

INSTALLATION INSTRUCTIONS

88116

Rev B

RS6416B: Jeep Rubicon & Wrangler (TJ) 2.5" Front Coil Kit

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION

IMPORTANT NOTES!

A. To reduce rear driveline vibration on the Rubicon only, replace the rear driveshaft with a double-cardan type and install adjustable cam bolts on the rear suspension upper links. A driveshaft (Part No. 3394-0100) is available from: Powertrain Industries 7532 Anthony Avenue, Garden Grove, CA 92841 (714) 893-4583. Contact your local 4X4 shop for the adjustable cam bolts and more specific information.

B. If you install a double-cardan driveshaft, the installation of the skid plate/crossmember spacers and shift relocating bracket are not necessary. The spacers and bracket (if already installed) can be removed to achieve additional ground clearance.

C. Rancho shocks are recommended for this kit due to the increased spring rate and height. .

FRONT	REAR
RS999239	RS999241
RS7239	RS7241
RS55239	RS55241
RS5239	RS5241

D. Some of the service procedures require the use of special tools designed for specific procedures. The following tools and supplies are recommended for proper installation of this kit.

- Jeep Service Manual
- Spring Compressor
- Steering Linkage Puller C-3894-A
- Torque Wrench (250 FT-LB capacity)
- Hammer
- 1/2" Drive Ratchet and Sockets
- Combination Wrenches
- Hydraulic Floor Jack
- Heavy Duty Jack stands
- Wheel Chocks (Wooden Blocks)
- Safety Glasses**--Wear safety glasses at all times

E. IMPORTANT information for the end user is contained in the consumer information pack. If you are installing this system for someone else, display the information pack by hanging it from the rear view mirror.

PART LIST

P/N	Description	Qty
RS615B	Coil Spring	2
RS88116	Instruction	1

FRONT COIL SPRING REMOVAL

1) Park vehicle on a level surface and set the parking brake. Center front wheels and chock rear wheels.

2) Utilizing a straight edge, measure the horizontal distance between the outer edge of each front tire and the vehicle body (at top edge of fender-well).

Left Side: _____ Right Side: _____

3) Remove the cotter pin and nut from the ball stud end of the track bar at the frame rail bracket. Separate the ball stud from the bracket with the recommended puller tool. See figure 1.

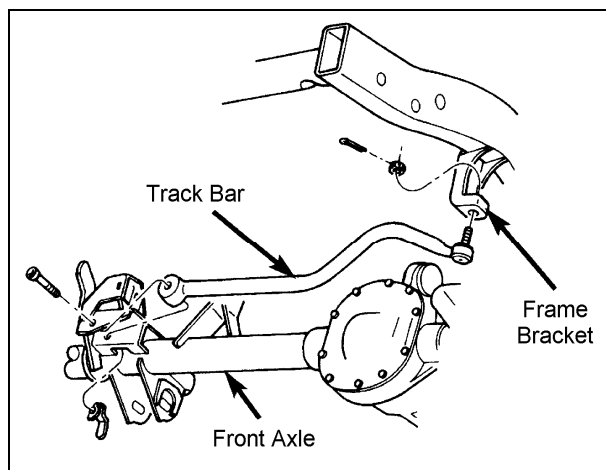


Figure 1

4) From inside the engine compartment, remove the upper stud nut, retainer and grommet from both front shock absorbers.

5) Raise the front of the vehicle and support the frame with jack stands. Remove the front wheels and set them aside.

6) Position a floor jack under the front axle for support. Disconnect both front sway bar end links. See Figure 2.



Figure 2

7) Lower axle and remove floor jack.

8) Remove the shock absorbers if you are replacing the existing shocks.

9) If applicable, remove the coil spring retainer bolt and retainer.

10) Disconnect the rubber bump stop and bump stop perch from inside of the coil to reduce the amount of spring compression needed.

11) Install a quality coil spring compressor like the one shown in figure 3. Compress the spring.

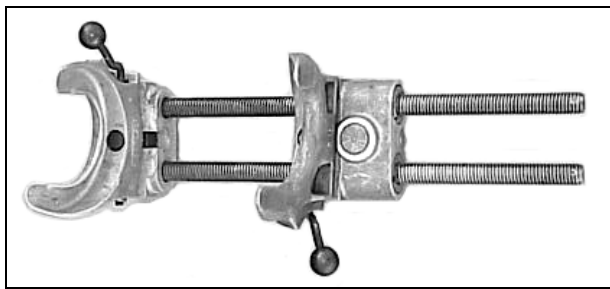


Figure 3

12) Push down on the axle and remove the coil spring. Carefully remove the spring compressor.

13) Repeat for other side.

FRONT COIL SPRING INSTALLATION

1) Compress the new front coil spring to 16 inches in length.

2) Place the rubber bump stop and perch inside the spring.

3) Install the spring into the upper and lower spring pockets. Carefully remove the spring compressor.

4) Rotate spring so pig tail end fits back in spring pocket. Attach spring retainer with self-tapping screw. Tighten the self-tapping screw to 16 ft. lbs.

5) Reinstall the rubber bump stop and perch.

6) Repeat steps 1 through 5 for the other side.

7) Support the front axle with a floor jack. Reattach the sway bar end links.

8) Attach the track bar end to the frame rail bracket. Do not tighten.

9) If applicable, attach shocks to axle brackets. Tighten bolts to 23 ft. lbs.

10) Install front wheels and lower vehicle to the ground. Tighten lug nuts to 80--110 ft. lbs.

11) Position shock stud through upper mounting hole. Install upper shock grommet, retainer and nut. Tighten to 17 ft. lbs. Repeat for other side.

12) Check tire to fender-well measurements. If necessary, remove and adjust the track bar end to duplicate the previous measurements. Refer back to step 2 under coil spring removal.

13) Tighten the ball stud nut to 65 ft. lbs. Install a new cotter pin. Tighten the jam nut.

FINAL CHECKS & ADJUSTMENTS

1) Turn the front wheels completely left then right. Verify adequate tire, wheel, and brake hose clearance. Inspect steering and suspension for tightness and proper operation.

2) Readjust headlamps. Have vehicle Aligned to manufacturer's specifications.

