



## RAM AIRCRAFT, LP

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

### TSIO-520-EB

**Cessna 402B and Cessna T310/320**

#### RAM OHE CMI TSIO-520-EB

- Horsepower - 300 hp
  - TBO - 1400
  - RAM *Nickel New* Cylinders - NE
  - Crankcase - heavy w/ 7th studs - OHE
  - Crankshaft - OHE
  - Camshaft - RAM
  - Alternator - exchange
  - Starter and starter drive - OHE
  - Spark plugs - new
  - Magneto harness - Champion - new
  - Magnetos - Champion Slick 6320 - NE [ pressurized ]
  - Fuel injection system - OHE
  - Oil filter - new
  - Induction couplings intake manifold - new
  - Metal baffles - refurbished and painted - exchange
  - Baffle seals - RAM *SureStand* red silicone rubber - new
  - Oil cooler - NE
  - Air/oil separator - inspected and repaired - exchange
  - Balance - crankshaft and rod sets - exchange
  - 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.

#### Kit Components - Packaged Separately and Included

- Engine oil - break-in oil - new
- Hoses - intake manifold to throttle body - new
- Coupler - throttle body to turbo - new
- Throttle and control assembly - OHE
- Turbocharger - OHE
- Turbo controller - OHE
- Overboost relief valve - OHE
- Air filter - RAM - new
- Cooling shroud for dry vacuum pump - RAM - new
- Spare accessory gasket set - new

#### RAM OHE Engine

**CMI TSIO-520-EB: \$38,796**

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 exchanged core crankcase to heavy crankcase. Ask your RAM Sales Consultant for current prices.
- **Crankshaft Upgrade:** RAM only uses large diameter VAR crankshafts. If the exchanged core crankshaft is not a large diameter VAR crankshaft additional upgrade charges apply. Ask your RAM Sales Consultant for current prices.
- **Please see:**  
[RAM Value Options and Compliance Items.](#)  
[RAM TSIO-520 Engine Overhaul Specifications with Exchange Engine Core Policy.](#)

## Optional Parts and Engine Installation Items

- **Wastegate and actuator** - Each - OHE: \$1,679 [ Core Charge: \$275 ]
- **Engine shock mounts** - Engine Set of ( 4 ) - new: \$828
- **Exhaust slip joint** - w /hardware - each - RAM PMA new: \$343
- **Exhaust risers** - Stainless steel - Engine Set - PMA new: \$1,350  
[ two per engine \$675 per side ]
- **Fuel & Oil - Primary Hose Kit** - *Teflon™* w/ integral firesleeve  
Engine set - new: ...402B: \$1,154 ...T310 / 320: \$1,221
- **Propeller unfeathering accumulator** - Source for contaminating the engine oil supply. RAM recommends older accumulator be disabled unless replaced by a newer unit. Each - OHE: \$875 [ Core Charge: \$400 ]
- **Engine control cables** - throttle, prop, mixture, alternate air, and cowl flaps - Each - RAM PMA new: Call
- **RAM Parts Catalog** - Additional engine & installation parts. Ask for a free copy.
- Upgrade from standard massive plugs to fine wire spark plugs. Per engine - new: \$870

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