

MCDEIS: Jacobs Military R-755-7

I.C. NUMEER: 5E-11

Model	R-755-7
Type	7RA - Direct drive
Rating:	
Maximum continuous, hp, rpm, at S.L. pressure altitude	225-2000-S.L.
Take-off, hp, rpm, at full throttle	225-2000
Fuel (minimum octane aviation gasoline)	73
Bore and stroke, in.	5.25 x 5.00
Displacement, cu. in.	757
Compression ratio	5.4:1
Weight (dry), lbs.	512
C.G. location	
Forward of mounting bosses, in.	6
Below prop. C.L. in.	9/16
Propeller shaft, SAE No.	20
Carburetion	Stromberg NA-R7A carburetor with 2-1/16 in. venturi
Ignition, dual	Scintilla VMN7-1F magnetos
Ignition timing, degrees BTC	30
Spark plugs	Champion M-26, C-26, C-27
NOTES	1, 2, 3, 4, 5

NOTE 1. Maximum permissible cylinder head, barrel and oil inlet temperatures, 535 degrees F., 325 degrees F., and 200 degrees F., respectively.

NOTE 2. Desired fuel pressure 1-1/2 psi. Oil pressure limits 60 psi minimum, 80 psi desired and 90 psi maximum.

NOTE 3. Optional accessories:

Starter - Pad and 10004, Type 1, clockwise rotation facing the pad, speed ratio 1.75 times crankshaft.
Generator - Pad and 10002, clockwise rotation facing the pad, speed ratio 1.75 times crankshaft.
Fuel pump - Pad and 10003, clockwise rotation facing the pad, speed ratio one times crankshaft.
Tachometer - Two mechanical tachometer drives are provided with counter-clockwise rotation at one half crankshaft speed.

NOTE 4. Prior to original installation in a certificated aircraft, ascertain that rear main crankcase part No. 30068 is incorporated. Inspect all gears and bushings in the starter gear train to determine that they are in satisfactory condition. Eclipse starter, type 946 should not be used on this engine model due to its inherently high clutch torque setting. Inertia starters with clutch settings higher than 300 ft.-lbs. should not be used on this engine.

NOTE 5. The R-755-7 power section including master rod, link rods, cylinders, valves, push rods, etc., is similar to the R-755-9 engine which is approved under the L-4 series, Type Certificate No. 121. However, the crankcase and rear case are totally different.