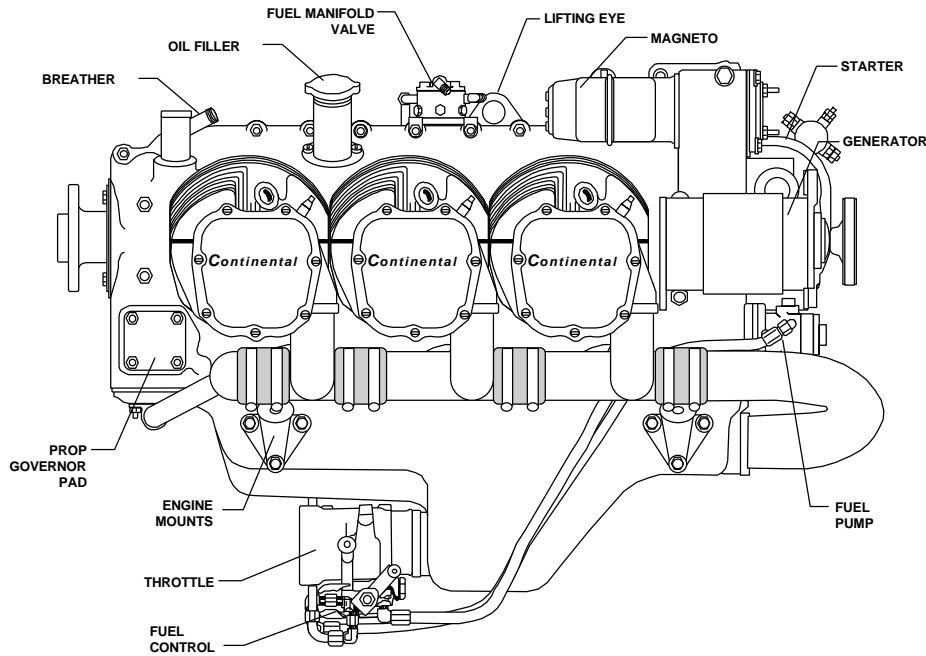


IO-470-K

Type Certificate 3E1



The IO-470-K model is a six cylinder fuel injected engine that produces 225 brake horsepower and has a crankshaft speed of 2600 RPM. The engine has horizontally opposed air cooled cylinders. The engine cylinders have an overhead straight valve design. The cylinders have updraft intake inlets and downdraft exhaust outlets mounted on the bottom of the cylinder head.

The IO-470-K 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 370.56 lbs. without accessories. The average weight of the engine with installed accessories is approximately 415 lbs.

OVERALL ENGINE DIMENSIONS INCHES	
HEIGHT	26.81
WIDTH	33.39
LENGTH	38.14

ENGINE SPECIFICATIONSIO-470-K

Cylinders

Arrangement Horizontally Opposed
 Number of Cylinders 6
 Compression Ratio 7.0:1
 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 225 BHP @ 2600 RPM
 Recommended Cruise 169 BHP @ 2450 RPM

OPERATING LIMITS

Crankshaft Speed - RPM

Rated Maximum Continuous Operation 2600
 Recommended Idle 600

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

Fuel Control System TCM Fuel Injection

Fuel 80/87 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) 12

Max. Oil Consumption (Lb./BHP/Hr. Max.)015 lbs/bhp/hr

Oil Temperature Limits

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

Cylinder Head Temperature

Recommended Max. at Cruise 375° F
 Limit 460° F

Ignition Timing (Compression Stroke, Breaker Opens)

Right Magneto, Degrees BTC 22°
 Left Magneto, Degrees BTC 22°

Spark Plug

TCM 627643
 Champion REM40E



CONTINENTAL MOTORS