



**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.

## Upgrade Kit - Included - 421B

- Propellers - Select a 421B Package: ...Option 1 ...or, Option 2 ...or, Option 3
- Governors - McCauley MC-1 - exchange
- Right propeller control cable - [ when applicable ] - new
- Propeller Synchrophaser - RAM RPS2000 - [ DER approved ] - new
- Shadin Digiflo-L Electronic Fuel Management System [ without RAM connecting the avionics interface ] - new
- EGT gauge range marked - new [ with probes - new ] [ Leads as required. ]
- 3-in-1 engine gauges - check calibration and range mark
- RAM STC - Cruise climb @ 35" MP / 1950 rpm MP - check calibration and range mark

## 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 engines are removed. Engine beds are cleaned. Mount structures are inspected and corrosion treated. Four hours labor per engine is standard.
- Due to its tendency to contaminate the engine oil supply, if installed, the propeller unfeathering accumulators will be disabled unless optionally replaced with a newer unit. OHE: \$875 / each
- Applicable RAM R.O.I. Installation Parts and Upgrade Kit are installed.
- Engines installed and set up, involving multiple flights and fuel.
- Aircraft washed. Interior cleaned prior to delivery and customer acceptance.
- Remove, clean, and reinstall the air/oil separators on all 421C and late model 421B (after serial number 500).

## Prop Option

- New Hartzell C3D-050 propellers - [ with new spinners, bulkheads and de-ice ] - NE Hartzell has greatly improved the accuracy of manufacturing, reducing blade-to-blade weight and aerodynamics variability and ensuring blades that are free from even the most miniscule surface flaws. The end results for pilots and passengers is smoother running propellers.

## Optional Parts and Engine Installation Items

- **New 100 amp Alternator Package:**  
Hartzell Engine Technologies ALV9610 with nut, thrust washer, cotter key, and New PMA Alternator clutch. When purchased with an engine RAM will install for no additional cost. (Retail \$2,444) Only when purchased with a RAM engine: \$1,462 each - Exchange
- **Cooling Shroud Kit** for dry vacuum pump - New: \$55 each

### Cessna 421B

#### Three Complete RAM ( R.O.I. ) Packages

Installed at RAM - exchange

- RAM OHE CMI GTSIO-520-H engines
- Installation Parts - Included
- Installation and Set-up
- Governors - McCauley MC-1 - exchange
- Propellers - Select an option by propeller: 1, 2 or 3
- **RAM ( R.O.I. ) Option 1.....\$153,208**  
Reuse Customer's Propellers [ To reuse, propellers must be airworthy. ]
- **RAM ( R.O.I. ) Option 2.....\$163,757**  
Overhaul Customer's Propellers  
[ Overhaul is a condition item ] [ Additional charges apply if OH exceeds \$4,500/each. ]
- **RAM ( R.O.I. ) Option 3.....\$175,840**  
Hartzell - New Propellers - NE  
[ with new spinners, bulkheads & De-ice boots ] [ reuse slip ring ]  
OR  
McCauley C516 - New Propellers - NE [ add additional \$4,093 ]  
[ without spinners, bulkheads ] [ includes De-ice boots - new ] [ reuse slip ring ]

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