

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION

E-258
Revision 3
AIRCOOLED MOTORS
FRANKLIN
6V6-245-B16F (0-425-1)

March 6, 1952

AIRCRAFT ENGINE SPECIFICATION

Engines of models described herein conforming with this specification and approved data on file with the Civil Aeronautics Administration are rated as airworthy for use in certificated aircraft, in accordance with pertinent aircraft specifications and the manufacturer's installation, operation, repair and overhaul instructions.

Manufacturer Aircooled Motors, Inc.
Syracuse 8, New York

Model	Franklin	6V6-245-B16F
Type	60A	Direct Vertical Drive
Rating		
Maximum continuous,		
hp, rpm, at sea level		
pressure altitude	245-3275-S.L.	
Take-off, hp, rpm, full throttle	245-3275	
Fuel (Minimum octane aviation gasoline)	80	
Bore and stroke, in.	4.75 x 4	
Displacement, cu. in.	425	
Compression ratio	7.4:1	
Weight (dry), lbs. (includes fan and air housings)	369	
C.G. location		
Above rear face of crankcase, in.	11.6	
Below top of fan housing, in.	17.8	
From C.L. crankshaft toward carburetor, in.	.4	
Driveshaft end	Special Integral flange-has 3 3/8 in. threaded holes on 3 12/16 in. circle.	
Carburetion:	Stromberg PS-7BD carburetor	
Setting	AMC No. 15554	
Ignition, Dual	Scintilla S6LN-22 magnetos	
Timing, °BTC	30	
Spark Plugs	AC LA-47	
Certification Basis	Type Certificate No. 258	
Production Basis	Production Certificate No. 9	

NOTE 1. Maximum permissible temperatures are 500°F, 300°F, and 220°F for the cylinder head, barrel, and oil inlet respectively. The cylinder head temperature is measured with a well-type thermocouple.

NOTE 2. Carburetor fuel pressure limits, 10 to 14 psi.

NOTE 3. The following accessory provisions are provided.

Accessory	Type Pad	Drive Directions (C = Clockwise, CC = Counter Clockwise)	Drive Speed (X crankshaft RPM)	Maximum Torque (in. lbs.)		Maximum Overhang Moment (in. lbs.)
				Cont.	Static	
Starter	AND 20004	C	1.000:1	6000	100	100
Generator	AND 20002	C	2.368:1	500	2200	150
Vacuum and Hydraulic pump	AND 20000	C	1.125:1	100	800	35
Governor	AND 10010	C	0.833:1	125	2200	35
Fuel Pump	AND 20003	CC	0.750:1	25	450	10

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