



# 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**

## Bonanza S35, V35, V35A/B, C33A, E33A/C, F33A/C, 36, & A36

**RAM Overhaul and Improvement Package (R.O.I.) Installed at RAM Aircraft**

### Engine - One OHE Continental IO-520 to IO-550-B Conversion STC

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| <ul style="list-style-type: none"> <li>• Horsepower: 300</li> <li>• TBO: 1700 Hours</li> <li>• SAP Millennium Cylinders - NE</li> <li>• Crankcase, heavy style with 7th studs: OHE</li> <li>• Crankshaft: NE</li> <li>• Camshaft - RAM High-Efficiency: NE</li> <li>• Starter and Starter Drive: OHE [without freon compressor drive]<br/>*see additional specification</li> <li>• Spark Plugs: New</li> <li>• Magneto Harness - Champion: New</li> <li>• Magnetos - Champion Slick 6310 (impulse coupled): NE or Bendix - OHE as required by serial number of airplane</li> <li>• Fuel Injection System with non-altitude compensation fuel pump: OHE</li> <li>• Oil Filter: New</li> <li>• Oil Cooler: Flushed and inspected - exchange</li> </ul> | <ul style="list-style-type: none"> <li>• Air Filter: New</li> <li>• Couplings - induction manifold: New</li> <li>• Hoses - intake manifold to throttle assembly: New</li> <li>• Throttle Assembly: OHE</li> <li>• Throttle Gasket: New</li> <li>• Balanced Crankshaft and Rod Sets: Exchange</li> <li>• Core Return Policy: See RAM Exchange Core Policy on Page 2.</li> <li>• Also see: <a href="#">RAM Value Options and Compliance Items</a></li> </ul> <p style="font-size: small; margin-top: 20px;">OHE = Overhauled Exchange<br/>                 NE = New Exchange - OEM or PMA<br/>                 New = New Outright - OEM or PMA<br/>                 Note: New items are subject to test time, ferry time, and inventory time. Product, price, specifications, and availability subject to change without notice.</p> |
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### Installation Parts - Included

- Engine Shock Mounts: New
- Primary fuel, oil, and induction hose kits - heavy duty - Teflon™: New
- D' Shannon Aviation High-Efficiency Baffle Cooling Kit Installed: New - 5 year warranty

### Upgrade Kit - Included

- RAM OHE Engine Conversion STC authorization documentation to convert your existing 285 hp IO-520 engine to a 300 hp IO-550 engine
- D' Shannon Aviation Upgrade Engine Installation STC, including STC Authorization Documentation, Installation Instructions and Drawings, and FAA Approved Supplemental Pilot Operating Handbook
- D' Shannon Aviation 100 lb. Gross Weight Increase

### 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](http://www.ramaircraft.com/ramtbowarranty)

## 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.
- Installation of D' Shannon Aviation High-Efficiency Baffle Cooling Kit
- Applicable RAM R.O.I. Installation Parts are installed.
- Engine installed and set up, involving multiple flights and flight fuel is included.
- Aircraft washed. Interior cleaned prior to delivery and customer acceptance.
- Remarking of serviceable MP/fuel flow gauge.

## Propeller Eligibility

- McCauley C76, C406, or C409
- Hartzell Super Scimitar PHC-C3YF-1RF/F8468 or PHC-C3YF-1RF/F8068
- Discuss with your RAM Representative propeller options and pricing

## Bonanza S35, V35, V35A/B, C33A, E33A/C, F33A/C, 36, & A36

### One Engine Installed at RAM: \$62,056 - exchange basis

(Price based on conversion of your IO-520-BB engine. For conversion of your IO-520-B/BA engine, add \$2,000)

- RAM OHE CMG IO-550-B Engine
- Installation Parts - Included
- Installation and Set-up
- Governor - Reuse Customer's
- Propeller - Reuse Customer's (See Propeller Eligibility)  
(To reuse, propeller must be eligible and propeller and governor must be airworthy.)

## Crankshaft Refund

- **Crankshaft** - If the customer provides a serviceable and overhauled CMG 550 crankshaft, deduct \$4,000 from the package price.

## Additional Specifications

- 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 will be collected from your airplane immediately during a RAM installation. Non-serviceable core fees will be invoiced, due and payable to RAM before airplane delivery.
- 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.

### 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, fuel pump changes, and turbo style oil pumps are not included with a RAM OHE engine.
- **Aftermarket STC Parts:** Substitution or addition of any 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 Continental engine specification number when placing an engine order.  
[CMG spec. numbers 33B, 37B, and 45B require a non-standard fuel system.]
- **\*Starter Adapter:** Starter adapter with freon compressor drive - Add: \$1,600
- **Upgrade** to fine wire spark plugs - Add: \$864

## Optional Parts and Engine Installation Items

- **New 24v, 100 amp Alternator Package** for airplanes with existing 100 amp alternators: 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
- **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 on your alternator options.**
- **Cylinder Upgrade Options:**
  - Upgrade SAP Millennium cylinders to nickel: \$1,500 per engine.
  - Ask your RAM Representative for current market prices for CMG cylinders.

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