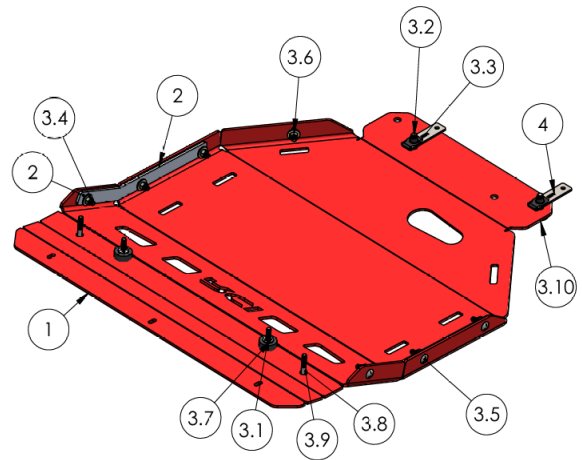


RCI SUBARU ENGINE SKID INSTALLATION GUIDE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SM-00856	.188 AL Subaru Outback Engine Skid	1
2	SM-00866	Outback Engine Skid Flange Brace	2
3	HK-00145	KIT: 15-25 Outback Engine Skid Hardware Kit	1
3.1	HW-00012	7/16 NYLON SPACER	2
3.2	HW-00021	M10-1.5 X 35MM HEX FLANGE BOLT	2
3.3	HW-00023	5558B1M: M10-1.5 U-NUT .90MM-	2
3.4	HW-00037	5/16 USS FLAT WASHER ZINC	7
3.5	HW-00179	5/16-18 x 1.25" Carriage Bolt Zinc	7
3.6	HW-00062	5/16-18 NYLON INSERT LOCK NUT	7
3.7	HW-00180	M8 Retaining Washer	2
3.8	HW-00178	M8 x 1.25 x 45	4
3.9	HW-00186	M8 Bolt Protector	4
3.10	HW-00187	M10 Bolt Protector	2
4	HW-00002	Mounting Plate #1 .135MS	2



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

Preparation

- 1) Remove the plastic retaining clips at the following locations.



Figure #: Bottom View of Plastic Clips to Remove



Figure #: Lower Side View of Retaining Clips to Remove



Figure #: Upper Side View of Retaining Clips to Remove

- 2) Remove the bolts at the following locations and support the OEM plastic when removing the last bolt.



Figure #: Bottom View of Bolts to Remove

Installation

- 3) 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.
- 4) Collect the MP1 plates and Speed Clips. Assemble MP1 Plate as shown.



Figure #: Assembly of MP1 Plates and Speed Clips

5) Using one of the assembled MP1 plates, partially thread one M10 x 35mm bolt with a 7/16" washer into the speed clip. Insert it into a slot with the greatest clearance above it (2 or 3).

a) When using a mounting hole (1 or 4) place the MP1 plate without the bolt threaded in from above. See figures below.

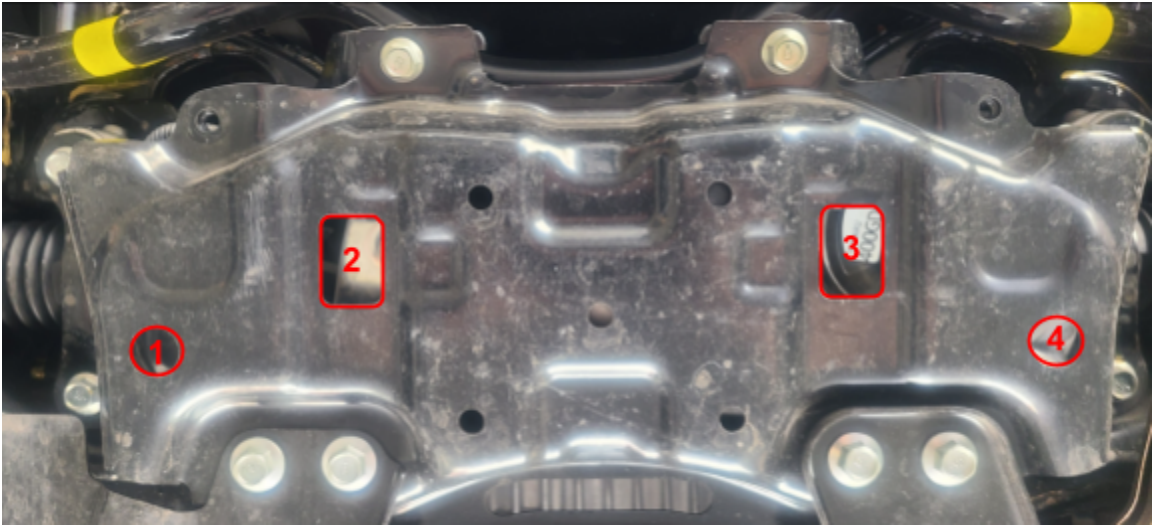


Figure #: Speed clip location key.



1: Partially thread bolt.

2: Insert assembly into slot.

3: Remove bolt once inserted.

Figure #: Installation and assembly process for slot mounting.



1: Place MP1 behind frame.

2: Align MP1 speed clip hole with frame hole and thread in bolt.

Figure #: Installation and assembly process for hole mounting.

- 6) Collect the engine skid, 2x braces, 7x 5/16-18 x 1.25" Carriage Bolts, 7x 5/16-18 Nylon Locking Nuts, and 7x 5/16 USS Flat Washers. Place the skid on the ground with the bends facing up. Assembly the hardware and braces as shown.

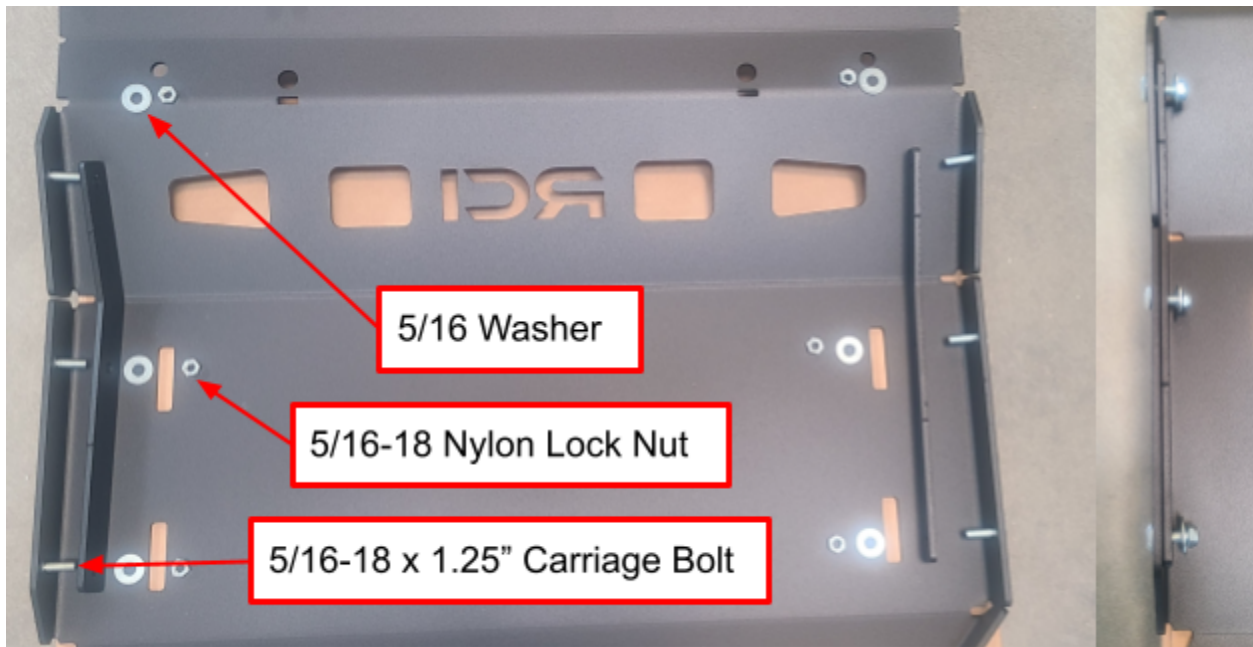


Figure #: Engine Brace Assembly.

- a) Use the remaining set of 5/16" hardware and assemble it as previously done into the remaining slot as shown.
- i) This hardware will serve a future use.
 - ii) This hardware is included for future component integration.
 - iii) This hardware will be used in a future product offering.



Figure #: Rear Mounting Hardware

- b) Install RCI front lip if present. Refer to the front lip installation guide.
- 7) Collect 2x M8 Retaining washers, 2x 7/16" Nylon Spacers, 4x 3/8" Washers, and 4x M8 x 45mm Bolts. Assemble the inner mounting hardware as shown. Prepare outer hardware for installation.

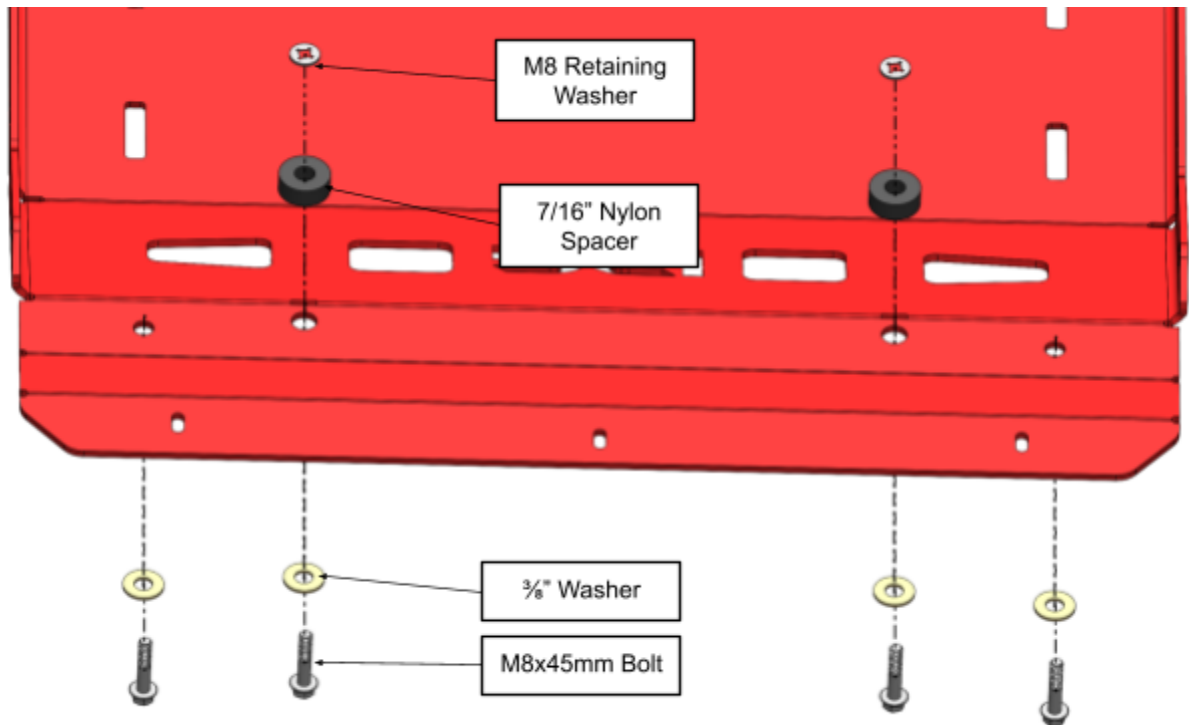


Figure #: Front Hardware Preparation.

- 8) Lift the skid into place and hand thread in the front 4 M8 bolts into the frame.

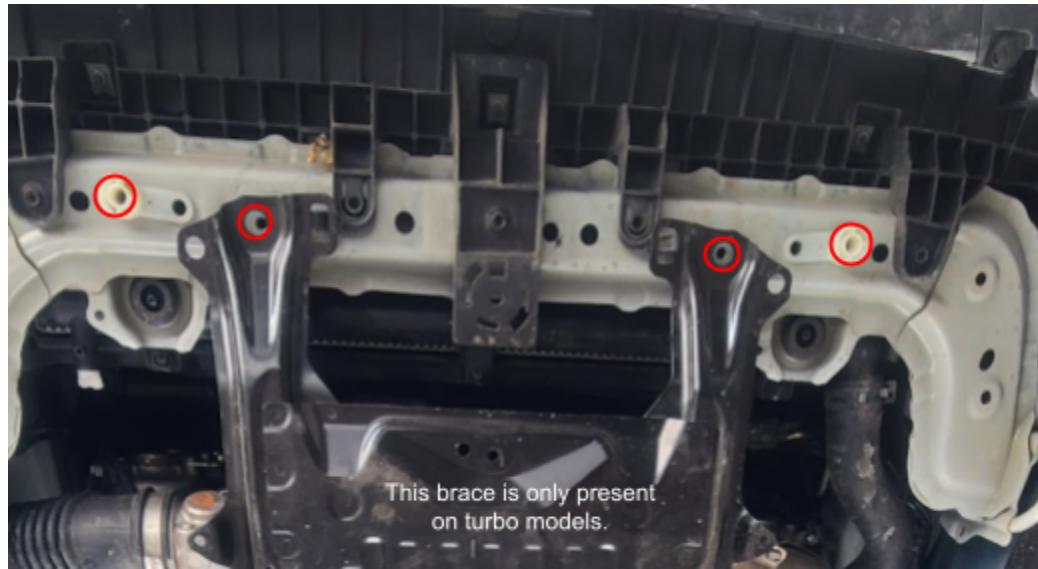


Figure #: Front Mounting Bolt Locations.

- 9) Collect 2x M10 x 35mm bolts and 2x $\frac{3}{8}$ " Washers. Push up on the rear of the skid. Thread in and hand tighten the rear mounting bolts into the previously installed MP1 plate assembly.
 - a) If you have an RCI Transmission skip this step and follow the transmission install guide procedure.

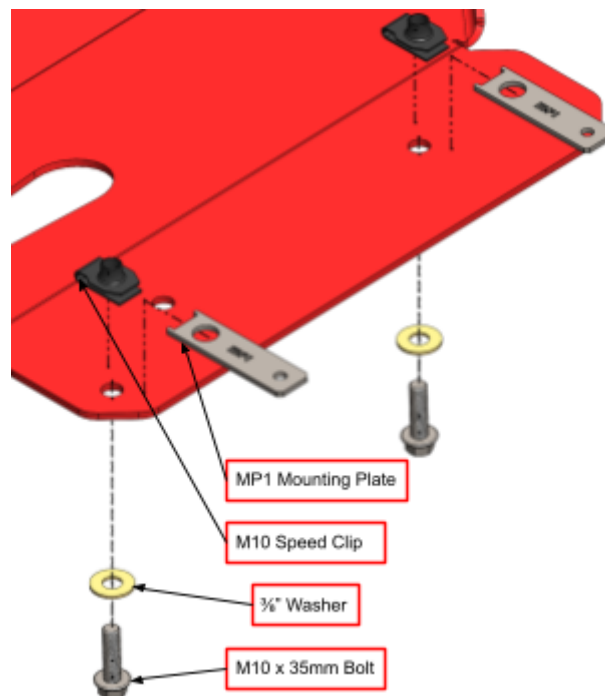


Figure #: Rear Mounting Hardware.



10) Tighten and recheck all hardware.

- a) Note for Turbo Models: The engine skid is intended to be in contact with the factory turbo brace both for added strength and to eliminate the chance of rattling.

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