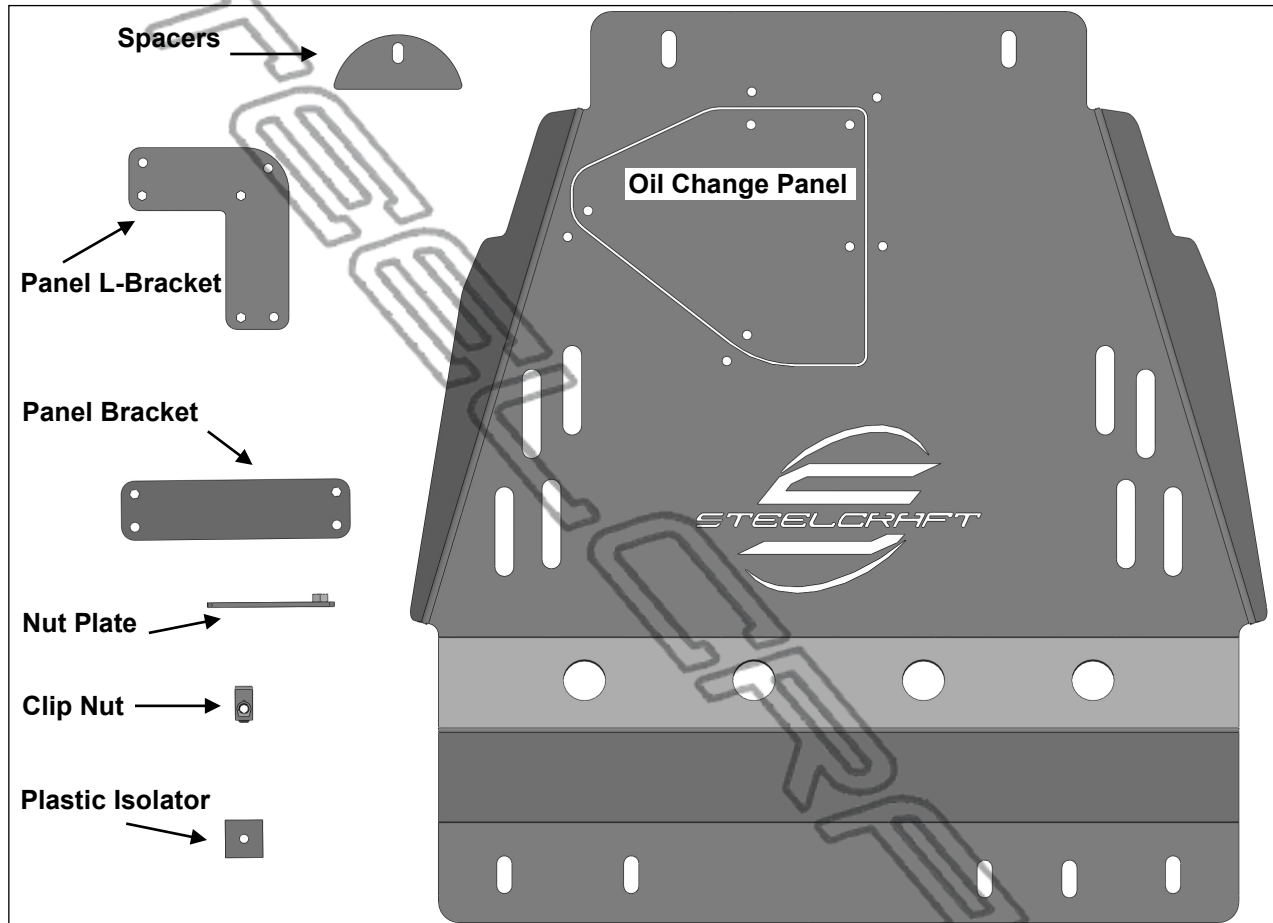


STEELCRAFT SKID PLATE WITH CAT GUARDS
2009-23 FORD F-150

PARTS LIST:

1	Skid Plate	8	10mm x 30mm x 2.5mm Flat Washers
2	Spacers	6	10mm Lock Washers
1	Oil Change Panel	1	10mm Nylon Lock Nuts
1	Panel Bracket	4	10mm Clip Nuts
1	Panel "L" Bracket	10	6mm x 25mm Hex Bolts
2	M10 Nut Plates	5	6mm Lock Washers
1	10-1.5mm x 80mm Long Hex Bolt	15	6mm x 18mm x 1.6mm Flat Washers
6	10-1.5mm x 50mm Hex Bolts	5	6mm Nylon Lock Nuts
7	10mm Plastic Isolator		



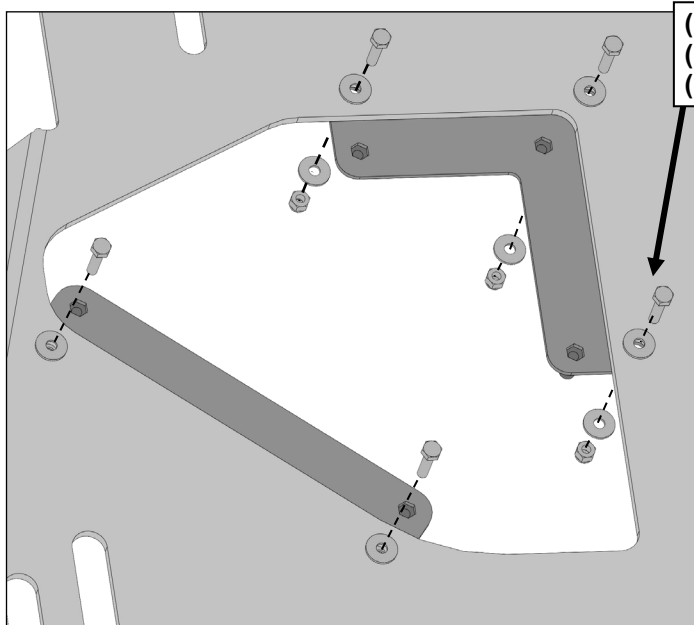
PROCEDURE:

REMOVE CONTENTS FROM PACKAGING. VERIFY ALL PARTS ARE PRESENT. READ INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. ASSISTANCE IS HIGHLY RECOMMENDED. DEPENDING ON YOUR VEHICLE, NOT ALL PROVIDED HARDWARE WILL BE USED AND/OR SOME OF HARDWARE CAN BE RE-USED.

1. Begin by assembling the Oil Change Panel by selecting both the Panel Bracket and "L" Panel Bracket. Attach both brackets to the back of the skid plate with the included (5) 6mm Hex Bolts, (10) 6mm Flat Washers, and (5) 6mm Nylon Lock Nuts, **(Figure 1)**. Do not tighten hardware.
2. Attach the Oil Change Panel to the brackets with (5) 6mm Hex Bolts, (5) 6mm Lock Washers, and (5) 6mm Flat Washers, **(Figure 2)**. Tighten all 6mm hardware.
3. Next, locate frame crossmembers forward and aft of the transmission. Remove any plastic or felt covers/splash-guards and their supporting brackets beneath the transmission, **(Figure 3)**.

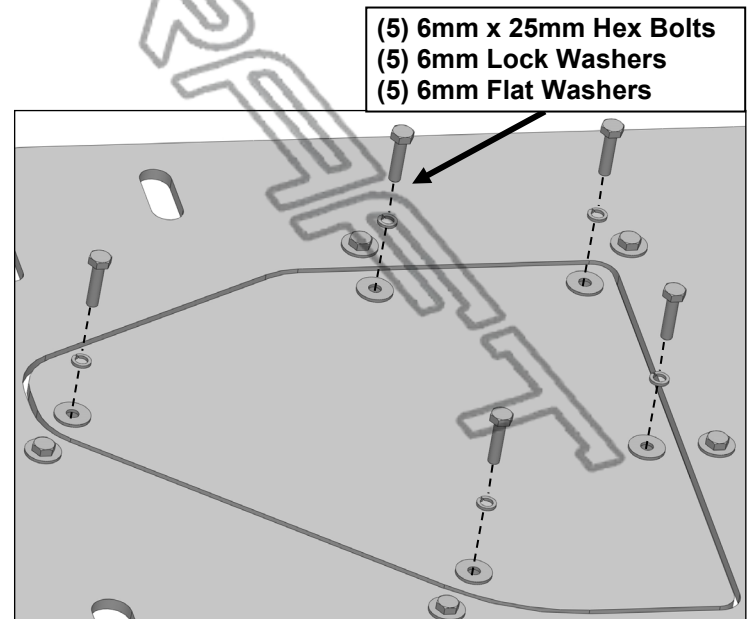
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4. Determine if your vehicle is already equipped with clip nuts from the factory:
 - a. Remove the two bolts from engine skid plate at the forward crossmember, if equipped (**Figure 4**). Remove the two bolts from the transfer case skid plate at the rear crossmember, if equipped – Fx4 only (**Figure 5**).
 - b. If the factory hardware was not present in the previous step, select the provided (4) Clip Nuts and insert them into the square cut-outs in front and rear crossmembers. (**Figure 6**)
5. Select the provided (2) M10 Nut Plates and insert through each end of the rear crossmember channel. Be sure to line up the nut within the slot on the crossmember, (**Figure 7**).
6. With assistance, position and support the Skid Plate beneath the transmission. If equipped, slide the new Skid Plate between the OE Fx4 transfer case skid plate and the rear crossmember. Attach the rear of the skid plate to the Clip Nuts and Nut Plates using the provided (4) 10mm x 50mm Hex Bolts, (4) 10mm Lock Washers, (4) 10mm Flat Washers, and (4) 10mm Plastic Isolators, (**Figure 8**). Do not tighten hardware at this time.
7. Determine if your vehicle is equipped with a factory engine skid plate:
 - a. Skid plate equipped trucks - select the provided (2) Spacers and place them between your new transmission Skid Plate and the OE engine skid plate. Attach the transmission Skid Plate and Spacers to the clip nuts at the forward crossmember with (2) 10mm x 50mm Hex Bolts, (2) 10mm lock washers, (2) 10mm flat washers, and (2) 10mm Plastic Isolators, (**Figure 9**).
 - b. If engine skid plate is not present, attach the new transmission Skid Plate to the Clip Nuts at the forward crossmember with (2) 10mm x 50mm Hex Bolts, (2) 10mm Lock Washers, (2) 10mm Flat Washers, and (2) Plastic Isolators, (**Figure 10**). Do not tighten hardware at this time.
8. Optional: Select the (1) 10mm x 80mm Long Hex Bolt, (1) 10mm Flat Washer and (1) 10mm Plastic Isolator and insert them through the remaining hole on the passenger side rear of the Skid Plate. If necessary, peel back or poke a hole in the adhesive backed heat shield on top of the crossmember. Attach hardware with (1) 10mm Flat Washer and (1) 10mm Nylon Lock Nut, (**Figure 11**). **Note:** this step might be tedious due to the tight clearance above the crossmember.
9. Fully tighten all hardware. Perform periodic inspections to the installation to make sure that all hardware is secure and tight.



(Fig 1) Attach Panel Bracket and Panel L Bracket to back of Skid Plate.

**(5) 6mm x 25mm Hex Bolts
(10) 6mm Flat Washers
(5) 6mm Nylon Lock Nuts**



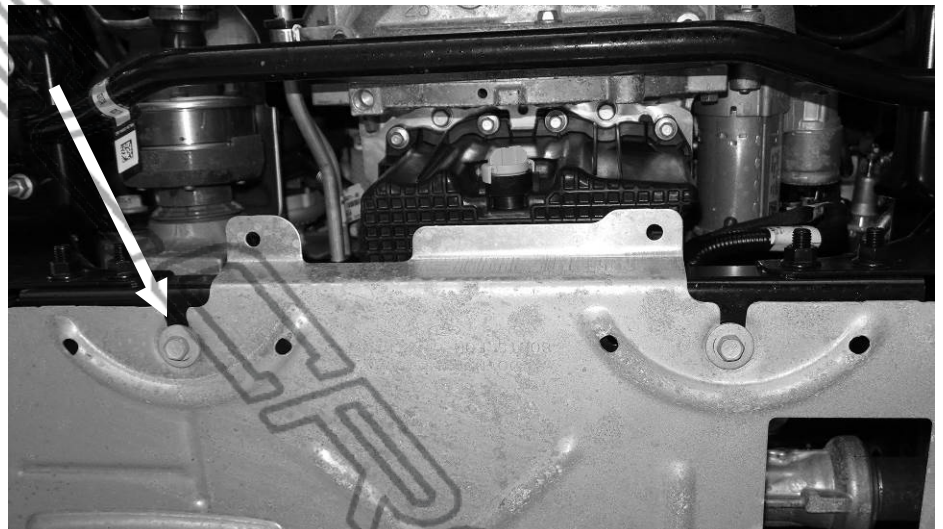
**(5) 6mm x 25mm Hex Bolts
(5) 6mm Lock Washers
(5) 6mm Flat Washers**

(Fig 2) Attach Oil Change Panel to brackets.

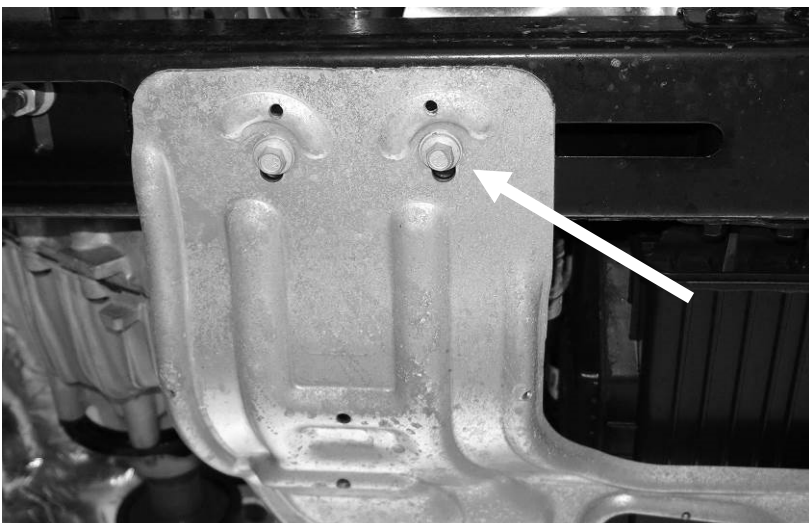
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(Fig 3) Remove any covers beneath the transmission.

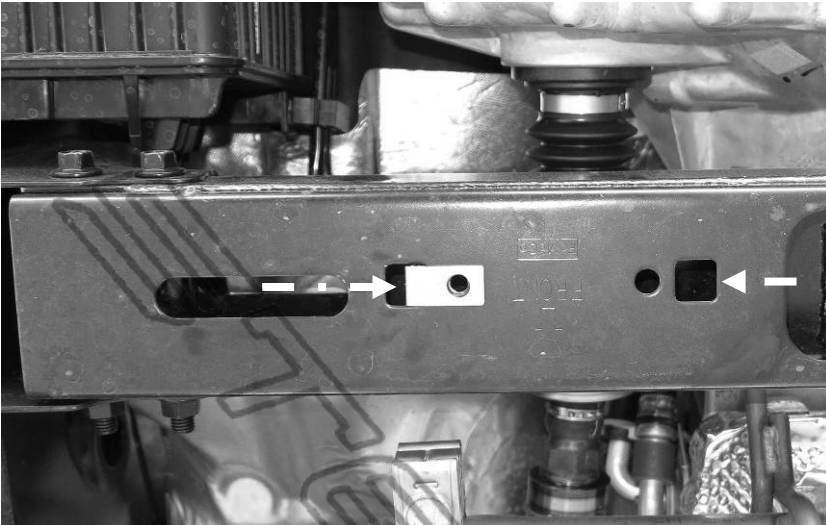


(Fig 4) Remove the two OE fasteners at forward crossmember, if equipped.



(Fig 5) Remove the two OE fasteners at rear crossmember, if equipped.

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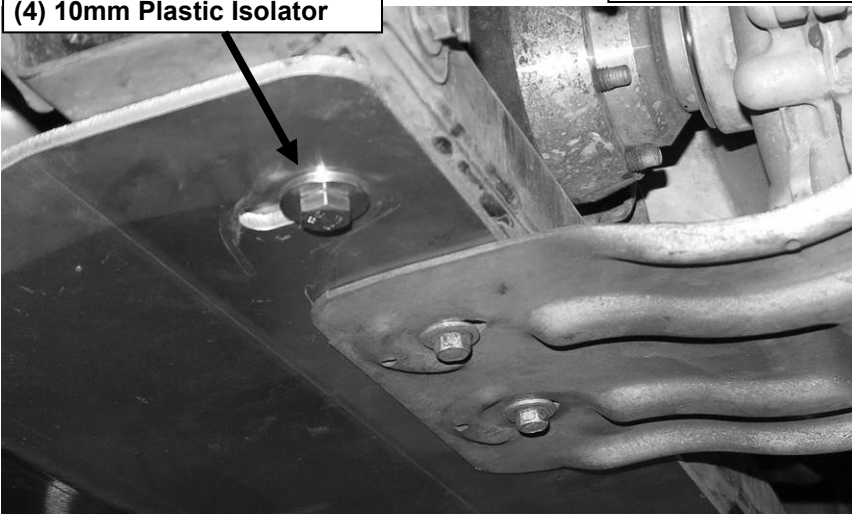


(Fig 6) Insert Clip Nuts into square notches in crossmembers and align holes.



(Fig 7) Insert Nut Plates into open ends of rear crossmember channel. Align hole within slot.

- (4) 10mm x 50mm Hex Bolts**
- (4) 10mm Lock Washers**
- (4) 10mm Flat Washers**
- (4) 10mm Plastic Isolator**



**(Fig 8) Attach Skid Plate to rear crossmember.
Fx4 only: OE transfer case skid plate will sit on top of Skid Plate.**

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