# INSTALLATION INSTRUCTIONS

## P/N: C2047

## LOWER COIL-OVER SHOCK MOUNT KIT

The Competition Engineering Lower Coil-Over Shock Mount Kit is designed to be used either by itself or in conjunction with our Part No. C2046 Upper Coil-Over Shock Mount Kit. This kit provides a solid, adjustable mounting point for racing coil-over shocks allowing 6 inches of ride height adjustment in one inch increments. Machined spacers are included to adapt our mount to various coil-over shocks.

### PARTS LIST

- 2) 1/4" Axle Brackets
- 2) Lower Shock Bracket, RH
- 4) 3/8"-16x1.25" Bolts
- 2) 1/2"-20x2.25" Bolts
- 4) Washers
- 4) 1/2"x.188" Spacers
- 2) Lower Shock Bracket, LH
- 4) 3/8"-16 Locknuts
- 2) 1/2"-20 Locknuts

INSTALLATION

1. Raise vehicle and place chassis on jackstands in four places. Level the chassis front to rear and side to side.

2. Set the rear axle housing at proper ride height.

3. If your chassis already has upper shock mounts, use these to determine the proper mounting distance for the lower mounts.

4. The following points should be considered when choosing a shock mounting position:
   a. Mount the shocks as far apart as possible for maximum stability.
   b. Shocks should be mounted as close to vertical as possible but never install more than 30° off of vertical. Both shocks should be at the same angle.
   c. Allow sufficient clearance between the chassis and the coil-over throughout the full suspension travel. Use the supplied spacers as needed for clearance between the top brackets and the shock mounting eye.
   d. The upper and lower shock mounts must be in-line and parallel.
   e. The distance from the lower shock brackets to the axle flanges must be the same on both sides.

5. Assemble the lower mounting brackets to the axle brackets using one right hand bracket and one left hand bracket per side. (See Diagram) Use the provided 3/8"-16 bolts and locknuts to attach them. Do not tighten completely at this time.

***For Technical Assistance, call Competition Engineering's Tech Line at (203) 458-0542, 8:30am-5:00pm Eastern Time***

***COMPETITION ENGINEERING***

***80 Carter Drive • P.O. Box 1470 • Guilford, CT 06437***

***Phone: (203) 453-5200 • Fax: (203) 453-6906***

**Visit Us At www.competitionengineering.com**

NOTE: Mount these brackets in the middle of the axle brackets to allow for up or down ride height adjustment.

6. Mount the assembled bracket to the bottom of the coil-over shock using the supplied 1/2"-20 bolts and locknuts.

NOTE: Do not mount the coil-over spring on the shock at this time.

7. Set the center to center distance on the shock to the proper distance. This will be determined by the dimensions supplied from the coil-over shock manufacturer.

8. Place the lower axle bracket on the axle tube in the desired location making sure to follow the guidelines listed in Step #4.

9. Locate the top of the shock within the upper shock mount tabs. Bolt in place.

10. The lower axle bracket should be mounted perpendicular to the pinion centerline.

11. With everything in place, tack weld the axle brackets to the axle tubes.

12. Un-bolt the shocks from the mounts and remove the right and left hand shock brackets from the axle brackets.

13. Weld the axle brackets on both sides and all the way around.

14. Re-install the shock brackets and the coil-over shocks with the springs mounted on them. Rotate the spring platforms up or down to reach the shock manufacturer's supplied mounting distance.

15. Tighten all bolts and lower vehicle to the ground.

# LOWER COIL-OVER SHOCK MOUNT ASSEMBLY

