

## F. AEROCOMMANDER FUEL CONTROLLER

There are 6 adjustable modes that can be used to fine-tune this system for personal preference and to specific engine variances. The controller is preset for typical conditions, and further adjustment is usually not necessary. If major adjustments on the fuel controller are required to resolve performance issues, this might indicate a problem elsewhere in the system - contact an Aerocharger tech to review the install and setup.

### FUEL CONTROLLER ADJUSTMENTS

The following modes are **programming modes**, and are valid only while the controller is being adjusted - the controller will display differently while the snowmobile is being ridden. Press the **mode button** to scroll through the programming modes.

The first 3 modes are for fine-tune adjustments.

- 1. Green Mode:** This mode controls how much fuel is being added under low RPM conditions. (0-4900 RPM). For cruising at low RPM or riding downhill.
- 2. Yellow Mode:** Controls how much fuel is being added in the mid RPM range of the powerband. (4900-6500 RPM). For typical trail riding.
- 3. Red Mode:** Controls how much fuel is being added at the top of the RPM range. (6500-Max RPM). For high speed cruise to wide open throttle.

When the **Blue light** turns on while riding, it indicates that the Aerocharger is making boost. The following modes control fuel delivery while boosting:

- 4. Green and Blue:** This is the fuel added when the blue light first turns on and boost is initially produced. This mode rarely needs adjustment.
- 5. Yellow and Blue:** The maximum fuel added while under full boost. Adjust this mode if the sled is lean or rich while at wide open throttle, or at high load conditions under boost. This mode is also useful for large changes in elevation.
- 6. Red and Blue:** This determines *which psi* the Blue light turns on, and extra fuel is first added to compensate for boost. Adjusting this mode *up* will delay the initial fuel increase under boost. This mode can be adjusted for crisper engine response. **NOTE: Read the warning below.**

### FUELING TIPS AND TRICKS

Here are several techniques for tuning with the Aerocommander. The fuel controller can be adjusted to fine-tune performance if desired, but the default settings can be left alone for everyday riding.

- The **Yellow/Blue** mode is the most frequently-adjusted mode - 90% of all tuning can be completed here. This mode controls fueling at wide open throttle under boost. If the sled is lean at wide open throttle, move the lights to the right in yellow/blue mode to add more fuel. Adjust this mode for large changes in elevation (5000' or more) or when setting the Aerocharger for higher boost.

- The **Red and Blue** mode can be adjusted to create snappier throttle response for climbing hills. Adjusting this mode to the right will reduce fuel in the midrange throttle band and improve throttle response.

**WARNING:** Sustained cruising while this mode is set lean can cause damage to your engine. Always make sure this mode is set to the default for all trail-riding.

