



**CONGRATULATIONS ON PURCHASING A
FAT CAT MOTORSPORTS COIL-OVER SUSPENSION,
CUSTOM-MADE FOR YOUR MIATA!**

Installation notes for FCM custom coil-overs

IMPORTANT! SCHRADER VALVE ORIENTATION

1. Each of the four assemblies is labeled to indicate the proper location – LF, LR, RF, RR - with each label (written or printed) to face outward, toward the wheel. As part of building your new monotube shocks, we have installed Schrader fittings on the lower part of the body. All Schrader valves are intended to face inward, toward the engine (front shocks) or differential (rear shocks). **This orientation is critical to prevent damage during vehicle operation.** Please refer to the attached photo showing the rear shocks – the orientation also applies to the front.



Rear shock, Schrader (shown)



Rear shock installed, Schrader valve (mostly hidden) toward axle

DO NOT TAMPER WITH THE SCHRADER VALVE COVER OR ATTEMPT TO ADJUST NITROGEN PRESSURE, OTHERWISE YOUR SHOCKS WILL NOT WORK PROPERLY!

SETTING RIDE HEIGHT

2. Before shipment, the adjustable spring perches are positioned to keep the spring well-seated during transit. However, you will have to adjusted them for your car's needs. In most cases, the proper starting location to find your ideal ride height is with the front and rear perches about 1.0" from the bottom of the sleeve (photos for reference only).



FCM custom coil-overs, front and rear, typical spring perch locations, as shipped.

COIL-OVER INSTALLATION

See Appendix (page 11) of our coil-over assembly procedure:

http://www.fatcatmotorsports.com/FCM_Bilstein_2_5_Coilover_w_MCU_bushings.pdf

RACING BEAT FRONT SWAY BAR INSTALLATION

3. If installing new Racing Beat sway bars, the supplied bushings may need to be cut/ground down about 1/16" (along the flat) to reduce excessive sway bar bind. When removing material, the goal is that the sway bar will rotate under light hand pressure once the sway bar mounting brackets are torqued to spec (~10-12 ft-lb). Consult Miataforum for more information about this modification.