



#F8001 Installation Instructions

1997-2003 Ford F-150

1997-2002 Ford Expedition

Alignment Cam Kit

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.

Difficulty Level

easy 1 2 3 4 5 difficult

Estimated installation: 1 hours

Special Tools Required

None

» **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.
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Kit Contents

| Qty | Part |
|-----|----------------------|
| 8 | Eccentric Cam Washer |
| 8 | 14mm Flat Washer |
| 4 | 14mm 'D' Bolt |
| 4 | 14mm Lock Nut |

Step 4 Note

Be sure the front shocks and sway bar links are properly installed before proceeding.

INSTALLATION INSTRUCTIONS

1. Park vehicle on clean, flat, and level surface. Block the rear wheels for safety.
2. Raise the front of the vehicle and support with jack stands under the frame rails.
3. Remove the front wheels.

PERFORM THE FOLLOWING INSTALLATIONS STEPS ON ONE SIDE OF THE VEHICLE AT A TIME

4. Support the lower control arm with a quality floor jack. Support the arm out near the lower ball joint. This support is necessary to relief suspension spring pressure on the upper control arm bolts for an easy and safe installation.
5. With the lower control arm well supported, remove the front upper control arm bolt. Check that the mounting holes in the frame bracket are slotted. If they are not slotted the perforated blanks in the bracket will have to be removed to change the hole to a slot.
6. Install the new alignment cam bolt assembly. Install a cam washer on the bolt, followed by a 14mm flat washer **Figure 1**. Install the bolt through the bracket/control arm and fasten with a 14mm flat washer, cam washer and lock nut. Center the cam bolt in the bracket and torque to 100-110 ft-lbs.
7. Repeat the cam bolt assembly installation on the back of the upper control arm.
8. When the first side installation is complete, repeat all of the sets for the other side.
9. Check all 4 cam bolts for proper torque.
10. A front end alignment can now be performed.



Figure 1