

FRANKLIN ENGINE COMPANY

MODELS: Aircooled Motors Franklin 4AC-176 Series

T.C. NUMBER: T.C. 221

Model-	B2, B3	BA2 (O-175-1), BA3	C2, C3	D2, D3	F2, F3
Franklin 4AC-176					
Type	4HOA	----	----	----	----
Rating:					
Maximum continuous, hp, rpm, at S.L. press. alt.	65-2200-S.L.	65-2300-S.L.	75-2500-S.L.	80-2650-S.L.	80-2500-S.L.
Take-off, hp, rpm, full throttle	65-2200	65-2300	75-2500	80-2650	80-2500-S.L.
Fuel (minimum octane aviation gasoline)	73	----	80	----	----
Bore and stroke, in.	4.0 x 3.5	----	----	----	----
Displacement, cu. in.	176	----	----	----	----
Compression ratio	6.3: 1	6: 1	6.3: 1	----	7: 1
Weight (dry), lbs.	182; 189	----	----	----	183; 190
C.G. location (with all accessories)					
Forward of rear mount C.L., in.	5.7; 3.7	----	----	----	----
Propeller shaft	Special with integral flanged hub, 6-3/8 in. bolts - 4 in. circle	----	----	----	----
Carburetion	Marvel MA-3 or MA-3A carburetor with 1-9/64 in. venturi	Marvel MA-3P or MA-3SPA carburetor with 1-5/16 in. venturi	Marvel MA-3 or MA-3A carburetor with 1-5/16 in. venturi	----	----
Ignition, dual	Eisemann AM-4 (unshielded) or LA-4 (shielded) magnetos with impulse coupling (retard 25 degrees)	----	----	----	----
Ignition timing, deg. BTC	26 or 28	----	----	----	----
Spark plugs	Champion C-10S, AJ-66, 78S; Simmonds-Benton 4D3-S; AC SA-	----	----	----	----

Accessory	Nearest AN Pad Designation	Direction of Rotation, C = Clockwise CC = Counter- clockwise	Drive Speed I Crankshaft RPM	Maximum Torque (in. - lbs.)		Maximum Overhang Moment (in. - lbs.)
				Continuous	Static	
Starter	None	CC	11.444: 1	--	240	30
Generator	None	CC	1.000: 1	8	15	45
Tachometer	AND 10005	CC	0.500: 1	20	60	2

NOTE 4. Military model C-175-1 is identical to Model 4AC-176BA2. The corresponding model designation and T.C. No. 221 should be incorporated on the engine nameplate when used in certificated aircraft.