

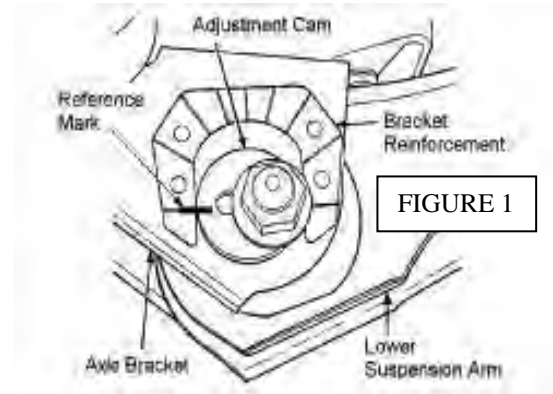
INSTRUCTION SHEET

#30741 4" ECONOMY LIFT KIT – JEEP TJ

Warrior recommends this system be installed by a certified technician. In addition to these instructions, professional knowledge of disassemble/reassembly procedures as well as post installation checks must be known. Attempts to install this system without this knowledge and expertise may jeopardize the integrity and/or operating safety of the vehicle.

Please read instructions before beginning installation. Check the kit hardware against the parts layout and list found on the last page of these instructions. Be sure you have all needed parts and know where they go.

With the installation of all lift kits and larger tires it is important to check the condition of your steering stabilizer. If the stabilizer is worn or is leaking it should be replaced. Steering stabilizers are designed to restrain "bump steering" and front end vibration, giving added life to tires, ball joints, and other steering components. A multiple stabilizer kit is recommended for vehicles equipped with a winch or larger tires



PRODUCT USE INFORMATION

1. As a general rule, the taller a vehicle is, the easier it will roll. Offset, as much as possible, what is lost in rollover resistance by increasing tire track width. In other words, go "wide" as you go "tall". Many sportsmen remove their mud tires after hunting season and install ones more appropriate for street driving; always use as wide a tire and wheel combination as possible to enhance vehicle stability.
2. We strongly recommend, because of rollover possibility, that the vehicle be equipped with a functional roll-bar and cage system. Seat belts and shoulder harnesses should be worn at all times. Avoid situations where a side rollover may occur
3. Generally, braking performance and capability are decreased when significantly larger/heavier tires and wheels are used. Take this into consideration while driving.
4. Do not add, alter, or fabricate any factory or after-market parts to increase vehicle height over the intended height of the Warrior product purchased. Mixing component brands is not recommended.
5. Warrior makes no claims regarding lifting devices and excludes any and all implied claims. We will not be responsible for any product that is altered.
6. The required installation time for this system is approximately 8 hours.
7. This suspension system was developed using a 33 x 12.50R – 15 tire, on a 8" wheel. Before installing other combinations, please consult your local tire and wheel specialist.
8. The following tools and supplies are recommended for proper installation of this kit.

<ol style="list-style-type: none"> a. Spring Compressor c. Silicone Spray e. Drill Assortment (1/8" to 1/2") g. Hammer i. Combination Wrenches k. Torx Key Socket m. File o. Hydraulic Floor Jacks q. Wheel Chocks (Wooden Blocks) s. Safety Glasses – Wear safety glasses at all times 	<ol style="list-style-type: none"> b. Pitman Arm Puller d. Drill Motor f. Torque Wrench (250 ft lbs. Capacity) h. 1/2" Drive Ratchet and Sockets j. Allen Wrenches l. Hacksaw n. Large "C" Clamps and/or Bench Vise p. Heavy Duty Jack Stands r. Molybdenum Grease or Anti Seize Compound
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If question exist we will be happy to answer any questions concerning the design, function, and correct use of our products.

INSTRUCTION SHEET

STANDARD BOLT TORQUE SPECIFICATIONS						
INCH SYSTEM			METRIC SYSTEM			
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 9.8	Class 10.9	Class 12.9
5/16	15 Ft – Lbs	20 Ft – Lbs	M 6	5 Ft – Lbs	9 Ft – Lbs	12 Ft – Lbs
3/8	30 Ft – Lbs	35 Ft – Lbs	M 8	18 Ft – Lbs	23 Ft – Lbs	27 Ft – Lbs
7/16	45 Ft – Lbs	60 Ft – Lbs	M10	32 Ft – Lbs	45 Ft – Lbs	50 Ft – Lbs
½	65 Ft – Lbs	90 Ft – Lbs	M12	55 Ft – Lbs	75 Ft – Lbs	90 Ft – Lbs
9/16	95 Ft – Lbs	130 Ft – Lbs	M14	85 Ft – Lbs	120 Ft – Lbs	145 Ft – Lbs
5/8	135 Ft – Lbs	175 Ft – Lbs	M16	130 Ft – Lbs	165 Ft – Lbs	210 Ft – Lbs
¾	185 Ft – Lbs	280 Ft – Lbs	M18	170 Ft – Lbs	240 Ft – Lbs	290 Ft – Lbs

NOTICE TO DEALER AND VEHICLE OWNER

Any vehicle equipped with any Warrior product should have a “Warning to Driver” decal installed on the inside of the windshield or on the vehicle’s dash. The decal should act as a constant reminder for whoever is operating the vehicle of its unique handling characteristics.

INSTALLING DEALER - it is your responsibility to install the warning decal and forward these installation instructions on to the vehicle owner for review. These instructions should be kept in the vehicle for its service

INSTALLATION INSTRUCTIONS

1. The front-end components are installed first.
 2. Place the vehicle on a level surface. Set the parking brake. Center front wheels and chock rear wheels. From inside the engine compartment, remove the upper stud nut, retainer and grommet from both of the front shocks Jack up the vehicle and place jack stands on the frame rail behind the lower control arm mount on the frame. Installation is done one end at a time.
 3. Remove the front tires and wheels.
 4. Place a floor jack underneath the axle for support and complete the removal of the front shock absorbers (**DO NOT REUSE THE ORIGINAL SHOCK ABSORBERS**).
 5. Remove the track rod from the axle housing and secure out of the way. Save the bolt and flag nut they will be reused in a later step. Remove both of the front sway bar end links.
 6. Remove the brake calipers and secure out of the way.
 7. Mark the position of the lower control arm cam bolt and axle brackets for installation reference. (**See Figure #1**) If equipped with ABS brakes, Remove the sensor wires and clamps for the inside of the lower arms and save clamps for re-use.
 8. Remove the coil spring clip located on the bottom coil seat on both sides of the vehicle. Lower the axle and remove the coil spring. A coil spring or strut compressor may be needed to remove the stock coil spring.
 9. Install the coil spring. **A coil spring or strut compressor will be needed for the new coil spring installation.** Compress the new coil spring to 16” in length. Install the new spring into the upper and lower spring pockets and carefully remove the compressor. Make sure the coil is seated properly in the coil seat by rotating the spring so the pig tail end fits in the spring pocket. Install the coil spring clamp and torque the spring clip bolt to 16ft.-lbs.
 10. Repeat steps on other side.
 11. Assemble the boots on the front shock absorbers, part #60506 and install in the factory lower mounts. Install the upper stud bushings and tighten the upper mounting point. Tighten the bar pin on the bottom of the shock with the stock hardware. Repeat this on the opposite side of the vehicle. Install the tires, wheels and lug nuts. Lower the vehicle to the ground.
 12. Align the reference marks on the adjustment cams and lower arm axle brackets and tighten to 85 ft. lbs.
- Note:** Longer brake lines are not required in the front with this kit unless the sway bar is disconnected. If disconnects are used, longer brake lines are required. Install tires and wheels.
13. Chock the front wheels. Jack up the **rear of the vehicle** and remove the tires and wheels. Place jack stands on the frame rail to support the vehicle. Place a floor jack under the differential. Remove the stock shock absorbers and sway bar links. Retain the factory shock hardware it will be reused.
 14. On the rear of the vehicle unbolt the track rod from the axle and secure out of the way.
 15. Carefully lower the axle with the floor jack and remove the coil springs. **NOTE: It may be necessary to use a coil spring or strut compressor to remove the stock coil springs.** Be careful not to overextend the vent tube on the axle. It may be necessary to disconnect the hose during installation and reroute the hose after installation.
 16. Install the new Warrior coil springs making sure that the rubber damper is positioned in the upper mount. It will be necessary to use a coil spring or strut compressor to install the new coil springs. Jack up the axle to compress the coil spring and to align the track rod with the new mounting point and install the stock mounting hardware.
 17. Assemble shock # 60507 with the shock bushings and sleeves in the shock bag on the larger barrel end. Install the shocks on the vehicle with the factory hardware.

INSTRUCTION SHEET

18. Reinstall the wheels, tires. Lower the vehicle to the ground and tighten the lug nuts to the factory torque specifications (80-110 ft-lbs.)
19. Tighten lower arm pivot bolts to 130 ft. lbs and the track bar mounting bolts to 74 ft. lbs.
20. A brake line bracket is supplied with this kit for the rear of the vehicle. Remove the brake line at the frame mount. Do not remove the rubber line from the steel line. This will cause the brakes not to function properly unless the lines are bled. Mount the bracket to the factory location with the supplied hardware and tighten. Place the factory line at the other end of the bracket in the slotted hole.
21. **To** install the transfer case, place the transmission in neutral and place a floor jack under the transmission mount skid plate to support it.
22. Slightly loosen the bolts on the transfer case skid plate on both sides to allow for some movement. Do not remove the bolts.
23. Proceed to other side. **NOTE:** *Do not attempt to take out the bolts on both sides simultaneously. Installation is done one side at a time.* Remove the three bolts holding the transfer case skid plate to the frame rail.
24. Using the floor jack, slightly lower the skid plate and insert the six transfer case spacers.
25. Using the bolts and conical washers supplied with the kit slightly tighten the bolts. Do not fully tighten to allow for some movement for the opposite side. Conical end of the washer must fit over the mounting hole in the cross-member.
26. After installing both sides, tighten bolts to 45ft lbs.
27. Center the steering wheel and mark the position of the original pitman arm. Remove the nut and washer from the steering gear box.
28. Remove the pitman arm from the steering gear with a pitman arm puller.
29. Align and install new pitman arm on the steering gear shaft. Install the washer and nut. Tighten to 185 ft. lbs.
30. Install the drag link ball stud to the pitman arm. Install the nut and tighten to 60 ft lbs. Install a new cotter pin.

POST INSTALLATION INSTRUCTIONS

1. Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering gear for interference and proper working order. Test brake system.
2. Readjust headlamps. Have the vehicle aligned to the following specifications:

Adjustment	Preferred	Range
Caster	7°	± 1°
Camber	- 0.25°	± .63°
Toe In (each wheel)	0.15°	± .15°
Thrust Angle	0°	± .15°

3. Perform steering sweep. Check to ensure brake hoses have sufficient slack and will not contact rotating, mobile, or fixed members, adjust lines/brackets to eliminate interference and maintain proper working order. Failure to perform inspections may result in component failure.
4. Re torque all fasteners after 500 miles. Visually inspect components and re torque fasteners during routine vehicle service.

MAINTENANCE INFORMATION

It is the ultimate buyers responsibility to have all bolts/nuts checked for tightness after the first 100 miles and then every 1000 miles. Wheel alignment, steering system, suspension and driveline systems must be inspected by a qualified professional mechanic at least every 3000 miles.

PARTS LIST

FRONT COIL SPRINGS	TRANSFER CASE SPACER KIT	FRONT SHOCK	Black Shock Boots (4)
800001	800029	60506 (2)	Boot Ties (4)
REAR COIL SPRINGS		REAR SHOCK	Installation Instructions TJ Shifter Linkage Brkt
800002		60507 (2)	