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**FORD F250 4WD
 2" SUSPENSION LIFT
 INSTALLATION INSTRUCTIONS
 KIT# F2502***

***TM RECOMMENDED SHOCK ABSORBERS:**

	<u>FRONT</u>	<u>REAR</u>
1980-1986	73460	72510
1987-1996	72450	72510

⚠ 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. 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.

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.

WARNING
 Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting the wheel and tire combination for your vehicle consider the additional stress you could be inducing on OE and related components. As you increase the size of wheel/tire combinations over stock, you also increase the possibility of OE and related component failure.

⚠ 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 driveshafts unless otherwise stated. Post installation the vehicle may experience driveline vibrations. Driveline angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened, shafts may need trued, and U-joints may require frequent replacement. Performance Automotive Group systems are not recommended for vehicles with 13 inch or shorter drive shafts.
2. Ride Height and vehicle attitude, ie; rake or tail drag may vary from vehicle to vehicle. Original equipment options and aftermarket accessories alter the vehicle's front sprung weight. The F2502 system is designed to accommodate the majority of Ford F250 vehicles sold. Setting of spring components is normal. Performance Automotive Group cautions you in regards to your choice of tire size and initial clearances. Settling of spring components may occur and slightly diminished clearances will be observed. Normal settling is not covered under your warranty. Vehicles subjected to long term over weight situations may experience an abnormal amount of spring component settling.
3. This system does not include components to accommodate vehicles equipped with ABS brakes.
4. Special literature or tools required: OE service manual for model/year of vehicle. Refer to OE manual for proper disassembly and reassembly procedures of OE, and related components. Additional tools unique to installation are mentioned in the following instructions.
5. Adhere to recommendations when replacement fasteners, retainers, and keepers are called out in OE manual. This system may not include all replacement fasteners recommended by the OE manual. Additional replacement fasteners should be obtained prior to installation of system.
6. Compare parts included in your system with the enclosed parts list at the end of these instructions. Placing hardware with components before you start may reduce installation time. Contact your Performance Automotive Group dealer if any parts are

missing or appear to be different than those indicated on the parts list.

7. Retain this and all information regarding your altered vehicle for future reference.

⚠ 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.

FRONT INSTALLATION INSTRUCTIONS

1. Block and secure vehicle. Disconnect sway bar from frame. Remove from vehicle.
2. Raise front of vehicle high enough to allow suspension to hang free. Block frame and secure vehicle. Remove front wheels and tires.
3. Lightly support axles. Remove shocks. Loosen U-bolts. Carefully remove pivot bolts from DRVR and PASS axle brackets. Allow axles to disengage from brackets.
4. Mark OE axle brackets DRVR & PASS for reference. Remove OE axle brackets. Install Trail Master axle brackets using OE fasteners. Note: OE stud plates may be difficult to re-install in master drop brackets. It may be necessary to use 1/2" x 1-1/2 bolts and hardware provided in the front holes of the DRVR axle bracket and the rear holes in the PASS side bracket. Install 1/2" bolts from inside bracket out.
5. Engage axles into drop brackets. Run-up OE fasteners, do not torque pivot bolts until vehicle is resting on ground.
6. Supporting axles, remove U-bolts retaining springs to axles. Carefully lower axle to acquire room to install Add-A-Leafs. **WARNING! DO NOT STRETCH, KINK, OR ALLOW BRAKE LINES/HOSES TO BE DAMAGED.**

7. Clamp spring packs using two good C-clamps. Remove OE center pins. Carefully relieve tension in springs. Install Add-A-Leafs using short component on bottom, with clips up, and longer Add-A-Leaf above. Retain leaf assembly using replacement center pin. Note: It may be necessary to remove OE spring clips if interference exists when installing the Add-A-Leaf assembly. Using 3" long spacer, 3/8" x 4" bolts & hardware, assemble spring clips on lower replacement leaf to retain pack assembly.
 8. Align center pins and holes in axles. Secure spring assemblies to axles using U-bolts, washers, and high nuts provided.
 9. Mount sway bar drop brackets to frame using OE fasteners. Position lower flanges on drop brackets forward of upper flanges. Re-mount sway bar to drop brackets using 3/8" x 1" bolts & hardware. Note: Slight forward or rearward adjustment of drop brackets and/or sway bar may be necessary to eliminate interferences.
 10. Install recommended Trail Master shock absorbers. Install wheels and tires. Lower vehicle. Jounce vehicle to normalize suspension. Torque axle pivot bolts to spec.
 11. Adjust cross link to center steering wheel. Perform a steering sweep to ensure brake hose is safely/properly located.
2. Set vehicle alignment within OE specifications. The size of rim and tire combination should be considered when making front end adjustments.
 3. Performance Automotive Group 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.
 4. Retain this and all information regarding your altered vehicle for future reference. Thank you for choosing Trail Master Suspension. For questions or suggestions, contact our Technical Assistance Department at (928) 636-3175.

POST-INSTALLATION NOTES

⚠ CAUTION

1. 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.

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

3. Maximum recommended tire size is 33" x 12.50".

1. Check all fasteners for proper torque. Check to ensure there is adequate clearance between all rota-

PARTS LIST

Qty Description

1	DRVR axle anchor bracket"
1	PASS side axle bracket
2	ADD-A-LEAF
2	ADD-A-LEAF with clips
1	DRVR sway bar drop bracket
1	PASS sway bar drop bracket
2	5/8" center pin
4	9/16" x 3" x8" U-bolt
8	9/16" flat washer
8	9/16" High nut
4	1/2" x 1-1/2" US bolt
8	1/2" flat washer
4	1/2" lock nut
2	7/16" nut
4	3/8" x 4" bolt
4	3/8" x 1" bolt
16	3/8" flat washer
8	3/8" lock nut
4	3/8" ID x 3" sleeve

TORQUE SPECIFICATIONS

5/16" FASTENERS.....	17 'LBS
3/8" FASTENERS.....	30 'LBS
7/16"-20 FASTENERS.....	55 'LBS
1/2"-13 FASTENERS.....	75 'LBS
9/16" FASTENERS.....	110 'LBS
9/16" Gr. 8 FASTENERS.....	170 'LBS
9/16" U-BOLTS.....	75-90 'LBS