



## RAM AIRCRAFT, LP

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

### Cessna 414A

**RAM Liquid-Cooled Package - For Returning RAM - Series V  
RAM Overhaul & Improvement Package ( R.O.I. )**

#### Two Engines - OHE CMI TSIOL-550A

- Horsepower - 350 hp
- TBO - 2,000 hrs.
- Cylinders - NE  
[ RAM Nickel New Cylinder Package ]
- Crankcase - heavy style case - OHE  
[ with 7th studs on cylinder bases ]
- Crankshaft - OHE
- Camshaft - RAM high-efficiency
- Alternator - exchange
- Starter and starter drive - OHE
- Spark plugs - new
- Magneto harness - Champion - new
- Magnetos - Champion Slick 6320 - NE  
[ pressurized ]
- Fuel injection system - OHE
- Hoses - new  
[ intake manifold w/ clamps ]
- Oil filter - new
- Air filter - new
- Air / oil separator - exchange  
[ cleaned, inspected and repaired ]
- Engine Oil - break-in - new
- Throttle and control assembly - OHE
- Fuel pressure regulator - OHE
- Turbocharger - OHE
- Turbo controller - OHE
- Overboost relief valve - OHE
- Oil cooler - NE
- Induction flex elbows -- new  
[ intercooler to manifold ]
- Intercooler - exchange  
[ clean and pressure test ]
- Cooling shroud - RAM new  
[ for dry vacuum pump ]
- Precision balance - exchange  
[ crankshaft and rod sets ]

#### Liquid Cooling System

- Coolant tank - exchange  
[ test, inspect and refurbish ]
- Liquid coolant pump - OHE
- Coolant - new
- Hoses - new  
[ SCAT and SCEET from NACA duct ]  
[ to cooling wye, vacuum pump shroud, ]  
[ fuel flow manifold, alternator, ]  
[ and riser heat shield. ]
- 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.

#### Installation Parts - Included

- Propellers - Overhaul Customer's [ Additional charge if OH exceeds \$4,500 / each. ]
- Governors - Overhaul Customer's [ Additional charge if OH exceeds \$1,005 / each. ]
- Primary fuel, oil and hydraulic hose kits - new  
[ Heavy duty Teflon™ hoses - w/integral firesleeve ]
- Wastegate and actuator assembly - RAM OHE
- Induction ducts - turbo outlet and inlet - new
- Engine shock mounts - two engine sets - new
- Exhaust slip joint - two engine sets - new
- Engine 3-in-1 gauge - check calibration
- Heat shields - exhaust risers - new

## 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 five years. For complete details go to [www.ramaircraft.com/ramtbowarranty](http://www.ramaircraft.com/ramtbowarranty)

## Installation and Set-up

- Each aircraft receives a detailed preflight and flight inspection to ensure airworthiness and to document performance of instruments, flight controls, landing gear, accessories, lights, and avionics.
- Discrepancies are brought to customer's attention. Unairworthy items must be repaired at customer's expense during RAM proceedings in order for RAM to set up, fly, and deliver the finished product.
- Old engines are removed. Engine beds are cleaned. Mount structures are inspected and corrosion treated. Four hours labor is standard per engine.
- Coolant systems are flushed and inspected.
- Note: Replacement of unserviceable coolant system components is not included.
- Standard Installation parts are installed.
- Engines are installed and set up, which includes multiple flights and fuel.
- Aircraft is washed and interior cleaned prior to delivery and customer's acceptance.

## Cessna 414A

### Returning RAM - Series V - \$174,863

Installed at RAM - exchange

- **RAM OHE CMI TSIOL-550A**  
*Liquid-Cooled Engines - Series V - 350 hp*
- **Installation Parts - Included**
- **Installation and Set-up**

## Important Information

- RAM delivery dates and ability to provide warranty and customer service is dependant on parts provided by the factory (OEM). There have been long delays awaiting required parts. The customer must agree that RAM is not responsible for the aircraft down time or inconvenience caused by delays in support.

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