



EVO Manufacturing  
Jeep Wrangler JL and JT Gladiator  
JL/JT Powered Rock Sliders  
EVO-3210/B





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**

**Cutting and grinding will be necessary for this installation.**

**May need to use a second person to ease install.**

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

**READ BEFORE INSTALL:**

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.

Paint all unfinished surfaces after install is complete.

On aluminum bumpers, heat should not be applied due to aluminum properties



### **Recommended Tools:**

- Allen set / Driver Sockets
  - Impact with sockets
  - Grinder
  - Rubber Mallet / Hammer
  - Drill and bits
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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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Various factory slider options are available. Factory slider removal steps therefore will vary. This is just a guide, follow factory manual if further instruction is required.

### **INSTALL:**

Safely park car on flat ground, put in park and chock wheels.

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

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4. Lift and install slider frame bracket into place on frame. This may require 2 or more people. The bracket will straddle the previously grinded edge middle body mount, surrounding it on both sides. Reinstall factory skid plate bolts.

**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.**

5. With sliders in place with factory hardware on lower side of frame installed and snug. Using supplied long nut plate, install into large front hole in front of front body mounting location. Install supplied 7/16" hardware with washers into nut plate at front hole. Snug Bolt.



6. Mark hole between brackets that needs to be drilled out. Remove frame bracket and drill with 7/16" bit and paint exposed metal. Reinstall frame bracket and large nut plate to where you left off in Step 5.



7. Using supplied short and thin nut plate, install into frontmost hole on bottom side of frame plate. Install supplied 7/16" hardware with washers into nut plate at rear hole. Snug Bolt.
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8. Using supplied short sized nut plate (needle nose pliers may help extend grip as shown). Install into oval hole near between brackets. Install supplied 7/16" hardware with washers into nut plate at rear hole. Snug Bolt.
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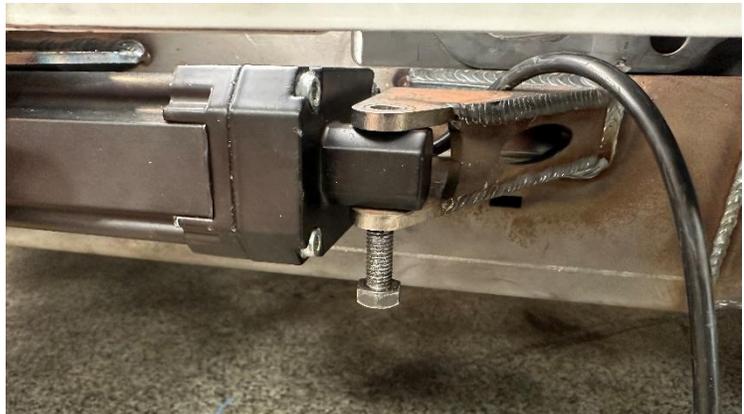
9. Using supplied medium sized nut plate (needle nose pliers may help extend grip as shown). Install into large rear hole near rear mounting location. Install supplied 7/16" hardware with washers into nut plate at rear hole. Snug Bolt.
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10. Assemble the heims as shown with the holes 90 degrees offset and a center-to-center length of around 2-15/16". The misalignment spacers should be placed in the male heim.
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11. Install linear actuator as shown with m8 bolt and nut. Ensure motor protrusion pointing towards center of the Jeep and wiring is slid into slot to prevent chafing.
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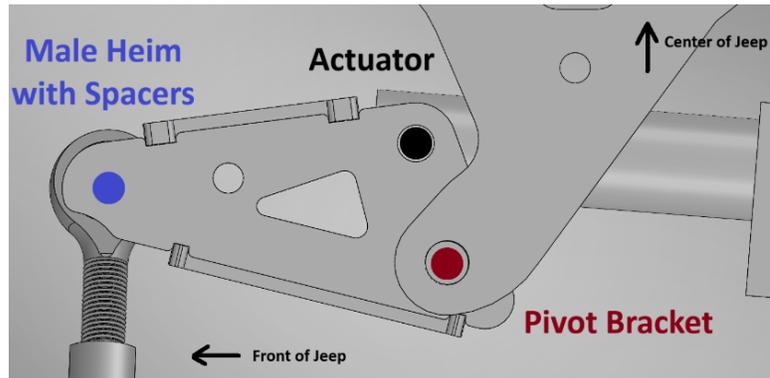
12. Install the heim assembly with the male heim and misalignment spacers into the pivot block as shown and install the 1/4" bolt and nut into the Blue hole from the diagram below.

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Note diagram is for driver side marking front and center of Jeep. Mirror image for passenger side.



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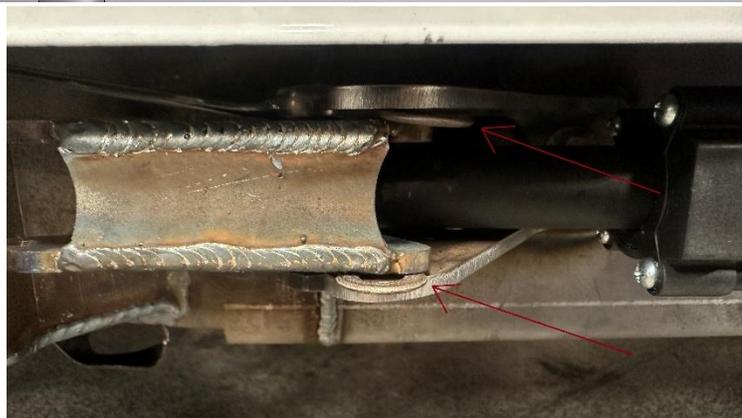
13. Slide the pivot block as shown between the pivot brackets and actuator and install the other m8 bolt and nut on the actuator side (Black hole).

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14. Next, install the thrust bearings between the pivot block and pivot brackets. Line them up and install the longer 3/8" bolt and nut into the Red hole from the above diagram.

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15. Install the bearings on one side of each slider pivot and slide the crush tube in. Then install the bearing onto each of the othersides to encase the crush tube.



16. Install slider pivots into frame brackets. The pivot block closer to the end of the slider faces the front of the vehicle. A jack can help hold the slider in place while you slide the bolts through.



17. Install the electromagnet with m3 bolts and use supplied shims if necessary to align the electromagnet with the hole in the slider pivot when the step is raised. The electromagnet should be shimmed to take play out of the step in the raised position **WHILE STILL BEING ABLE TO MOVE FREELY.**



**Important Note: Pull back on pin (circled in red) to move electromagnet.**

**Electromagnet should consistently be easy to move**

18. Install the shorter 3/8" bolt and nut connecting the slider to the heim joint. Heim joint length may need to be adjusted at this time to have slight preload when step is fully down.

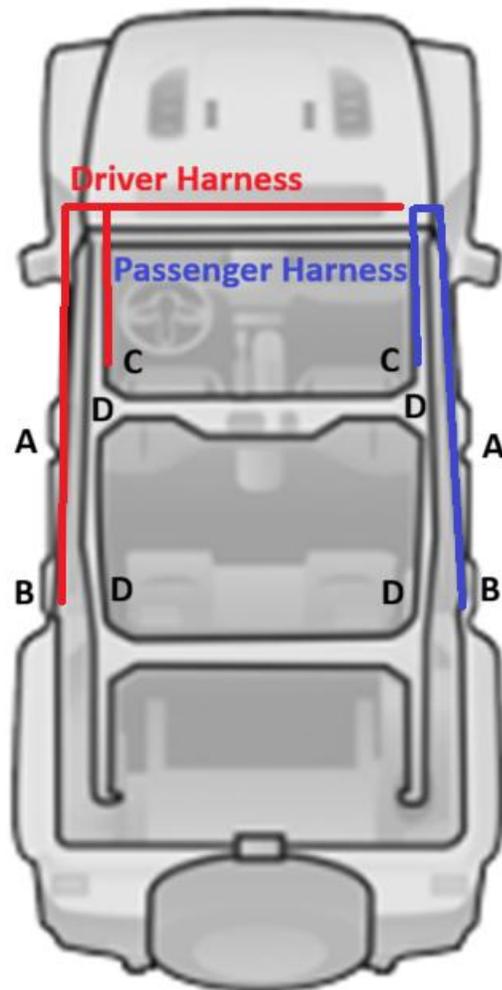


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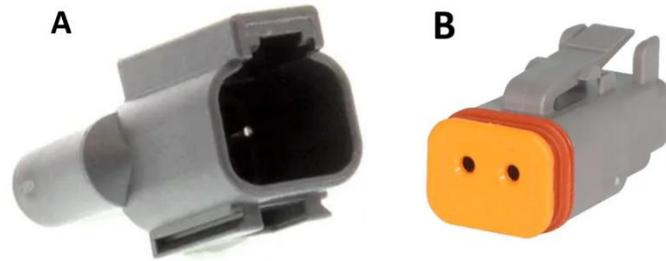
Repeat everything for the passenger side. Tighten all bolts and nuts.

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19. Lay out the wiring harnesses across the engine bay and align the ring terminals near the battery posts. Each harness is for one side of the vehicle.



20. Route driver wiring from battery across the engine bay to driver side. Route passenger harness down fender. Take the long wires with “C” connectors and route them into the cabin utilizing factory gromet locations. Take the other 2 wires from each harness with “A” and “B” connectors and run them down the frame rails.



21. Plug the “A” connectors into the actuators and plug the “B” connectors into the electromagnets.



22. Route the separate wiring harnesses with the “D” sensors along the bottom of the doors and place the “D” sensors just below the door strikers. Note: use painters tape to test location before applying double sided adhesive.



23. Attach magnets to the door roughly ¼” down from the bottom screw of the door latch. Use painters tape to test location before applying double sided adhesive. Close the door and the step should retract. After any required adjustments, use the adhesive to fix the magnet in place.



Repeat steps 22 and 23 for each door.



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