



RUBICON EXPRESS 1900 EL CAMINO AVE, SACRAMENTO, CA 95815 866-533-7706, [www.Rubiconexpress.com](http://www.Rubiconexpress.com)

## **INSTALLATION INSTRUCTIONS FOR: RE7133 2.5" JK BUDGET BOOST SUSPENSION LIFT**

### **Safety Warning:**

Suspension systems or components that enhance the off-road performance of your vehicle may cause it to handle differently, on and off-road, than it did from the factory. Care must be taken to prevent loss of control or vehicle rollover during sudden maneuvers. Failure to drive the vehicle safely may result in serious injury or death to driver and passengers. We recommend you always wear your seatbelt, drive safely and avoid quick turns and other sudden maneuvers. Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.

### **Installation Warning:**

We recommend that certified technicians perform the installations of our products. Attempts to install these products without knowledge or experience may jeopardize the safety of the vehicle. These instructions only cover the installation of our products and may not include factory procedures for disassembly and reassembly of factory components. Read instructions from start to finish and be sure all parts are present before disassembling the vehicle. Included instructions are guidelines only for recommended procedures and in no way are meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications. Do not perform test drives on public roads with partially completed installations. Always double and triple check your work before use.

**ESP WARNING NOTE:** The 2007+ Jeep Wrangler JK is equipped an Electric Stability Program (ESP). This system is designed to help control the vehicle in times of uncertain traction conditions and roll stability. Due to the complex nature of this program Rubicon Express strongly suggest that after lifting the vehicle it is returned to the dealer for a computer "flash" to re address tire size and proper ESP control settings. Rubicon Express also recommends that you become familiar with the ESP controls and how the different level of settings can help you to keep better control of your vehicle.

### **RE7133 Spacer Kit (w/o Shocks):**

|   |            |                                      |
|---|------------|--------------------------------------|
| 2 | RM40090    | 2.5" Front coil spacer               |
| 2 | RM40110    | 1.75" Rear coil spacer               |
| 2 | 90-RM42520 | 2" Front bump stops                  |
| 2 | HW1060     | Front bump stop mounting hardware    |
| 1 | RE1478     | Front alignment washers              |
| 2 | 86-RM22016 | 2" Rear bump stops                   |
| 1 | HWC10319   | Rear bump stop hardware pack         |
| 1 | 86-RM24053 | Rear track bar bracket               |
| 1 | HWC15018   | Rear track bar bracket hardware pack |
| 1 | 35-RM31023 | Rear Track Bar Bracket spacer        |
| 1 | RE1158     | Extended Rear Sway Bar End Link Kit  |

**RE7133E Spacer Kit (w/ Shock Extensions):**

|   |                    |                                      |
|---|--------------------|--------------------------------------|
| 1 | RE7133 Spacer Kit: |                                      |
| 2 | RM40090            | 2.5" Front coil spacer               |
| 2 | RM40110            | 1.75" Rear coil spacer               |
| 2 | 90-RM40520         | 2" Front bump stops                  |
| 2 | HW1060             | Front bump stop mounting hardware    |
| 1 | RE1478             | Front alignment washers              |
| 2 | 86-RM22016         | 2" Rear bump stops                   |
| 1 | HWC10319           | Rear bump stop hardware pack         |
| 1 | 86-RM24053         | Rear track bar bracket               |
| 1 | HWC15018           | Rear track bar bracket hardware pack |
| 1 | 35-RM31023         | Rear Track Bar Bracket spacer        |
| 1 | RE1158             | Extended Rear Sway Bar End Link Kit  |
| 1 | RE2003             | Front shock extensions               |
| 1 | RE2004             | Rear shock extensions                |

**RE7133T Spacer Kit (w/RXT Shocks):**

|   |                    |                                      |
|---|--------------------|--------------------------------------|
| 1 | RE7133 Spacer Kit: |                                      |
| 2 | RM40090            | 2.5" Front coil spacer               |
| 2 | RM40110            | 1.75" Rear coil spacer               |
| 2 | 90-RM40520         | 2" Front bump stops                  |
| 2 | HW1060             | Front bump stop mounting hardware    |
| 1 | RE1478             | Front alignment washers              |
| 2 | 86-RM22016         | 2" Rear bump stops                   |
| 1 | HWC10319           | Rear bump stop hardware pack         |
| 1 | 86-RM24053         | Rear track bar bracket               |
| 1 | HWC15018           | Rear track bar bracket hardware pack |
| 1 | 35-RM31023         | Rear Track Bar Bracket spacer        |
| 1 | RE1158             | Extended Rear Sway Bar End Link Kit  |
| 2 | RXT2421B           | Twin Tube Front Shock Extension      |
| 2 | RXT2420B           | Twin Tube Rear Shock Extension       |

**RE7133M Spacer Kit (w/RXJ Shocks):**

|   |                    |                                      |
|---|--------------------|--------------------------------------|
| 1 | RE7133 Spacer Kit: |                                      |
| 2 | RM40090            | 2.5" Front coil spacer               |
| 2 | RM40110            | 1.75" Rear coil spacer               |
| 2 | 90-RM40520         | 2" Front bump stops                  |
| 2 | HW1060             | Front bump stop mounting hardware    |
| 1 | RE1478             | Front alignment washers              |
| 2 | 86-RM22016         | 2" Rear bump stops                   |
| 1 | HWC10319           | Rear bump stop hardware pack         |
| 1 | 86-RM24053         | Rear track bar bracket               |
| 1 | HWC15018           | Rear track bar bracket hardware pack |
| 1 | 35-RM31023         | Rear Track Bar Bracket spacer        |
| 1 | RE1158             | Extended Rear Sway Bar End Link Kit  |
| 2 | RXJ713             | Rubicon Mono-tube Front Shock        |
| 2 | RXJ714             | Rubicon Mono-tube Rear Shock         |

### **REQUIRED TOOLS:**

Basic mechanics' hand tools  
Vehicle Hoist  
5/16" drill bit

Jack Stands  
Floor Jacks

### **Front Installation:**

1. Prepare for the front installation by removing the following items from the front of the vehicle: Tires, Shocks, Sway bar links (Front and rear), Brake line bracket from the frame only, and track bar (axle end only).
2. With the items removed, lower the front axle assembly and remove the front coil springs.

**NOTE: Be careful not to overextend the front drive shaft into the exhaust or skid plate.**

3. Mark the center of the lower spring bucket and drill to 5/16". Pre-tap the hole using the supplied 3/8" self tapping bolt, HW1060 x 2 from the front bump stop kit. Do not install the bump stop at this time
4. Slide the new front coil spring spacer, RM40090 on the upper tower with the lip facing down. The spacer can be installed either above or below the factory rubber isolator. **(photo 1)**
5. Reinstall the coil spring up into the vehicle's upper spring tower while holding the bump stop spacer, 90-RM42520 inside the coil. Place into the lower coil bucket and rotate the coil into position.
6. Install the 3/8" self tapping bolt thru the bump stop and into the axle bracket. **(photo 2)**
7. Raise the axle into place and reinstall the factory shocks using the front shock extensions, RE2003 at the axle mounting point or install the new front shocks, RXT2421B or RXJ713 using the supplied hardware.
8. Reinstall the factory rear sway bar links into the front mounts, track bar, and re-attach the brake line bracket to the frame.



**(Photo #1)**



**(Photo #2)**

## **Rear Installation:**

1. Prepare for the rear installation by removing the following items from the rear of the vehicle: Tires, shocks, brake line bracket from the frame only, and track bar (frame end only).
2. With the items removed, lower the rear axle assembly and remove the coil springs.
3. Install the lower bump stop pads, 86-RM22016 on the axle housing with the supplied hardware.
4. Place the new coil spring spacer, RM40110 and factory coil isolator on top of the stock coil. Raise into the upper coil mount and over the lower axle mount.  
**(photo 3)**
5. Install supplied sway bar links, RE1158 to the outside of the sway bar and mounting tab on the axle.
6. Install rear upper track bar bracket, 86-RM24053 using the supplied hardware and spacer, 35-RM31023. **(photo 4)**
7. Install the previously removed rear sway bar end links on the front of the vehicle in the factory link location.
8. Raise the axle into place and reinstall the factory shocks using the rear shock extensions, RE2004 at the frame mounting point or install the new rear shocks, RXT2420B or RXJ714 using the supplied hardware.
9. Reinstall the factory track bar, and re-attach the brake line bracket to the frame.



**(Photo #3)**



**(Photo #4)**

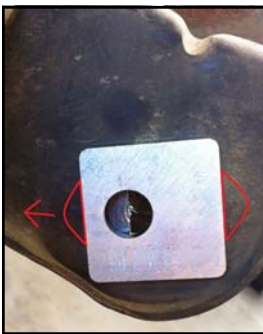
## **Installation review:**

1. Torque all the bolts to factory specifications. Be sure to double check your work.
2. Test drive and note the location of the steering wheel.
3. Adjust the drag link to center the steering wheel if necessary.
4. Align the vehicle as soon as possible. Set to minimum factory caster angle (3-4.5 degrees positive) and factory toe-in specifications.
5. Supplied Alignment plate kit is provided, as an aid to your alignment technician, if needed to achieve proper caster adjustment.

**NOTE: The Arrow is front of vehicle. The outlines are the location tabs in the factory bracket. Material must be removed from factory bracket to get a + or - caster change.**

6. Recheck all bolts after 50 miles and again after every off road excursion.

**(Photo #5)**



1.5 degree less  
(negative) caster

**(Photo #6)**



1.5 degree more  
(positive) caster

**(Photo #7)**



0 degree change from  
stock. Use like this to  
weld onto bracket as a  
repair to a worn out hole

## **Application information:**

- This kit is designed for the use of **35"** diameter tires or smaller. If **35"** tires are to be installed, it is recommended to use **35" x12.50"** tires on an **8"-9"** wide wheel with an offset of **0 to 12mm+**.
- If **33"** tires or smaller are to be installed, the installation of the bump stops can be omitted to allow for more compression travel.



## 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.**