

PART NO. 82390

Instruction Sheet JEEP JK CASTER/PINION ANGLE KIT

This part should only be installed by personnel who have the necessary skill, training and tools to do the job correctly and safely. Incorrect installation can result in personal injury, vehicle damage and / or loss of vehicle control.

Front Axle: Caster and Pinion Angle - ± 1.5 Degree

1. Before beginning any alignment always check for loose or worn parts, tire pressure, and odd tire wear patterns.
2. Raise the vehicle by the frame.
CAUTION: Always use appropriate safety devices to support the weight of the vehicle while servicing any suspension component.
3. Remove the front lower control arm to axle bolts one at time.
4. Remove knock-out tabs on frame bracket using tool #74910 or equivalent. Remove the tabs by pressing from the outside to inside of the frame bracket. Trim any metal burrs.
5. Install the #82390 cam bolts by placing one cam at the head of the bolt, slide the bolt through the axle bracket and control arm, then place another cam washer on the bolt and then the locknut.
6. Repeat for other side making sure cam washer sets in recess on axle bracket.
7. To adjust loosen lock nut and rotate cam bolt.
Both right and left cam bolts must be in the same relative position.

Note: Cross caster cannot be set on this type of axle. Having the bolts in different positions on each side will load the bushings and possibly cause setback problems.

8. Tighten locknut to 115 Nm (85 lb-ft).
9. Check alignment and/or pinion angle readings and road test vehicle.

Rear Axle: Pinion Angle Only - ± 1.5 Degree

1. Raise the vehicle by the frame.
CAUTION: Always use appropriate safety devices to support the weight of the vehicle while servicing any suspension component.
2. Remove rear tire and wheel assembly
3. Remove the rear upper control arm to axle bolts one at time.
4. Remove knock-out tabs on axle bracket using tool #74910 or equivalent. Remove the tabs by pressing from the outside to inside of the axle bracket. Trim any metal burrs.
5. Install the #82390 cam bolts by placing one cam at the head of the bolt, slide the bolt through the axle bracket and control arm, then place another cam washer on the bolt and then the locknut.
6. Repeat for other side making sure cam washer sets in recess on axle bracket.
7. To adjust loosen lock nut and rotate cam bolt.
Both right and left cam bolts must be in the same relative position.
8. Tighten locknut to 115 Nm (85 lb-ft).
9. Check pinion angle readings and road test vehicle

Always check for proper clearance between suspension components and other components of the vehicle.



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