

AVCO CORPORATION, LYCOMING DIVISION

MODELS: Avco Lycoming O-145-A1, -A2

T.C. NUMBER: T.C. 199

Model	O-145-A1	O-145-A2
Type	4HOA	----
Rating:		
Maximum continuous, hp, rpm, S.L.		
press. alt.	50-2300-S.L.	55-2300-S.L.
Take-off, hp, rpm, at full throttle	50-2300	55-2300
Fuel (minimum octane aviation gasoline)	80	----
Bore and stroke, in.	3.625 x 3.500	----
Displacement, cu. in.	161.3	----
Compression ratio	5.65: 1	----
Weight (dry, lbs.)	150, 147 (with SF4LN-20 or -21 magneto)	103, 157 (with SF4LN-20 or -21 magneto)
C.G. location (dry)		
Forward of rear mount C.L., in.	4.9	4.5
Below shaft S.L., in.	1.5	1.6
Propeller shaft	Integral flange, 6-3/8 in. circle	----
Carburetion	Stromberg NA-S2 or NA-S2A with 1-1/8 in. venturi or Marvel MA-2, MA-2A or MA-3-A with 1.141 in. venturi	----
Ignition	Single	Dual
Magneto	Scintilla SF-4 or Edison- Splitdorf RMA-6	----
Ignition timing, deg. BTC	28	20
Spark plugs	PG 4B2, S; 417, 3; Champion AY4; LM-31, S; Edison- Splitdorf HC-83	----
Oil sump capacity, quarts	5	----
Certification basis	Type Certificate No. 199 (See NOTE 2)	

NOTE 1. Maximum permissible cylinder head, barrel and oil inlet temperatures, 525 degrees F., 325 degrees F., and 200 degrees F., respectively.

NOTE 2. Approval expired 11/2/50. No engines of these models manufactured after the dates shown below or with serial numbers of those indicated, are eligible for use in certificated aircraft:
Model O-145-A1; Serial No. 4253 except 3532, 3552 and 3553; 8/1/41.
Model O-145-A2; Serial No. 5915-2; 8/24/49.

NOTE 3. The following accessories are eligible for use on the specified engine models at the indicated additional weights:

Fuel pump, AC Diaphragm type	3 lbs.
AC Air Cleaner, Chevrolet Part No. 1529265	- - - -