



## RAM AIRCRAFT, LP

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

### RAM OHE CMI IO-550-N (Cirrus SR22) Engine Overhaul Specifications

#### RAM OHE IO-550-N Cirrus SR22 Engine - exchange

- Engine dynamic parts and tolerances overhauled within new limits per CMI 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 - 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 and rocker arm bushings, bearings, seals, valve springs, valve keepers, intake, and 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
- Connecting rod cap to rod mating surfaces resurfaced and honed to new limit tolerances
- All grind areas are steel shot peened
- Rods balanced - exchange - [ CMI spec. ]
- Balance: pistons and 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 - 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 to RAM specifications.
- Exchange Core Crankshaft must be a VAR type - OHE
- CMI nuts, rod bolts, and 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: \$870

## Accessory Specifications:

- Alternator - Primary only - exchnage
- Starter with relay - NE
- Starter drive - OHE
- Magnetos - CMI - OHE
- Magneto harness - Champion - new
- Spark plugs - new
- Fuel injection system - OHE
- Throttle Body - OHE
- Induction couplings, clamps, and duct - new
- Air filter - 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:

Magneto sensor assembly, secondary alternator, A/C compressor, prop governor, hoses, exhaust risers and exhaust parts are not included unless specified by an optional purchase order and a RAM Work Order Supplement issued at the time of engine order placement.

## 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 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)