



## HOW TO ADJUST COMPETITION ENGINEERING DRAG RACING SHOCKS

### PLEASE NOTE:

**BEFORE INSTALLATION COMPETITION ENGINEERING SHOCKS NEED TO HAVE THEIR SHOCK RATIO ADJUSTMENT SET.**

*The Shock Ratio represents the percentage of force required to compress the shock, compared to the force required to extend it.*

**Before installation for the first time or before adjustment the following procedure should be followed:**

1. Upon removal of the shock from its packaging, it is important to “purge” the shock of any air that may be trapped inside during shipment. Skipping this step can make the shock feel as if it is not functioning properly. To purge the shock, simply hold it so that it points up and down and completely cycle it 12-15 times.
2. To begin making adjustment changes once the shock has been purged, you must compress the shock COMPLETELY. On the inside of the shock, at the bottom of the adjuster is a small pawl. This pawl must make contact with the bottom of the shock body or it will not turn, and in doing so not change the settings of the shock. Keep in mind that you must have the shock pointed straight up while making adjustments to avoid aerating it.
3. With the shock still compressed and in the upright position, begin turning the shaft in the CLOCKWISE direction. This is where you will notice a series of clicks. Pay attention to these clicks and you will notice that one is more pronounced than the others. This is the key to properly setting the shock adjustment. This louder, more pronounced click is the beginning of the settings and should be considered the “R” or regular setting. The following series of softer clicks will be the “F” or firm setting, and finally the “XF” or extra firm setting. When turning the shaft to make adjustments, remember that you can only go clockwise. If you feel like you have missed the setting you were looking for do not worry, just keep turning the shaft until you hear the loudest click and you will be back to the default setting and can begin making shock adjustments.

As an example:

If you wanted to find the XF setting, you would go through all the steps mentioned and while listening for the clicks, you would hear a loud click and then two softer clicks.

This would be similar for the F setting, the loudest click and then one soft click.

Something else to keep in mind when making adjustments:

Trying to gauge the setting of the shock by compressing it in your hands and feeling the difference in compression is not advised. Though you can compress the shock, you will not be able to simulate the weight of a vehicle or the speed at which it can cycle the shock. If you continually try to check adjustment by hand, it can cause the shock to aerate and feel inconsistent.

The only true way to verify adjustment of the settings is to record the vehicle at the track or to test the piece on a shock dynamometer.

### ADJUSTMENT CHART – SHOCK RATIO

SETTINGS	FRONT SHOCKS	REAR SHOCKS
R	60/40	50/50
F	80/20	40/60
XF	90/10	30/70

**For Technical Assistance, Call Moroso’s Tech Line at  
(203) 458-0542, 458-0546 8:30am – 5:00pm Eastern Time**

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