



2265 Crosswind Drive • Prescott, AZ 86301
(928) 636-3175

JXJ34 JEEP CHEROKEE 4" SUSPENSION LIFT

PRODUCT SAFETY LABEL

Supplied in kit is a Safety Warning label. Install label inside cab. Locate label in a highly visible location to all operators of this vehicle.

INSTALLATION INSTRUCTIONS

⚠ WARNING

Read and understand all instructions, warnings and safety precautions in these instructions and your owners manual before attempting to install these components.

⚠ WARNING

Performance Automotive Group does not recommend combined use of suspension lifts, body lifts or other lift devices. Combined use of lifts may result in unsafe and unexpected handling characteristics. (See previous warning). Also, many states now have laws restricting vehicle lift, bumper heights and other alterations. Consult local laws to determine if your proposed alterations (including installation of this kit) comply with your state laws.

PRODUCT SAFETY WARNING

Certain Performance Automotive Group products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Use of oversized tires, suspension lifts, body lifts and other suspension modifications may raise your vehicle's center of gravity resulting in an increased tendency for the vehicle to pitch and roll during sudden turns or abrupt maneuvers. Extreme care must be used to prevent loss of control or vehicle roll over. Failure to drive your modified vehicle safely may result in serious injury or death. Drive at reduced speeds to ensure your ability to maintain control of the vehicle under all driving conditions. Always wear seat belts.

⚠ CAUTION

Proper installation of Performance Automotive Group products requires knowledge of recommended procedures for disassembly/assembly of OE vehicles and components. Access to OE shop manuals and special tools are required. Attempting to install this kit without knowledge of these procedures may affect the safety of your vehicle and/or the performance of these components. Performance Automotive Group strongly recommends that this kit be installed by a certified mechanic with off-road experience.

PRE-INSTALLATION NOTES

⚠ WARNING

This kit is not recommended for trucks equipped with ABS brake systems or dual rear wheels. Use of this kit and/or larger tire and wheel combinations may reduce the effectiveness of ABS system and increase the amount of pedal pressure necessary to obtain a given braking distance.

1. Read carefully before proceeding with installation. This 4" lift kit is designed to be installed on '84-'86 Jeep Cherokee with standard "Command Trak" 5-speed transmissions. The original factory front drive shaft must be removed and replaced with new longer balanced drive shaft featuring 2 new universal joints, a new longer slip yoke and a new industrial flange on the transfer case end. The owners manual clearly states that the standard 5-speed transmission is not to be engaged and driven in 4-wheel drive on the highway or on smooth hard surfaces. This lift kit is not to be installed on vehicles with automatic "Select-Trak" transmissions. Contact your local dealer for new driveshaft.
2. Refer to OE service manual for proper disassembly/assembly procedures for OE components (like steering shaft, anything else). **Consult the following instructions for special tools necessary for this installation.**
3. Compare parts included in your system with the enclosed parts list. Placing hardware with components before you start may reduce installation time. Contact your Trail Master dealer if any parts are missing or appear to be different than those indicated on the parts list.

⚠ CAUTION

Performance Automotive Group recommends the use of Loctite® on all hardware, unless noted otherwise

⚠ WARNING

Always wear safety glasses when using power tools.

⚠ WARNING

Properly block and secure vehicle prior to installation.

TORQUE SPECIFICATIONS

<u>Lb.-ft.</u>	<u>Description</u>
10	1/4 FASTENERS
17	5/16 FASTENERS
30	3/8 FASTENERS
50	7/16-14 FASTENERS
55	7/16-20 FASTENERS
75	1/2-13 FASTENERS
65-80	1/2 U-BOLTS
110	9/16 FASTENERS
170	9/16 GRADE 8 FASTENERS
75-90	9/16 U-BOLTS
150	5/8 FASTENERS
85-110	5/8 U-BOLTS
270	3/4 FASTENERS

PARTS LIST

<u>Qty</u>	<u>Description</u>
2	5/16 Center Pin & Nuts (560400FCP)
1	Left Lower Bracket (XJLR-D)
1	Right Lower Bracket (XJLR-P)
1	Left Upper Bracket (XJUR-D)
1	Right Upper Bracket (XJUR-P)
1	Left Sway Bar Bracket (XJSB-DO)
1	Right Sway Bar Bracket (XJSB-PO)
2	Coil Spring (210)
2	2" Add A Leaf, Rear (R1537S)
2	1/2 x 4-1/2 NC Bolt (12412CHHC)
2	1/2 Locknut (N12CL)
8	3/8 x 1-1/4 BC Bolt (38114CHHC)
2	10mm x 90mm Bolt (10M090H150)
2	10mm Locknut (N10MSL150)
8	3/8 Locknut (N38CL)
18	3/8 Flat Washer (W38F)
2	2-1/4 Spacer (23)
1	10mm Square Nut (N10MQ150)
2	10mm x 80mm Bolt (10M080H150)
1	Rear Extension Bracket (SBLA)
1	1/4 x 1 Bolt (14100CHHC)
1	Frnt. Brake Bracket (T86FBB)
1	3/8 x 1 Bolt (38100CHHC)
2	5/16 Nut - Fine (N56FS)
2	5/16 Washer (W56F)
2	1/2 Washer (W12F)
4	2-1/2 Hen Clip (HC212)
1	Warning Label (WL002)

FRONT INSTALLATION INSTRUCTIONS

1. Position hydraulic floor jack under front axle on the passenger side next to the differential. Raise axle so the tires are approximately one foot (1') off the ground. Place adjustable jack stands under frame rails at a point 8" behind the lower strut arm frame mounting points. Lower axle until the vehicle rests on the jack stands and the shocks are partially extended. Leave the floor jack positioned under the axle.
2. Remove skid plate, if equipped, and discard. Remove both front tires and shocks. Remove front sway bar from frame and retain all parts. Remove tracking arm end at axle mounting point on passenger side and allow to drop free.
3. On each side, remove lower strut arm at frame and release arm to swing down from frame. Save all nuts and bolts. On each side, remove the lower strut arm adjustment bracket from inside the frame pocket by removing the 2 nuts on the rear of the pocket.
4. Locate left and right lower drop down brackets in the kit. These are the two large welded brackets. With the ears facing away from you, the bracket with the ear on the left side is the passenger side bracket. The bracket with the ear on the right side is the drivers side bracket. On each side slide the bracket into the lower frame pocket and install the two 3/8 x 1-1/4 bolts, washers and locknuts in the strut arm adjustment bracket holes. Position the 2-1/4 tube spacer bushing into the bracket. Install the 1/2 x 4-1/2 bolt and washer, from outside to the inside, through the original lower strut arm mounting hole. Tighten only the 3/8 bolts at this time.
5. Install the original lower strut arm adjustment brackets into the drop down brackets, just installed, using original nuts.
6. Remove upper strut arm ends from the frame brackets, on each side, and lower to the hole in the ear of the drop down bracket. Install the "Z" brackets provided in the kit, positioning the large hole at the bottom so that the 1/2 x 4-1/2 bolt passes through the large hole. Install the 1/2 washer and locknut, finger tighten (the "Z" brackets will only fit one way). Position the 2" tube spacer bushing, provided in the kit, into the upper strut arm pocket. Line up the top hole of the "Z" bracket on the outside of the pocket and insert the 10mm x 80mm bolt with washer through the bracket and spacer. Finger tighten into frame. Position the free end of the upper strut arm between the ear on the lower bracket and the "Z" bracket, line up the holes and install the 10mm x 90mm bolt and washer from the outside to the inside. Install washer and locknut; tighten all bolts and nuts in this step.
7. Install lower strut arm ends in the drop down brackets using the original bolts and nuts, then tighten.
8. Remove coil spring retaining clips at axle. Lower axle sufficiently to remove coil springs. Install new coils and original retaining clips. Be sure coils are seated properly. Raise axle slightly to compress springs.
9. Locate original tracking arm mounting hole on the passenger side of the axle. Measure 3/4" from the center of the original hole on the same horizontal line toward the drivers side of the bracket, mark and center punch. Using drill with 3/8" drill bit, drill a hole through the center punched front of the bracket only. Repeat the same 3/4" measurement on the back of the bracket and center punch. Insert the 3/8" drill bit through the newly drilled hole and drill through the center punched mark on the back of the bracket. Position the free end of the tracking arm between the newly drilled holes and insert the original bolt. Locate the opening between the rear of the tracking arm bracket and the front axle, approximately 1-1/2" below the coil spring. The opening faces the driver's side of the vehicle. Insert the square nut into the small opening, align with the original bolt and tighten. Suggestion: to position the square nut in the small opening, tape the nut to common screw driver using a loop of masking or duct tape.
10. Install new longer Trail Master shocks.
11. Attach front sway bar drop down brackets to the frame using the original bolts. Install the sway bar to the drop down brackets using the 3/8 x 1-1/4 bolts, washers and locknuts provided in the kit. Re-assemble the axle in original position.
12. Install the front wheels and lower vehicle to the ground.

REAR INSTALLATION INSTRUCTIONS

1. Place hydraulic floor jack under center of rear axle housing and raise vehicle until wheels are 8" to 10" off the ground. Position adjustable jack stands on each side of the frame rails just in front of the leaf springs and lower the floor jack until the weight of the vehicle rests on both jack stands. Both wheels must be off the ground. Remove both wheels. Leave hydraulic floor jack in position so shocks are partially extended and remove both rear shocks.
2. Locate brake line tee on the driver's side of the rear axle housing. Remove bolt and carefully separate tee from axle housing. Insert 2" tube spacer between tee and axle housing. Secure with 6mm x 80mm bolt and washer provided in the kit.
3. On vehicles equipped with brake equalizer, locate differential mounting bracket for brake equalizer, loosen top bolt and take bottom one out. Swing bracket up to extend and install extension bracket (flat bracket with hole in each end) to rear differential mounting bracket using 1/4 x 1 bolt, washer and locknut provided. Bolt opposite end of extension bracket to differential at original location using stock bolt.
4. Remove rear axle U-bolts on each side and lower axle away from springs. Remove center bolt from springs on both sides and remove lower leaf. Insert the add-a-leaf, provided in the kit, and replace bottom leaf. Tighten center bolt making sure leaves are straight with one another.
5. Raise axle to the springs. Secure axle to springs with original U-bolts. Ensure the sway bar bracket is attached to U-bolt top plate on both sides.
6. Install new shocks.
7. Install wheels and lower vehicle to the ground. SEE CAUTION!

⚠ CAUTION

Do not drive lifted vehicle with stock rims, without modifying or removing the rear sway bar. The ends of the sway bar must be cut off flush with the outside of the rubber mounting block located approximately 3" above the U-bolt top plate. Failure to do this will result in extensive damage to the interior side walls of the rear tires.

8. Supplied in kit is a Safety Warning label. Install label inside cab. Locate label in a highly visible location to

all operators of this vehicle. If label becomes lost or damaged, contact Trail Master at (928) 636-3175.

9. Check all fasteners for proper torque. Check to ensure there is adequate clearance between **all** rotating, mobile, fixed and heated members. Ensure there is adequate clearance between exhaust and brake lines, fuel lines, fuel tank, floor board and wiring harnesses. Check steering gear for interference and proper working order. Inspect brake lines for damage and adequate clearance. Test brake system.
10. Periodically, or as necessary, re-check and tighten the bolts on all the parts that have been installed. Drive shafts are now running at a steeper angle and will require service at increased intervals.

NOTE:

After the lift kit has been installed, it is necessary to align the front end. The recommended caster is positive $5^{\circ} \pm 1/2^{\circ}$. Camber and toe should be at factory specifications.

POST-INSTALLATION NOTES

⚠ CAUTION

1. Performance Automotive Group does not recommend a particular tire and wheel combination for use with its products and assumes no responsibility for customer choice of tires and wheels. Consult your owners manual for recommended tire sizes and warnings related to use of oversize tires and wheels. In general, larger tire and wheel combinations may increase stress and wear on steering components leading to increased maintenance and greater risk of component failure, including loss of steering control. Property damage or personal injury may result. Large tire and wheel combinations may also alter speedometer calibration, reduce braking effectiveness and alter vehicle center of gravity height (See product safety warnings). Check with an experienced off-road shop for the tire and wheel combinations that work best on your truck. Remember, **BIGGER** isn't necessarily better.

2. After installation of system it may be necessary to replace brake hoses to ensure there is adequate slack in hoses when suspension is at full extension. On front of vehicle a steering sweep should be performed to ensure brake hoses have sufficient slack and will not come in contact with any rotating, mobile or fixed members. Failure to perform check/replacement may result in component failure! Longer replacement hoses may be located through your local parts supplier.

3. Retorque all fasteners after 500 miles and every off-road use. Visually inspect components and retorque fasteners during routine vehicle service.

1. Performance Automotive Group's goal is to provide you with the best system possible for a reasonable cost. It must be noted that the components in your Performance Automotive Group system do not eliminate OE component weaknesses.
2. Perform headlight adjustment
3. Retain this and all information regarding your altered vehicle for future reference. Thank you for choosing Trail Master. For questions or suggestions, contact our Technical Assistance Department at (928) 636-3175.