

# Maxwell Propulsion Systems, Inc.

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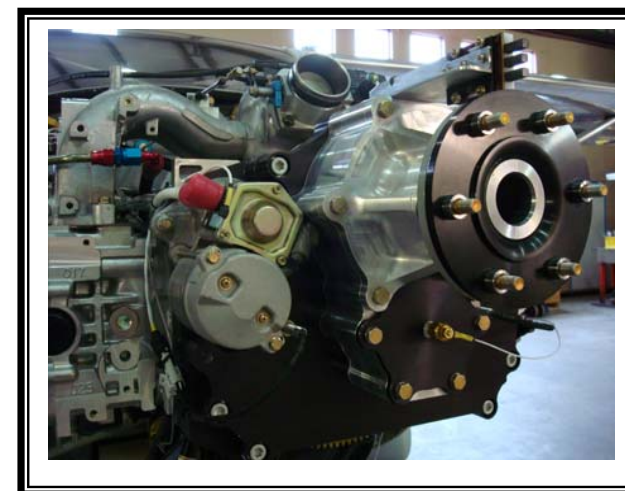
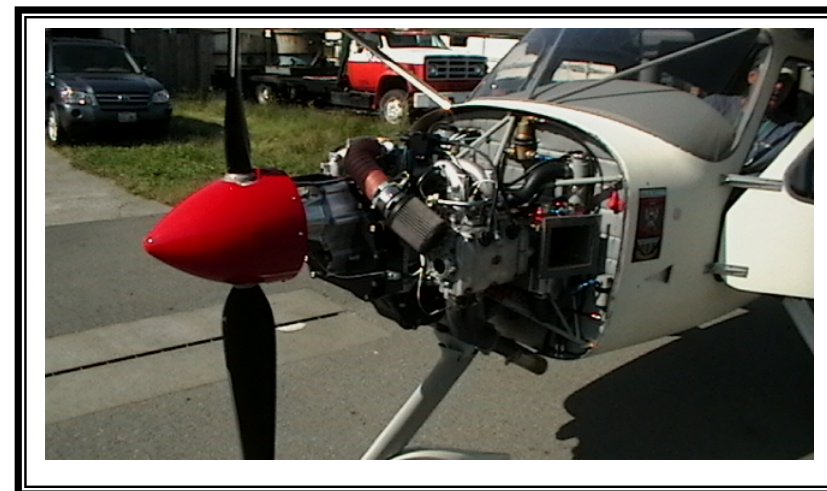
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## Specifications

<b>Subaru Engine</b>	New STI Turbo Short Block. Genuine Subaru engine components. No remanufactured parts. Short block, race engine-balanced, and clearance verified. Re-assembly with torque specifications and techniques; assembly logs maintained.
<b>Manufactured Parts</b>	Manufactured parts use certified aircraft quality materials and hardware.
<b>Delivery</b>	Delivery of engine, electrical system, and/or PSRU generally within four (4) weeks after order placement. Delivery of MPS CAP 220, 6-8 weeks after order placement; delivery of VariProp products negotiated at time of order.
<b>Payment Terms</b>	\$500 refundable deposit per system <i>i.e. engine, electrical, prop, PSRU</i> , up to a maximum of \$1500. Balance due prior to shipping.
<b>Warranty</b>	Products warranted two years after purchase <b>or</b> one year following first flight, whichever occurs first.

### Product Features and Specifications

MX1 - Normally Aspirated Engine	
Engine	• Subaru 2.5 STI Turbo short block; Stock 2.5 NA Heads
Component Systems	• Cooling, lubrication, exhaust, intake, fuel, alternator, ignition
Horsepower	• 165 hp
Crankshaft Torque	• 170 ft lbs
Propeller Torque	• 360 ft lbs
Lubrication	• 20-50 wt oil
Fuel	• 87 octane MOGAS; 100 LL <i>requires additive</i>
Fuel system	• Return-less system with air/fluid separator; dual high/low pumps
Maintenance	• Per Subaru recommendations
Testing	• Engine test run • Controlled engine break-in <i>optional</i> • Calibrated dynamometer test/printout <i>optional</i>
TBO	• 1500 hrs <i>initial recommendation</i>
Electrical System	
Standard	• Subaru coil, plugs, wires
Ignition probes	• Optional Dual
Computers	• Standard Single; Optional Dual
MPS In-Flight Adjustable Propeller	
Weight	• 2-blade propeller: 23 lbs; Spinner: 5 lbs
Pitch Adjustment	• Standard: Locked to flyable range; Option: Up to 70° change
Pitch Control	• Electronic
Blade Mfg.	• Whirlwind
TBO	• 1500 hrs <i>initial recommendation</i>
MPS PSRU	
Weight	• 73 lbs
Gear ratio	• 2:13:1 standard
Vibration control	• Lords Elastomeric Coupler
Gear Profile	• Helical Cut - Carburized & Ground
TBO	• 1500 hrs <i>initial recommendation</i>
Gear Standard	• AGMA Quality Level 10



This system is not FAA approved and is intended for experimental use only. Updated 7/25/2008