



EVO Manufacturing

Jeep Wrangler JLU 2018+ 3.6L ONLY

EVO MFG JLU 3.6L PROTEK EXHAUST LOOP SKID EVO-3040B

EVO-3040B



Requires EVO Protek Trans/Engine 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

Keep factory bolts that are removed, we will reuse the factory hardware

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

No drilling, cutting or welding required.

Clean underbody area, will make install much easier.

Keep all mounting bolts loose (installed but not torqued) we will torque later at the end of complete installation

READ BEFORE INSTALL:

Put vehicle in park on a flat surface and chalk tires and turn off vehicle.

It is generally a good idea to apply Loctite to all threaded bolts.

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

All supplied bolts torqued according to chart at end of instruction.

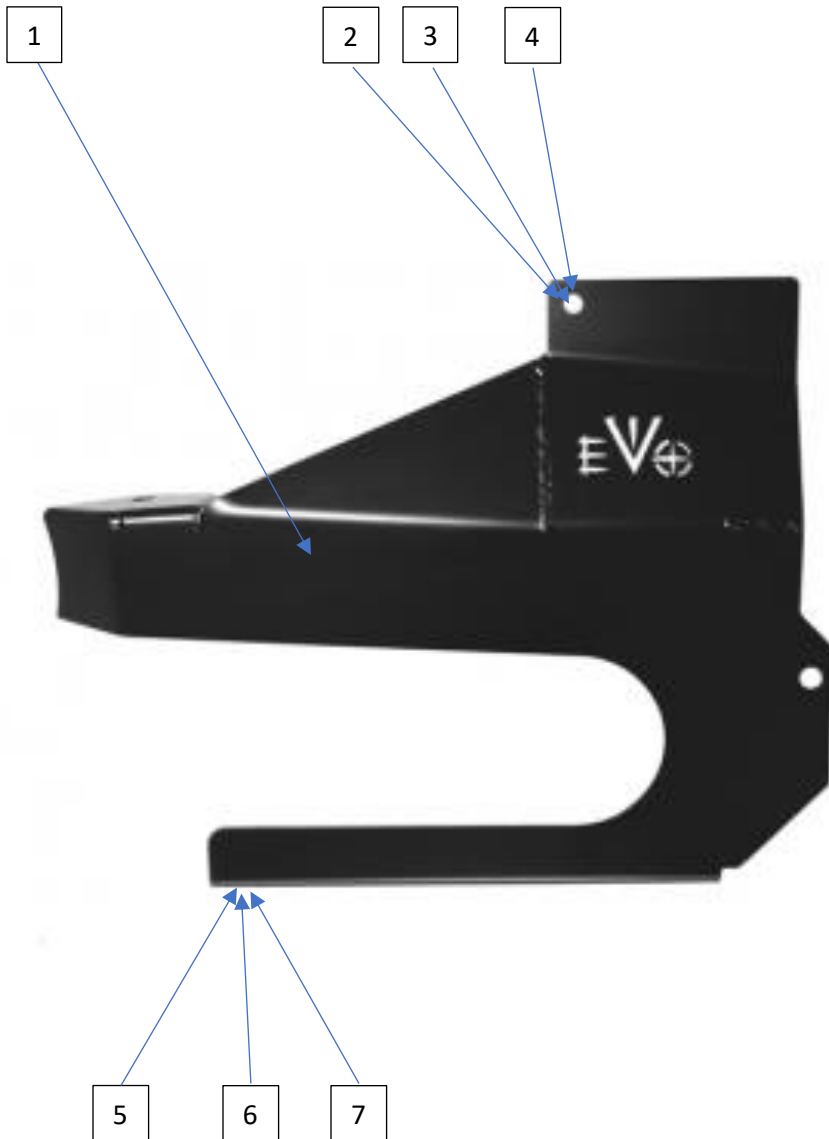
It is recommended all installation be performed by a trained professional. Some modification may have to be done.

This Skid is made to protect the exhaust loop while also clearing the front driveshaft, make sure after installation (using all safety precautions necessary, some precautionary measures are stated below under Safety Steps for Installation) that the drive shaft does in fact clear the skid. Driveshaft contact with skid plate could cause damage to driveshaft.



Parts included: Table below shows black (painted) trail roof rack.

Description	#	Part #	Quantity
EVO Exhaust Loop Skid	1	EVO-12374B	1
HHCS 3/8"	2	EVO-900022	1
SAE Washer 3/8"	3	EVO-900214	1
Limit Strap Nut	4	EVO-12377CZ	1
Stover Lock Nut	5	EVO-900221	1
SAE Washer 7/16"	6	EVO-900215	1
HHCS 1/2"	7	EVO-900038	1





Recommended Tools:

- Wrenches (English/metric)
 - Loctite
 - Impact wrench with sockets
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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.
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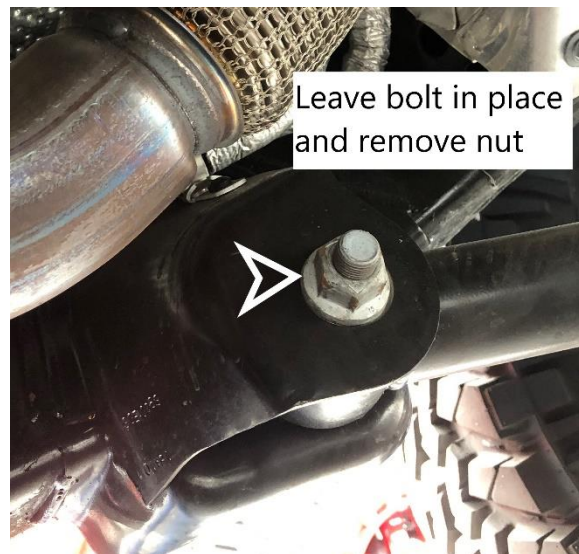




INSTALL

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

1. Remove nut from bolt on driver side control arm mount on frame end. Keep bolt in place and **retain nut, will be used later for reinstallation.**



2. Insert flag nut (limit strap nut) into oval slot in frame (on drivers side in front of transfer case crossmember) and line up with hole.
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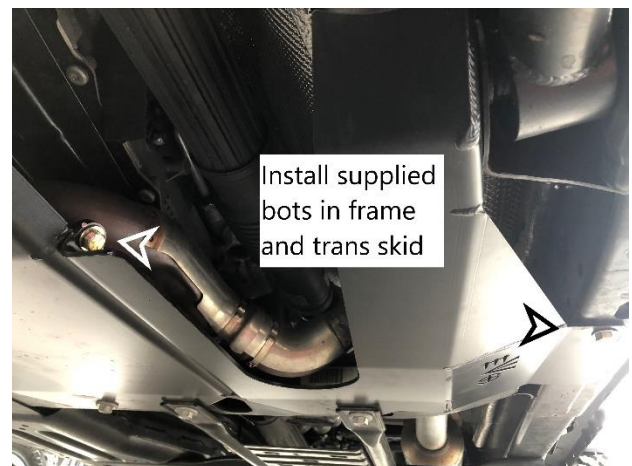


Remove the bolts at the forward end of transfer case skid plate.

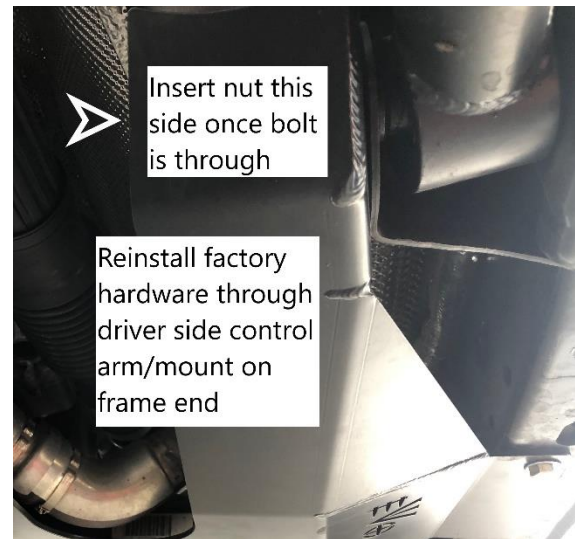
3. Slide the skid plate oriented as pictured and reinstall the bolts taken from the forward end of transfer case skid plate. Guide front of skid plate where the hole lines up with the driver side frame control arm bolt. Loosely secure all bolts.
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4. Using supplied hardware, install washer onto HHCS 1/2" and HHCS 3/8" bolts.
 5. Install HHCS 1/2" bolt with a washer into frame hole in bracket, install HHCS 3/8" bolt and washer through the holes that marry the exhaust loop skid to the engine/trans skid.
 6. Once bolt is inserted through the two skid plate marrying holes then put the supplied Stover lock nut on. Tighten but do not torque down.
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7. Using the factory hardware from the frame side upper control arm bracket, reinsert bolt through control arm bracket, then control arm, finishing through the skid plate hole. Install factory nut onto bolt and tighten but not torque. **Wait until vehicle is under its own weight and on level ground before torquing down all bolts.**
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- **All bolts need to be tightened after procedure, make sure to tighten bolts after putting vehicle safely on ground, chalking tires, and in park, under vehicles own weight at ride height.**

After Installation :

- secure 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