



# 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**

## RAM OHE TCM IO-550 Engine Overhaul Specifications

### RAM OHE IO-550 engine - exchange

- Engine dynamic parts and tolerances overhauled within new limits per TCM overhaul manual, or better per RAM specifications
  - 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
  - Oil pump - oil passages ported for improved oil system total flow.
  - 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.
  - New - rod & rocker arm bushings, bearings, seals, valve springs, valve keepers, intake & exhaust valves
  - Cylinders - RAM *Nickel New 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 - new
  - Connecting rod cap to rod mating surfaces resurfaced and honed to new limit tolerances
  - All grind areas are steel shot peened
  - Rods balanced - exchange - [ TCM spec. ]
  - Balance: pistons & rings by vendor specs; pins RAM specs. - exchange
  - Push rod housing and applicable external steel hardware cadmium plated. External aluminum parts - primed and painted
  - Crankcase - heavy - incorporates RAM's 7th stud cylinder pad to cylinder base hold down/clamp assembly - OHE
  - Camshaft: RAM - PMA new - exchange [ Higher efficiency lobe profiles offer reduced valve train loads and improved fuel economy. ]
  - Crankshaft to new limit tolerances at std., or .010 under
  - Crankshaft assembly with counterweights, bushings, pins and internal gears installed - balanced to RAM specifications.
  - TCM SB97-6 through bolt service bulletin complied with alternate STC compliance. Cylinder pad through bolts - new
  - Nuts, rod bolts & RAM specified locknuts - 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: \$600

## Accessory Specifications:

- Alternator - OHE  
[ exchange serviceable clutch ]
- Starter and starter drive - OHE
- Magnetos - Unison Slick 6310 - NE
- Magneto harness - Unison - 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 intercyylinder baffles only.
- Baffle seals - RAM *SureStand* - red silicone rubber - new
- Oil cooler - NE
- Oil - new
- Oil filter - 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, tach generator, hoses, exhaust risers and 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 overhaul engine specifications.
- Cores should be returned within 30 days of RAM OHE engine shipment, or immediately with a RAM installation.
- Non-serviceable core fees may be due and payable to RAM. Engines or 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 TBO Warranty Support Program:

- 100% Engine, Accessories, propellers 1st year, or 350 hours, whichever occurs first.
- 100% Engine only through 2nd year, or 700 hours, whichever occurs first. Thereafter, the RAM engine only is warranted to TBO on a prorata basis, at RAM's reduced minimum accrual rate of only 23 hours per month, thus extending warranty coverage out to six years.
- RAM warranty may be administered by a full service FBO - based upon the manufacturer's published labor time schedules as well as RAM's current parts and labor rates. RAM's portion of warranty parts freight is limited to transportation taking place within Continental United States, Alaska and Hawaii.

## Unfeathering Accumulator:

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

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