



EVO Manufacturing  
**JL/JT FRONT ALUMILITE BUMPER INSTRUCTION**



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

**ALL BOLTS SHOULD BE LOOSELY INSTALLED IN EACH ASSEMBLIES BEFORE TIGHTENING/TORQUING ANY BOLTS**



**READ BEFORE INSTALL**

**Recommended Tools:**

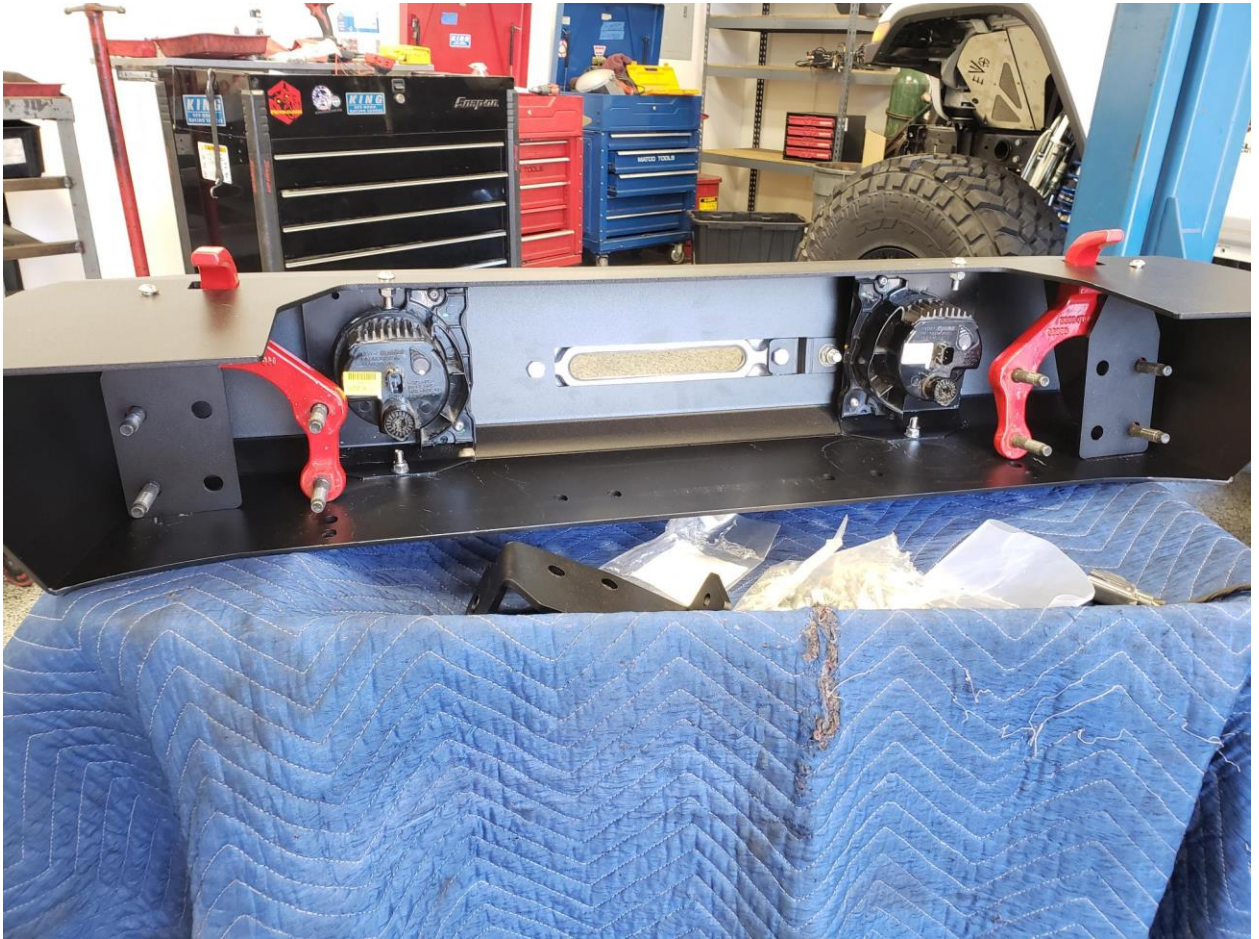
- Socket/Tool set
- Wrenches (English/metric)
- Drill/Bits
- Thread lock
- Plastic Cutting Tool/Grinder



1. Remove Front Bumper from vehicle and remove front factory fog lights from bumper. Consult factory service manual as needed.
2. There are 2 different factory fog light options on the vehicle. One style light will mount direct to fog light plate (no risers) after cut and drilled as shown. Other style light will require no modification and will mount to fog light plate on 2 risers as shown on each side. Do so as needed. Both option shown on these 2 images.



3. Assemble bumper as shown. (Fog Light will vary). Winch Fairlead will need to use supplied Jog plate. This will be used on passenger side of bumper if winch is center drum (As shown) or Driver side if winch is offset drum.



4. Loosely install inner frame buckets left and right with factory hardware.



5. Loosely install winch plate as shown



6. Bring Assembled bumper to vehicle. Be aware of Fog Light wiring. It should be routed around mounting plates as bumper is brought to vehicle.



7. Install and torque all bolts. Winch can set/mounted during this procedure. Fully tighten/torque afterwards.







Skid and/or Hoop can be added during this procedure.

Skid uses winch bolts to mount.

Hoop uses upper bolt hole. Rear 2 Hoop holes need to be drilled.

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:**

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