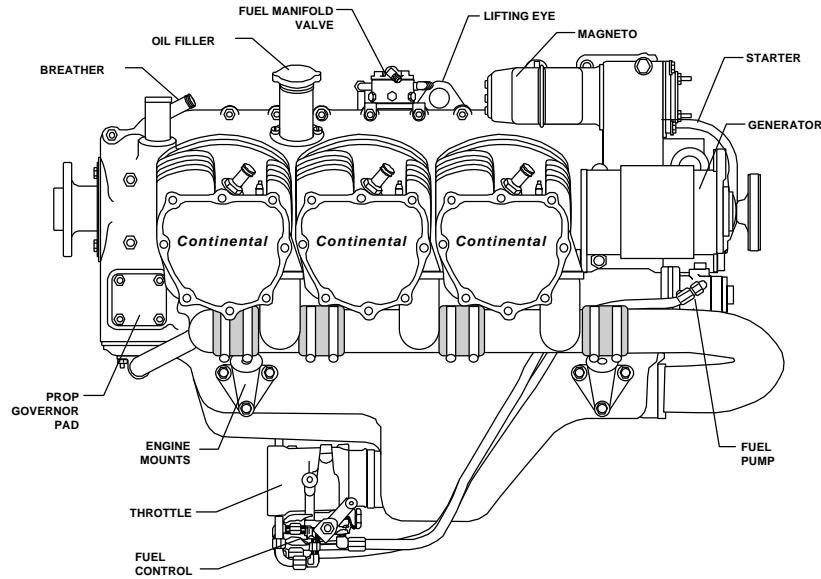


O-470-GCI

Type Certificate E-273



The O-470-GCI model is a six cylinder engine which has been converted from carburetor to fuel injection. It produces 240 brake horsepower and has a crankshaft speed of 2600 RPM. The engine has horizontally opposed air cooled cylinders. The engine cylinders have an overhead inclined valve design. The cylinders have updraft intake inlets and downdraft exhaust outlets mounted on the bottom of the cylinder head.

The O-470- GCI engine has a 471 cubic inch displacement achieved by using a cylinder design with a 5.00 inch diameter bore and a 4.00 inch stroke. The dry weight of the engine is 431.60 lbs. without accessories. The average weight of the engine with installed accessories is approximately 473.50 lbs.

OVERALL ENGINE DIMENSIONS INCHES	
HEIGHT	26.81
WIDTH	33.56
LENGTH	38.14

ENGINE SPECIFICATIONS O-470-G

Cylinders

Arrangement Horizontally Opposed
 Number of Cylinders 6
 Compression Ratio 8.0:1
 Firing Order 1-6-3-2-5-4
 Bore (Inches) 5.00
 Stroke (Inches) 4.00
 Piston Displacement (cu. in.) 471

Brake Horsepower

Rated Maximum Continuous Operation 240 BHP @ 2600 RPM

OPERATING LIMITS

Crankshaft Speed - RPM

Rated Maximum Continuous Operation 2600

Manifold Pressure Limit (In. Hg.) Absolute Full Throttle

Fuel Control System Carburetor PSH-5BD

Fuel 91/96 Min.

Oil

TEMPERATURE	AVIATION GRADE	SAE GRADE	MULTI-VISCOSITY
BELOW 40	65	30	10W-30 / 15W-50 / 20W-50
ABOVE 40	100	50	15W-50 / 20W-50 / 20W-60

Oil Pressure

Idle, Minimum, psi 10
 Normal Operation, psi 30-60

Oil Sump Capacity (U.S. Quarts) 9

Max. Oil Consumption (Lb./BHP/Hr. Max.)012 lbs/bhp/hr

Oil Temperature Limits

Minimum for Take-Off 75° F
 Maximum Allowable 225° F

Cylinder Head Temperature

Recommended Max. at Cruise Not Available
 Limit 460° F

Ignition Timing (Compression Stroke, Breaker Opens)

Right Magneto, Degrees BTC 24°
 Left Magneto, Degrees BTC 24°

Spark Plug

TCM 627643
 Champion REM40E



CONTINENTAL MOTORS