



EVO Manufacturing
Jeep Wrangler JT Gladiator
JT Roof Rack
EVO- 3075AL





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

Clean hard top and make sure water gutter is clean and clear of any debris.

Make sure to start with the standard unmodified hard top.

Knowledge of installing nutserts and install tool will be needed.

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.

This rack has a distributed dynamic load rating of 100lbs/45kg. Applying a bead of RTV Silicone in drip rail before inserting rack rails is advised for higher loads/speeds. It is advised to not carry items at high speeds that can create lift (upward force due to wind) such as but not limited to kayaks and surfboards etc.



Parts included: Table below shows JT Bare Aluminum Roof Rack.

Description	#	Part #	Quantity
Roof Rack Front Plate	1	EVO-12365AL	1
Driver Side Plate	2	EVO-12406AL	1
Passenger Side Plate	3	EVO-12407AL	1
Rear Plate	4	EVO-12408AL	1
Lower T Slats	5	EVO-12366AL	3
Upper L Slats	6	EVO-12367AL	4
Outer Mount Bracket Assemble	7	EVO-12368AL	4
Inner/Upper Main Mount	8	EVO-12369AL	4
Inner Bolt Tab	9	EVO-12370AL	4
Roof Rack Hardware	10	EVO-770085	1
HD Rubber Trim	11	EVO-900432	6
Under Lip Trim	12	EVO-900433	2
Zinc-Plated Rivet Nut	13	EVO-900415	4
HHCS 5/16-18 x 2.50 Gr8 Zinc	14	EVO-900166	4
SAE Washer 5/16 Zinc	15	EVO-900213	4





Recommended Tools:

- Allen set
 - Nutsert tool
 - Rubber Mallet
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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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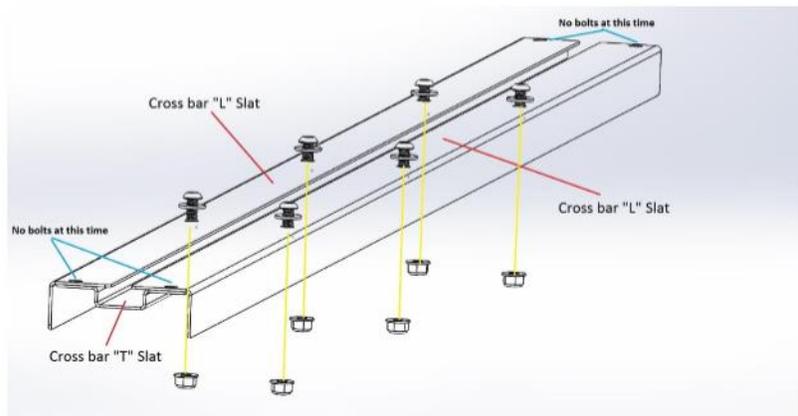


INSTALL

Begin by assembling the inner slat assembly. Each will consist of 2 "L" Slat pieces and 1 "T" slat pieces.

1. Using supplied $\frac{1}{4}$ " bolt, washer and flange nuts, assemble the inner slat assembly by installing 2 bolts on the 2 inner holes of each. The end 2 holes on each end of each slat assembly should remain without bolts at this time.

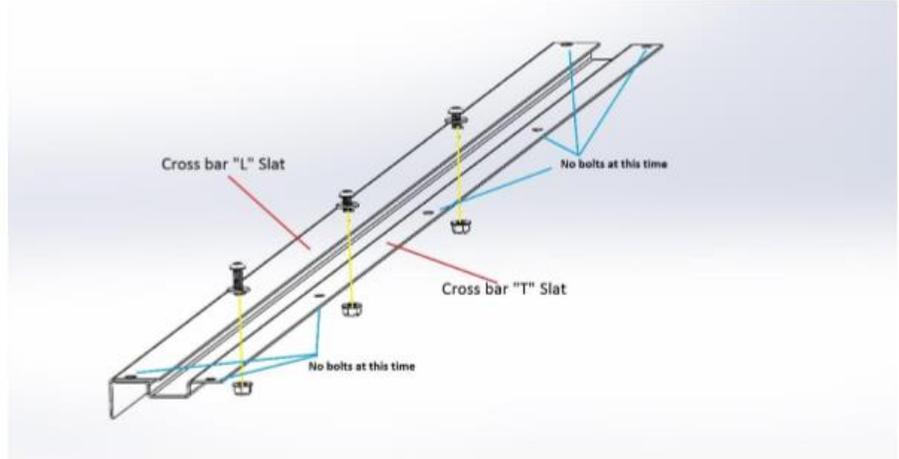
Tighten bolts of assembly.





Assemble the front and rear slat assemblies next. These will consist of 1 "L" Slat piece and 1 "T" flat piece.

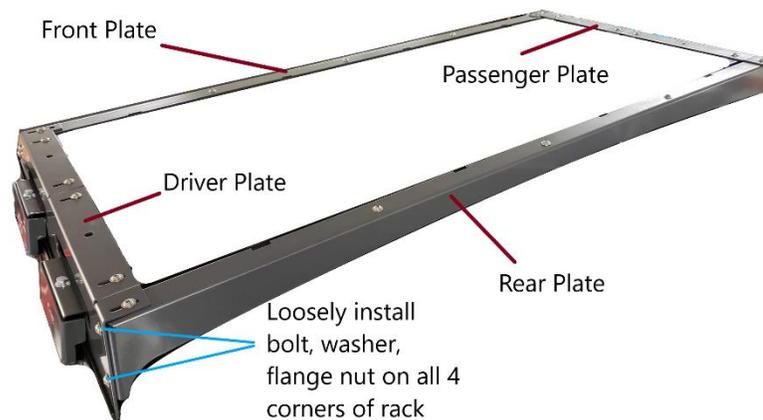
- Using supplied $\frac{1}{4}$ " bolt, washer and flange nuts, assemble 2 sets of end (front and rear) slat assemblies by installing bolts on the 3 inner holes only. The end 2 holes and other middle 3 holes should remain without bolts at this time.
- Tighten 3 bolts on both front and rear assemblies. Front and rear assemblies are duplicates of each other.



On a flat surface

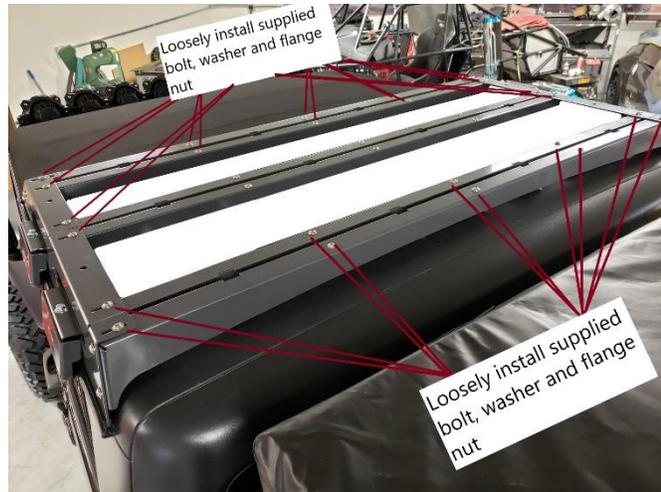
Loosely assemble the perimeter sections of the rack. This consists of the Driver side plate, Passenger side plate, Front plate and Rear plate.

- Using the supplied $\frac{1}{4}$ " bolts, washer and flange nut loosely install 2 sets at each corner.

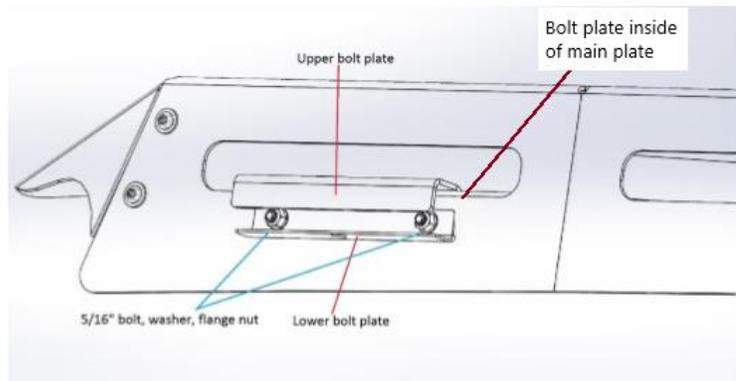


- Using supplied $\frac{1}{4}$ " bolt, washer and flange nuts, loosely install the pre-assembled middle cross bar slat, front and rear cross bar slat.

All cross bar assemblies should be installed on the underside of the perimeter parts.



- Using supplied $\frac{5}{16}$ " bolt, washer, flange nut. Install upper bolt plate and lower bolt plate as shown. Install upper bolt plate from inside of main plate through slot toward the outside. Tighten bolts. Do this at all 4 ends.
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- Using your nutsert installation tool and tool specific installation guide, install nutserts onto the outer rail mounting plate. Use picture as reference.
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Upper bolt plate should be installed to the inside of main side plate and pass through large slot. See picture to the right



This may require 2 or more people.

8. With rack loosely assembled and upside down. Flip over if needed. Install/press on edge trim on driver side plate edge end to end. Trim and use remainder to repeat on passenger side plate.
9. Flip rack with top up. Lift over jeep hard top and set into place on into the drip rail. Rack should be placed where the rear edge of the side plates line up with the rear of the drip rail. Use line on picture as reference.

The rack may require a slight push to fully seat into drip rail.



10. Install edge trimming on the edge of the 4 outer rail mounting plate lips.



11. Insert bolt and washer from top down of upper mounting plate and thread into outer rail mount. Lower edge with trim should be grabbing underside of hardtop drip rail.

Note: Do not over tighten this bolt. Snug to 15 lb/ft. Repeat on all 4 mounting ends.



Tighten all bolts.



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