



## JEEP Full-Size Cherokee, Wagoneer and Pickup INSTALLATION INSTRUCTIONS

### REQUIRED TOOL LIST:

- \* Metric and Standard wrenches and sockets
- \* Floor Jack
- \* Jack Stands
- \* Measuring Tape
- \* Torque Wrench



Before beginning the installation, read these instructions and the enclosed driver's WARNING NOTICE thoroughly and completely. Also affix the WARNING decal in passenger compartment in clear view of all occupants. If any of these items are missing from this instruction packet, do not proceed with installation, but call SKYJACKER® to obtain needed items.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is un level (side-to-side) from the factory, but usually not noticed until a lift kit has been installed which makes the difference more visible. Using a measuring tape, measure the front and rear (both sides) from the ground up to the center of the fender opening above the axle.

### **IMPORTANT NOTES:**

- Please refer to Parts List to insure that all parts and hardware are received prior to disassembly of vehicle. If any parts are found to be missing, contact your dealer as soon as possible.
- After installation occurs, a qualified alignment facility is required to align the vehicle to factory specs.
- After lift is installed, headlights must be adjusted to proper setting.

## Kit Box Breakdown:

### JP40:

| <u>ITEM#</u>  | <u>DESCRIPTION</u>           | <u>QTY</u> |
|---------------|------------------------------|------------|
| 916X314X1112U | 9/16 X 3 1/4 X 11 1/2 U-BOLT | 4          |
| 916X334X814U  | 9/16 X 3 3/4 X 8 1/4 U-BOLT  | 2          |
| 916X3X712U    | 9/16 X 3 X 7 1/2 U-BOLT      | 2          |
| RB35          | 3.5" REAR BLOCK              | 2          |
| HB-JP40       | HARDWARE BAG FOR JP40 KITS   | 1          |

Kit Box JP40S will not include rear lift blocks and the Rear U-Bolts will be Part# 916X3X712U

## Kit Box Breakdown:

### JP45:

| <u>ITEM#</u>  | <u>DESCRIPTION</u>               | <u>QTY</u> |
|---------------|----------------------------------|------------|
| 916X314X1112U | 9/16 X 3 1/4 X 11 1/2 U-BOLT     | 4          |
| 916X334X814U  | 9/16 X 3 3/4 X 8 1/4 U-BOLT      | 2          |
| 916X3X712U    | 9/16 X 3 X 7 1/2 U-BOLT          | 2          |
| RB35          | 3.5" REAR BLOCK                  | 2          |
| SBE506        | SWAY BAR END LINKS               | 1          |
| JB40          | TRACK BAR EXT BRACKET FRONT/REAR | 2          |
| HB-JP40       | HARDWARE BAG FOR JP40 KITS       | 1          |

Kit Box JP45S will not include rear lift blocks and the Rear U-Bolts will be Part# 916X3X712U

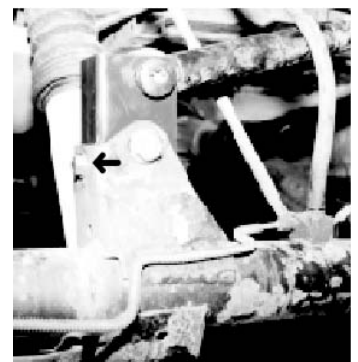
### Hardware Bag Breakdown:

| <u>ITEM#</u> | <u>DESCRIPTION</u>            | <u>QTY</u> |
|--------------|-------------------------------|------------|
| 916FTN       | 9/16-18 NYLON INSERT LOCKNUT  | 16         |
| SP2013       | FRONT JEEP P/U SPRING BUSHING | 4          |
| SP2014       | REAR JEEP P/U SPRING BUSHING  | 4          |
| SSJEEFPFU    | SPRING SLEEVE JEEP FRONT EYE  | 2          |
| SSJEEPRPU    | SPRG SLEEVE JEEP REAR EYE     | 2          |

## Front Installation:

1. Open the hardware bag and apply a thin coat of lithium-based grease around the polyurethane bushings and insert into each eye of the new front springs then apply a thin coat on the outside of bushings. Insert the metal sleeves into the springs eyes.
2. Raise front of vehicle and support securely with jack stands under the frame behind front springs and block the rear wheels. Remove the tires, shocks, u-bolts (Caution: once the u-bolts are removed, the front axle will be free to move, so support securely on a floor jack). If a drop pitman arm was purchased (needed with lifts of 3-4", #JA350), disconnect the tie rod from the original pitman arm, and install new arm (refer to instructions included with drop pitman arm).

**Note:** 1984-1991 Grand Waggoner Models are equipped with a Track Bar front and rear. Disconnect the track bar from the bracket on the axle. Place new rear track bar extension bracket into the stock bracket (on axle housing), with the slotted holes toward the top. Place the 1/2" x 1 1/2" spacer tube inside bracket (to prevent crushing, see white arrow) and install the 1/2" x 3" bolt and washer through original and new bracket and tighten securely with 1/2" lock nut. Insert track bar into new bracket, and install using original bolt and nut (do NOT tighten yet). Drill a 3/8" hole and install the new 3/8" x 1" bolt (see black arrow), washer and nut through side of new and original track bar bracket. Tighten all the track bar bolts and nuts at this time.



3. Unbolt each end of the original front leaf springs and remove both springs from vehicle. If new shackle bushings were purchased, grease and install them at this time. Install the new springs with the long end toward the front bumper. (**NOTE:** It is important to **NOT** tighten the spring and shackle bolts at this time. If SOFTRIDE® springs are tightened, with no load being applied on the springs, a false lift and stiff ride will result. These bolts will be tightened later once the vehicle is on the ground.)
4. While still supporting the front axle with the floor jack, lower axle down to the leaf springs. Be sure the tie bolt heads align and fit into the holes in the axle housing. Install the new u-bolts included and tighten them to 90 ft.lbs. If installing on a Grand Cherokee, install new sway bar extended links at this time.
5. Install new shocks and tires then lower vehicle down to the ground. Stand on the front bumper and bounce vehicle vigorously to help relieve any friction or binding. Now tighten the shackle bolts to 30 ft.lbs. and tighten the spring eye bolts to 50 ft.lbs.

## **REAR INSTALLATION:**

6. Place a floor jack under rear axle and raise vehicle. Place jack stands under the frame to support vehicle and remove the rear tires and shock absorbers. If installing on a Grand Cherokee, install new track bar bracket same as front.
7. Remove the axle U-bolts and lower axle down a few inches. Care should be take because when U-bolts are removed, axle can move freely.
8. **BLOCK INSTALLATION:** Place new block (tallest end toward rear bumper) between rear spring and axle housing. Raise axle up being sure that block pins are aligned in axle housing housing and that spring bolt is aligned in block. Install and torque new rear u-bolts evenly to 80 ft.lbs. Install rear shock absorbers, tires, remove jack stands and lower vehicle down. Rear installation is complete, so skip to Final Notes and Troubleshooting.
9. **NEW SPRING INSTALLATION:** Remove the original springs from vehicle. Install new springs with thick end of bottom wedge shims toward the rear bumper (which is also the long end of spring toward the rear bumper). Do not fully tighten spring eye bolts at this time.
10. Raise the rear axle back up, aligning spring pins into axle housing. Install and torque new u-bolts evenly to 80 ft.lbs. Install rear shock absorbers, tires, remove jack stands and lower vehicle down. Now tighten the new rear springs's shackle bolts to 30 ft.lbs. and the spring eye bolts to 50 ft.lbs. Rear installation is complete, so skip to Final Notes and Troubleshooting.

## **TROUBLE SHOOTING**

Upon completion of installing the entire lift (front and rear) if the vehicle appears to sit unlevel go to step 1 and record the AFTER measurements to verify the amount of lift obtained at each point. If the vehicle does sit unlevel and it did not in sit unlevel in step 1, the following can be checked:

1. Be sure all of the polyurethane bushings were greased well so that they will not restrict the spring's movement.
2. Check the condition of the shackle bushings in the frame (if not replaced with new ones) to be sure they are not worn, and if so, replace them with new polyurethane bushings.
3. Check the body bushings between the frame and the body to be sure they are not showing wear. If so, SKYJACKER® offers replacement polyurethane kits.
4. In order to be sure that the bushings are not restricting the spring from being at the correct ride height, loosen (do not remove) the spring eye bolts. Then stand on the bumpers and bounce the vehicle up and down vigorously to free up the bushings and then retighten spring eye bolts.

**SEAT BELTS SAVE LIVES. PLEASE WEAR YOUR SEAT BELT.**