

	<u>Model</u>	<u>IO-360-A,-AB</u>	<u>IO-360-B</u>	<u>IO-360-C,-CB,-D,-DB</u> <u>-E,-G,-GB,-H,-HB</u>
Oil sump capacity		10: 7 usable at 25° noseup and nosedown attitude	- -	- - except E which is 8: 5.9 usable 25° noseup and nosedown attitude
Notes:		1,2,3,4,6,7,8,9	1,2,3,4,5,6,7,9	1,2,3,4,5,6,7,8,9,

	<u>Model</u>	<u>IO-360-J,-JB</u>	<u>IO-360-K,-KB</u>	<u>IO-360-ES</u>
Rating, ICAO or ARDC	<u>Type</u>	- -	- -	- -
Standard atmosphere				
Max. continuous hp., r.p.m. in. Hg. at:				
Critical altitude, ft.				
Sea level pressure altitude		195-2600	195-2600	210-2800 F.T.
Takeoff hp., 5 min., r.p.m. full throttle at sea level pressure altitude		210-2800	195-2600	210-2800 F.T.
Fuel (aviation gasoline, minimum grade)		- -	- -	- -
Lubricating oil		- -	- -	- -
Bore and stroke, in.		- -	- -	- -
Displacement, cu. in.		- -	- -	- -
Compression ratio		- -	- -	- -
Weight (dry), lb.		294	294	320
C.G. Location (basic engine)				
Fwd. of front face accessory case, in.		- -	- -	7.08
Below crankshaft centerline, in.		- -	- -	.45
Below crankshaft centerline toward 1-3-5 side, in.		- -	- -	-.14
Propeller shaft		- -	- -	- -
Fuel injection		- -	- -	CMI Injection system 639289A95 or latest FAA approved version
Ignition, dual magnetos		- -	- -	- -
Timing, °BTC		- -	- -	24°
Spark plugs		- -	- -	- -
Oil sump capacity		10: 7 usable at 25° noseup and nosedown attitude	- -	8: 5 usable at 26° noseup and 18° nosedown attitude
Notes:		1,2,3,4,5,6,7,8,9	- -	Note 1 except barrel temp. not applicable, 2,3, 4,5,6,7,8,9

"- -" indicates "same as previous model"

"—" indicates "does not apply"

Certification basis	CAR 13, effective June 15, 1956, as amended by 13-1 thru 13-3. Type Certificate No. E1CE issued May 15, 1962, for Model IO-360-A, -B dated September 9, 1963; -C and -D added July 24, 1964; -L added September 30, 1966; -G and -H added September 8, 1972; -J added December 20, 1974; -K added April 6, 1976; -DB, -GB, -JB, -KB added March 13, 1978; -AB, -CB and -HB added April 10, 1979, -ES FAR 33 through Amendment 12 added October 18,1990.
Production basis	Production Certificate No. 508

NOTE 1.	Maximum permissible temperature:	
	Cylinder head bayonet, thermocouple	460°F
	Cylinder barrel	310°F
	Oil inlet -A, -B	225°F
	-C, -D, -E, -G, -H, -J, -K, -DB, -GB, -JB,	
	-KB, -AB, -CB, -HB, -ES	240°F

NOTE 2.	Fuel pressure limits:
	Inlet to injection pump, min. - minus 2 p.s.i.
	max. - plus 8 p.s.i.
	Outlet to vapor return line - plus 3.5 p.s.i.

NOTE 3.	Oil pressure limits:
	2-4-6 side - normal 30 to 60 p.s.i.
	- idle 10 p.s.i.

NOTE 4. The following accessory drive or mounting provisions are available:

	Original Accessory	Direction of Rotation*	Speed Ratio to Crankshaft	Max. Torque (in.-lb.)		Maximum Overhang Moment (in.-lb.)
				Continuous	Static	
**	Propeller governor	C	1:1	29	825	50
	Tachometer (Mech. optional)	CC	1.239	7	50	25
***	Vacuum pump Optional	CC	1.545:1	100	800	50
****	(1-3-5 side)	C	1.316:1	27	800	8.3
*****	(2-4-6 side)	CC	1.316:1	27	800	8.3
	Generator	CC	2.035:1	60	600	50
	Oil Cooler					65

Starter: CMI P/N 627841 (Delco-Remy P/N 1108234) eligible.

*C - Clockwise viewing drive pad; CC - Counterclockwise.

**Modified AND 20010 pad.

***AND 20000 pad modified for speed, -A, -AB, -B, -D, -DB, -E, H, -HB, -J, -JB, -K, -KB, -ES only.

****AND 20000 pad - Modified (no oil provision; accessory clearances limited) -C, -CB, -G, and -GB only.

*****AND 20000 pad - Modified -C, -GN, -G, and -GB only.

NOTE 5. The Model IO-360-D is similar to IO-360-A except for rating and oil cooled pistons.
 The Model IO-360-B is similar to IO-360-A except for reduced compression ratio and rated power.
 The Model IO-360-C is similar to IO-360-D except for accessory drive provisions.
 The Model IO-360-E is similar to IO-360-D except for oil sump and suction tube.
 The Model IO-360-G is similar to IO-360-C except for crankshaft counterweight tuning.
 The Model IO-360-H is similar to IO-360-D except for crankshaft counterweight tuning.
 The Model IO-360-J is similar to IO-360-H except for rating.
 The Model IO-360-K is similar to IO-360-H except for rating.
 The Model IO-360-DB is similar to the IO-360-D except for modified crankshaft.
 The Model IO-360-GB is similar to the IO-360-G except for modified crankshaft.
 The Model IO-360-JB is similar to the IO-360-J except for modified crankshaft.
 The Model IO-360-KB is similar to the IO-360-K except for modified crankshaft.
 The Model IO-360-AB is similar to the IO-360-A except for modified crankshaft.
 The Model IO-360-CB is similar to the IO-360-C except for modified crankshaft.
 The Model IO-360-HB is similar to the IO-360-H except for modified crankshaft.
 The Model IO-360-ES is similar to the IO-360-HB except for the modified spider induction system.

NOTE 6. These engines are eligible for installation of Eq. No. 6001 oil filter adapter.

NOTE 7. Models IO-360-A, -B, -C, -D and -E incorporate crankshaft with two 6th order dampers.
 Models IO-360-AB, -CD, -DB, -HB, -G, -GB, -H, -J, -JB, -K, and -KB incorporate crankshaft with one 6th and one 4 1/2 order damper.
 Model IO-360-ES incorporates crankshaft with one 6th and one 4 1/2 order damper.

NOTE 8. The IO-360-A, -AB, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB, -ES are eligible for pusher and tractor operation and are approved for installation of propellers or propeller-fan combination having inertias up to 20.-lb sec. and overhang moments up to 490 in.-lb. The maximum overhung weight and moment are 70 lb. and 8 in. respectively.

NOTE 9. The following spark plugs and/or those listed in CMI Service Information Letter SIL03-2 are approved on this engine:

<u>Engine Models</u>	<u>Spark Plugs</u>	
IO-360-A, -AB, -C, -CB, -D, -E, -G, -H, -HB, -J, -K, -DB, -GB, -JB, -KB, -ES	AC	SR86, HSR86
	Auto Lite	SH26, SH260
	Champion	REM38E, REM38P, RMM38E, RHM38P
	Smiths Industries	RSE-23-3R, RSH-23-3R
IO-360-B	AC	SR83IR, SR83P, HSR83P, S88, HS88, HSR83IR, S88D, SR88, SR88D, HSR88
	Auto Lite	SH15, SH15R, SH20A, SH200A
	Champion	RHM38E, REM38P, RHM38P, REM40E, RHM40E, EM42E
	Red Seal	SJ190, SE230, SJ230, SE270
	Smiths Industries	RSE-23-3R, RSH-23-3R

NOTE 10. Those engines which are designated with a suffix letter "B" (i.e., IO-360-DB) are interchangeable with those engines of the same model letter without the suffix letter (i.e., IO-360-D).

Those engines which are designated without the suffix letter (i.e., IO-360-D) are non-interchangeable with those engines which are designated with the suffix letter "B" (i.e., IO-360-DB).

NOTE 11. The following magnetos with the appropriate harness are eligible on these engines at the indicated weight change.

Magneto Model	Weight Change
Two CMI/TCM/Bendix S6LN-25	None
Two CMI/TCM S6LSC-25	None
One CMI/TCM S6LSC-25T (R) and One CMI/TCM S6LSC-25 (L)	None
Two Slick 6214	-1.4 lb.
Two Slick 6314	-1.4 lb.

NOTE 12. Engine model numbers may include a suffix to define minor specification changes and/or accessory packages.
 Example: IO-360-A(10).

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