#F1212 Installation Instructions
1997-2003 Ford F-150 4wd
2" Lift

Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

» Product Safety Warning

Certain Zone Suspension 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. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

» Technical Support

Live Chat provides instant communication with Zone tech support. Anyone can access live chat through a link on www.zoneoffroad.com .

www.zoneoffroad.com may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to ***tech@zoneoffroad.com*** detailing your issue for a quick response.

888.998.ZONE Call to speak directly with Zone tech support.

Difficulty Level

easy 1 2 (3) 4 5 difficult

Estimated installation: 1.5 hours

Special Tools Required

Torsion bar unloading tool

J36202 or equivalent

Tire/Wheel Fitment

33x12.5 w/ 4-1/2" backspace

» Pre-Installation Notes

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
7. Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.

Kit Contents

Qty	Part
2	Ford Torsion Keys (Red)
4	9/16" X 3-1/4" X 12-1/2" Round U-bolt
2	2" Lift blocks
8	9/16" High Nuts
8	9/16" Flat Washers

Important—measure before starting!

Measure from the center of the wheel up to the bottom edge of the wheel opening

LF_____ RF_____

LR_____ RR_____

Important—measure before starting!

Measure from the exposed length of the torsion bar adjusters before starting:

Drv_____ Pass_____

Caution: There is an extreme amount of energy stored in the torsion bars. Use extreme care with the proper tools to avoid serious injury or death.

Front Installation Instructions

1. Park vehicle on clean, flat, and level surface. Block the rear wheels for safety.
2. Measure the ride height of the vehicle and record.
3. Raise the front of the vehicle with a hydraulic jack. Support the frame rails with jackstands.
4. Measure the length of the torsion bar adjuster bolts (top of the adjuster bolt head to adjuster)
5. Remove the adjuster bolts, keep driver's and pass side bolts separate.
6. Use the torsion bar removal tool to remove the threaded adjuster assembly. Release the pressure from torsion bar with the unloading tool. ***Caution: There is an extreme amount of energy stored in the torsion bars. Use extreme care with the proper tools to avoid serious injury or death.***
7. Slide the torsion bars forward to allow the keys to be removed. It may be necessary to use an air hammer to get the bars to break free.
8. Apply a small amount of grease to the hex on each end of the torsion bar. Install the new torsion keys.
9. Install the torsion bar adjuster assembly with torsion bar tool.
10. Set the overall length of the exposed thread and bolt head to the original measurement. The minimum recommended exposed length is 3/4". This may need to be adjusted if heavy accessories are added to the front of the vehicle.
11. Lower the front end to the ground, bounce the front end to settle the suspension and roll the vehicle forward and back several feet to allow the vehicle to set at the final ride height.
12. Check the final ride height measurement. This should not be more than 24". If it is greater than this, the adjusters need to be lowered.
13. A front end alignment must now be performed.

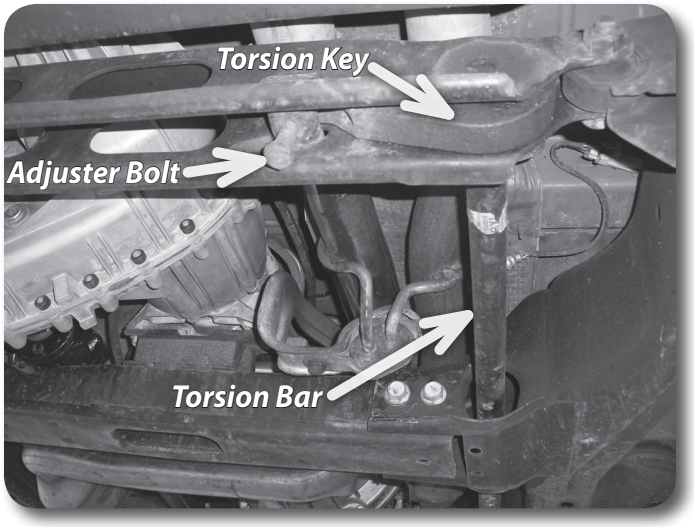

Figure 1

Rear Installation Instructions

NOTE: Complete the following instructions one side at a time. Do not attempt to drop the entire axle at one time.

1. Raise rear of vehicle and support with jack stands under frame. Remove wheels.
2. With axle firmly supported by jack stands remove the OEM shock. Place a hydraulic jack under the rear differential.
3. Loosen the OEM u-bolts that retain the spring to the axle.
4. With the hydraulic jack supporting the axle, slowly allow the axle to drop away from the leaf spring. Replace the jack stands for additional support.
5. Place the new block, tapered end toward the front, between the stock block and the axle. Make sure the bump stop portion of the stock block is pointed the same direction as it was originally. Figure 2

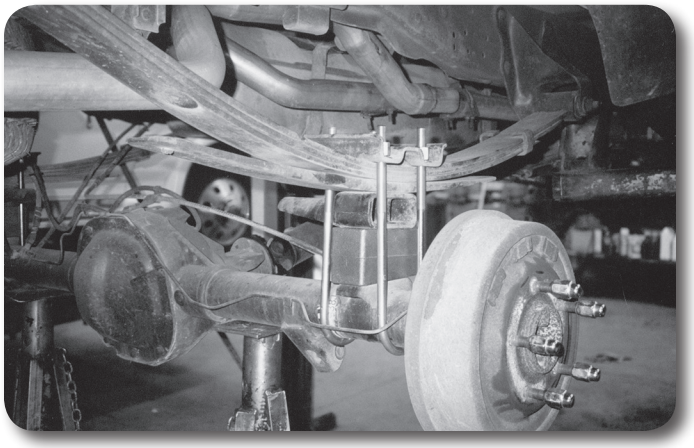

Figure 2

6. Slowly raise the axle with the hydraulic jack in order to assemble the blocks and leaf springs. Make sure that all of the locating pins are inside their female counterparts.
7. Install u-bolts with the supplied fasteners. Be sure the u-bolts are perpendicular to the axle before tightening.
8. Tighten the u-bolts to 100-120 ft-lbs. Replace wheels. Install correct Zone shocks recommended for this amount of lift. Replace the wheel.
9. Complete the above instructions for the other side of the vehicle.

Step 3 Caution:

To avoid axle shift, only remove/ replace the u-bolts from one side at a time.

Step 4 Caution:

It may be necessary to adjust the brake line in order to gain additional length. Do not kink the brake line in any way.

Step 6 Caution:

Do not bring this assembly under pressure until the u-bolts have been installed.

Step 7 Caution:

Be sure to install the u-bolts under the brake line.

Post-Installation Warnings

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.

2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.

3. Perform head light check and adjustment.

4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.