



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

JP25 JEEP PICKUP CHEROKEE WAGONEER 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

1. Performance Automotive Group systems do not incorporate components to accommodate extended cab and/or two-piece drive shafts unless otherwise stated.
2. Post installation vehicles may experience driveline vibrations. Driveline angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened, shafts may need to be trued and U-joints may require frequent replacement. Performance Automotive Group systems are not recommended for vehicles with 13" or shorter drive shafts.
3. All replacement spring or add-a-leaf systems require compression stop installation or spring failure may occur. Not all Performance Automotive Group systems include compression stop extensions to maintain this criteria. Compression stop to axle dimension must be maintained or your Performance Automotive Group warranty may be voided.
4. 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.**
5. 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

Properly block and secure vehicle prior to installation.

⚠ WARNING

Always wear safety glasses when using power tools.

PARTS LIST

<u>Qty</u>	<u>Description</u>
2	Multi Leaf Spring
2	Rear Helper Leaf
2	2" Rear Block
2	3/8 Center Pin
2	3/8 Nut
1	3-1/2 x 9-1/2 U-bolt
3	3 x 7-1/2 U-bolt
4	3 x 9-1/2 U-bolt
1	Straight Brake Line Ext.
2	90° Brake Line Ext.
16	9/16 Nut
16	9/16 Washer
1	5/16 x 1 Bolt
1	5/16 Nut
1	5/16 Washer

FRONT INSTALLATION INSTRUCTIONS

1. Make sure underside of vehicle is clean.
2. Raise front of vehicle and place jackstands under frame.
3. Remove wheels and shock absorbers.
4. Remove U-bolts from axle.
5. Remove front springs.
6. Install 90° brake line extensions on frame below original brake line location and re-route brake lines through the hole in extension. Bleed brakes as required.
7. Install new multi leaf springs, replacing old U-bolts with new ones provided in kit.
8. Lower frame back down to install new longer shocks.

REAR INSTALLATION INSTRUCTIONS

1. Raise rear of vehicle and place jackstands under rear axle.

2. Remove wheels and shock absorbers.
3. Remove original brake line bracket from rear axle housing and install straight brake line extension using original differential cover bolt. Attach original brake line bracket to new brake line extension using 5/16 x 1 bolt, nut and washer provided.
4. Remove U-bolts from rear axle.

NOTE:

Springs are under tension and can release with considerable force. Clamps should be used when disassembling and assembling.

5. Remove overload spring and replace with new overload leaf spring provided in kit, using new center pins provided.

NOTE:

Most all vehicles have overload leaves. An overload leaf is typically the bottom leaf and is considerably thicker than the rest of the leaves. It should look similar to the new overload leaf provided in the kit. On vehicles not equipped with overload leaves, the new overload leaf should not exceed the length of leaves above it and should be longer than the leaves below it. The overload leaf is almost always the bottom leaf.

6. Install rear riser blocks between axle pad and springs. Blocks are marked with a "F" for front and a "R" for rear.
7. Lower body and install new U-bolts.
8. Install new shock absorbers.
9. Install wheels and lower vehicle.
10. 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.
11. 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.

NOTE:

All nuts and bolts should be checked periodically.

POST-INSTALLATION NOTES

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.

⚠ 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.