CHEVROLET COLORADO ADJUSTABLE CAMBER/CASTER ARMS



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.

Plan Ahead - Read All Instructions BEFORE installing part.

Check for loose or worn parts, proper tire pressure, and odd tire wear patterns before beginning alignment.

- Take initial alignment readings and determine caster change needed.
- 2. Raise front of vehicle by frame and securely support.
- 3. Remove front tire and wheel assembly.
- 4. Set lower control arm cam bolts to center, neutral position and lightly tighten.
- Remove nut holding OE ball joint stud to knuckle. Break taper between ball joint stud and knuckle and remove ball joint.
 NOTE: Support knuckle so no strain is applied to ABS wiring or
- 6. Remove arm-to-frame mounting bolts and remove control arm from vehicle. (This may require removal of damper assembly for access to inboard hardware.)
- 7. Install SPC control arm into frame pockets using OE arm-to-frame bolts ensuring that provided spacers are inserted between bushing and frame pockets, 2 per bushing, **see Figure 1.** Torque hardware to manufacturer's specifications.

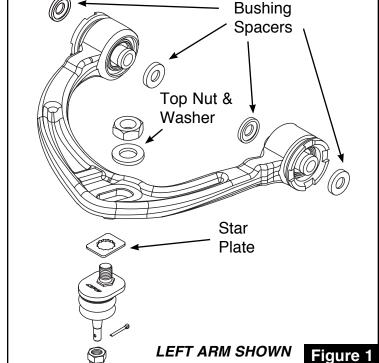


TECH TIP: Apply small amounts of grease to the inside face of spacers to help hold spacers in place during installation.

NOTE: Unlike OE rubber bushings, xAxis™ bushings pivot freely and may be fully torqued without placing any weight on suspension.

8. Install star plate over hex on new ball joint per chart below to achieve desired caster change determined in Step 1.

NOTE: For most trucks with 2-3" of lift, setting "D" should return caster to manufacturer's specifications, but it may be necessary to use different positions on each side to achieve desired cross-caster setting.



- 9. Insert new ball joint up through the bottom of the arm, indexing star plate in machined slot and then install supplied top washer and nut. Position ball joint in middle of slot and snugly tighten nut.
- 10. Insert new ball joint stud into knuckle, install supplied castle nut, and torque nut to 45ft-lb [61Nm]. Tighten further, but only until cotter pin can be installed. Install supplied cotter pin.
- 11. Re-install tire and wheel assembly. Lower vehicle.
- 12. Take alignment readings. If additional caster adjustment is necessary, loosen ball joint top nut and reposition star plate to rotate ball joint relative to arm. Adjust camber by loosening top nut and sliding ball joint in control arm slot.

NOTE: It will be necessary to raise vehicle to make camber/caster adjustments with new arm.

13. With full vehicle weight on suspension, fine-tune alignment using OE lower control arm cam bolts.

NOTE: Camber and caster can be set with new upper control arm, as well as lower control arm cam bolts. In most cases, it is recommended that lower cam bolts be set to their neutral position. This way, they can be used to fine-tune caster setting. Alternatively, if caster is set to max positive with lower cam bolts, and final alignment is achieved with new upper ball joint settings, more tire clearance may be obtained at rear of wheel opening. To do this, push rear lower adjuster outward, towards tire, and pull front lower adjuster inward, towards center of vehicle. The lower control arm adjusters are far more efficient at creating clearance. This typically requires using ball joint position "E".

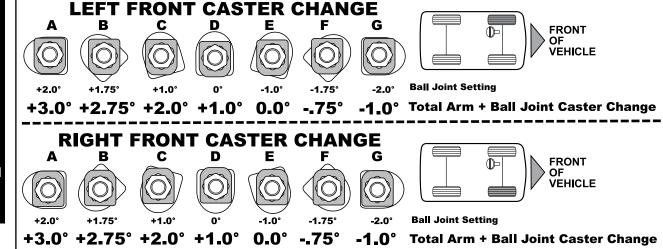
- 14. When final camber and caster settings are achieved, torque top ball joint nut to 200 ft-lb [271Nm]. Torque lower cams to manufacturer's specifications.
- 15. Adjust toe and road test vehicle.

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

Maintenance:

This ball joint is fully sealed and features a lifetime grease. No maintenance is required after installation.

Note: With flat face of ball joint facing away from the tire (Position D) this arm will give +1° additional caster. Using the star plate, caster change can be adjusted from -1.0° to +3.0°.





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