



RAM AIRCRAFT, LP

7505 Karl May Drive • Waco Regional Airport • P.O. Box 5219 • Waco, TX 76708
Phone: (254) 752-8381 • Fax: (254) 752-3307 • www.ramaircraft.com

ENGINES • PARTS • PROPELLERS • ACCESSORIES • STC'S

Beech Bonanza C33A (1996 - 1967) / E33A/C (1968 - 1969) / F33 (1974 - 1994)

Beech Bonanza 35 (S35/V35/V35A/V35B) (1964 - 1982)

Beech Bonanza 36/A36 (1968 - 1983)

RAM Overhaul and Improvement Package (R.O.I.)

Engine - OHE Continental IO-520-BB

- | | |
|---|--|
| <ul style="list-style-type: none"> • Horsepower - 285 hp • TBO 1700 hr. • SAP Millennium Cylinders - NE • Crankcase - heavy style case - OHE
[with 7th studs on cylinder bases] • Crankshaft - OHE • Camshaft - RAM High Efficiency - NE • Starter and starter drive - OHE
[without freon compressor drive]
* see additional specifications • Spark plugs - new • Magneto harness - Champion - new • Magnetos - Champion Slick 6310 - NE • Fuel injection system - OHE • Couplings - induction manifold - new • Oil and oil filter - new • Oil cooler: Flushed and inspected - exchange • Air Filter - RAM - new • Metal Baffles - reuse customer's
[refurbished and painted] | <ul style="list-style-type: none"> • Baffle seal kit - new
[RAM <i>SureStand</i> red silicone rubber] • Intercylinder baffles - exchange
[refurbished and painted] • Throttle assembly - OHE • Throttle gasket - new • Hoses - new
[intake manifold to throttle assembly] • Precision balance - exchange
[crankshaft and rod sets] • Core Return Policy - See: RAM Exchange Core Policy on Page 2. • Also see:
RAM Value Options & Compliance Items <p>OHE = Overhauled Exchange
NE = New Exchange - OEM or PMA
New = New Outright - OEM or PMA
New Items = Subject to test time, ferry time and inventory time.</p> |
|---|--|

Installation Parts - Included

- Primary fuel, oil and induction hose kits - heavy duty - *Teflon*TM - new
- Engine shock mounts - new

Installation and Set-up

- Each aircraft receives a detailed preflight and flight inspection to ensure airworthiness and to document performance of instruments, flight controls, landing gear, accessories, lights, and avionics.
- Discrepancies are brought to customer's attention. Unairworthy items must be repaired at customer's expense during RAM proceedings in order for RAM to set up, fly, and deliver the finished product.
- Old engine is removed. Engine bed is cleaned and inspected. Four hrs. labor is standard.
- Applicable RAM R.O.I. Installation Parts are installed.
- Engine installed and set up, involving multiple flights and fuel.
- Aircraft washed. Interior cleaned prior to delivery and customer acceptance.

Bonanza A36 (1970 - 1983) (E185 - E2110)

Bonanza F33 (1974 - 1994)

One Engine Installed at RAM: \$48,956 exchange basis

- **RAM OHE CMG IO-520-BB engine**
 - **Installation Parts - Included**
 - **Installation and Set-up**
 - **Governor - Reuse Customer's**
 - **Propeller - Reuse Customer's**
- [To reuse, propellers and governors must be airworthy.]

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, crankcase, crankshaft, internal gears, 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 runout 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, 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.
- **Crankcase Upgrade:** RAM overhauls engines using only heavy crankcases. Upgrade light exchanged core crankcase to heavy crankcase. Ask your RAM Sales Consultant for current prices.
- **Crankshaft Upgrade:** RAM only uses large diameter VAR crankshafts. If the exchanged core crankshaft is not a large diameter VAR crankshaft additional upgrade charges apply. Ask your RAM Sales Consultant for current prices.
- **Customer - Discuss the following with your RAM Representative before ordering.**
 - **Aftermarket STCs:** Engine parts and accessories required by aftermarket STCs such as, but not limited to, turbo normalizing and fuel pump changes, are not included with a RAM OHE engine.
 - **Aftermarket STC Parts:** Substitution or addition of aftermarket parts is an additional charge. Please review with RAM prior to engine overhaul. Pre-shipment of aftermarket cores may be required.
 - **Fuel System:** To ensure selection of the proper fuel system, customer needs to specify the CMG engine specification number when placing an engine order.
- * **Starter Adapter:** Starter adapter with freon compressor drive - Add: \$1,600

Optional Parts and Engine Installation Items

- **Delco Remy 12 Volt Alternators:** If your aircraft is equipped with this alternator you may elect to re-use your alternator, or obtain one from another source for your installation and use. The Prestolite ALX9524 is available when installed per Beech Service Instructions No. 0184-241 Rev. 1. Ask your RAM Representative for details.
- **Cylinder Upgrade Options:**
 - Upgrade SAP Millennium cylinders to nickel: \$1,500 per engine.
 - Ask your RAM Representative for current market prices for CMG cylinders.