



EVO Manufacturing

EVO-3142/3143

**JEEP WRANGLER UNLIMITED JLU ROCKSLIDER STEPS  
JEEP GLADIATOR JT ROCKSLIDER STEPS**





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

**CAREFULLY READ COMPLETE MANUAL BEFORE BEGGINNG INSTALLATION**  
**PROCEED ONLY ONCE COMFORTABLE WITH DETAILED PROCEDURES:**

**FOLLOW ALL INSTRUCTIONS IN THIS MANUAL AND KEEP FOR FUTURE REFERENCE. IF YOU HAVE ANY QUESTIONS ABOUT THE PRODUCT CALL EVO MANUFACTURURING. 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.**

**\*\*\*\*\* TEST FIT BEFORE PAINT \*\*\*\*\***

**General Recommended Tools/Supplies:**

- Socket/Tool set (SAE/Metric)
- Wrenches (SAE/metric)
- Allen Wrench set (SAE)
- Rubber Mallet/Hammer
- Thread lock
- Drill with metal bits (if bolting on)
- Skilled Welder and protective gear (if welding on)
- Vice grip plyers
- Grinder
- Black touch up paint
- Medium thread locker liquid
- Safety glasses and other safety equipment
- Center Punch/Transfer Punch and Hammer



**Unless otherwise stated. Keep all installed bolts LOOSE until ALL bolts are loosely installed in the component part. Then tighten when specified. Tightening individual bolts in a component before all bolts are installed in that component will make further bolt install difficult/impossible.**



**Rock Light Kit:** If Rock lights were optioned. This is wire yourself product. We do not have installation instructions for this procedure and additional parts will be required/no supplied. Install should be performed by a trained and knowledgeable professional using Factory standard level materials.

**SHOWN IS JLU INSTALL, JEEP GLADIATOR FOLLOW SAME PROCEDURE WITH THE ADDITIONAL OF AN ADDITIONAL REAR FRAME FOOT. SAME PROCESS**

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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1. Follow factory procedures to remove any installed steps of sliders from the vehicle, both sides.
  2. Begin installation by grinding flat the flared edge on BOTH sides of the middle body mount.
  3. Paint exposed metal



**SLIDER ASSEMBLY: Depending on optioned sliders components, some or all of the below procedures may apply**

2 Pairs of Slider End Caps (left and right) Supplied. With nut clips.



End Plate Assembly: With a firm push, press on nut clips to Slider End Caps over the 4 holes of each part. Barrell section of nut clip should be on the inside of the part all 4 places. Center clip thread over holes.



Lighting. Insert light wire through hole in end cap. Install light to bracket using supplied M4 bolts.



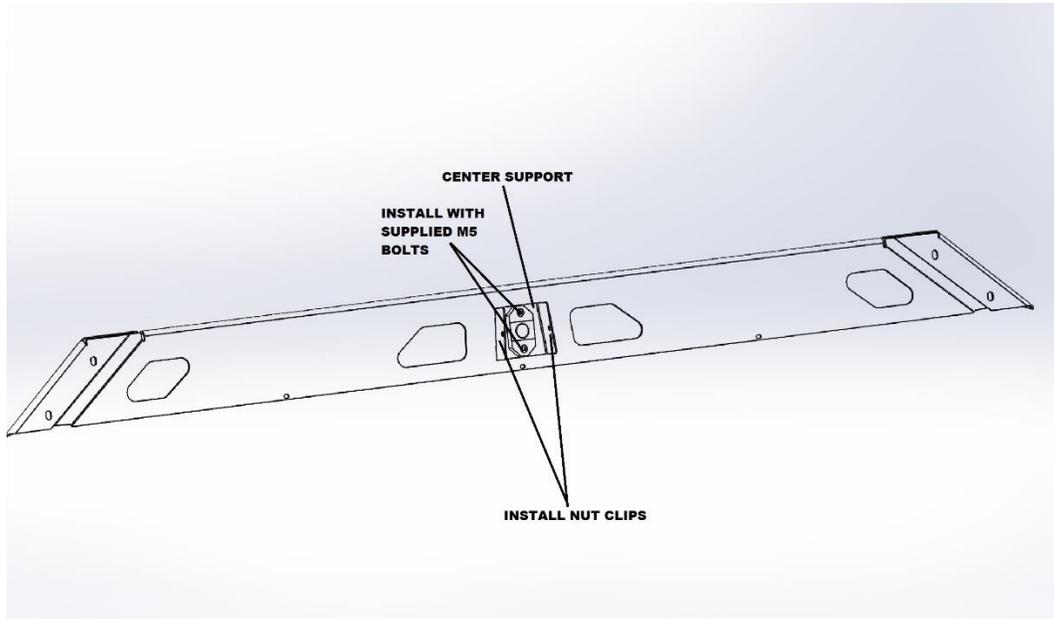


Insert end caps into slider ends. This can be a tight fit. Wiring should be positioned out bottom corner of end cap as shown. Use Supplied  $\frac{1}{4}$ " button head bolts front and back of each end of sliders 8 per slider (omit back side bolts if installing step plates)



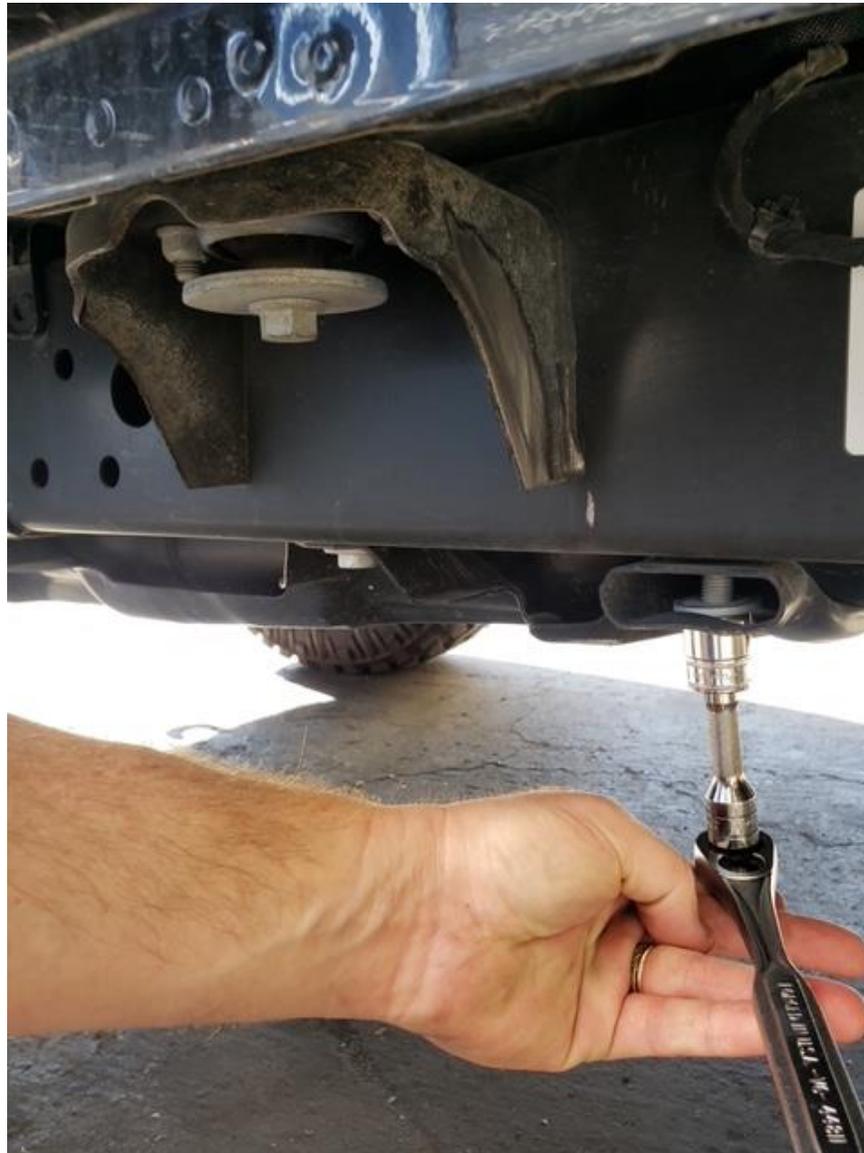


Slider Step Plates. Install 2 nut clip over holes on center mount side tabs. Barrel side inside bracket. Install Center Mount to Step Plate with supplied M5 bolts in light kit or in EVO-770103 end cap hardware kit. If installing 3<sup>rd</sup> middle light, install light on top of support plate. Position on the back side of slider as shown. Use remaining supplied ¼" button head bolts to secure.



Remove Factory M12 bolts from the underside of the frame. 1 near the forward body mount and 2/3 near middle body mount (this may vary between models). Bolts will be reused.

**Additional nearby bolts on gas tank skid and other skid plates may need to be carefully loosened (not removed) to lower skid plates and gas tank slightly to install/insert sliders. DO SO AS NEEDED**





With the specified bolts removed.

If welding: Prep any painted edges as needed (sand/remove paint) in areas that will be welded on part before bringing to vehicle for install.

Lift and install slider into place on frame. This may require 2 or more people. Middle and Rear Frame Extension will straddle the previously grinded edge middle body mount, surrounding it on both sides.

**Key Note:**

**Slider frame plates must be installed between the frame and all factory skid plate tabs and gas tank tabs. Slider sandwiches between these. NOT ON TOP OF THEM. Loosen other nearby bolts to lower skids as needed.**







Press slider up towards frame to fully seat against it. Install the removed factory bolts back into their original bolting locations. Snug bolts (Will be removed again later).

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### **Bolting On:**

With sliders in place with factory hardware on lower side of frame installed and snug.

Using supplied short nut plate (vice grip style plyers may help extend grip as shown). Install into large rear hole near rear mounting location. Install supplied 7/16" hardware with washers into nut plate at rear hole. Snug Bolt.





With slider installed and rear nut plates snugged (pulling slider up and tight to frame). Lift/Jack Slider up if needed to be against frame side. Do not mark holes until slider is up and against frame as intended for final install. Mark all to be drilled holes with marker/paint pen. On the forward foot, there is one on the body mount and one on the frame. On the middle/rear foot, there is one on each side of the body mount. 4 drill holes per side in total.







Remove the factory hardware installed on the underside of the frame and the 2 installed nut plate, use vice grip/hold tab on nut plates before bolt removal to prevent tab from falling into frame. Remove slider from vehicle.

Center punch the center of all hard holes.



The final drill size of all drilled holes 15/32"-1/2" drill bit. Start with smaller drill on all holes and then step drill size up to final size. Drill all 4 marked/center punched holes.









Reinstall slider. May require 2 or more people to insert into place.

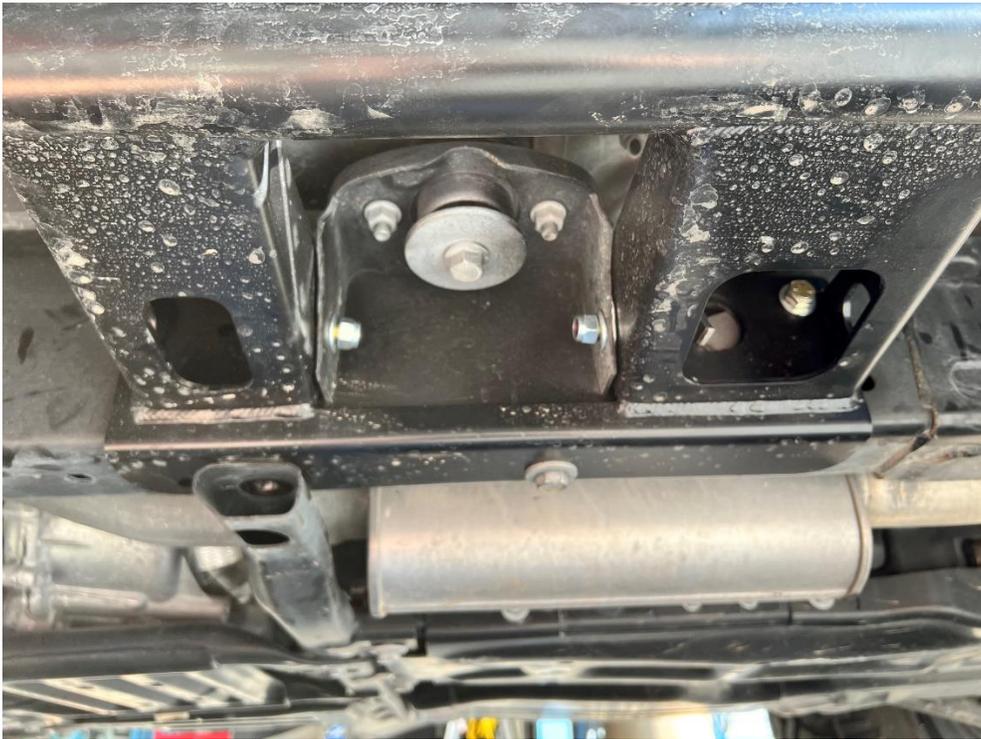
Loosely reinstall the Factory M12 bolts to underside of frame through slider and all skid plates.

Loosely install supplied 7/16" bolts, washers and nuts into 3 drilled body mount holes.

Loosely install forward and rear nut plates with supplied 7/16" hardware. (use of medium thread locker suggested).







With all bolts in part installed. Tighten all bolts to factory (factory bolts) and Recommended (supplied bolts) in table.





If Welding: This should be performed by a skill and trained professional installer. Verify no wiring, coolant lines or other delicate components are in the way, near, around or inside the areas of welding before welding.

Remove all battery connections before welding. Use a good grounding near weld application. Dropping/Removal of gas tank is suggested for safety. Consult your repair manual on proper procedure to do so.

With slider installed using factory lower frame bolts. Lift/jack/clamp Slider up into place tight against frame surfaces. Verify appropriate positioning before proceeding.

Weld all prepped areas/connection with frame and body mounts. Primarily all frame side vertical connections.

Paint all welded areas.

Reconnect/install gas tank and battery cable per your repair manual procedure.

After Install:

- 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.
- 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.



General Recommended Torque Specs: Usual Supplied Hardware from EVO MFG is Grade 8 Fine.

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