



## **INSTALLATION INSTRUCTIONS**

**P/N: C2051**

### **ADJUSTABLE REAR COIL SPRING SHOCK MOUNT KIT**

This kit is designed to be used in vehicles with fabricated rear frames using rear ends with 3" axle tubes. It allows the ride height to be adjusted 5-1/2" up or down in 1/2" increments and utilizes Competition Engineering 3-Way adjustable Shock Absorbers.

Optimum suspension tuning can then be achieved using the Competition Engineering coil-over springs shown below.

<b>Part No.</b>	<b>Spring Rate (lbs/in.)</b>	<b>Total Weight on Rear</b>
<b>C2550</b>	<b>85</b>	<b>Under 1050 lbs.</b>
<b>C2555</b>	<b>100</b>	<b>1050-1150 lbs.</b>
<b>C2560</b>	<b>125</b>	<b>1150-1250 lbs.</b>
<b>C2565</b>	<b>150</b>	<b>1250-1450 lbs.</b>
<b>C2570</b>	<b>200</b>	<b>1450-1800 lbs.</b>

## **PARTS LIST**

- |                                     |                                |
|-------------------------------------|--------------------------------|
| 2) 3-Way Adjustable Shock Absorbers | 4) Spring Mounts               |
| 2) Lower Shock Brackets, Left       | 2) Lower Shock Brackets, Right |
| 4) Upper Mounting Tabs              | 4) 1/2"-20 x 2-1/2" Bolts      |
| 4) 3/8"-16 x 1-1/2" Bolts           | 4) 1/2"-20 Locknuts            |
| 4) 3/8"-16 Locknuts                 | 4) 1/2" Washers                |
| 8) 3/8" Washers                     | 2) Axle Brackets               |

If your chassis has upper mounts installed, they may be used to locate the lower mounts as long as there is sufficient clearance for the entire assembly.

## **INSTALLATION**

1. Securely place the car on jack stands. Make sure that it is level from front-to-back and side-to-side.
2. Place the rear housing in its proper position and at the correct ride height.
3. Mount the shocks to the lower shock brackets with the 1/2"-20 hardware supplied. Bolt these assemblies to the weld-on axle brackets using the supplied 3/8"-16 hardware.
4. Position these assemblies along the axle tube as far apart as clearance will allow. Square the axle bracket with the axle tube and tack weld in place.
5. Bolt the upper mounting tabs to the top of the shocks with the wings on the tabs facing out.

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

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6. Line up the upper mount tube with the tabs installed in Step #5, checking that the shocks are still vertical. Make sure that the mount tube is square and level, and then tack weld into place.
7. Tack weld the mounting tabs to the upper mounting tube.
8. Check all dimensions and finish weld.
9. Un-bolt the shock from the upper mounting tabs. Install the spring and the spring perches on the top and bottom of the spring. Slide the spring assembly over the shock absorber and over the upper and lower mounting tabs. Fasten in place using the supplied 1/2" bolts. Tighten the 1/2" bolts to 65-ft/lbs and the 3/8" bolts to 40-ft/lbs.
10. Remove the jack stands and lower the vehicle to the ground.
11. The ride height can be adjusted by raising the chassis and supporting it with jack stands. With the rear axle housing supported by a floor jack, raise or lower the axle mounting brackets the desired amount.

**CAUTION: NEVER ATTEMPT TO MAKE A SUSPENSION ADJUSTMENT WITHOUT FIRST SUPPORTING THE CAR WITH JACK STANDS.**

### SHOCK ADJUSTMENT

1. With the shock removed from the vehicle, compress it fully.
2. Rotate the top of the shock until you feel the internal adjuster engage.
3. Rotate the shock in a clockwise direction, listening for three distinct clicks. There will be one loud click followed by two softer clicks. This will repeat three times around the shock. The loud click is the "R" or regular setting, the first soft click is the "F" or firm setting and the second soft click is the "XF" or extra firm setting.
4. Re-install the shock after the desired adjustment has been set.

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