



## RAM AIRCRAFT, LP

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

### GTSIO-520-H Cessna 421B

#### RAM OHE CMI GTSIO-520-H

- Horsepower - 375 hp
- TBO - 1600 hrs.
- RAM *Nickel New* Cylinders - NE
- Crankcase - w/7th studs on heavy style case, like core required - OHE
- Propeller shaft, quill shaft, and reduction gear - OHE
- Crankshaft - OHE
- Camshaft - NE
- Alternator - exchange
- Starter and starter drive - OHE
- Spark plugs - new
- Magneto harness - Champion - new
- CMI/Bendix Magnetos - OHE [ non - pressurized ]
- Fuel injection system - OHE
- Induction couplings on the intake manifold - new
- Metal baffles - refurbished and painted - exchange
- Air Oil Separator - inspected and repair - exchange
- Baffle Seals - RAM *SureStand* red silicone rubber - new
- Oil cooler - NE
- Balance: crankshaft and rod sets - exchange
- Core Return Policy - See: RAM OHE CMI GTSIO-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.

#### Kit Components - Packaged Separately and Included

- Engine oil - break-in oil - new
- Oil filter - new
- Coupler - throttle body to turbo - new
- Throttle and control assembly - OHE
- Turbocharger - OHE
- Turbo controller - OHE
- Overboost relief valve - OHE
- Intercooler - inspected and repaired - exchange
- Air filter - new
- Cooling shroud for dry vacuum pump - RAM kit - new
- Spare accessory gasket set - new

#### RAM OHE Engine CMI GTSIO-520-H: \$50,640

Shipped - exchange, or Custom Overhauled - exchange

## Additional Specifications

- **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.
- **Items not included:** Vacuum pump, tach generator, hoses, wastegate, exhaust risers and exhaust parts are not included unless specified by a RAM Work Order Supplement.
- **Crankcase Upgrade:** RAM overhauls engines using only heavy crankcases. Upgrade light crankcase to heavy crankcase. Ask your RAM sales representative for current price.
- **See RAM literature sheets:**  
Value Options & Compliance Items.  
RAM OHE CMI GTSIO-520 Engine Overhaul Specifications and Exchange Engine Core Policy.

## Caution

- Your air / oil separator must be properly cleaned prior to starting your newly installed engine. Send your separator to RAM for a proper cleaning at no additional charge or use the suggested field cleaning procedures outlined in the Service Tips for Cessna 421 Air / Oil Separators. Failure to properly clean the air / oil separator may result in engine contamination and failure not covered under the RAM Warranty.

## Optional Parts and Engine Installation Items

- **Wastegate and actuator:** Each - OHE: \$1,661 [ Core Charge: \$275 ]
- **Engine shock mounts:** Engine Set of ( 4 ) - new: \$836
- **Engine control cables:** Throttle, Prop, Mixture and Alternate air. RAM PMA-New: Call
- **Exhaust slip joint:** 421B type with hardware. PMA-New: \$495 each
- **Hose kits - Teflon™** with Integral firesleeve
  - Fuel & Oil primary hoses - per engine - new: \$1,850
  - Air conditioning - new: \$373
- **Propeller unfeathering accumulator:** Source for contaminating engine oil. RAM recommends older accumulator be disabled unless replaced by a newer unit. Each - OHE: \$875 [ Core Charge: \$400 ]
- **Duct:** Turbo to intercooler (LH), induction air: \$746 PN: 1213-1
- **Duct:** Turbo to intercooler (RH), induction air: \$746 PN: 1213-2
- Upgrade from standard massive plugs to fine wire spark plugs. Per engine - new: \$870
- **RAM Parts Catalog:** Engine and installation parts. Ask for a free copy.