



RAM AIRCRAFT, LP

7505 Karl May Drive • Waco Regional Airport • P.O. Box 5219 • Waco, TX 76708
Phone: (254) 752-8381 • Fax: (254) 752-3307 • www.ramaircraft.com

ENGINES • PARTS • PROPELLERS • ACCESSORIES • STC'S

TSIO-520-NB

**Cessna 340/A & 414/A
& RAM 325 hp T310 / 320**

RAM OHE CMI TSIO-520-NB

- Horsepowers:
310 hp, or 325 hp, or 335 hp.
Set up per factory specifications,
or per applicable RAM STC's.
 - TBO - 1600 hrs.
 - 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
 - Breather, rod, and cap are
Stainless steel - OHE
 - 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
- Coupler - throttle body to intake - new
- Throttle and control assembly - OHE
- Turbocharger - OHE
- Turbo controller - OHE
- Overboost relief valve - OHE
- Intercooler - inspected and repaired - exchange
- Induction flex elbows,
from intercooler to intake manifold - new
- Air filter - RAM - new
- RAM cooling shroud for dry vacuum pump - new
- Spare accessory gasket set - new

RAM OHE Engine

CMI TSIO-520-NB: \$45,948

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
- **One Engine at a Time:**
Anticipating an upgrade from 310 hp to a 325 hp or 335 hp RAM Upgrade Package, purchase one engine now. Match it in the future with a second RAM OHE engine.
The first RAM engine will be set-up to deliver 310 hp. Later when paired with a 2nd RAM OHE engine, both will be tuned to the higher horsepower as applicable to the STCs and propeller options appropriate to the specific STC'd horsepower upgrade.
- **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.

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
- Engine control cables - throttle, prop, mixture, alternate air, and cowl flaps - each - RAM PMA new: Call
- Exhaust slip joint w/hardware - each - RAM PMA new: \$343
- Exhaust risers - Stainless steel - PMA new: \$1,350
[2 per engine @ \$675 each]
- Fuel and oil - primary hose kit - *Teflon*[™] with integral fire sleeve - per engine - new:
340: \$1,371 340A: \$1,296 414: \$1,443 414A: \$1,355
- Propeller unfeathering accumulator:
Source for contaminating engine oil.
RAM recommends older accumulator be disabled unless replaced by a newer unit. [Core charge: \$400]
Each - OHE: \$875
- Vacuum pumps - Dry type -Tempest AA442CW
Each - NE: \$1,535 [Core charge: \$100]
- Upgrade from standard massive plugs to fine wire spark plugs. Per engine - new: \$870
- RAM Parts Catalog - Additional parts. Ask for a free copy.

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