

GLADDEN PRODUCTS CORPORATION

MODELS: Gladden Products, Kinner B-5, B-54 and Military R-440-1, -3

T.C. NUMBER: 51

Model - Kinner	B-5, B-54
Type - 5RA	Direct drive
Rating:	
Maximum continuous, hp, rpm, full throttle at S.L. press. alt.	125-1925-S.L.
Take-off, hp, rpm, at full throttle	125-1925
Fuel (minimum octane aviation gasoline)	73
Bore and stroke, in.	4.625 x 5.25
Displacement, cu. in.	441
Compression ratio	5.25: 1
Weight (dry), lbs.	312
C.G. location (dry) Forward of mounting face, in.	5.56
Propeller shaft, SAE No.	1 Taper (B-5 only); 10 Spline (B-54 only)
Carburetion	Stromberg NAR 5A carburetor with 1-11/16 in. venturi or Holley 419 carburetor with 1-1/2 in. venturi
Ignition, dual	Scintilla PN-5D or SB-5 magnetos with Apollo impulse coupling (retard 25 degrees)
Ignition timing, degrees BTC	Right magneto 25; Left magneto 27
Spark plugs	Champion C-26; BG417, S; SU485; 4B2
NOTES	1, 2, 3
Certification basis	Type Certificate No. 51
Production basis	Production Certificate No. 601

NOTE 1. Maximum permissible cylinder head, barrel, and oil inlet temperatures are 550 degrees F., 300 degrees F., and 200 degrees F., respectively.

NOTE 2. The following accessory provisions and typical engines accessories are eligible at the indicated weight increases:

<u>Starter</u>	<u>Weight, lbs.</u>
Eclipse Model E-80	25
Eclipse Model Y-150	23
Eclipse Type 390, Model 2	16
Heywood Air	9
Geared adapter for electric starter	3
<u>Generator</u> (Use adapter Part Number 1308)	
Eclipse Model G3	19
Leece-Neville Model G2	21

Fuel Pump

Pesco Type 4100	4
Evans Model E-7	4

Propeller

Kinner No. 610 (Model B-5 only)	10
Kinner No. 1475 (Model B-54 only)	10

NOTE 3. Military Models R-440-1 and R-440-3 are identical to Models B-5 and B-54, respectively. Since some R-440-3 engines were rate 132 hp at 1975 rpm, these ratings should be changed to agree with those of the B-54. When used in certificated aircraft, the designation plate of military engines should be stamped with the corresponding certificated model designation. If there is no room for this information on the existing plate, such information may be stamped on a plain thin metal plate and attached beneath the existing plate by at least two of the mounting screws.