



## RAM AIRCRAFT, LP

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

### Cessna 421B One Engine Installation at RAM

#### One OHE Continental GTSIO-520-H Engine [ Specify Side ]

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| <ul style="list-style-type: none"> <li>• Horsepower: 375</li> <li>• TBO - 1600 hrs.</li> <li>• Cylinders - NE<br/>[ RAM New Cylinder Package ]</li> <li>• Crankcase - heavy style case - OHE<br/>[ with 7th studs on cylinder bases ]</li> <li>• Crankshaft - OHE</li> <li>• Camshaft - NE</li> <li>• Propeller shaft, quill shaft,<br/>and reduction gear - OHE</li> <li>• Starter and starter drive - OHE</li> <li>• CMI/Bendix Magnetos - OHE</li> <li>• Spark plugs - new</li> <li>• Magneto harness - Champion - new</li> <li>• Fuel injection system - OHE</li> <li>• Turbocharger - OHE</li> <li>• Turbo controller - OHE</li> <li>• Overboost relief valve - OHE</li> <li>• Intercooler - exchange<br/>[ inspected and repaired ]</li> </ul> | <ul style="list-style-type: none"> <li>• Induction couplings - new</li> <li>• Air filter - new</li> <li>• Metal baffles - exchange<br/>[ refurbished and painted ]</li> <li>• Baffle Seals - new<br/>[ RAM <i>SureStand</i> red silicone rubber ]</li> <li>• Air / oil separator - exchange<br/>[ inspected and repaired ]</li> <li>• Oil cooler: Flushed and<br/>inspected - exchange</li> <li>• Precision balance - exchange<br/>[ crankshaft and rod sets ]</li> <li>• Core Return Policy - See: RAM<br/>Exchange Core Policy on Page 2.</li> <li>• Also see:<br/><a href="#">RAM Value Options &amp; Compliance Items.</a></li> </ul> <p>OHE = Overhauled Exchange<br/>NE = New Exchange - OEM or PMA<br/>New = New Outright - OEM or PMA<br/>New Items = Subject to test time,<br/>ferry time and inventory time.</p> |
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#### Installation Parts - Included

- Propeller - reuse customer's [ flush and reuse serviceable propeller ]
- Governor - reuse customer's [ flush and reuse serviceable governor ]
- Wastegate and actuator assembly - RAM OHE
- Induction ducts - new [ turbo outlet and inlet ]
- Engine shock mounts - one set of four - new
- Exhaust slip joint - one - new
- Engine 3-in1 gauge - check calibration [ for engine being installed ]
- EGT probe - new [ If stock OEM EGT gauge is installed, use Alcor part number 86156 ]  
[ If RAM EGT gauge is installed, use RAM part number 86255 ]
- Primary fuel and oil hose kit - new [ Heavy duty *Teflon*™ hoses - w/integral firesleeve ]

#### 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)

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.

## Installation and Set-up

- Each aircraft receives a detailed preflight and high altitude 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. Mount structure is inspected and corrosion treated. Four hours labor is standard.
- Due to its tendency to contaminate the engine oil supply, if installed, the propeller unfeathering accumulator will be disabled unless optionally replaced with a newer unit. OHE: \$875
- Applicable one engine installation parts are installed.
- Engine is installed and set up, which includes multiple high altitude test flights. Fuel for flying both engines is included; however, adjustments or maintenance to the remaining engine, or to the aircraft, are not included in this package price.
- 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).

## 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

## One Engine

**Installation at RAM: \$75,965** exchange basis

- **RAM OHE CMI GTSIO-520-H engine**
- **Installation Parts - Included**
- **Installation and Set-up**
- **Reuse Customer's propeller and governor**  
[ Propeller and governor must be airworthy. ]

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