



EVO Manufacturing

Jeep Wrangler JL 2018+ 3.6L ONLY

EVO MFG JL 3.6L PROTEK ENGINE, TRANS SKID

EVO-3039B





Before starting installation procedure please read <http://evomfg.com/Returns-Warranties-Shipping>

CAREFULLY READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL AND KEEP FOR FUTURE REFERENCE. IF YOU HAVE ANY QUESTIONS ABOUT THE PRODUCT CALL EVO MANUFACTURING. FAILURE TO FOLLOW GUIDELINES COULD RESULT IN MALFUNCTION OF PARTS OR INJURY. PLEASE HAVE A TRAINED PROFESSIONAL ASSIST WITH OR INSTALL ALL PRODUCTS. INSTALLING EVO MFG PRODUCTS OR KITS DEMANDS SPECIFIC KNOWLEDGE, TOOLS AND EXPERIENCE. GENERAL KNOWLEDGE OF HOW TO USE LATER SPECIFIED TOOLS AND/OR LIMITED EXPERIENCE WITH EVO MFG PRODUCTS MAY NOT BE ENOUGH TO PROPERLY COMPLETE THESE TASKS. SOME OF EVO MFG PRODUCTS MAY REQUIRE TWO OR MORE PEOPLE TO INSTALL SAFELY AND CORRECTLY. DO NOT ATTEMPT ALONE, ALWAYS ENLIST THE HELP OF TRAINED PROFESSIONAL WHEN NEEDED.

Notes: Set Up Before installation

Recommended working with vehicle suspended using jack stands or with wheels chocked.

The EVO 3039B is compatible with JLU 3.6L only.

EVO-3039B is compatible with all EVO MFG JLU Suspension Systems.

No drilling, cutting or welding required.

Retain all bolts removed in process, they will be reused.

READ BEFORE INSTALL:

1" or larger front bumpstop extensions are recommended to be installed with this skid plate system.

Reuse of bolts already installed on Jeep will be necessary.

ALWAYS wear safety glasses and other approved safety gear when working on a vehicle.

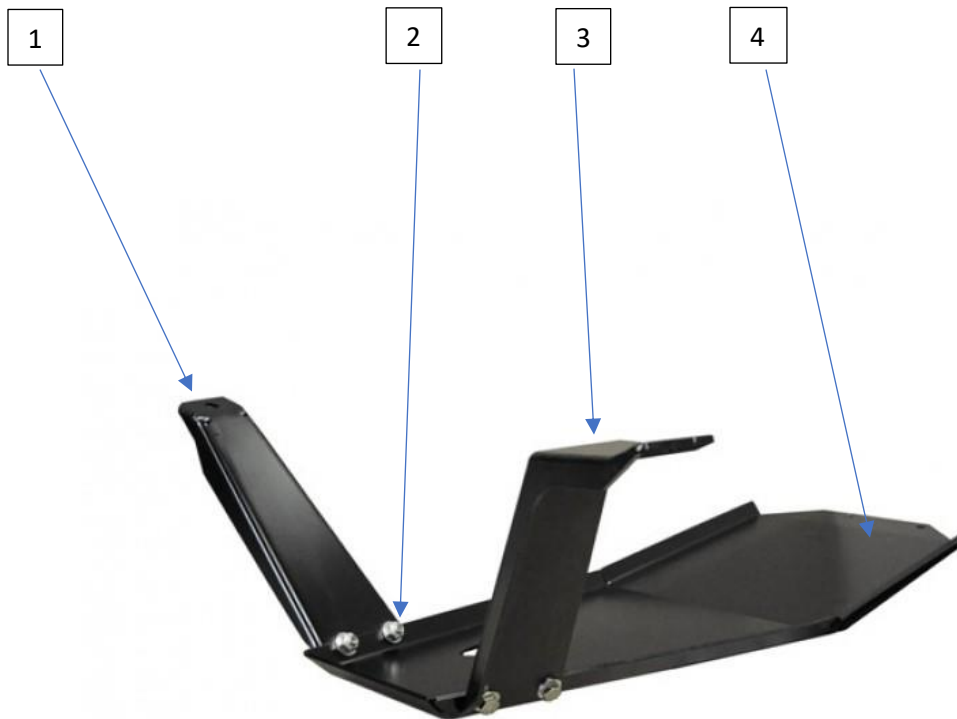
Some grinding / sanding may be required to achieve your desired fitment.

It is recommended all installation be performed by a trained professional. Some modification may have to be done.

If lifting vehicle do so carefully and support vehicle with approved jack stands.

Parts included: Table below shows Jeep JL PROTEK ENGINE, TRANS SKID

Description	#	Part #	Quantity
Passenger Mount	1	EVO-12373B	1
Hardware	2	EVO-770086	1
Driver Mount	3	EVO-12372B	1
Engine/Trans Skid	4	EVO-12371B	1





Recommended Tools:

- Wrench/Socket Wrench
 - Loctite
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Safety Steps for installation

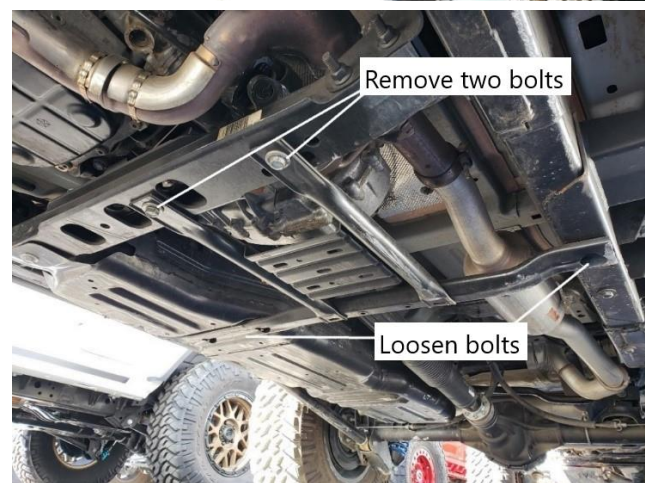
- For installing EVO MFG products always use wheel chokes to block rear tires from rolling.
- Always make sure you have everything necessary ready before install.
- If you have to, carefully lift front of vehicle by front frame rails extending suspension until tires leave the ground, place frame on approved jack stands for vehicle. Verify all lines/wires are not over extended.
- Remove tires if needed for easier install.
- Make sure to wear safety equipment (eye protection, hand protection, foot protection etc.) at all times during installation.
- Make sure all safety precautions have been taken.
- Always check and replace any part of vehicle that is worn or broken before starting install.
- Do not mix anything EVO with weaker alternatives.
- It is generally a good idea to apply liquid threadlock to all bolts.
- Tighten included hardware to torque specifications in bottom table unless it is otherwise specified, factory bolts should be torqued to factory Jeep specifications.
- Welding creates a very bright arc that should not be looked at without an approved protective shield/clothing. Welded surfaces and areas in their vicinity will be very hot for a long time. All welding should be performed by a professional. USE CAUTION





After putting vehicle in park, on a flat surface, chalked the tires and turned off the vehicle.

1. Remove forward most crossbar, forward of the transmission crossmember, by removing the 3 bolts, 2 in frame and 1 in transmission crossmember. Discard, this will not be reused. **Retain all bolts.**
2. Remove 2 screws holding transfer case skid plate to transmission crossmember.
3. Loosen the other 2 bolts in transfer case skid plate a few turns until front lowers ½". Do not remove skid plate.



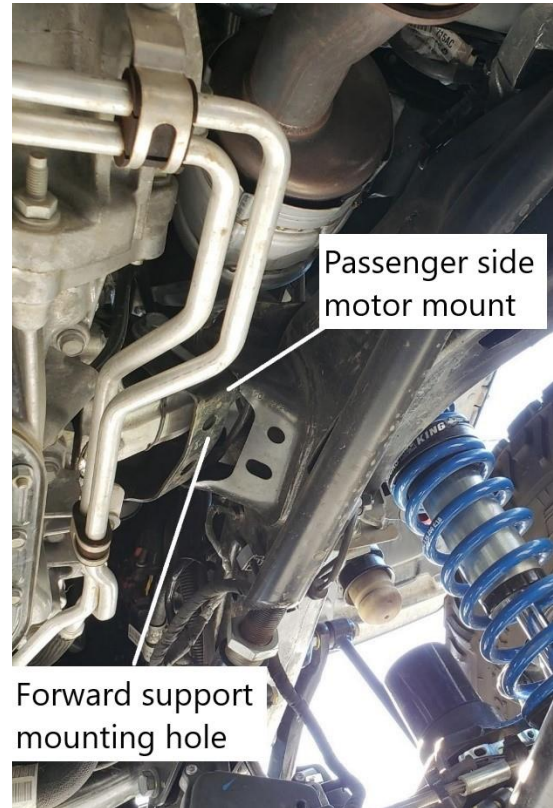
4. Slide EVO MFG engine/transmission skid plate between lower factory transfer case skid and transmission crossmember (sandwiching EVO Skid).
5. Reinstall the removed 2 bolts into transmission crossmember.
6. Using supplied hardware, loosely install the driver side (larger) forward support to hole in frame bracket just below the motor mount. Bolt from top down, EVO bracket on underside of motor mount bracket.



7. Using supplied hardware, loosely install the driver side (larger) forward support to hole in frame bracket just below the motor mount. Bolt from top down, EVO bracket on underside of motor mount bracket.



8. Using supplied hardware, loosely install the passenger side (smaller) forward support to hole in frame bracket just below the motor mount. Bolt from top down, EVO MFG bracket on underside of motor mount bracket.
 9. Using supplied hardware, loosely install the forward supports to main engine /trans skid. Forward support mounts should be mounted to the outside of the engine/trans skid tab
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Once all bolts have been loosely fitted, tighten to specified torque using table below



After Install:

- Tighten all bolts securing purchased parts to specified locations.
- After completing installation using provided instructions, go through all steps again to make sure nothing was missed, not tightened or improperly assembled.
- Some components may need to be purchased separately.
- Check turn signals, headlights, fog lights (if applicable), taillights, blinkers and windshield wipers.
- Adjust mirrors, speedometer and headlights if needed.
- Make sure all gauges are fully operational.
- Drive the vehicle slowly for a couple minutes, looking and listening for abnormal noises while driving. After modification of a vehicle there will be differences in driving experiences and capabilities, be mindful of that.
- Inspect and Retorque all Bolts after 500 miles of completed installation and regularly thereafter.
- Some modification may be required.

Recommended Torque:

Size	Grade 2		Grade 5		Grade 8		18-8 S/S	
	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine
#4*	-	-	-	-	-	-	5.2	-
#6*	-	-	-	-	-	-	9.6	-
#8*	-	-	-	-	-	-	19.8	-
#10*	-	-	-	-	-	-	22.8	31.7
1/4	4	4.7	6.3	7.3	9	10	6.3	7.8
5/16	8	9	13	14	18	20	11	11.8
3/8	15	17	23	26	33	37	20	22
7/16	24	27	37	41	52	58	31	33
1/2	37	41	57	64	80	90	43	45
9/16	53	59	82	91	115	129	57	63
5/8	73	83	112	128	159	180	93	104
3/4	125	138	200	223	282	315	128	124
7/8	129	144	322	355	454	501	194	193
1†	188	210	483	541	682	764	287	289