



## #J5312 Installation Instructions 2007-2008 Jeep JK Front Alignment Cams

### 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 hour

#### Special Tools Required

Rotary grinding tool or equivalent

#### » TECHNICAL SUPPORT

*Live Chat* provides instant communication with Zone tech support. Anyone can access live chat through a link on [www.zoneoffroad.com](http://www.zoneoffroad.com).

[www.zoneoffroad.com](http://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](mailto:tech@zoneoffroad.com) detailing your issue for a quick response.

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

#### » 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
4	Alignment Cam Plate

## PRE-INSTALLATION NOTES

1. The cam plates provided in this kit are designed to positively lock between the factory axle mount cam tabs. They will not slip out of position like adjustable round cams will. With the square design there are 2 positions that the cam plates can be set.

**Position 1:** The cam plate can be centered, providing 0 degrees caster change (stock hole position). Good for returning vehicles to "stock".

**Position 2:** The cam hole can be offset toward the rear of the vehicle which adds 2 degrees of caster (outlined in these instructions). This position is good for vehicles lifted 2" and up.

## INSTALLATION INSTRUCTIONS

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 mounts.
3. Remove the front wheels.
4. Support the front axle with a hydraulic jack.
5. With the axle well supported, loosen but do not remove the four front lower control arm bolts (2 per side).
6. Starting on the passenger's side, remove the control arm bolt at the axle and lower the control arm from the axle bracket.
7. Locate the perforated section of the lower control arm pocket mounting holes. **Figure 1.** The rear portion of the perforated section must be removed. Using a rotary grinding tool and/or chisel, remove the perforated section in each (2) mounting hole.



Figure 1

8. Locate two provided cam plates. Reattach the control arm to the axle with the factory bolt and new cam plates (one per side). Loosely attach with the factory nut. The cam plates will be set in position after the driver's side mount has been modified.
9. Repeat the axle mount modification on the driver's side mount. Once the perforated sections are removed, reattach the arm just like the passenger's side.
10. With both sets of cam plates installed, position the cams so that the hole is offset toward the rear of the vehicle and the plates rest in between the two factory cam tabs. Snug hardware just enough to keep the cam plates positioned between the tabs **Figure 2**.
11. Reinstall wheels and lower the vehicle to the ground. Bounce the front of the vehicle to settle the suspension.
12. Torque the lower control arm bolts at the axle and frame to 110 ft-lbs.
13. Check hardware after 500 miles.
14. Although uncommon, in some cases, the steering drag link may need to be adjusted to recenter the steering wheel.



Figure 2