



RAM AIRCRAFT, LP

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ENGINES • PARTS • PROPELLERS • ACCESSORIES • STC'S

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

Bonanza F33 (1974 - 1994)

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

Engine - OHE CMI IO-520-BB

- Horsepower - 285 hp
 - TBO 1700 hr.
 - Cylinders - NE [RAM Nickel New Cylinder Package]
 - Crankcase - heavy style case - OHE [with 7th studs on cylinder bases]
 - Crankshaft - OHE
 - Camshaft - RAM
 - Alternator - exchange - one engine driven only
 - 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 - NE
 - Air Filter - RAM - new
 - Metal Baffles - reuse customer's [refurbished and painted]
 - Baffle seal kit - new [RAM *SureStand* 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 OHE CMI TSIO-520 Engine Overhaul Specifications.
 - Also see: RAM Value Options & Compliance Items
- 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.

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: **\$40,677** exchange basis

- RAM OHE CMI 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, 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.
- **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 CMI engine specification number when placing an engine order.
- * **Starter Adapter:** Starter adapter with freon compressor drive - Add: \$1,458