

82-02 GM F-body Rear Coilover brackets
Item # 2045



IMPORTANT NOTES

The UMI 2045 kit is intended to allow the use of 2-1/2" racing coilover springs and shocks on the rear of the 3rd and 4th Generation GM F-body.

UMI is not responsible for failure due to misuse, mis-installation, shock bottoming, etc. The rear bump stops should be utilized to prevent shock bottoming and subsequent bracket damage.

UMI is not responsible for fitment issues when using other companies' components such as sway bars, relocation brackets, etc. The 2045 kit fits UMI 22mm and drag anti-roll bar and tubular 1-1/2" diameter arms.

Please follow all applicable safety practices when working on a raised vehicle such as proper use of jack stands and safety glasses, and care when lifting heavy object such as the rear axle.

Technical specs: Shock ride height at 2" lowering is approximately 14-1/4". The double shear brackets are 1-1/4" wide and use a 1/2" diameter bolt. Testing was completed using Viking C221W and can also accommodate Viking C209W. Springs were tested using 14" 110 lb/in, 14" 125 lb/in and 12" 150 lb/in.

Installation Instructions:

1. Remove existing rear springs and shocks. Be sure to support axle in a safe manner.
2. Removing the lower shock bolt will allow the rear to droop enough to remove the springs.
3. The top shock nuts are removed from inside the passenger cabin, under the carpet and under a silicone mold. See Figure 1.
4. Install the lower bracket using 1/2-13 bolt, nut and washer. Tighten gently to locate lower bracket. See Figure 2.
5. The bracket kit comes with two small, round 3/16" spacers. These will be utilized if using relocation brackets or may be left out if not using relocation brackets.
6. Drill 3/8" clearance hole through axle housing flange as shown in Figure 3.
7. Install 3/8-16 bolt, lock washer and nut. Final torque to 35 ft-lb. Use spacer if attaching over relocation bracket.
8. Additional spacing may be needed on aftermarket housings. You may use hardware store 3/8" washers.

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9. Final torque ½-13 lower bolt to 60 ft-lb.
10. The lower mount is now installed.
11. Install lower jam nut onto Viking shock by threading down to the bottom. Lip should face up. Assembly shown in Figure 4.
12. Install main nut onto Viking shock and thread down to the jam nut.
13. Install washer, bearing and washer (optional).
14. Lubricate threads on shock body with anti-seize.
15. Slide spring down onto shock and install coilover hat.
16. Prepare UMI upper mount and Viking coilover by attaching coilover to upper mount. The bolt is in a tight location up top and is easier to assemble on the bench.
17. Tighten upper shock bolt to 60 ft-lb.
18. Guide the shock and bracket assembly up into the existing shock hole. Inside the car, install a flat washer and ½-13 locking nut. Tighten to 60 ft-lb. The shock should now be hanging down from the upper mount. See Fig 5
19. Complete the installation by installing the lower bolt through the shock and bracket. Clearance is best when bolt is installed from outside to inside. You may need to remove trailing arm to gain access. Tighten to 60 ft-lb.



Fig 1 – Upper shock bolt



Fig 2 – Lower bracket location



Figure 3 – Drilling for 3/8" reinforcement



Fig 4 – Assembly order
(optional bearing and washer)



Fig 5 – Upper bracket install



Fig 6 - Complete

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1982-2002 GM F-body Rear Coilover bracket kit
UMI Performance, Inc.
Manufactured in Philipsburg, PA-USA

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