



#J5311 Installation Instructions 1997-2006 Jeep TJ Alignment Cam Bolts

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: 0.5 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.

INSTALLATION INSTRUCTIONS

» CAM BOLT INSTALLATION

1. Park the vehicle on a clean, flat surface and block the rear wheels for safety.
2. Raise the front of the vehicle and support with jack stands under the frame rails just behind the lower control arm frame mounts.
3. Working on one side at a time, remove the lower control arm mounting bolt at the axle and install one of the provided cam bolts, washers and nuts. Thread the nut on just enough to keep the cam washers inside the cam stops. Do not tighten at this time.
4. Repeat the process on the other side.
5. With both sides complete, remove the jack stands and lower the vehicle to the ground. Bounce the front of the vehicle to settle the suspension.

» ADJUSTMENT

6. The alignment cams can be adjusted to increase or reduce the amount of caster in the front axle. Rotate the cam rearward (bolt head close to back of vehicle) caster is increase. Rotate the cam forward, caster is reduced. A proper front end alignment will be necessary to determine the exact amount of caster.
7. Adjust the cams to the desired position and torque the cam bolt nut to 95 ft-lbs.
8. If the caster was adjusted from the original vehicle setting, the front tire toe-in should also be checked and adjusted as necessary.