

TIME FOR INSTALLATION

30 MINS. - 1 HOUR



EASY

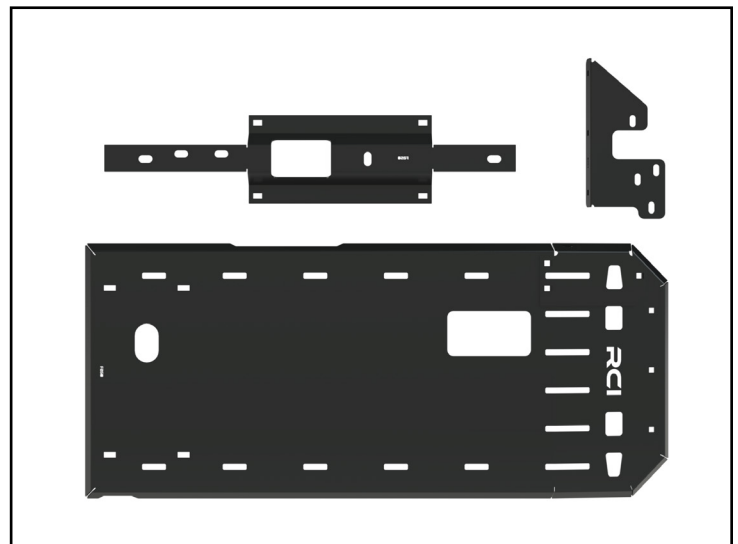
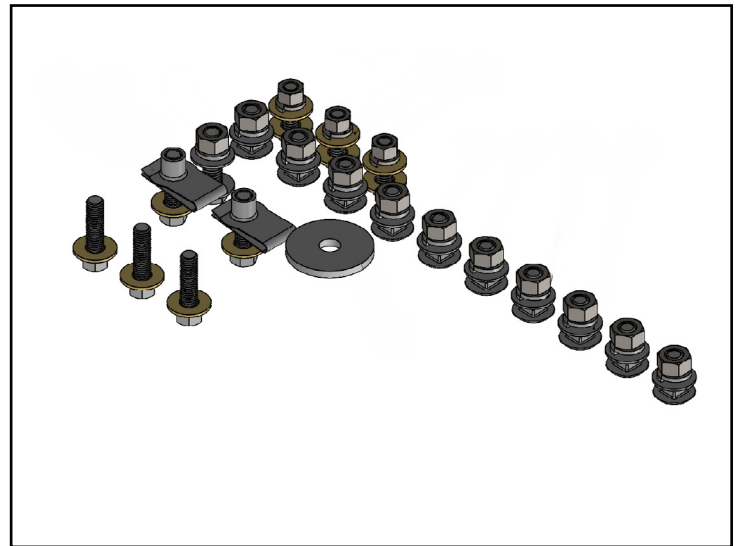


BASIC SKILLS
REQUIRED

20+ Ford F250/F350/F450 Shortbed Engine Skid Plate Installation Guide

Contact RCI: SALES@RCIOFFROAD.COM
(970) 797-3089

Part Number	Description	Qty:
SM-01189	20+ F250 6.7L Engine Skid	1
SM-01190	20+ F250 6.7L Bracket Front	1
SM-01191	20+ F250 6.7L Bracket Rear	1
SM-01192	20+ F250 6.7L Filter Door	1
HK-00175	20+ F250 6.7L Engine Hardware Kit:	1
HW-00064	3/8-16 x 1-1/8 Hex Cap Screw	3
HW-00026	3/8 USS Flat Washer Thru Hard	11
HW-00029	3/8 Split Lock Washer Zinc	3
HW-00030	3/8-16 FIN Hex Nut GR-5 Zinc	3
HW-00068	7/16-14 x 1 Carriage Bolt GR-5	10
HW-00044	7/16 USS Flat Washer Zinc	12
HW-00045	7/16 Split Lock Washer Zinc	11
HW-00047	7/16-14 FIN Hex Nut GR-5 Zinc	11
HW-00065	M10-1.5 U-Nut 28mm	2
HW-00021	M10-1.5 x 35mm Hex Flange Bolt	5
HW-00078	7/16-14 x 1 1/2 Hex Cap Screw	1
HW-00028	Full Moon Spacer	1
SM-01034	Mounting Plate #2	3



Caution: Use hand tools, impact wrenches may cause damage if over torqued.

Read the entire notes and instructions before installation.

Installation Notes

Installation Notes:

RH refers to the passenger side of the vehicle.

LH refers to the driver side of the vehicle.

Always use the proper torque specifications.

If applicable to this installation, torque specifications will be listed throughout the document.

Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

General Safety:

Park your car in a safe, well lit, level area.

Shut the engine off and remove the key from the ignition switch.

Make sure any remote start devices are properly disabled.

ALWAYS wear safety glasses.

Make sure the parking brake is applied until the vehicle is safely lifted and supported.

Whether lifting a vehicle using an automotive lift or a hydraulic jack, utilize the factory specified lift points.

Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.

ALWAYS support the vehicle with properly rated jack stands.

ALWAYS read and follow all safety information and warnings for the equipment you are using.

Required Tools:

1/4", 3/8" & 1/2" Socket Sets & Ratchets

Floor Jack

Jack Stands

Combination Wrench Set

Plier Set

Torque Wrenches

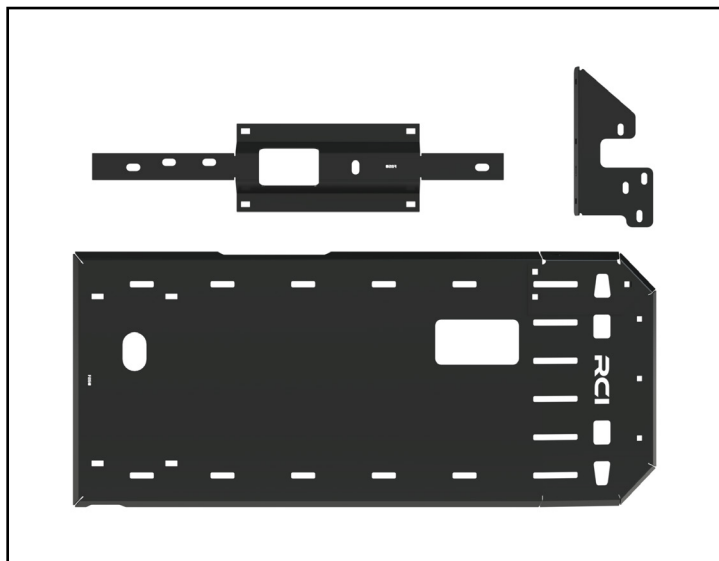
Installation Overview:

Before installation, remove all components and hardware from their packaging and verify that all the components are present.

Section 1: Removing the Stock Components

Step #1

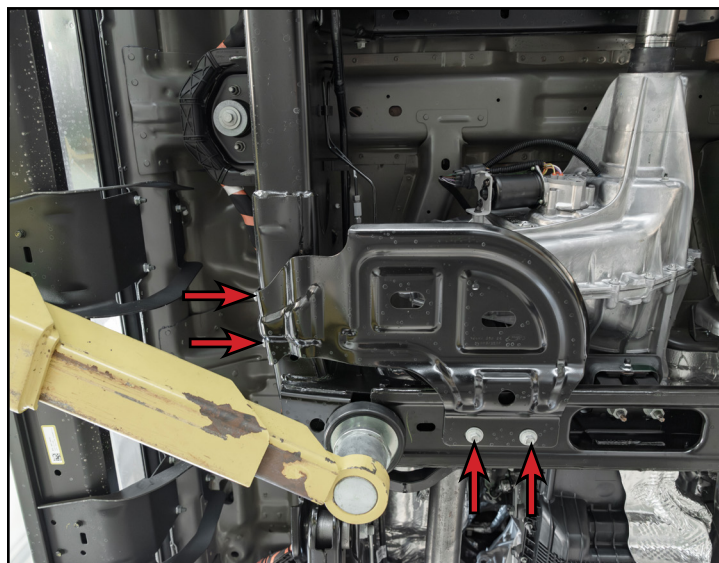
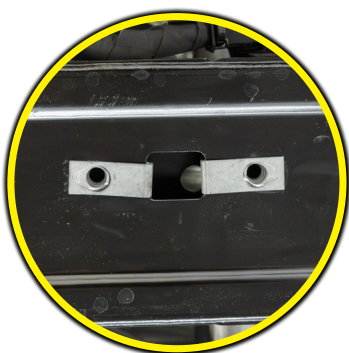
Remove all components and hardware from their packaging and verify that all the components are present.



Step #2 15mm Socket & Ratchet

Support the OEM transfer case skid plate from underneath, then remove the bolts (arrows) that secure the skid plate in place and remove the skid plate from the vehicle.

Tech tip: While the OEM speed clips (inset photo) can be re-used for the installation, replacements are provided if desired.

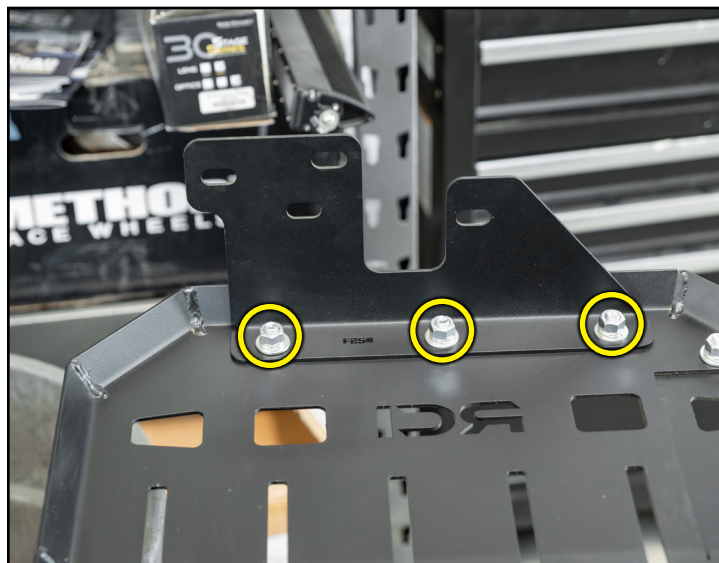


Section 2: Installing the New Engine Skid Plate

Step #1 11/16" Socket & Ratchet

Install the front engine skid plate bracket onto the new RCI engine skid plate and secure it in place with the provided 7/16" hardware (circled in **YELLOW**).

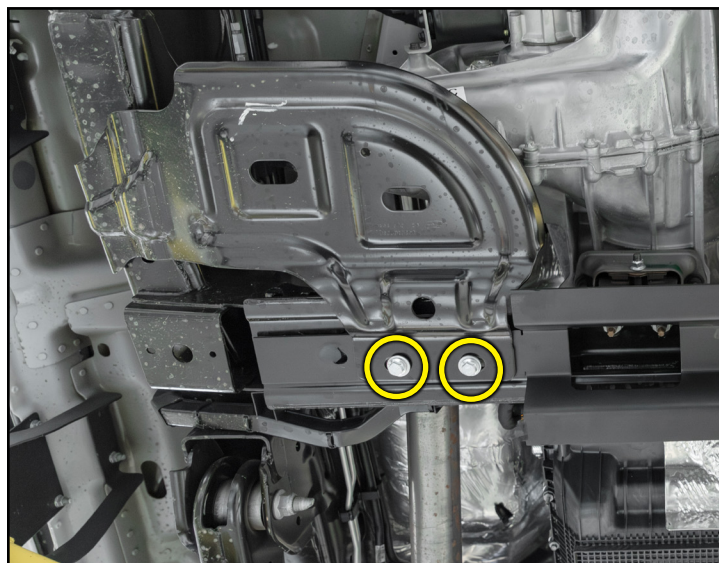
NOTE: If installing a new RCI transfer case skid plate, the transfer case skid plate will need to be installed before the engine skid plate.



Step #2 15mm Socket & Ratchet

Lift the rear engine skid plate support bracket into place and support the bracket from underneath. Align the edges of the support bracket to the edges of the crossmember as shown. Loosely install the provided M10 hardware (circled in **YELLOW**) to secure the skid plate bracket in place.

NOTE: If utilizing the stock transfer case skid plate, slide the provided mounting bracket behind the stock transfer case skid plate then secure it with the provided M10 hardware.



Section 2: Installing the New Engine Skid Plate

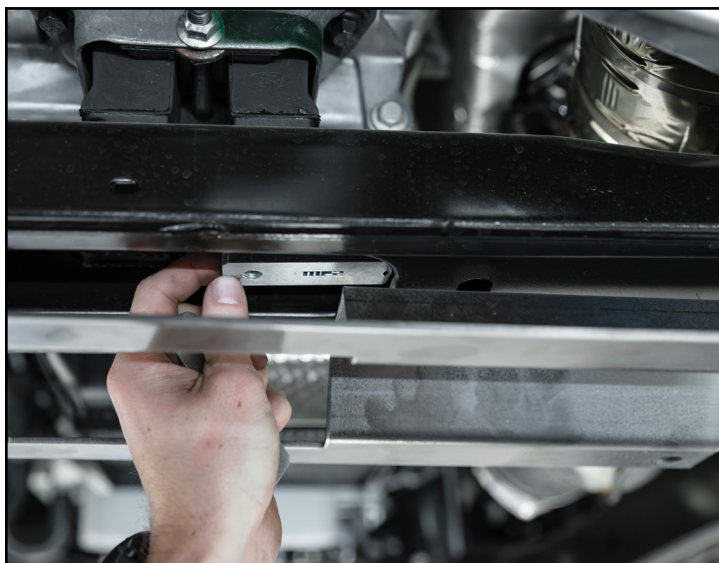
Step #3 15mm Socket & Ratchet

Install the provided MP#2 bracket into the RH side of the cross member and align it with the mounting hole as shown. Loosely install the provided M10 hardware to secure the bracket in place.



Step #4 15mm Socket & Ratchet

Install the provided MP#2 bracket through the center access point of the cross member and align it with the mounting hole as shown. Loosely install the provided M10 hardware to secure the bracket in place.



Section 2: Installing the New Engine Skid Plate

Step #5 | 15mm Socket & Ratchet

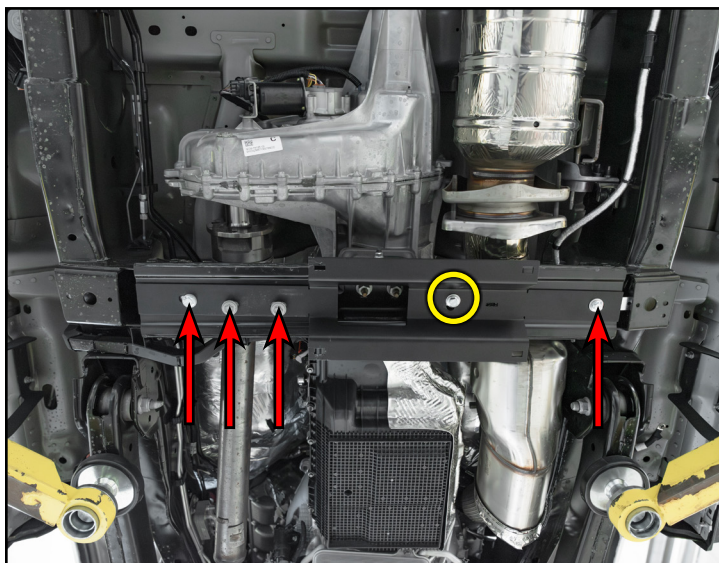
Install the provided MP#2 bracket into the LH side of the cross member and align it with the mounting hole as shown. Loosely install the provided M10 hardware to secure the bracket in place.



Step #6 | 15mm Socket & Ratchet

Fully tighten all of the previously installed hardware (circled in **YELLOW**) that secure the rear engine skid plate support bracket to the vehicle.

Tech Tip: If installing an RCI transfer case skid plate, leave the bolts (arrows) loose, for information regarding the RCI transfer case skid plate reference that installation guide.



Section 2: Installing the New Engine Skid Plate

Step #7 | 11/16" Socket & Ratchet

Support the new engine/transmission skid plate from underneath, then lift the skid plate into place and align the front engine skid plate support bracket with the mounting locations on the front cross member.

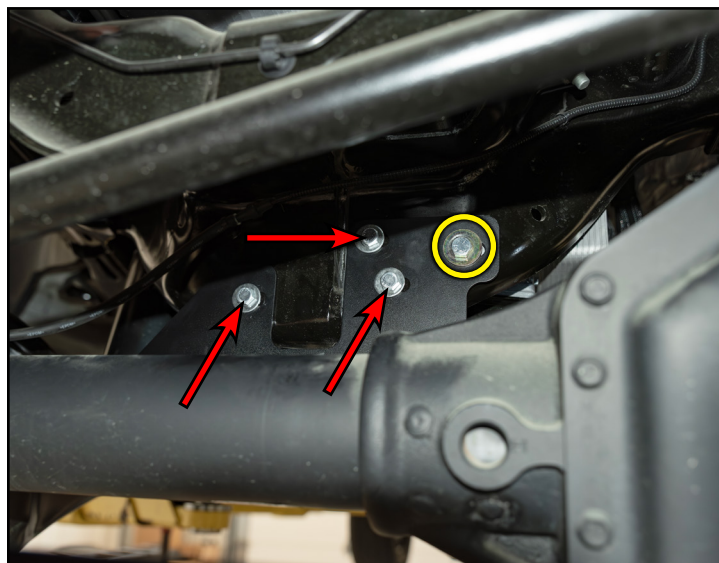
Tech Tip: With the oil filter access door not installed, access to the RH front crossmember bolt will be easier when securing the front bracket hardware.



Step #8 | 9/16, 11/16 Sockets & Ratchet

Secure the front mounting bracket to the front crossmember using the provided 3/8" hardware (arrows) and the 7/16" hardware (circled in **YELLOW**).

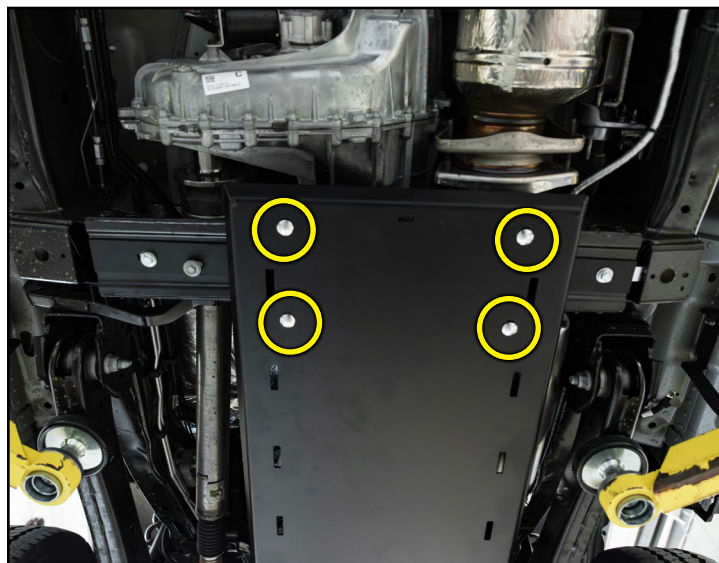
NOTE: There are mounting locations that are present on the provided engine skid front support bracket that allow for installation to work for various trims/models. Only utilize the mounting locations that align with the holes on the front bracket for your specific installation.



Section 2: Installing the New Engine Skid Plate

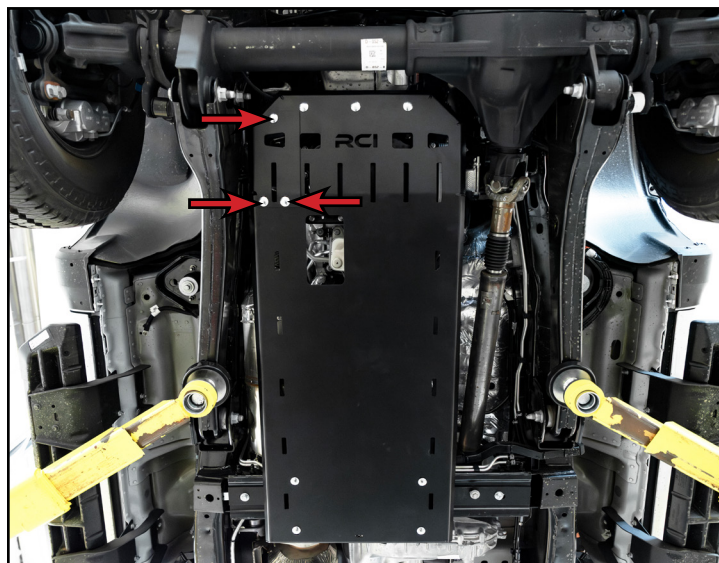
Step #9 11/16" Socket & Ratchet

Install the provided 7/16" hardware (circled in **YELLOW**) to secure the engine skid plate to the rear mounting bracket.



Step #10 11/16" Socket & Ratchet

Install the oil filter access door onto the new RCI engine skid plate with the provided 7/16" hardware (arrows). Ensure that all of the hardware are fully tightened for the engine skid plate.

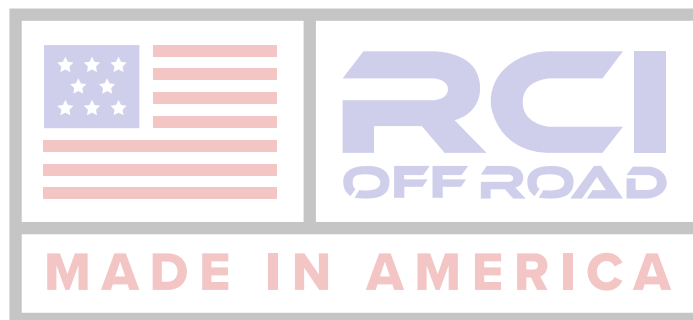


CONGRATULATIONS, YOUR INSTALLATION IS COMPLETE!

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