

Futaba® CGY750



Phase Equalizer Operation

What Phase Equalization does for you.

During pirouette maneuvers, the difference between pirouette speed and rotor head speed can result in swash phase mismatches. The mismatch will be greater at lower head speeds. At head speed to 2000 rpm, pirouette speed to 720 deg/sec, the phase mismatch to both roll and pitch axis is about 5.4 degrees lead pirouetting to the left and lag to the right.

The Phase Equalizer compensates the roll and pitch control axis dynamically, increasing the precision of swash control during your pirouetting maneuvers.

How to set up Phase Equalizer operation.

The Phase Equalizer needs three pieces of information: pirouette speed, head speed, and direction of rotor rotation.

Pirouette speed can be measured by the yaw gyro. Head speed can be determined by the governor head speed setting. If you don't use the governor — as with an electric heli, for example — you'll still need to input the rotor rpm. Having precise data isn't critical, so a good guess is better than nothing.

The new firmware has an rpm setting menu even when the governor is not used. If you don't input an rpm, the CGY750 uses 1500 rpm as the default.