

MODELS: Avco Lycoming O-145B1, -B2, -B3, -C1, -C2, GO-145-C1, -C2, -C3

T.C. NUMBER: T.C. 210

Model - Lycoming Type	O-145-B2, -B3 480A Direct drive	O-145-C2 -- --	GO-145-C2, -C3 -- 27:17 reduction gearing
Rating:			
Maximum continuous, hp, rpm, at S.L. press. alt.	65-2550-S.L.	75-3100-S.L.	75-3200-S.L.
Take-off, hp, rpm, at full throttle	65-2550	75-3100	75-3200
Fuel (minimum octane aviation gasoline)	73 (See NOTE 5)	--	--
Bore and stroke, in.	3.625 x 3.500	--	--
Displacement, cu. in.	144.5	--	--
Compression ratio	6.5:1	--	--
Weight (dry), lbs. (See NOTE 4)	166, 169	--	193, 195
C.G. location (dry) Forward of rear mount C.L., in.	4.5, 4.4	4.5	5.9, 5.9
Below propeller shaft C.L., in.	1.6, 1.6	1.6	.4, .4
Propeller shaft	Integral flange 6-3/8 in. bolts 4-3/8 in. circle	--	Integral flange 6-3/8 in. bolts 4-3/4 in. circle
Carburetion	Stromberg NA-S2 or MA-S2A, or Marvel MA-2 or MA-2-A, carburetor with 1-3/16 in. venturi	--	--
Ignition, dual	Scintilla SF-4L, SF4LN-20, -21, Superior SMA-4 or Edison-Splitdorf RMA-4 magnetos	--	--
Ignition timing, deg. BTC	20	25	--
Spark plugs	EG 4B2, S; 417, S. Champion AY-4; LM-31, S. Edison-Splitdorf MC-83.	--	--
Oil sump capacity, quarts	5	--	--
Certification basis	Type Certificate No. 210 (See NOTE 6)	--	--

NOTE 1. Maximum permissible cylinder head, barrel and oil inlet temperatures, 525 degrees F., 325 degrees F., and 220 degrees F., respectively.

NOTE 2. Models O-145-B1, C1 and GO-145-C1 are identical to Models O-145-B2, C2 and GO-145-C2 respectively, except as follows:

	O-145-B1	O-145-C1	GO-145-C1
Ignition system	Single	--	--
Ignition timing, degrees BTC	22	28	--
Weight (dry), lbs.	155	--	182

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

Accessory	Weight (lbs.)
Generator:	
Eclipse type LV-180 (Models B3, C3 only)	15
Starter:	
Eclipse type E-80 or 635 (Models B3, C3 only)	18
Fuel Pump:	
AC diaphragm type	3
Miscellaneous:	
AC air cleaner, Chevrolet Part No. 1529265	--

NOTE 4. Dry weight with Scintilla SF4LN-20 or -21 magnetos is minus 6 lbs.

NOTE 5. Eligible with 25 degrees BTC ignition timing when 80 octane fuel is used.

NOTE 6. Approval expired 11/2/50. No engines manufactured after dates shown below or with serial numbers above those indicated are eligible for use in certificated aircraft:

Model	Serial No.	Date
O-145-B1, -C1, GO-145-C1	4253 except 5119 to 5134 inclusive, 5204 to 5207 inclusive	8-1-41
O-145-B2, B3, -C2, GO-145-C2, -C3	5915-2	8-24-49