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FAA STC Approvals for *GAMISPEC 550*[™] Engines

General Aviation Modifications, Inc. (GAMI) and Tornado Alley Turbo, Inc. (TAT), Ada, OK announce the FAA STC approvals for several new, customized modifications to Continental's IO-550B (300HP) engines. Modifications include *Taperfin Barrel Style Cylinders*, *Needle Bearing Rocker Arms*, and an upgraded *Liquidair*[™] Baffle Kit. These new modifications, exclusively available from GAMI and TAT are designed to improve performance and durability in this 300HP engine model used in many Beechcraft Bonanzas.



“The *Taperfin Barrel* Style Cylinders have a reduced cross section of the cooling fins on the steel barrel part of the cylinder. That change re-allocates the airflow from the lower steel barrel area to the more critical aluminum cylinder heads, where it’s really needed” said Tim Roehl, President. “This cylinder design, available from both Continental and Superior Air Parts has been used on other high-performance engines, but never before on the IO-550B. The upgraded *Liquidair*[™] Baffle Kit can be configured to accommodate this different cylinder design for overall better control of cylinder head temperatures.”



“The *Needle Bearing Rocker Arms* have demonstrated significantly reduced wear compared to the standard rocker arm bushings. The wear on conventional rocker arm bushings tends to aggravate valve guide wear in those big-bore Continental engines by side-loading the top of the valve during operation. This has been a long-standing problem resulting in loss of compression over time,” said George Braly, Head of Engineering for GAMI and TAT.



The *Needle Bearing Rocker Arms* are approved for use on specific models of IO-470, IO-520 and IO-550 engines, both naturally aspirated and turbonormalized. Availability is targeted for the summer of 2019.

Along with their *GAMIjector*® fuel injectors, these new modifications by GAMI will be offered in a custom-built *GAMISPEC 550*™ engine, assembled for GAMI by a select group of engine rebuilders according to a detailed specification. The new cylinders will receive proprietary treatments to balance flow and to provide improved tolerances on valves resulting in improved performance and durability.

The *GAMISPEC 550*™ will carry an industry-leading 3 years parts and labor warranty.

These *GAMISPEC 550*™ engines are available in naturally aspirated and turbonormalized configurations and when installed in many Beechcraft Bonanzas can qualify for substantial gross weight increases.

To order or for more information contact John-Paul Townsend, Director of Sales, GAMI. Phone: (580) 436-4833, email: john-paul@gami.com.