

Rear Coilover Brackets  
 1978 – 1988 GM G-Body  
 Item # 3049



### Box Contents

Qty	Part #	Description
2	3049 Bracket	Mounting Bracket (Driver/Passenger)
2	3048C	Reinforcement Plate
2	3048F	Coilover Mounts (same for both sides)
2	3044D	3/4 OD x 1/2 ID Aluminum Spacer, .25"
2		M12 x 100mm Bolt
2		M12 Nyloc Nut
12		M12/ 1/2 Flat Washer
6		3/8-16 Nut
4		3/8-16 x 1.5" Bolt
2		3/8-16 x 1" Bolt
6		3/8 Lock Washer
6		3/8 Flat Washer
4		1/2-13 Nyloc Nut
2		1/2-13 x 1.25" Bolt
2		1/2-13 x 2.5" Bolt
4		7/16-20 Nyloc Nut
4		7/16-20 x 1.25" Bolt
4		7/16 Flat Washer

The UMI 3049 Kit is intended to use Coilover Shocks with 2 ½ Springs. The Coilover should have a ½” bearing end on the body of the shock and a T-Bar end on the shock shaft. Rear Bump stops should remain on the axle to prevent bottoming of the shock and potential failure.

### **Installation**

1. Raise car to a comfortable working height using the method of your choice. Follow applicable safety procedures. Support the rear of the car under the frame, not the axle, you will need to be able to move the axle for assembly
2. Remove the existing Shocks and Springs from the Axle. Support the axle with separate jackstands or a floor jack
3. Working on one side at a time, remove the rear lower control arm bolt. Keep the control arm inside the axle bracket. *See figure 1*
4. Place the correct side 3049 bracket on the inside of the axle mount. Loosely install the M12x100 bolt provided. Place washers under the head of the bolt and nyloc nut. Do not tighten.
5. Loosely install a ½ x 1.25 bolt in the factory shock hole at the rear of the bracket. Place Washers under the bolt head and nyloc nut.
6. Snug all bolts to secure the bracket to the axle. A Secondary hole can be drilled in the plate for anti rotation if so desired. Drill the hole to 3/8”, keep the hole location away from lower control arm and bushing.
7. Install a 3/8-16 x 1 Bolt, place washer under head of bolt, lock washer under nut and snug. *See Figure 2*
8. Torque 1/2” bolt to 70 ft lbs, 3/8” bolt to 35 ft lbs. Wait to torque the control arm bolt until the car is sitting at ride height with the suspension loaded.
9. Install the coilover mount onto the bracket. Use (2) 7/16-20 x 1.25 bolts per side. Place the bolt thru the brackets and install the flat washer and nut. *See Figure 3*  
*Note: There are 3 positions to choose from to allow tuning the ride height to ensure proper shock travel. Refer to the chart for a starting point.*
10. Torque the bolts to 70 ft lbs.
11. Repeat steps 4 thru 9 on the other side of the vehicle
12. Begin Installing the coilover shocks. Refer to the shock manufacturer instructions for proper assembly. Install the spring and retaining hat on the shock before installing in the car.
13. Install the upper mount of the coilover by sandwiching the provided reinforcement plate between the T Bar and the Chassis. Use the provided 3/8-16 x 1.5 bolts, washers, and nuts. Torque to 35 ft lbs.
14. Install the lower mount of the coilover using the ½-13 x 2.5 bolts, washers, and locknut provided. Torque to 70 ft lbs.  
*Note: Measure the width of coilover bearing you are using. If using a 1.25” wide coilover such as a Viking, not spacer is needed. If using a 1” wide bearing mount, such as a UMI Afco, use the provided aluminum spacer on the front side of the coilover.*
15. Run the adjuster nut on the coilover until it takes the slop out of the spring. This will be the starting point to adjust ride height.
16. Set the car on the ground. Adjust ride height to desired height. It is important to have 45-60% of the shock shaft exposed at ride height to allow adequate compression travel. If you need more compression,

move the adjustable bracket lower on the car. Move the bracket higher if you have too much compression.



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



### Starting Point for Coilover Bracket Installation

Below are suggested starting points for installation of coilover brackets. Ride Height is measured from the body wheel well to the center of the wheel. These measurements will get you close, and fine tune by adjusting the coilover and coilover bracket. Variances may occur depending on the body of the car.

Ride Height Range	Shock	Bracket Position
13 1/2	14 UMI 6855 / Viking c209	Bottom
14	14 3/4 UMI 6855 / Viking c209	Middle
14 3/4	15 1/2 UMI 6855 / Viking c209	Top
14 1/2	15 1/4 Viking c211	Bottom
15 1/4	16 Viking c211	Middle
16	16 3/4 Viking c211	Top
16 1/4	17 Viking c219	Bottom
17	17 3/4 Viking c219	Middle
17 3/4	18 1/2 Viking c219	Top

Note: UMI Performance Inc. is not responsible for failure due to misuse, improper installation, shock bottoming etc. The rear bump stop should be utilized to protect the shock from bottoming out. UMI Performance is not responsible for fitment issues when using other aftermarket company's components such as sway bars. The 3049 works with all UMI sway bars, trailing arms, and rear components

## Item #3049

78-88 G-Body Rear Coilover Mount