



## #3100 , 7100 Installation Instructions 1999-2006 Chevy/GM 1/2 Ton 4wd Single Steering Stabilizer

### **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: 30 mins

#### **Special Tools Required**

Torque Wrench w/18mm socket

24mm (15/16") Wrench

Drill with 5/16" Bit

#### » **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.

## Kit Contents

Qty	Part	1	Bolt Pack
		4	Shock Stem Bushing
1	Center Link Bracket	4	Shock Stem Washer
1	Outer Bracket	2	3/8" Hex Nut
2	5/16" x 1-1/4" x 2" U-Bolt	2	3/8" Hex Jam Nut
1	3/8" x 1" Self-Tapping Bolt	1	Stabilizer Cylinder

## INSTALLATION INSTRUCTIONS

1. Park the vehicle on a clean, flat surface and block the rear wheels for safety. Turn the front wheels so they are straight ahead.
2. Raise the front of the vehicle and support with jack stands under the frame rails.
3. Located the passenger's side front lower control arm bolt **Figure 1**. On lifted vehicles where the lower control arms are lowered with a crossmember, this will be the bolt mounting the crossmember to the frame. Remove the nut and washer from the bolt but do not remove the bolt from the hole.



Figure 1

4. Install the provided 'Z' shaped outer stabilizer bracket over the lower control arm bolt so that the tab with the slotted hole sets inside the factory crossmember. Fasten with the factory control arm nut and washer. Snug the control arm nut just until the bracket is seated on the frame **Figure 2**. Final control arm bolt torque must be done with the weight of the vehicle on the suspension.



Figure 2

5. Using the slotted hole in the new bracket as a guide, drill a 5/16" hole in the factory bracket. Install the provided 3/8" self-tapping bolt in the new hole and torque to 30 ft-lbs.
6. Locate the provided 'L' shaped center link bracket. Position the bracket on the steering center link between the idler and pitman arms so that the tab with the large round hole is toward the passenger's side. Loosely fasten the bracket to the center link with the new u-bolts and hardware **Figure 3**. The u-bolts should be just loose enough to be able to reposition the bracket.



Figure 3

7. Locate the new steering stabilizer cylinder. Extend the cylinder out to half of its total stroke length. At this point approximately 3-7/8" of the cylinder rod will be exposed **Figure 4**.



Figure 4

8. Install a stem washer followed by a stem bushing on the BODY end of the cylinder. Insert this end of the cylinder into the new outer bracket. Loosely fasten the cylinder by installing a second stem bushing, washer and 3/8" hex nut (tall).
9. Install a stem washer followed by a stem bushing on the ROD end of the cylinder. By adjusting the position of the bracket and not the length of the cylinder, install the end of the cylinder into the center line bracket. Loosely fasten the cylinder by installing a second stem bushing, washer and 3/8" hex nut (tall).
10. With both ends of the stabilizer cylinder attached, go back and tighten the stem nuts until the bushings begin to swell **Figure 5**. After the nuts are tight, install a 3/8" jam nut (short) on each stem and lock them against the first nut.

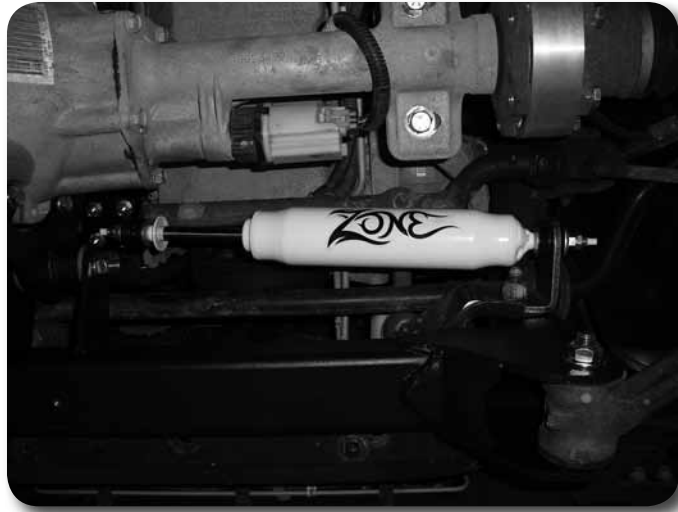


Figure 5

### Step 11 Note

In some cases it may be necessary to trim a small amount off of the control arm bolt to gain clearance between the bolt and the stabilizer cylinder.

11. Adjust the position of the center link bracket to provide adequate clearance from all surrounding components. Adjust the bracket so that there is clearance between the cylinder and the control arm bolt **Figure 6**. Do not change the length of the cylinder while adjusting position, only rotate the bracket about the center link. Tighten the four u-bolt nuts securely.



Figure 6

12. With all the hardware tight, cycle the steering and check for proper clearance and operation of the cylinder. Adjust as necessary.
13. Apply 'Zone' sticker to the cylinder.
14. Lower the vehicle to the ground. Torque the lower control arm bolt that was loosened to 125 ft-lbs.
15. Check all hardware for proper torque.
16. Check hardware after 500 miles and at each scheduled maintenance interval.