Tornado Alley Turbo Normalized IO-550-B
Beech Bonanza A36, F33, G36 For direct retail sales

RAM OHE of a Tornado Alley Turbo Normalized Continental IO-550-B Engine

- Horsepower - 300 hp
- TBO - 1700 Hours
- SAP Millennium Cylinders - NE
- Crankcase, heavy w/ 7th studs - OHE
- Crankshaft - OHE
- Camshaft - RAM High Efficiency - NE
- Starter - OHE
- Spark Plugs - New
- Magneto Harness - Champion - New
- Magneto - Champion Sllick 6310 - NE or Bendix - OHE as required by serial number of airplane
- Couplings - Induction Manifold - New
- Inter-cylinder baffles: Refurbished and painted - OHE
- Oil Cooler - Flushed and inspected -exchange
- Oil Filter - new
- Balance - crankshaft and rod sets - exchange

Tornado Alley Turbo Normalized STC required engine component changes:
- Fuel Pump - Overhaul customers at TAT - normal two week turn at TAT
- Fuel Controller - Overhaul customers at TAT - normal two week turn at TAT
- Starter Adapter - STC specific - add for adapter with air conditioning pulley - Customer specify - OHE
- GAMI injectors - Send customers to GAMI for reflowing - normal one week turn at GAMI
- Core Return Policy - See: RAM Exchange Core Policy on Page 2.
- Also see: RAM Value Options & Compliance Items

OHE = Overhauled Exchange
NE = New Exchange - OEM or PMA
New = New Outright - OEM or PMA
Note: New items are subject to test time, ferry time, and inventory time. Product, price, specifications, and availability subject to change without notice.

Kit Components - Packaged Separately and Included

- Air filter - RAM - new
- Baffle seal kit - RAM pre-cut SureStand red silicone rubber - new
- Throttle assembly - OHE
- Induction hose - Manifold to throttle - new
- Gasket - Throttle - new
- Tornado Alley Turbo Normalized STC required kit component:
  - Turbo Controller - STC specific - OHE
  - Turbo Charger - STC specific - OHE
  - Wastegate - STC specific - OHE
  - Overboost Relief Valve - STC specific - OHE

RAM OHE Engine
This package is for airplanes that have the TAT STC already applied.

CMG IO-550-B: $51,056
Shipped - exchange, or Custom Overhauled - exchange
Requires a Continental IO-550-B data tag be returned with the core engine. A converted IO-520 data tag is not a like core tag and requires a $3,500 replacement fee.
Additional Specifications

- **RAM Overhauled Engine TBO Warranty:**
  100% Engine and accessories for the 1st year, or 500 hrs, whichever occurs first. Thereafter, the engine only is warranted on a prorata basis to TBO at RAM's reduced minimum accrual rate of only 30 hours per month, thus extending coverage over four years. For complete details go to www.ramaircraft.com/ramtbowarranty

- **Exchange Core Policy:** Engine, crankshaft, crankcase, exhaust, accessories, propeller, governor, and hardware items are only sold on an exchange basis, based upon the customer's exchange of like type and normal run-out cores as removed from subject aircraft, and serviceable to RAM's overhaul specifications. Cores should be returned within 30 days of RAM OHE engine shipment, or immediately with a RAM installation. Non-serviceable core fees will be due and payable to RAM.

- **Items not included:** Vacuum pump, alternator, hoses, exhaust risers and exhaust parts are not included unless specified by an optional purchase order and a work order supplement issued at the time of engine order placement.

- * Starter Adapter: Customer must specify if his starter adapter has a freon compressor drive, additional cost for starter adapter with freon compressor drive and serviceable AC pulley (exchange): Add $1,600

- **Customer - Discuss the following with your RAM Representative before ordering.**
  - Tornado Alley Turbo advises that an inspection of the exhaust components is necessary at time of engine and turbo-normalizing system overhaul. Those items must be sent to TAT for inspection and will normally require a two week turnaround. Call Tornado Alley Turbo for current service costs.
  - Exhaust sent to TAT for inspection - Inspection only: $180
  - Replacement or overhaul of exhaust is an additional charge.
  - Fuel and oil hose kits are available from TAT: $1,932

Optional Parts and Engine Installation Items

- **New 100 amp Alternator Package:**
  Hartzell Engine Technologies ALV9610 with nut, thrust washer, cotter key, and overhauled Alternator clutch. When purchased with an engine RAM will install the clutch for no additional cost. (Retail $2,181) Only when purchased with a RAM engine: $1,662 each - Exchange

- **Cylinder Upgrade Options:**
  - Upgrade SAP Millennium cylinders to nickel: $1,500 per engine
  - Ask your RAM Representative for current market prices for CMG cylinders