



INSTRUCTION SHEET FOR ROCK EQUIPMENT GRANITE KIT

Part #s 43000 or 43500

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Read all front and rear installation instructions carefully: steps differ. Be sure to measure height of vehicle at 4 wheel wells before starting, to check for vehicle lean or reference of vehicle height.

Parts List #43000

Sent	Customer Qty.	Part #	Description
<input type="checkbox"/>	<input type="checkbox"/>	8	40000 Conversion Sleeve
<input type="checkbox"/>	<input type="checkbox"/>	8	40012 Greasable Shackle Bolt
<input type="checkbox"/>	<input type="checkbox"/>	2	40100 Shackle Mount Set
<input type="checkbox"/>	<input type="checkbox"/>	4	40916 Greasable Spring Bolt
<input type="checkbox"/>	<input type="checkbox"/>	1	44000 Conversion U-bolt Plates Set
Options			
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

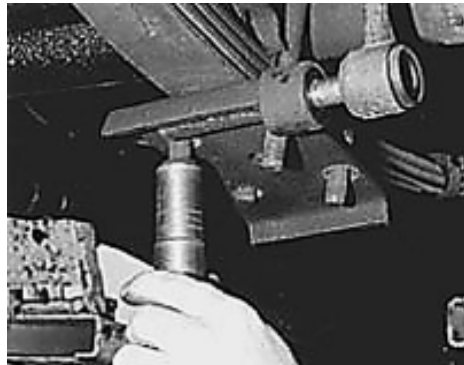
Parts List #43500

Sent	Customer Qty.	Part #	Description
<input type="checkbox"/>	<input type="checkbox"/>	8	40000 Conversion Sleeve
<input type="checkbox"/>	<input type="checkbox"/>	8	40012 Greasable Shackle Bolt
<input type="checkbox"/>	<input type="checkbox"/>	2	40100 Shackle Mount Set
<input type="checkbox"/>	<input type="checkbox"/>	4	40916 Greasable Spring Bolt
<input type="checkbox"/>	<input type="checkbox"/>	1	44000 Conversion U-bolt Plates Set
<input type="checkbox"/>	<input type="checkbox"/>	4	Old Man Emu Springs
<input type="checkbox"/>	<input type="checkbox"/>	4	Old Man Emu Bushing Kits
<input type="checkbox"/>	<input type="checkbox"/>	2	Old Man Emu Shocks Front
<input type="checkbox"/>	<input type="checkbox"/>	2	Old Man Emu Shocks Rear

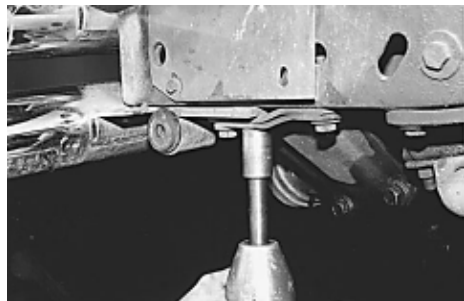
This order checked by _____



1 This is the complete Rock Equipment Granite Kit shown with optional shackles, U-bolts and sway bar disconnects used to convert Jeep CJ suspensions to ARB's popular Old Man Emu suspension kit designed for the YJ Wrangler. Check that all the parts on the parts list are present and match the application.



4 Remove the front U-bolt plate.



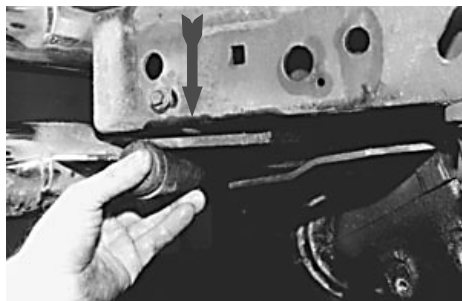
7 Remove the spring shackle mount bolts. Be careful not to break the bolts.



10 Install the Rock Equipment supplied spring mount using the previous rivet hole and the forward-most previous spring mount bolt. Replace the original bolt in the unused bolt hole in conjunction with a spacer. If you are using the original bumper, or an aftermarket bumper that goes under the front of the frame rail, you will have to modify the bumper by either notching it, attaching the bumper on the side of the frame rail, or attaching it to the Rock Equipment shackle hanger.

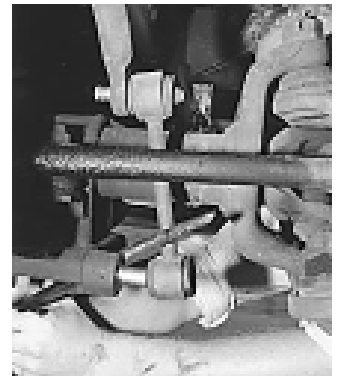


5 Remove the rear, or fixed end, of the front spring.

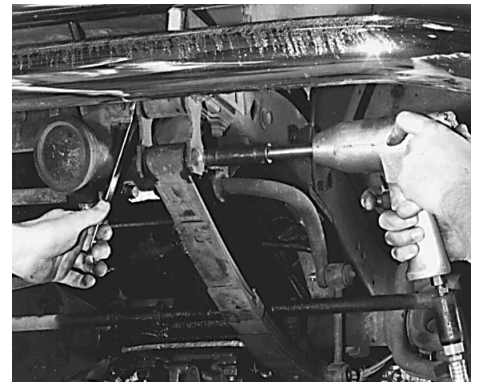


8 Remove the stock front shackle hangers, and remove the crossmember rivet on both sides (arrow).

2 Safely secure the vehicle on jackstands or a vehicle lift, then remove the wheels and tires. Support the axle assembly on jackstands. You may have to remove the front bumper. If a stock bumper is used, it must be removed for this swap. Finally, remove all four shocks from the vehicle.



3 Remove the front sway bar end links.



6 Remove the front, or shackle end, of the front spring.



9 Before mounting Old Man Emu springs to the vehicle, lubricate and install the new urethane bushings and steel sleeves into the spring eyes and spring mount.



11 Assemble the shackles and spring hanger using the supplied greasable bolts, being certain not to overtighten and cause binding. Install the assembly into the vehicle by inserting the supplied 9/16-inch greasable bolt into the rear (big eye-end of spring) to the fixed pivot location on the frame.

FRONT INSTALLATION Numbers 1 - 16



12 For increased caster, install optional caster shims on top of the leaf spring with the thick side toward the front of the vehicle. Now you can lower the axle assembly onto the springs, being sure to align the axle pad with the spring locating pin.



13 Install the Rock Equipment spring skid plates, then torque the U-bolts to 80 ft.-lbs.



14 Install the U-bolt skid plate.



15 Install the Old Man Emu shocks. On some vehicles, it may not be necessary to use the supplied shock mounts. **IMPORTANT:** Remember to check the brake line for appropriate length when the suspension is at full drop and compression with wheels turned. You do not want to overextend and damage or separate the brake line due to the increased suspension travel. **On some vehicles, it may not be necessary to use supplied shock mounts. Optional: Install Rock Equipment sway bar disconnects-male end up.**



16 Reinstall the lower sway bar end link to the Rock Equipment U-bolt skid plate. Another option is to install Rock Equipment sway bar disconnects. These go on with the male end up. Install the upper end of the sway bar disconnect to the sway bar. Reinstall the wheels and tires, then torque the lug nuts to specs. Torque all hardware to manufacturer's specifications. Remove the jack stands and proceed to the rear of the vehicle.



17 Set the rear of the vehicle on jack stands and remove the U-bolt spring plates and spring.



18 With the rear axle supported securely on jackstands, remove the upper shackle mounts from the frame. Be careful not to break off the bolts in the frame.



19 Install the new Rock Equipment shackle hanger using the existing holes in the frame. Install bushings in the spring and hanger, then install using the greasable bolts and sleeves.



20 Install the front of the rear spring using greasable bolts.



21 Lower the axle onto the spring, being sure to center the spring center bolt in the hole on the axle spring pad. Next, install the U-bolt skid plates.



22 Install the rear Old Man Emu shocks. **On some vehicles, it may not be necessary to use supplied shock mounts. Optional: Install Rock Equipment sway bar disconnects-male end up.**



23 Check the rear brake hose for clearance and install a spacer if needed.



24 This is what the rear assembly will look like when complete. With the suspension at full droop, check the brake line and emergency cable for adequate length.



25 Be sure to grease all 12 greasable bolts and greasable spring pads when finished. Torque all hardware to the manufacturer's specifications. Retorque all assembly items after 50 miles of use or after each off-road use. Be careful not to overtighten the hardware and cause binding.

REAR INSTALLATION

Numbers 17 - 25

NOTICE

- ◆ Be sure to retorque all bolts and lug nuts after driving at least 50 miles and check torque after off road use. Be sure not to overtighten shackle bolts, which will cause shackle not to pivot as designed.
- ◆ Be sure to check wheel and tire clearance before driving.
- ◆ This kit is designed to be used with *Old Man Emu Suspension Systems* only. It is not to be used with axle under spring conversions, shackle inversion kits or any other manufacturers suspension systems.
- ◆ Be sure to check driveshaft angles and alignment immediately after installing this kit.