



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

# FORD BRONCO 4" SUSPENSION LIFT INSTALLATION INSTRUCTIONS '66-'77 4WD w/o DISC BRAKES FB33

**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.

**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.

## PRE-INSTALLATION NOTES

1. Trail Master 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. Trail Master systems are not recommended for vehicles with 13 inch or shorter drive shafts.
2. All replacement spring or Add-A-Leaf systems require compression stop installation or spring failure may occur. Not all Trail Master Systems include compression stop extensions to maintain this criteria. Compression stop to axle dimensions must be maintained or your Trail Master warranty may be voided.
3. 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.
4. This system does not include components to accommodate vehicles equipped with ABS brakes.
5. 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.
6. 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.

7. 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.
8. Basic Tools & Equipment Required
  - a. Hydraulic Floor Jack, 2-adjustable Jack Stands, American Sockets & open end/box wrenches up to 7/8", vise grips or c-clamp. Additional tools are optional.
9. 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. Secure front and back side of rear wheels with block of wood or wheel chocks to prevent the vehicle from rolling. Position floor jack under front axle close to differential housing and raise vehicle until both wheels are off ground. Position adjustable jack stands on each side of the frame approx. 3" behind shackles and lower floor jack so weight of vehicle just rests on both stands. Make sure both wheels are off the ground and remove them from vehicle.
2. Remove both front shocks. Disconnect the flexible brake line hose from the caliper
3. Remove the outside bolt and clip at the top of both spring coils. Lower axle until coils are free from the top seat. Loosen the two bolts on the inside bottom of the spring plates and remove springs by twisting counter clockwise direction

4. Install new coils provided in the kit by turning them clockwise until they set in the bottom spring plate/pad. Secure the bottom of the coils by tightening the two bolts on both sides.
5. Using floor jack, raise axle until coils can be located in the top spring tower. Replace the bolt/clip on both sides. Attach brake lines to calipers and bleed brakes.
6. Install new longer shocks.
7. **NOTE:** If your vehicle has a front sway bar, remove it. Fabricate a 2" x 3" x 5" long piece of .125" wall tubing and drill two holes corresponding to the holes in the frame in the 2" wide top and two holes in the bottom. Use this piece as a drop down bracket from the frame rail. Attach the sway bar to the bottom of the bracket and tighten.
8. Install front wheels and lower vehicle to ground. Front end installation is complete.

## REAR END REMOVAL & INSTALLATION

1. Position hydraulic floor jack under center of rear axle housing and raise vehicle until wheels are off ground. Position jack stands on each side of the frame rails just in front of the leaf spring hangers and lower floor jack so weight of vehicle rests on both jack stands. Make sure both wheels are still off the ground and remove them from vehicle. Remove shock on passenger side only. Move the hydraulic floor jack under the passenger side axle housing and raise enough to contact the housing and support some of the weight.
2. Remove both U-bolts & lower the axle away from the Spring until there is working clearance and access to the bottom of the center bolt and leaves. Save the stock U-bolts/washer/nuts. Place a c-clamp or vise grip on the top of the main leaf and the outer end of the leaf just above the thick tapered overload leaf on the bottom. Clamp tightly. Remove center bolt from leaf pack. Remove overload leaf and replace it with the Add-A-Leaf provided in the kit. Insert the new 3/8" x 4-1/2" center bolt in the kit and tighten firmly. Remove the clamp.
3. Raise the axle with the floor jack until the bottom of the center bolt sets firmly in the hole on the axle pad/perch. Make sure the center bolt head is centered in

the right hole on the axle pad. Install the stock U-bolts with hardware and torque to approx. 180 foot pounds.

4. Repeat the same procedures in steps 1-3 on the drivers side.
5. Install new longer shocks.
6. Replace both rear wheels. Remove jack stands and lower vehicle to ground. Rear end installation is completed.

## 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 rotation, mobile, fixed, and heated members. Inspect brake lines for damage and adequate clearance/slack. 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. Test brake system for proper working order.
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.

## **PARTS LIST**

<b>Qty</b>	<b>Description</b>
------------	--------------------

2	3"-Front Coil Spring
2	2"-Rear Add-A-Leaf
2	3/8" x 4-1/4" Rear Spring Center Bolts
1	BTB/W - Hardware