

GLADDEN PRODUCTS CORPORATION

MODELS: Gladden Products, Kinner R-5 Series 2, R-55, R-56, Military R-540-1, -3

T.C. NUMBER: T.C. 153

Models - Kinner	R-5 Series 2	R-55	R-56
Type - 5RA	Direct drive	----	----
Rating:			
Maximum continuous, hp, rpm, at S. L.			
Pressure altitude	160-1850-S.L.	----	----
Take-off, hp, rpm, at full throttle	160-1850	----	----
Fuel (minimum octane aviation gasoline)	73	----	----
Bore and stroke, in.	5.00 x 5.50	----	----
Displacement, cu. in.	540	----	----
Compression ratio	5.5: 1	----	----
Weight (dry), lbs.	335	346	362
C.G. location (dry)			
Forward of mounting face, in.	5.2	5.5	5.7
Propeller shaft, SAE No.	1 (Taper)	20	----
Carburetion	Stromberg NAR-6 carburetor with 1- 15/16 in. venturi or Holley 419 carburetor with 1-49/62 in. venturi	----	Holley 419 carburetor with 1-49/64 in. venturi
Ignition, dual	Scintilla PN-5D or SB-5 magnetos with Apollo impulse coupling (retard 25 degrees)	Bendix SB-5L magnetos with Apollo impulse coupling (retard 25 degrees)	----
Ignition timing, degrees BTC	Right magneto, 25; Left magneto, 27	----	----
Spark plugs	BG-417, S, SU485, Champion C-26, Bendix-Scintilla 437	----	----
NOTES	1, 2	1, 2, 4	1, 2, 3, 4
Certification basis	Type Certificate No. 153		
Production basis	Production Certificate No. 601		

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

NOTE 2. The following accessories are eligible as noted and their additional weights included drives:

<u>Generator</u> (use adapter No. 1308)	<u>Weight (lbs.)</u>
Eclipse Model G3	19
Leece-Neville Model G2	21

Starter

Eclipse Model E-80	25
Eclipse Model Y-150	23
Eclipse type 390 Model 2	16
Heywood air	9
Geared adapter for electric starters	3

Fuel Pump

Pesco type 4100	4
Evans Model E-7	4

Vacuum Pump

Eclipse Model AP-8	10
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NOTE 3. Model R-56, similar to model R-55, incorporates automatic valve gear lubricator, revised pistons and master rod, roller front main bearing, and a 7-1/2 order crankshaft torsional vibration damper on the rear counter weight.

NOTE 4. Military models R-540-1 and R-540-3 are identical to models R-55 and R-56 respectively. When these engines are installed in certificated aircraft, the corresponding civil designation and Type Certificate No. 153 should be added to the engine nameplate.