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**INSTALLATION INSTRUCTIONS FOR:  
RE9801  
2018 & Up JEEP WRANGLER JL UPPER and LOWER CONTROL ARM  
MOUNTING BRACKETS**

**RE9801:**

- 1 86-RM24350 Geometry Correction Bracket Outer: Drvr
- 1 86-RM24351 Geometry Correction Bracket Inner: Drvr
- 1 86-RM24352 Geometry Correction Bracket Outer: Pass
- 1 86-RM24353 Geometry Correction Bracket Inner: Pass
- 2 86-RM20192 Large Sleeve
- 2 86-RM20197 Small Sleeve
- 1 HWC15063: Hardware Pack
- 4 16mm-2.0 x 110mm Hex Bolt 10.9
- 4 16mm-2.0 Nylock Nut
- 8 16mm Hardened Flat Washer Gr. 8
- 4 3/8"-16 Flanged Hex Nut Non-Locking Gr. 5
- 4 3/8"-16 x 1.0" Carriage Bolt Gr. 5
- 2 12mm Flat Washer
- 2 12mm-2.0 x 80mm Hex Bolt 10.9
- 2 12mm-2.0 Prevailing Torque Lock Nut

**REQUIRED TOOLS:**

Basic mechanics' hand tools  
Jack Stands

## **Installation with Rubicon Express JL 2.5"/3.5"/4.5" Suspension Kits:**

1. The geometry correction brackets (Drvr: 86-RM24350 outer and 86-RM24351 inner, Pass: 86-RM24352 outer and 86-RM24353 inner) are designed to work with all Rubicon Express Jeep JL **2.5"**, **3.5"**, and **4.5"** suspension kits. The geometry correction brackets are designed to correct suspension geometry after lift kit is installed. The geometry correction brackets lower the pivot points at the frame to compensate for lowering of the axle and will also bring front axle caster back into factory specifications for Jeep Rubicon, Sport, and Sahara models.

**NOTE: This installation is best performed with all four wheels on the ground.**

2. Working on one side of the vehicle at a time, remove the OE upper and lower control arm bolts at the frame end. Save the OE upper control arm hardware for reinstallation.
3. Assemble the geometry correction brackets (Drvr: 86-RM24350 outer and 86-RM24351 inner, Pass:86-RM24352 outer and 86-RM24353 inner) as shown in the illustrations below using the **3/8" X 1"** carriage bolts and nuts.
4. Position the assembled geometry correction brackets in the upper and lower OE control arm mounts. Secure the assembled geometry correction brackets to the OE upper control arm bracket using the previously removed upper control arm OE bolt, hardware, and 35-RM20197 upper spacer. Secure the assembled geometry correction brackets to the OE lower control arm bracket using the provided **16mm X 110mm** bolt, hardware, and 35-RM20192 large sleeve. **DO NOT** tighten geometry correction bracket hardware at this time.
5. Use the supplied hardware to mount the control arms into the new geometry correction brackets (**12mm X 80mm** bolts for the upper control arms and **16mm X 110mm** bolts for the lower control arms).

**NOTE: There are three upper control arm relocation holes in the geometry correction brackets. For Rubicon Express 2.5" Suspension Kits, use the upper hole. For Rubicon Express 3.5" Suspension Kits, use the middle hole. For Rubicon Express 4.5" Suspension Kits, use the bottom hole**

**NOTE: Depending on actual lift height, it may be necessary to use the alignment cams supplied with the lift kit or utilize different holes in the geometry correction brackets to be sure caster falls within factory specs when aligning.**



**Photo 1**



**Photo 2**

6. Repeat steps 2 through 5 on the remaining side of the vehicle.
7. With the geometry correction bracket and control arm installations complete, Torque the mounting hardware as follows:
  - OE hardware to factory specifications
  - 16mm hardware to 165 ft./lbs.
  - 12mm hardware to 75 ft./lbs.
  - 3/8" hardware to 45 ft./lbs.

### **Installation review:**

1. Torque all the bolts to factory specifications. Be sure to double check your work.
2. Align the vehicle as soon as possible. Set to minimum factory caster angle (4.5-5.5 degrees positive) and factory toe-in specifications.
3. Recheck all bolts after 50 miles and again after every off road excursion.



## **RUBICON EXPRESS ADVANTAGE LIFETIME WARRANTY**

### ***Notice to Owner, Operator, Dealer and Installer:***

Vehicles that have been enhanced for off-road performance often have unique handling characteristics due to the higher center of gravity and larger tires. This vehicle may handle, react and stop differently than many passenger cars or unmodified vehicles, both on and off-road. You must drive your vehicle safely! Extreme care should always be taken to prevent vehicle rollover or loss of control, which can result in serious injury or even death. Always avoid sudden sharp turns or abrupt maneuvers and allow more time and distance for braking! Rubicon Express reminds you to fasten your seat belts at all times and reduce speed! We will gladly answer any questions concerning the design, function, maintenance and correct use of our products.

Please make sure that the Dealer / Installer explains and delivers all warning notices, warranty forms and instruction sheets included with Rubicon Express product.

Application listings in this catalog have been carefully fit checked for each model and year denoted. However, Rubicon Express reserves the right to update as necessary, without notice, and will not be held responsible for misprints, changes or variations made by vehicle manufacturers. Please call when in question regarding new model year, vehicles not listed by specific body or chassis styles or vehicles not originally distributed in the USA.

Please note that certain mechanical aspects of any suspension lift product may accelerate ordinary wear of original equipment components. Further, installation of certain Rubicon Express products may void the vehicle's factory warranty as it pertains to certain covered parts; it is the consumer's responsibility to check with their local dealer for warranty coverage before installation of the lift.

### ***Warranty and Return Policy:***

Rubicon Express warrants its full line of products to be free from defects in workmanship and materials for the life of the product. Rubicon Express's obligation under this warranty is limited to repair or replacement, at Rubicon Express's option, of the defective product. Any and all costs of removal, installation, freight or incidental or consequential damages are expressly excluded from this warranty. Rubicon Express is not responsible for damages and / or warranty of other vehicle parts related or non-related to the installation of Rubicon Express product. A consumer who makes the decision to modify his vehicle with aftermarket components of any kind will assume all risk and responsibility for potential damages incurred as a result of their chosen modifications.

Warranty coverage does not include consumer opinions regarding ride comfort, fitment and design. Warranty claims can be made directly with Rubicon Express or at any factory authorized Rubicon Express dealer.

### ***Claims not covered under warranty:***

- Parts subject to normal wear; this includes bushings\*, shock absorbers, driveshafts, ball joints, tie rod ends and heim joints.
- Discontinued products at Rubicon Express's discretion.
- Finish after 90 days.

Rubicon Express accepts no responsibility for any altered product, improper installation, lack of or improper maintenance or improper use of our products.

**\*Rubicon Express PT-MEG Super-Ride bushings are covered by the Rubicon Express Advantage Lifetime Warranty, and will be replaced in the event of failure for the life of the product.**