remaining 3/8" nuts, finger tight for now.

9. Once everything is in place, go back and tighten every nut and bolt to 33 ft-lb.

That's it. Thanks for choosing Under Cover Fabworks. Call or email us with any questions.