



RAM AIRCRAFT, LP

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ENGINES • PARTS • PROPELLERS • ACCESSORIES • STC'S

Cessna 421C [1976 - 1980] [S/N 0001 - 0910] RAM Overhaul & Improvement Package (R.O.I.)

Two Engines - OHE CMI GTSIO-520-L

- Horsepower - 375 hp
- TBO - 1600 hrs.
- Cylinders - NE
 [RAM Nickel New Cylinder Package]
- Crankcase - heavy style case - OHE
 [with 7th studs on cylinder bases]
- Crankshaft - OHE
- Camshaft - NE
- Propeller shaft, quill shaft,
 and reduction gear - OHE
- Alternator - exchange
- Starter and starter drive - OHE
- CMI/Bendix Magnetos - OHE
 [non pressurized]
- Spark plugs - new
- Magneto harness - Champion - new
- Fuel injection system - OHE
- Turbocharger - OHE
- Turbo controller - OHE
- Overboost relief valve - OHE
- Intercooler - exchange
 [inspect and repair]
- Induction couplings - new
- Air filter - RAM - new
- Metal baffles - exchange
 [refurbished and painted]
- Baffle Seals - new
 [RAM SureStand red silicone rubber]
- Cooling shroud - RAM - new
 [for dry vacuum pump]
- Oil cooler - NE
- 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

- Wastegates and actuators - RAM - OHE
- Engine shock mounts - new
- Induction ducts - turbo outlet and inlet - new
- Exhaust slip-joints - PMA - new
- Air / oil separator - inspected and repaired - exchange
- Coupler - turbo to throttle body - new
- Primary fuel & oil and hydraulic hose kits - heavy duty - Teflon™ - new

RAM Overhauled Engine TBO Warranty

100% Engine, propeller, 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

Upgrade Kit - Included - 421C

- Propellers - Select an option: 1, 2 or 3
- Governors - McCauley MC-1 - exchange
- Right propeller control cable - [S/N-0001 - 0800] - new
- Propeller Synchrophaser - RAM RPS2000 - [DER approved] - new
- Shadin Digiflo-L Electronic Fuel Management
[without RAM connection of avionics interface] - new
- EGT gauge range marked - new [with probes - new] [Leads as required.]
- 3-in-1 engine gauges - check calibration and range mark
- Serviceable (non TAS) Airspeed Indicators - remarked
[if TAS currently installed - consult RAM representative.]
- RAM STC - Cruise climb @ 35" MP / 1900 rpm MP - check calibration and range mark
- Gross Weight Increase STC and Flight Manual Supplement
[+ 110 lbs. Useful load] [GW to 7,560 lbs.] [Ramp Wt. to 7,610 lbs.]

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).

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Three Complete RAM (R.O.I.) Packages Installed at RAM - exchange

- **RAM OHE CMI GTSIO-520-L 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\$128,936**
Reuse Customer's Propellers
[To reuse, propellers must be airworthy.] Governors are McCauley MC-1 - exchange.
- **RAM (R.O.I.) Option 2\$139,190**
Overhaul Customer's Propellers
[Overhaul is a condition item]
[Additional charges apply if OH exceeds \$4,500/each.]
- **RAM (R.O.I.) Option 3\$148,097**
(a.) Hartzell - New Propellers - NE
[Includes De-ice boots and leads - new] [Spinners and bulkheads - NE] [reuse slip ring]
OR
(b.) McCauley C501 - New Propellers - NE [add additional \$8,713]
[without spinners, bulkheads] [includes De-ice boots - new] [reuse slip ring]