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INSTALLATION INSTRUCTIONS FOR: JL42E JL 2 DOOR & 4 DOOR 2.0" SPACER KIT

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.

NOTE: Caster specifications vary between the Sport, Sahara, and Rubicon Jeep JL Models. It may be necessary to install an alignment cam kit to achieve proper alignment specifications.

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 2018+ Jeep Wrangler JL 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.

JL42E Spacer Kit (w/ Shock Extensions):

1 JL7134 Spacer Kit:

2	90-44165	JL/JT Front 2.0 Lift Spacer
2	86-RM31143	2.0" Rear coil spacer
2	90-1216	Load Washer: 1.50" O.D. X .532" I.D.
2	94-5983	12mm-1.75 Threaded washer: Rear coil spacer
1	HWC15061	Hardware pack: Rear coil spacer
2		12mm-1.75 X 120mm hex bolt gr. 10.9
2		12mm Split-Lock Washer
2		12mm Flat washer
2	90-RM42520	2" Front bump stop spacer
1	HWC15057	Hardware pack: Front bump stops
2		3/8"-16 X 2 1/2" hex bolt gr. 8
2		3/8"-16 Stover nut
4		3/8" Hardened flat washer
2	86-RM24335	2" Rear bump stop pad
1	90-6577	Hardware pack: rear bump stops
4		3/8"-16 X 1" hex bolt gr. 8
4		3/8"-16 Stover nut
8		3/8" Hardened flat washer
4	86-RM24338	Sway bar spacer
1	90-6827	Hardware pack:
4		10mm-1.5 X 40mm hex bolt gr. 10.9
4		10mm Hardened flat washer
1	HERNON 427	Red high strength thread locking compound
4	10999	11" Zip tie black

1 RE2008 Front Shock Extension Kit:

2	86-RM24329	Front shock extension
2	90-2650	Sleeve
1	HWC15056	Hardware pack: front shock extension
2		1/2"-13 X 3 1/2" hex bolt gr. 8
2		1/2"-13 Stover nut
4		1/2" Hardened flat washer
1	90-6299	Hardware pack: front shock extension
2		5/16"-18 X 1" hex bolt gr. 8
2		5/16"-18 Stover nut
4		5/16" Hardened flat washer

1 RE2009 Rear Shock Extension Kit:

2	86-RM24330	Rear shock extension
2	90-2650	Sleeve
1	HWC15056	Hardware pack: rear shock extension
2		1/2"-13 X 3 1/2" hex bolt gr. 8
2		1/2"-13 Stover nut
4		1/2" Hardened flat washer
1	90-6666	Hardware pack: rear shock extension
2		1/2"-13 X 1 1/4" hex bolt gr. 8
2		1/2"-13 Stover nut
4		1/2" Hardened flat washer

REQUIRED TOOLS:

Basic mechanics' hand tools
Vehicle Hoist

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 frame mounts (Front), links (Front), Brake line bracket from the lower control arm, track bar (axle end only), and front driveshaft (differential end only).
2. With the items removed, lower the front axle assembly and remove the front coil springs and coil isolators.

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

3. Slide the new coil spring spacer, 90-44165, on the upper tower with the lip facing down. Use the dowels on the factory isolator as locators for installation. **(Photos 1 & 2)**
4. 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.
5. Install the bump stop spacer, 90-RM42520, hardware through the axle bracket and secure using the 3/8" nut and washer. **(Photo 3)**
6. Raise the axle into place and reinstall the factory shocks using the front shock extensions, 86-RM24329 (from kit RE2008), at the axle mount and secure using factory bolt, 1/2" x 3 1/2" bolt, 5/16" X 1" bolt, sleeve, 90-2650, and hardware or install new shocks. **(Photo 4)**
7. Apply red thread locking compound to (4) 10mm X 40mm bolts. Install the (2 per side) sway bar spacers, 86-RM24338, under the sway bar frame mounts and secure using the 10mm X 40mm bolts and washers. **(Photo 5)**
8. Reinstall the factory front sway bar links into the front mounts, track bar, and re-attach the brake line bracket to the lower control arm, and front driveshaft to differential. Torque OE front driveshaft bolts per manufacturer's specifications.



(Photo #1)



(Photo #2)



(Photo #3)



(Photo #4)



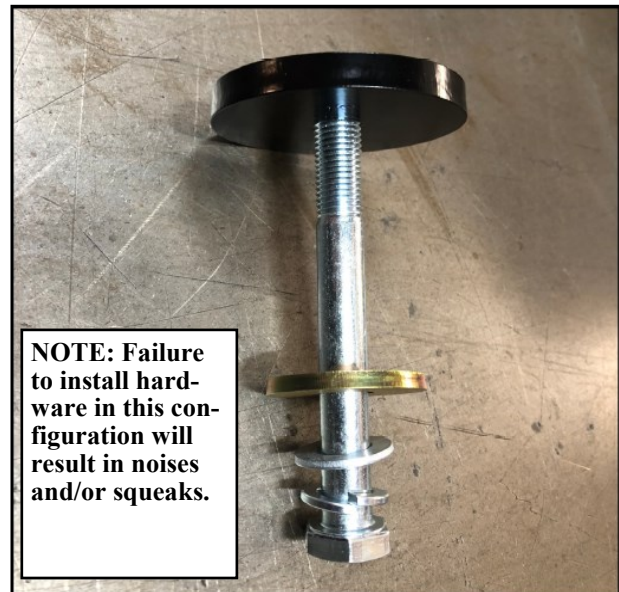
(Photo #5)

Rear Installation:

1. Prepare for the rear installation by removing the following items from the rear of the vehicle: Tires, Shocks (at axle), Sway bar links (Rear) at the axle and track bar (frame end only).
2. With the items removed, lower the rear axle assembly and remove the coil springs.
3. Install the rear bump stop pads, 86-RM24335, on the axle housing using the supplied 3/8" X 1" bolts and hardware. **(Photo 6)**
NOTE: The rear bump stop pads may be mounted in (2) configurations depending on tire application. Mounting the bump stop pads vertically will reduce rear axle travel, resulting in less tire contact in rear wheel well, to accommodate tires larger than 35".
4. Position the new rear coil spring spacer, 86-RM31143, against the frame and install the factory isolator over rear coil spring spacer and secure to frame using 12mm X 120mm bolt, washers, load washer, 90-1216 (under bolt head), and threaded washer (above frame), 94-5983. **(Photo 7 & 8)**
5. Reinstall the coil spring into position on the rear coil spacer, 86-RM31143, and factory isolator and raise the axle into place.
6. Reinstall the factory shocks using the rear shock extensions, 86-RM24330 (from kit RE2009), at the axle mounting point and secure using the factory lower shock bolt and supplied 1/2" X 3 1/2" bolt, 1/2" X 1 1/4" bolt, sleeve, 90-2650, and hardware or install new shocks. **(Photo 9)**
7. Mark and center punch for a new hole on the rear axle sway bar end link mounting tab. This hole will be located 1.00" directly above the centerline of the existing sway bar end link mounting hole. Drill a pilot hole then drill out until the hole is .50" OD.
8. Reinstall the OE sway bar end links to the new rear axle mounting hole using the previously removed OE hardware. Torque the OE hardware to manufacturers specifications.
9. Reinstall the track bar, torque the hardware to the OE specification.



(Photo #6)



(Photo #7)



(Photo #8)



(Photo #9)

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

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+**.
NOTE: The use of 37" tires is possible, but will require minor trimming.

JL42E Revisions

4.25.2024: Initial Release

7.23.2024: Address update



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.**