



## RAM AIRCRAFT, LP

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

### Cessna 414A Liquid Cooled - RAM Series V One Engine Installation at RAM

#### One OHE CMI TSIOL-550A [ Specify Side ]

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| <ul style="list-style-type: none"> <li>• Horsepower - 350 hp</li> <li>• TBO - 2,000 hrs.</li> <li>• Cylinders - NE<br/>[ RAM Nickel New Cylinder Package ]</li> <li>• Crankcase - heavy style case - OHE<br/>[ with 7th studs on cylinder bases ]</li> <li>• Crankshaft - OHE</li> <li>• Camshaft - RAM high-efficiency</li> <li>• Alternator - exchange</li> <li>• Starter and starter drive - OHE</li> <li>• Spark plugs - new</li> <li>• Magneto harness - Champion - new</li> <li>• Magnetos - Champion Slick 6320 - NE<br/>[ pressurized ]</li> <li>• Fuel injection system - OHE</li> <li>• Hoses - new<br/>[ intake manifold w/ clamps ]</li> <li>• Oil filter - new</li> <li>• Air / oil separator - exchange<br/>[ inspected and repaired ]</li> <li>• Coolant tank - exchange<br/>[ test, inspect and refurbish ]</li> <li>• Liquid coolant pump - OHE</li> <li>• Engine oil - break-in - new</li> <li>• Throttle and control assembly - OHE</li> </ul> | <ul style="list-style-type: none"> <li>• Fuel pressure regulator - OHE</li> <li>• Turbocharger - OHE</li> <li>• Turbo controller - OHE</li> <li>• Overboost relief valve - OHE</li> <li>• Oil cooler - NE</li> <li>• Coolant - new</li> <li>• Induction flex elbows -- new<br/>[ intercooler to manifold ]</li> <li>• Intercooler - exchange<br/>[ clean and pressure test ]</li> <li>• Air filter - new</li> <li>• Cooling shroud - RAM new<br/>[ for dry vacuum pump ]</li> <li>• Hoses - new<br/>[ SCAT and SCEET from NACA duct ]<br/>[ to cooling wye, vacuum pump shroud, ]<br/>[ fuel flow manifold, alternator, ]<br/>[ and riser heat shield. ]</li> <li>• Precision balance - exchange<br/>[ crankshaft and rod sets ]</li> <li>• Core Return Policy - See:<br/>RAM OHE CMI TSIOL-550A<br/>Engine Overhaul Specifications.</li> <li>• Also see:<br/>RAM Value Options &amp; Compliance Items<br/>OHE = Overhauled Exchange<br/>NE = New Exchange - OEM or PMA<br/>New = New Outright - OEM or PMA<br/>New Items = Subject to test time,<br/>ferry time and inventory time.</li> </ul> |
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#### Installation Parts - Included

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| <ul style="list-style-type: none"> <li>• Propeller - reuse customer's<br/>[ flush and reuse serviceable propeller ]</li> <li>• Governor - reuse customer's<br/>[ flush and reuse serviceable governor ]</li> <li>• Wastegate and actuator assembly - RAM OHE</li> <li>• Induction ducts - turbo outlet and inlet - new</li> <li>• Engine shock mounts - one set of four - new</li> </ul> | <ul style="list-style-type: none"> <li>• Exhaust slip joint - one set of two - new</li> <li>• Engine 3-in1 gauge - check calibration<br/>[ for engine being installed ]</li> <li>• EGT probe - new</li> <li>• Primary fuel and oil hose kit - new<br/>[ Heavy duty Teflon™ hoses -<br/>w/integral firesleeve ]</li> </ul> |
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## 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)

## Installation and Set-up

- Each aircraft receives a detailed preflight and high altitude 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 engine is removed. Engine bed is cleaned. Mount structure is inspected and corrosion treated. Four hours labor is standard.
- Coolant system is flushed and inspected.
- Not Included:
  - Replacement of unserviceable coolant system components is not included.
- Applicable one engine installation parts are installed.
- Engine is installed and set up, which includes multiple high altitude test flights. Fuel for flying both engines is included; however, adjustments or maintenance to the remaining engine, or to the aircraft, are not included in this package price.
- Aircraft washed. Interior cleaned prior to delivery and customer's acceptance.

## One Engine

**Installation at RAM: \$87,431** exchange basis

- **RAM OHE CMI TSIOL-550A - *Liquid Cooled* engine**
- **Installation Parts - Included**
- **Installation and Set-up**
- **Reuse Customer's propeller and governor**  
[ Propeller and governor must be airworthy. ]

## Important Information

- RAM delivery dates and ability to provide warranty and customer service is dependant on parts provided by the factory (OEM). There has 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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