

**The complete instruction sheet is posted on line at
www.flycontrolline.com**

Short Form – PLEASE READ – PLEASE READ

The Profi Q500 is different than other common 428 race engines.

- Make NO changes to the engine. Use 8.8x8.5 APC prop.
- Run two times on the ground for 1-3 minutes at a needle setting rich enough to keep the engine off the “pipe”, about 17,000 rpm.
- Remove head spacer(s) leaving two in place (.006”) Please do this.
- Fly two or three normal flights with needle still rich.
- Remove one more head spacer leaving one in place (.003”).
- At this point you are ready- to-race; however, additional flight time will result in increasing performance. Props with heavy loads can be used resulting in faster speeds.

Setting the Needle for flight

The Profi runs rich on the ground for proper airborne setting.

Set the needle such that if you pinch the fuel line or hold the nose up at 30 degrees for a short time the engine will be “on the pipe”. It should stay on the pipe for a few seconds when you hold it level. If you point the nose down it should fall off the pipe. Point the nose up once again to stage the engine on the pipe and fly away. It is easy.

If the engine is rich in the air you can do one of three things. Increase the prop pitch $\frac{1}{4}$ ”, select a hotter glow plug (if available), or lean the needle $\frac{1}{8}$ th turn at a time. This engine provides many methods to change the performance in the air. Remember, the richest NV setting you can use with the engine running clean in the air is where it will make the most power. Remember a rich airborne run indicates a need for more propeller pitch.