

INSTALLATION INSTRUCTIONS

Form No.
8812

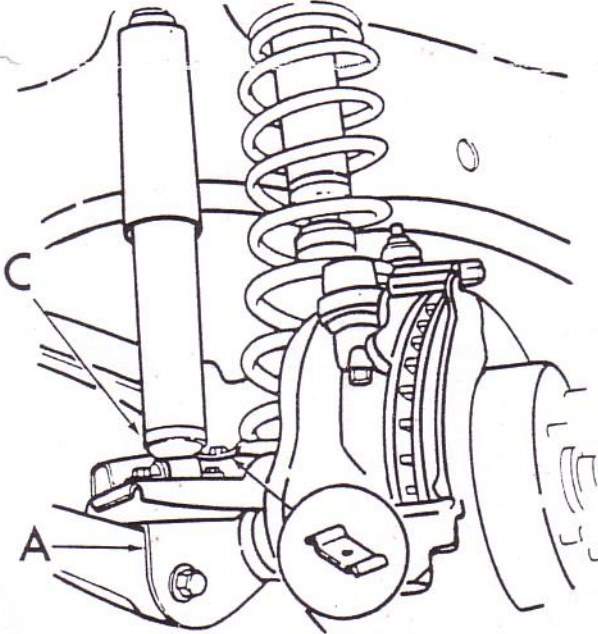
PLEASE READ ALL INSTRUCTIONS FROM START TO FINISH BEFORE YOU BEGIN THE INSTALLATION

GRAND CHEROKEE FRONT COIL KIT

Note: WE HIGHLY RECOMMEND OUR LOWER CONTROL ARM PART NO. 6634, TO RESTORE PROPER CASTER.

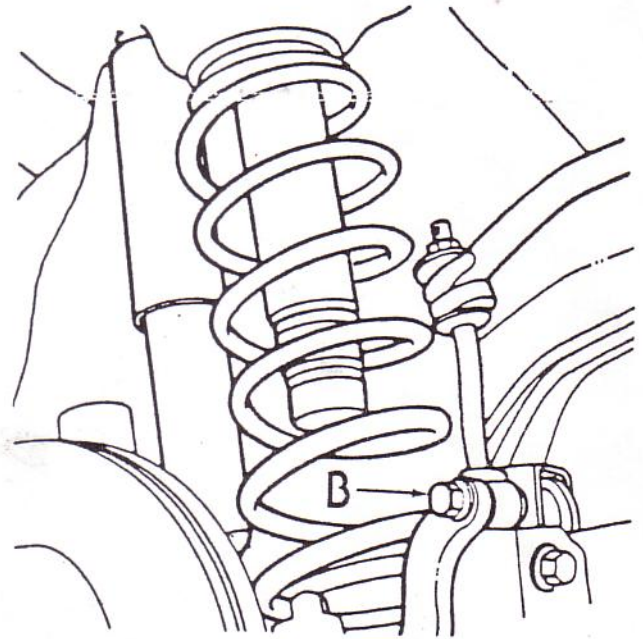
COIL SPRING REMOVAL

1. Raise the vehicle and support frame with jackstands.
2. Support the axle with a floorjack.
3. Remove the wheel and tire assembly.
4. Mark and disconnect the front prop shaft at the axle.
5. Disconnect the lower control arms at the axle (A).
6. Disconnect the stabilizer bar links (B) and the shock absorbers (C) at the axle.
7. Disconnect the track bar at the sill bracket.
8. Disconnect the center link at the pitman arm.
9. Lower the axle assembly, loosen the spring retainer and remove the spring.



COIL SPRING INSTALLATION

1. Install the replacement spring and tighten the retainer.
2. Raise the axle into position.
3. Connect the lower control arms to the axle (A).
4. Connect the center link to the pitman arm, the track bar to the sill bracket, and the stabilizer bar links (B) and shock absorbers (C) to the axle.
5. Connect the front prop shaft to the axle.
6. Install the wheel and tire assembly.
7. Remove the jackstands and lower the vehicle.
8. Have front end aligned within 50 Miles.



TORQUE SPECIFICATIONS

Component	Service Set-To Torque	Service Recheck Torque
Lower Control Arms-to-Axle	180 N-m (133 ft-lbs)	160-200 N-m (118-148 ft-lbs)
Front Shock Absorbers at Axle	19 N-m (14 ft-lbs)	16-22 N-m (12-16 ft-lbs)
Stabilizer Bar Links-to-Axle	95 N-m (70 ft-lbs)	80-110 N-m (59-81 ft-lbs)
U-Joint Straps at Front Axle	19 N-m (14 ft-lbs)	16-23 N-m (12-16 ft-lbs)
Center Link-to-Pitman Arms	47 N-m (35 ft-lbs)	34-61 N-m (25-45 ft-lbs)
Track Bar-to-Frame Rail Bracket	47 N-m (35 ft-lbs)	40-54 N-m (30-40 ft-lbs)

RANCHO
SUSPENSION®

INSTALLATION INSTRUCTIONS

8834

ECL-B

FOR JEEP ZJ, XJ, CHEROKEE/ WAGONEER**READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION**

PARTS LIST

P/N	DESCRIPTION	QTY
1330	Front Lower Link	2
457	Sleeves	4
8565	Bushing Kit	1
553	Urethane Bushings	8
8586	Spacer Kit	2
7852	Washers	4

LOWER CONTROL ARM REMOVAL

1. Raise and support the vehicle.
2. Disconnect the lower control arm at the axle (A) and the rear bracket (B).
3. Remove the lower control arm.

LOWER CONTROL ARM INSTALLATION

1. Install the new bushings and sleeves with grease into the control arms.
2. Position the lower control arm in the front and rear bracket (B). Install the bolts and nuts.

NOTE: When installing this lower control arm kit on some newer models it may be necessary to use the washers supplied in kit 8586. Check to see if there is gap between the bushings and the mounting pockets (see A & B in the Illustration on Instruction 8834). If there is, insert one (or more) of the washers from kit 8586 between the bushing and the mounting pocket at all four mounting points as required.

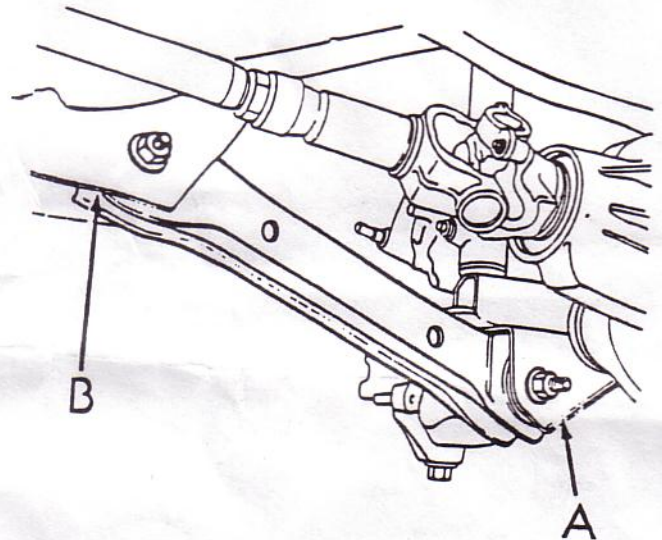
3. Tighten the mounting bolts with a torque of 85 ft/lbs (115 N*M).
4. Lower the vehicle.

FRONT WHEEL ALIGNMENT

The alignment should be checked and adjusted using an alignment rack. To ensure correct alignment, the following inspection is recommended.

CASTER

Caster should be checked using wheel alignment equipment. If caster is correct, adjustments can be made by adding or removing shims at the rear of the lower control arm.



FRONT WHEEL ALIGNMENT SPECIFICATIONS

	Set To	OK Range
Toe:		
Right Wheel.....	0	1/32"IN to 1/32"
Left Wheel	0	1/32"IN to 1/32"
Camber	0	-1/2° to +1/2°
Caster.....	7-1/2°	7° to 8°
*Turn Angle: (Outside Wheel) ..33° MAX		33° to 32°

*This angle may be reduced as to allow 0.5 inches minimum clearance from front swat bar bracket to tire at full turn.

RANCHO
SUSPENSION

INSTALLATION INSTRUCTIONS

88001

FOR 6414 GRAND CHEROKEE REAR COIL KIT

YOU MUST USE REAR LINK KIT 6658 WITH THESE COILS TO AVOID DRIVELINE VIBRATION

DO NOT USE A BODY LIFT KIT WITH THIS SUSPENSION SYSTEM

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION

PARTS LIST

<u>P/N</u>	<u>DESCRIPTION</u>	<u>QTY</u>
637	COIL SPRINGS	2

RANCHO 5194 OR 9194 SHOCKS ARE RECOMMENDED FOR THE REAR.

1. Raise the rear of the vehicle and support the frame with safety stands (jackstands).
2. Place a floor jack under the rear axle and raise the axle slightly (so the shocks aren't fully extended).
3. Remove the rear shocks and sway bar end links from where they attach to the axle.
4. Remove the coil spring retainer tabs where the coil spring is mounted on the axle.
5. Lower the floor jack until the springs are free from the upper mount and can be easily removed. Remove the coils.
6. Raise the axle with the floor jack so that the axle is supported by the floor jack and not the rear lower links. Remove the 2 lower links (lower control arms) completely.
7. Install the new springs. Locate the bottom of the springs in the alignment pocket and re-install the retainer tabs. Jack up the axle until the top of the spring is firmly seated on the top pocket. Make sure that the pigtail (small I.D.) is touching the center post of the pocket at the end of the coil.
8. Install the new Rear Links - **Rancho kit #6658**. Drive line vibration will result if the Link Kit is not installed. Torque the Link bolts to 130 ft.-lbs. (180 Nm).
9. Raise the rear axle high enough to install the shocks.
10. Install the shocks and the sway bar endlinks.
11. Remove from jackstands and lower the vehicle.



RANCHO
SUSPENSION

INSTALLATION INSTRUCTIONS

8876

Rev..A

THIS KIT MUST BE USED WITH RANCHO REAR COIL KIT (P/N 6414)

DO NOT USE THIS KIT WITHOUT THE RANCHO COIL KIT

DO NOT USE A BODY LIFT KIT WITH THIS SUSPENSION SYSTEM

READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION

PARTS LIST

P/N	DESCR	QTY
130056	Rear Lower Link	2
457	Sleeves	4
8565	Bushing Kit	1
553	Urethane Bushings	8

BUSHING INSTALLATION

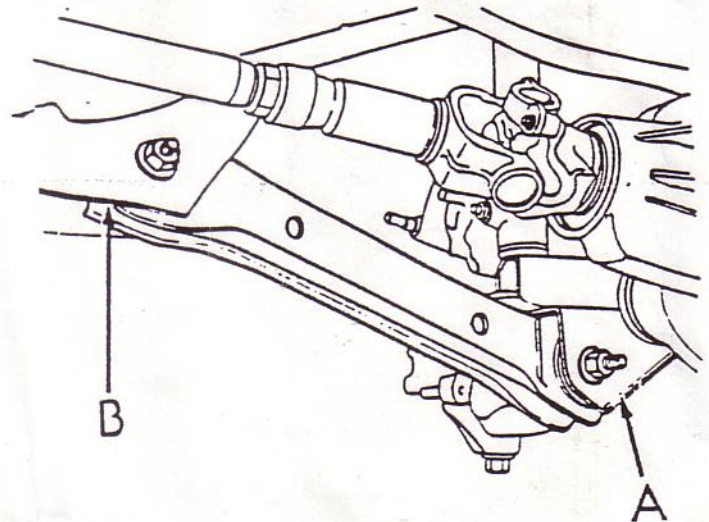
1. Lubricate the O.D. of two of the red urethane bushings with silicon or anti-seize compound.
2. Push the bushings into one of the barrels of the link - do not use a hammer. If necessary, use a vise to insert the bushings.
3. Lubricate one of the supplied sleeves, both inside and out, and the I.D. of the installed bushing.
4. Push the sleeve into the bushings using a vice if necessary.
5. Repeat steps 1 thru 4 for the three remaining barrels.
6. Lubricate the outside flanges of all the bushings with silicon or anti-seize compound.

IF YOU ARE INSTALLING SPRINGS AT THIS TIME, FOLLOW THE INSTRUCTIONS SUPPLIED WITH THE COIL KIT FOR INSTALLATION OF THE LOWER LINKS.

IF SPRINGS ARE NOT BEING INSTALLED AT THIS TIME, CONTINUE WITH THESE INSTRUCTIONS.

LOWER LINK REMOVAL AND INSTALLATION

1. Raise the rear of the vehicle. Place safety jacks (jackstands) under the frame.
2. Disconnect the lower link at the axle (A) and the rear bracket (B).
3. Remove the lower link.



4. Position the new lower link in the front and rear brackets. Install original bolts and nuts (use thread lock if original nuts are not lock nuts).

NOTE: It may be necessary to use a hydraulic jack under the rear end to move the axle for alignment

5. Tighten the mounting bolts to 85 ft.-lbs. (115 Nm)
6. Lower vehicle.