



## RAM AIRCRAFT, LP

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**ENGINES • PARTS • PROPELLERS • ACCESSORIES • STC'S**

### Cessna 421C [ 1981 - 1985 ] [ S/N 1001 - 1807 ] RAM Overhaul & Improvement Package ( R.O.I. )

#### Two Engines - OHE CMI GTSIO-520-N

- 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
- Right hand prop cable - PMA - 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](http://www.ramaircraft.com/ramtbowarranty)

## Upgrade Kit - Included - 421C

- Propellers - Select a propeller option: 1, 2 or 3
- Governors - McCauley MC-1 - exchange
- Propeller Synchrophaser - RAM RPS2000 - [ DER approved ] - new
- Shadin Digiflo-L Electronic Fuel Management  
[ 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
- 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).

## Cessna 421C [ 1981 - 1985 ] [ S/N 1001 - 1807 ]

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

#### Installed at RAM - exchange

- **RAM OHE CMI GTSIO-520-N 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 .....\$133,889**  
Reuse Customer's Propellers  
[ To reuse, propellers must be airworthy. ] Governors are McCauley MC-1 - exchange.
- **RAM ( R.O.I. ) Option 2 .....\$144,889**  
Overhaul Customer's Propellers  
[ Overhaul is a condition item ]  
[ Additional charges apply if OH exceeds \$4,500/each. ]
- **RAM ( R.O.I. ) Option 3 .....\$154,293**  
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 ]