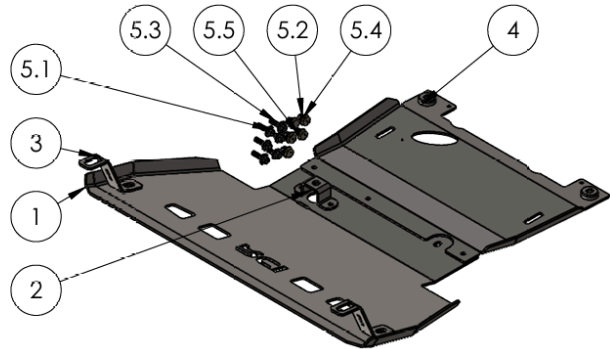




RCI 24+ RANGER ENGINE AND SECONDARY SKID

INSTALLATION GUIDE

ITEM NO.	DESCRIPTION	QTY.
1	.188MS 24+ Ranger Engine Skid	1
2	.188MS 24+ Ranger Engine Skid Standoff Bracket	1
3	.188MS Ranger Non-Raptor Mounting Bracket	2
4	Bronco Secondary .188MS R.20	1
5	KIT: BRONCO ENGINE AND SECONDARY	1
5.1	3/8 USS FLAT WASHER THRU HARD	11
5.2	3/8-16 X 1 CARRIAGE BOLT GR-5	5
5.3	M10-1.5 X 35MM HEX FLANGE BOLT	6
5.4	3/8-16 FIN HEX NUT GR-5 ZINC	5
5.5	3/8 SPLIT LOCK WASHER ZINC	5



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

Preparation

- 1) Remove the circled indicated hardware and loosen the boxed indicated hardware. After the skid has been removed, remove the boxed indicated hardware.

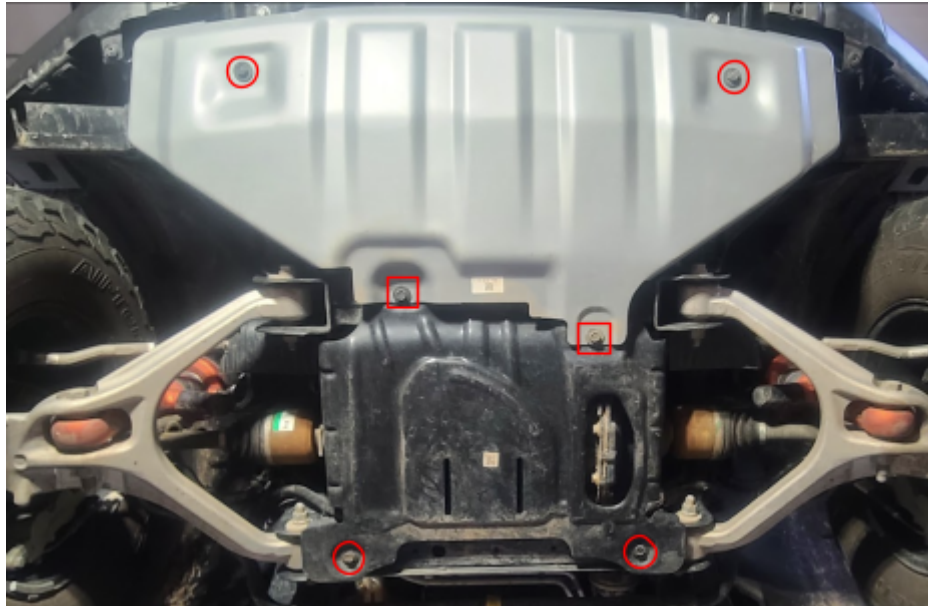


Figure 1: OEM Skid Removal

Installation

- 2) Begin by unpacking and removing all components and hardware. Please verify that all hardware and mounting components are present. Reference your original order invoice and verify all items are accounted for.
- 3) Secure the Secondary skid plate and standoff bracket to the Engine skid plate using the included 3/8" X 1" carriage bolts(5), 3/8" washers(5), 3/8" lock washers(5) and 3/8" nuts(5). Please refer to the figures below for the correct orientation of the engine and secondary skid, as well as hardware orientation.

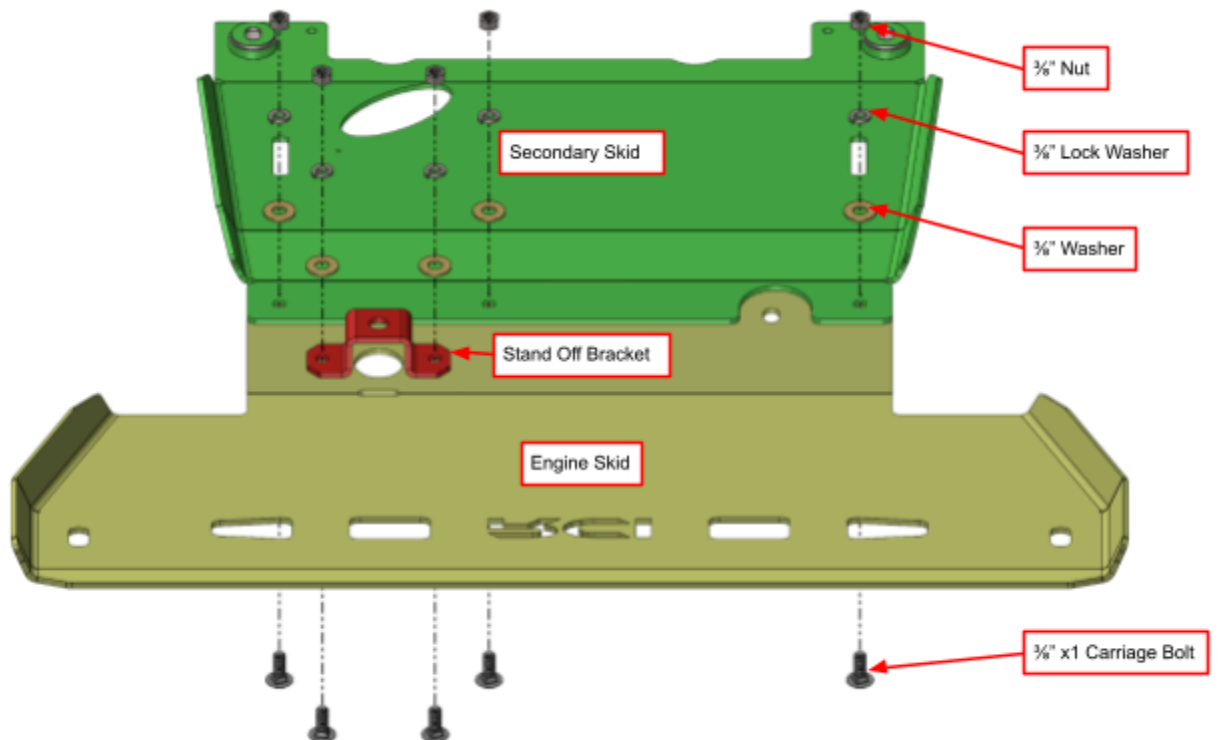


Figure 2: Skid assembly

- 4) ****Non-Raptor Owners**** Collect the non-raptor mounting brackets (2). Remove the front bolt on both factory tow points. Bolt the mounting bracket to the vehicle using the previously removed front recovery point bolt and leave hand tight. If you have a Ranger Raptor, skip this step.

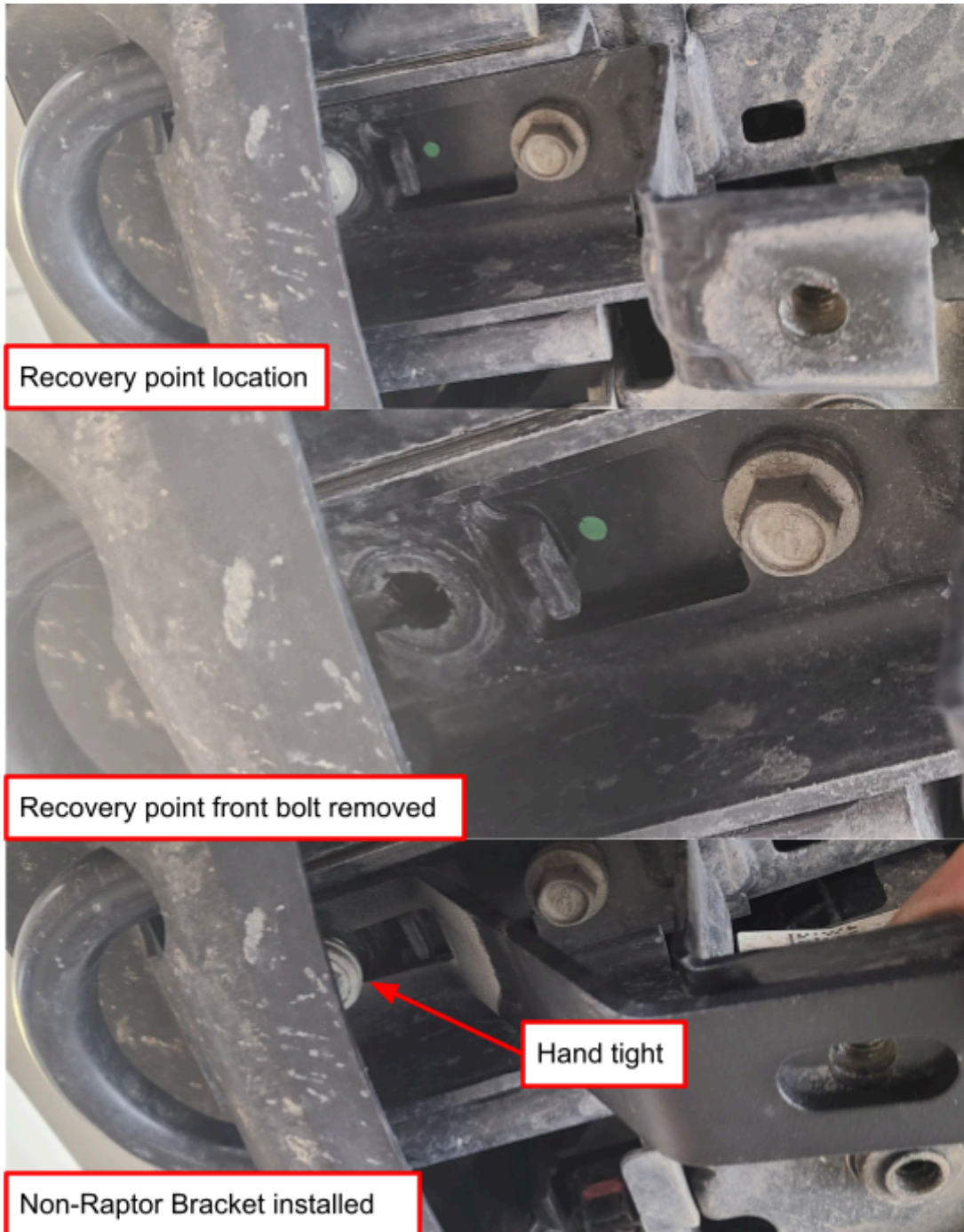


Figure 3: Tow Hook Bolt Removal

- 5) Collect two M10X35mm bolts(2) and two 3/8" washers(2). Lift the assembled Engine and Secondary skid package up to the frame and line up to two most forward holes in the engine skid with the front skid brackets and bolt to the vehicle to be hand tight. Allow the assembly to hang on the front bolts and washers.



Figure 4: Front Hardware Install

- 6) Lift the rear of the Secondary skid package until it contacts the vehicle chassis. Loosely install a set of 3/8" washers(2) and M10x35mm bolts(2) in the rear-most mounting points of the Secondary skid.

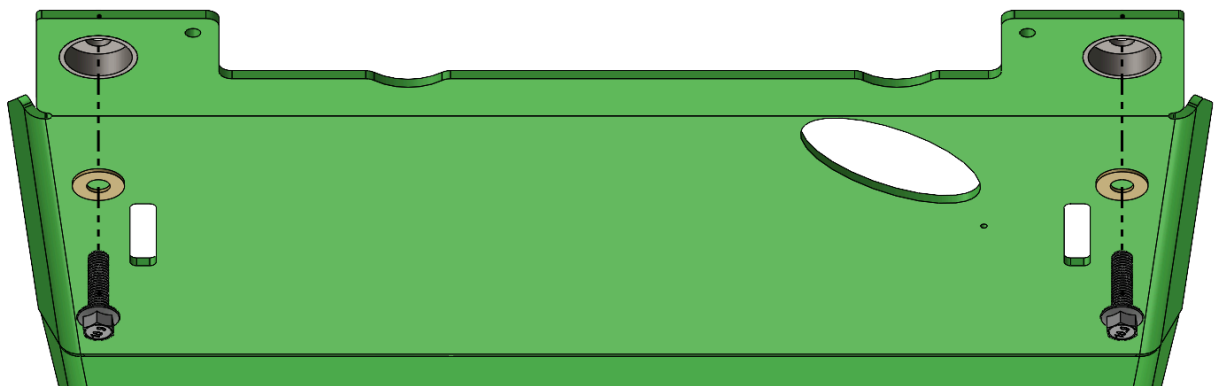


Figure 5: Rear Hardware Install

- 7) Install a set of 3/8" washers(2) and M10x35mm bolts(2) in the central mounting points of the assembly, just in front of the carriage bolts installed in step 2. Tighten.

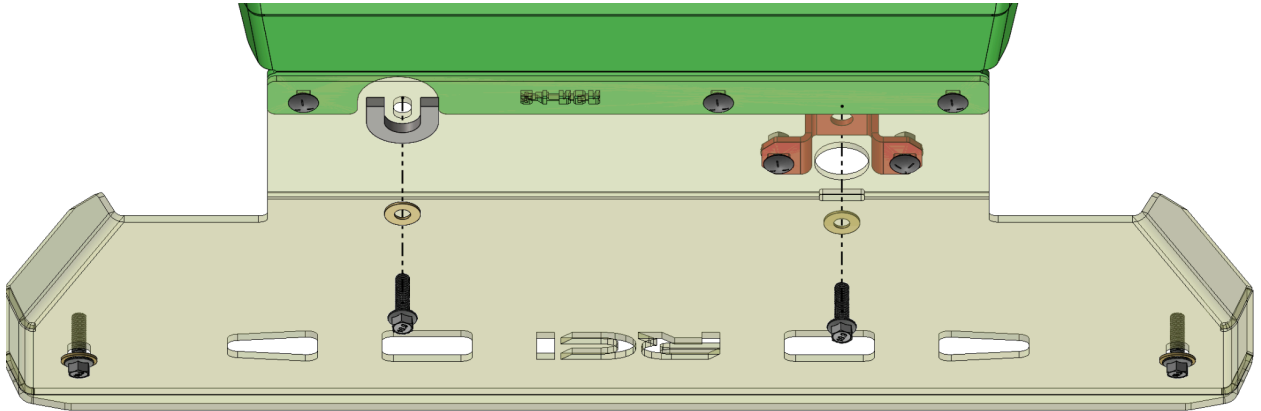


Figure 6: Center Hardware Install

- a) If installing the RCI Ranger Engine and Secondary skid plate with an RCI Ranger Transmission skid, please loosely mount the Transmission skid(refer to Ranger Transmission install guide) and align the Secondary and Transmission skids before proceeding.
- 8) Tighten the rearward most bolts, followed by the most frontwards bolts.
- 9) ****Non-Raptor Owners**** Tighten the front recovery point bolts that were previously removed to 45 ft-lbs.



Figure 7: Tow Hook Torque



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