



Additional Features:

- **Compression Ratio:** The TCM TSIO-520UB has 7.5:1 compression. The turbonormalized (TN) IO-550B has 8.5:1 compression. Higher compression is more efficient- more HP is produced on the same fuel flow and higher compression gives cooler exhaust gas temperatures.
- **Intercooler Equipped:** Tornado Alley Turbo's "Whirlwind TCP" includes a performance-proven integrally designed intercooler- "the Rammer". This provides more power at all altitudes, particularly low altitude and hot days when you really need it. It also helps with cooler cylinder head temps and cooler induction air temperatures with better detonation margins.
- **Induction system:** Smoother and more balanced air distribution to each cylinder means you have a lower pressure drop (i.e. more power) and more uniform air charge in each cylinder for smoother engine operation.
- **Exhaust system:** Thicker-walled 321 SS tubing (0.065" in critical areas) virtually eliminates exhaust system cracking. Many systems in use have more than 3000 hrs.
- **Ease of Operation:** Wide Open Throttle operation in climb and cruise. Simple Lean of Peak TIT operation. Wide Open Throttle won't overboost or exceed maximum continuous power. Cruise Leaning is done by setting fuel flow and can be done in seconds by referencing fuel flow.
- **Improved Baffling:** Properly distributes air for controlling engine temperatures, which leads to cooler and more uniform CHTs.
- **Functional Cowl Flaps:** Added for improved cooling during climb.
- **Gross Weight Increase:** New maximum gross weight of 4042 lbs. (vs. 3850 lbs.) means more people and cargo can be put into the aircraft.
- **Longer TBO:** 1700 Hrs. for (TN) IO-550B -- 1600* Hrs. for TSIO-520UB *(TCM factory number). This means lower cost at overhaul.
- **Airpower *FREM IO-550B exchange***= \$30,560 including \$5000 for turbo components overhaul
Airpower *FREM TSIO-520UB exchange*= \$38,851 Savings = \$8,291
Choice of cylinder manufacturer available Superior Air Parts Millennium® cylinders available for improved power and longevity.
- **Extended Range:** Lower cruise fuel flows (17GPH vs. 19-20GPH) at 75% power equals 150nm increased range.
- **Higher rates of climb:** (TN) IO-550B makes more power and stays cooler resulting in the ability to sustain high rates of climb (900-1000FPM) to altitude at 120KIAS.
- **Faster Cruise airspeeds:** Approximately 10KTAS faster at cruise altitude with lower fuel flow and cooler engine temperatures.
- **Future upgrades:** 330HP, PRISM electronic ignition and Supplenator™ backup alternator system yet to come. Improved power and performance as well as state-of-the-art backup power and electronic ignition systems for smoothness and potential operation on unleaded fuel.
- **And of course our friendly, well-informed staff**