



RAM AIRCRAFT, LP

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ENGINES • PARTS • PROPELLERS • ACCESSORIES • STC'S

RAM OHE Continental IO-520 Engine Overhaul Specifications

RAM OHE IO-520 engine - exchange

- Engine dynamic parts and tolerances overhauled within new limits per CMG overhaul manual, or better per RAM specs.
- Certified crankcase housing used that meets RAM's standards for application and installation of new internal parts or parts overhauled to new limit tolerances - OHE
- Comply with all AD's.
- Comply with Service Bulletins through category three (3).
- Applicable steel parts magnaflux inspected.
- All engine counterweights, gears and castings replaced as required.
- Rod and rocker arm bushings, bearings, seals, valve springs, valve keepers, intake & exhaust valves - new
- Cylinders - RAM New Steel Cylinder Package - NE
- Intake valve seats - venturi type (rounded)
- Intake valve guides - with improved oil control seals.
- Rocker arm boss - strengthened.
- Cylinders - flow and volumetric efficiency assured by RAM Vendor specifications. Connecting rod cap to rod mating surfaces resurfaced and honed to new limit tolerances.
- All grind areas are steel shot peened.
- Rods are balanced for both total weight and end weight to within one (1) gram maximum weight variance between the heaviest and lightest per set of six rod assemblies.
- Balance: pistons & rings by vendor specs; pins RAM specs. - exchange
- Push rod housing and applicable external steel hardware are cadmium plated.
- External aluminum parts - primed and painted.
- Crankcase - heavy - incorporates RAM's 7th stud cylinder pad to cylinder base hold down/clamp assembly
- Camshaft: RAM - High-efficiency lobe profiles offer reduced valve train loads and improved fuel economy.
- Crankshaft - to new limit tolerances at std., or .010 under - OHE
- Crankshaft assembly with counterweights, bushings, pins and internal gears installed - balanced. RAM specification.
- Exchange Core Crankshaft must be a VAR type - OHE
- CMI SB97-6 through bolt service bulletin complied with/alternate STC compliance.
- Cylinder pad through bolts - new

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.

Fine Wire Spark Plugs

Made of iridium alloy, these spark plugs produce a more efficient spark for extended plug life and better engine performance. Upgrade from standard massive plugs to fine wire spark plugs. Per engine - new: \$900

Accessory Specifications:

- Starter and starter drive - OHE
- Magnetos - Champion Slick 6310 - OHE
- Magneto Harness - Champion - new
- Spark plugs - new
- Fuel injection system - OHE
- Throttle Body - OHE
- Induction couplings, clamps and duct - new
- Air filter - new
- Metal baffles - refurbished and painted intercylinder baffles only.
- Baffle seals - RAM *SureStand* - red silicone rubber - new
- Oil cooler: Flushed and inspected - exchange
- Oil filter when applicable - new
- Oil pressure relief valve kit and spring - new
- Subject to Change: Specifications are subject to change due to availability of PMA new or factory new parts; vendor, factory, or RAM overhauled parts; or re-use of low-time parts at customer's request. As applicable to RAM's FAA approved DER, DAR, STC and PMA authority, parts or procedure changes will be made at RAM's discretion when in the customer's best interest.

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Not Included:

Vacuum pump, alternator, tach generator, hoses, exhaust risers and other exhaust parts are not included with the RAM OHE engine unless specified by a RAM Work Order Supplement.

Exchange Cores - Return Policy:

- Engine, crankshaft, crankcase, 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 run-out cores as removed from subject aircraft, and serviceable to RAM's engine overhaul specifications.
- Cores should be returned within 30 days of engine shipment, and immediately with a RAM installation.
- Non-serviceable core fees may be due and payable to RAM. OHE engines and RAM products may be delivered prior to verification of exchanged cores.
- If cores are found non-serviceable, the applicable non core fee will be invoiced with payment due to RAM within 30 days.

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

Unfeathering Accumulator:

Due to propensity for older prop unfeathering accumulators to contaminate the engine oil supply, existing unfeathering accumulators will be disabled, unless replaced with newer units.

OHE: \$875 / each [Core Charge: \$400 /each]