

FRANLIN ENGINE COMPANY

MODELS: Aircooled Motors Franklin Military O-425-9

T.C. NUMBER: 5E-13

Model	O-425-9
Type - 6HOA	Geared 0.623: 1
Rating:	
Maximum continuous, hp, rpm, at S.L. press. alt.	240-3200-S.L.
Take-off, hp, rpm, at full throttle	245-3300
Fuel (minimum grade aviation gasoline)	80/87
Bore and stroke, in.	4.75 x 4.00
Displacement, cu. in.	425
Compression ratio	7.4: 1
Weight (dry), lbs.	413
C.G. location	
From front face of thrust nut, in.	18.4
Forward of rear face of crankcase, in.	10.5
Below C.L. of crankshaft, in.	30.0
Propeller shaft, SAE No.	20
Ignition, dual	Stromberg PS-78D carburetor
Timing, deg. BTC	Scintilla S6LN-22 magnetos
Spark plugs	28
Oil sump capacity, quarts	13

NOTE 1. Maximum permissible cylinder head, barrel, and oil inlet temperatures, 475 degrees F., 325 degrees F. and 210 degrees F., respectively. The cylinder head temperature is measured with a well type thermocouple.

NOTE 2. Carburetor fuel pressure limits, 11 to 13 psi.

NOTE 3. The following accessory provisions are provided:

<u>Accessory</u>	<u>Drive Directions*</u>	<u>Drive Speed*</u>	<u>Maximum Torque (in. lbs.)</u>	
			Cont.	Static
Starter	C	1.000: 1	----	6000
Generator	C	2.368: 1	500	2200
Vacuum and hydraulic pump	C	1.125: 1	100	800
Governor	C	0.833: 1	125	2300
Fuel pump	CC	0.750: 1	25	450

**C” - Clockwise, “CC” - Counter clockwise

**Speed - Times crankshaft rpm