

MODELS: A-80-5J, -8, -8J, -9, -9J

T.C. NUMBER: T.C. 217

Model	A-80-8, -9
Type	4HOA
Rating:	
Maximum continuous, hp, rpm, at S.L. press. alt.	80-2700-S.L.
Take-off, hp, rpm	80-2700
Fuel (minimum octane aviation gasoline)	80
Bore and stroke, in.	3.875 x 3.625
Displacement, cu. in.	171
Compression ratio	7.5:1
Weight (dry), lbs.	173, 176
Propeller shaft, SAE No. (Taper)	0
Carburetion	Stromberg NA-83A1 carburetor with 1-1/4 in. venturi or Marvel MA-3-PA carburetor with 1-7/32 in. venturi
Ignition, dual	Scintilla SF-4R or Eisemann AM-4 magnetos
Ignition timing, degrees ETC	Right 29; left 32
Spark plugs	BG 4B2, S; 417, S, Champion LM-31S; M-31A; M-26; C-26, S; C-27, -S; 62S; Auto-Lite 18A-1, SE-2M, AC 888, A88
Oil sump and capacity (quarts)	Wet - 4-1/2
Exhaust port	Down
NOTES	1, 2, 3, 4, 5, 6
Certification basis	Type Certificate No. 217

NOTE 1. Maximum permissible cylinder head, barrel and oil inlet temperatures, 550 degrees F., 350 degrees F., and 200 degrees F., respectively.

NOTE 2. Models A-80-6J, -8J, -9J incorporate the High Model A fuel injector in place of the carburetor, at an increased weight of 3 lbs.

NOTE 3. Model A-80-6J and -9J are similar in all respects except the former has "up" exhaust ports.

NOTE 4. The following accessory provisions and typical accessories are eligible at the increased weights noted:

<u>Starter</u>	<u>Weight (lbs.)</u>
Eclipse type 635 (Electric - Models -6J, -9, -9J only)	16
Eclipse type E-80 (Electric - Models -6J, -9, -9J only)	18
Hummer type X (Mechanical - Models -6J, -9, -9J only)	14
<u>Fuel Pump</u> (provisions optional)	
AC type CP 8527	4
AC type 1523843 or 3843 (CMC No. 4552)	2
<u>Miscellaneous</u>	
Oil filter, Fram PB-500 (CMC No. 40581)	3
Air filter and scoop (CMC No. A-5810 or A-40522)	3
Radio shielding	3

NOTE 5. The approval for Model A-80-6J expired 11/7/41. No engine of this model manufactured after this date or with serial number above number 800396 eligible for use in certificated aircraft. Approval for the remaining models expired 5/11/49. No engine of these models manufactured after this date or with serial number above 835069, or any engine converted to an A-80 engine after 5/11/49, eligible for use in certificated aircraft.