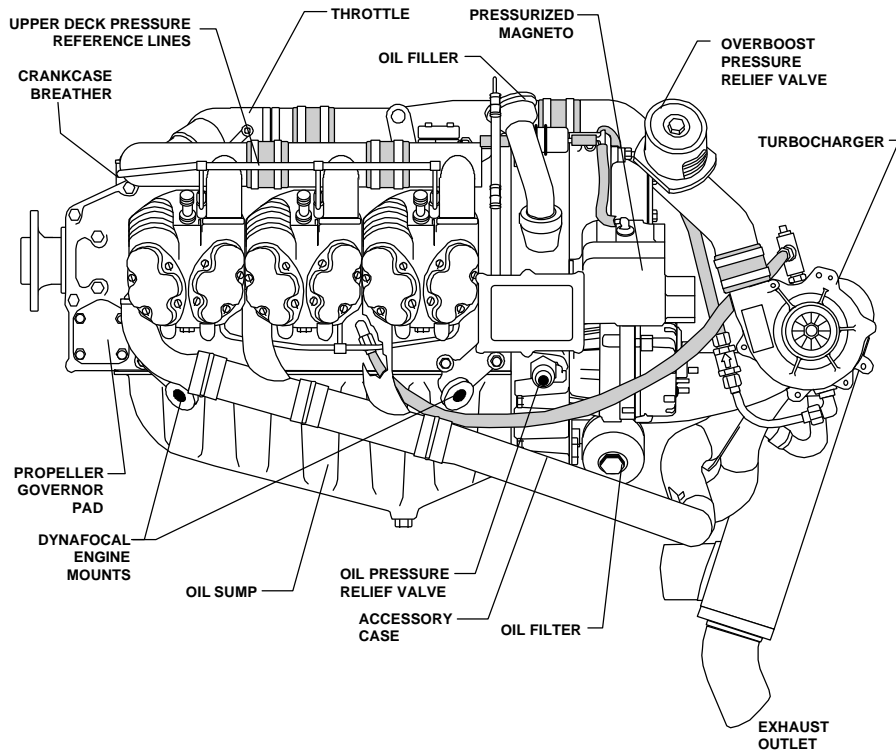


TSIO-360-F, -FB

Type Certificate E9CE

ENGINE SPECIFICATIONS TSIO-360-F & -FB



The TSIO-360-F, -FB engine is an air cooled turbocharged fuel injected engine producing 200 brake horsepower at a maximum crankshaft speed of 2575 RPM. The engine has horizontally opposed air cooled cylinders. The engine cylinders are cross flow design having overhead inclined valves. The cylinders have downdraft intake inlets mounted on the top of the cylinder head and downdraft exhaust outlets located on the bottom of the cylinder.

The TSIO-360-F, -FB engines have a 360 cubic inch displacement achieved by using a cylinder design with a 4.438 inch diameter bore and a 3.875 inch stroke. The dry weight of the engine is 328.35 lbs. without accessories. The average weight of the engine with accessories is approximately 392 pounds.

OVERALL ENGINE DIMENSIONS INCHES	
HEIGHT	
WIDTH	31.38
LENGTH	40.53

Cylinders

Arrangement Horizontally Opposed
 Number of Cylinders 6
 Compression Ratio 7.5:1
 Firing Order 1-6-3-2-5-4
 Bore (Inches) 4.438
 Stroke (Inches) 3.875
 Piston Displacement (cu. in.) 360

Brake Horsepower @ Rated Speed

Rated Maximum Continuous Operation 200 BHP @ 2575 RPM
 Recommended Cruise 150 BHP @ 2450 RPM

OPERATING LIMITS

Manifold Pressure Limit (In. Hg.) Absolute 41.0"
 Fuel Control System TCM Fuel Injection
 Fuel 100/100LL
 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 30-80

Oil Sump Capacity (U.S. Quarts) 8
 Max. Oil Consumption (Lb./BHP/Hr. Max.)006 X % Power
 100

Oil Temperature Limits

Minimum for Take-Off 100° F
 Maximum Allowable 240° F

Cylinder Head Temperature

Recommended Max. at Cruise 240° - 440° F
 Limit 460° F

Turbine Inlet Temperature

Maximum Continuous 1725° F
 Maximum, 60 Seconds Not Applicable

Ignition Timing (Compression Stroke, Breaker Opens)

Right Magneto, Degrees BTC 20°
 Left Magneto, Degrees BTC 20°

Spark Plug

TCM 630049
 Champion RHM38E



CONTINENTAL MOTORS