

MODELS: Wright Military R-975 Series

T.C. NUMEFF: 5E-7

Model	R-975-11, -28, -30	-32
Type	9RA	--
Rating:		
Maximum continuous, hp, rpm, in.Hg., at:		
Rated pressure altitude (ft.)	420-2200-34.5-1400	450-2300-36-S.L. (ft.)
Sea level pressure altitude (ft.)	420-2200-34.8-S.L.	450-2300-36-S.L.
Take-off (5 minutes), hp, rpm, in.Hg.	450-2250-36.5	450-2300-36.
Fuel (minimum octane aviation gasoline)	80	91
Bore and stroke, in.	5.0 x 5.5	--
Displacement, cu. in.	972	--
Compression ratio	6.3:1	--
Weight (dry), lbs.	700 (Models -11, -28) 707 (Model -30)	710
C.G. location (dry)		
Forward of mounting face, in.	7.0	--
Below propeller shaft, in.	0.2	--
Propeller shaft, SAE No.	30	--
Supercharger gear ratio	10.15:1	8.31:1
Carburetion	Stromberg NA-R9A or B (Models -11, -28); Holley 700F (Model -30)	Holley 700F
Ignition, dual	Scintilla VAG-9DFR or SF-9RN magnetos	Scintilla SF-9RN magnetos
Ignition timing, degrees BTC	25	--
NOTES	1, 2, 3, 4	--

NOTE 1. Maximum permissible cylinder head, barrel, and oil inlet temperatures, 500 degrees F., 325 degrees F., and 200 degrees F., respectively, except that cylinder head temperature of Model -32 is 450 degrees F.

NOTE 2. The above engines differ as follows:

	<u>Exhaust Manifold Mounting</u>	<u>Propeller Control</u>	<u>Mounting Dimensions</u>	<u>Miscellaneous</u>
R-975-11	Rear	Two position or constant speed	9 Bolts on 23-3/8 inch circle	Carburetor air inlet faces downward and accessory pump drive on oil pump housing.
R-975-28	Front	Constant speed	9 Bolts on 24-inch circle	Carburetor air inlet faces downward and accessory pump drive on oil pump housing.
R-975-30	Front	Constant speed	9 Bolts on 24-inch circle	Carburetor mounted lower with forward facing air inlet with relocated throttle and mixture control arms.
R-975-32	Front	Constant speed	9 Bolts on 24-inch circle	Carburetor mounted lower with forward facing air inlet with relocated throttle and mixture control arms. Vacuum or hydraulic pump drives located on right side of accessory housing facing 45 degrees to rear.

The R-975-11 engine is closely similar to civil model R-975E-3. The R-975-32 engine was manufactured by Continental Motors Corp.

NOTE 3. When incorporated in certificated aircraft, the engine name-plate should be stamped "CAA Spec. No. 5E-7." If there is no room available for this information on the existing plate, such information may be stamped on a plain thin metal plate attached beneath the existing plate by at least two of its mounting screws.

NOTE 4. The following accessory provisions are provided:

	<u>Rotation*</u>	<u>Speed Ratio*</u>	<u>Maximum Torque (in. lbs.)</u>	
			<u>Continuous</u>	<u>Static</u>
Propeller governor (Optional on -11) (Standard on -28, -30, -32)	C	1.118	50	400
Vacuum or hydraulic pump (Models -28, -30 only)	CC	1.0	72	600
(Model -32 only)	C	1.636	20	600
(Model -32 only)	CC	1.159	50	1200
Fuel pump (Models -11, -28, -30 only)	CC	1.0	25	250
(Model -32 only)	CC	1.159	25	250
Generator (Models -11, -28, -30 only)	C	1.125	180	1000
(Model -32 only)	CC	1.500	21.9	380
Starter	CC	800		6000

* "C" = Clockwise viewing pad; "CC" = Counter-clockwise; Speed = Times crankshaft speed.