MODELS: Fairchild (Ranger) SGV-770-B3, -B4, -B6, -B7

T.C. NUMBER: T.C. 207

Model	B3	B4	B6	B7
Type - 12VIA	3:1 reduction gears	--	--	--
Rating:				
Maximum continuous, hp, rpm, in.Hg., at:				
Rated pressure altitude (ft.)	--	--	450-2950-37-5500	450-3000-36-1200
S.L. pressure altitude	420-2800-33.5-S.L.	450-2900-35-S.L.	450-2950-38-S.L.	450-3000-38-S.L.
Take-off (one minute), hp, rpm, in.Hg.	420-2800-33.5	450-2900-35	500-2950-42	520-3150-44
Fuel (minimum octane aviation gasoline) (CFR Motor Method Fuel)	87	--	--	--
Bore and stroke, in.	4 x 5-1/8	--	--	--
Displacement, cu. in.	772.8	--	--	--
Compression ratio	6.5:1	--	--	--
Weight (dry), lbs.	655	--	--	725
Propeller shaft, SAE No.	30	--	--	--
Supercharging (impeller gear ratio)	7.71:1	--	8.84:1	9.5:1
Carburetion	Stromberg NAR-9A carburetor with 2-3/4 in. venturi (See NOTE 2)	--	--	Holly C.G. 1375 UD
Ignition, dual	Scintilla DF (double) magneto	--	--	--
Ignition timing, degrees BTC	25	--	--	--
Certification basis	Type Certificate No. 207			
NOTES	1, 2, 4	1, 2, 4	1, 4	1, 3, 4

NOTE 1. Maximum permissible cylinder head, barrel and oil inlet temperatures, 500 degrees F., 280 degrees F., and 200 degrees F., repsectively.

NOTE 2. Models SGV-770-B3 and SGV-770-B4 employ a throttle stop on the carburetor limiting opening to 42 degrees from full closed.

NOTE 3. Model SGV-770-B7 incorporates four dynamic dampers: two 1-1/2 order, one 2-1/2 order and one 6 order.

NOTE 4. Approval expired 10/21/43. No engines of these models manufactured after this date eligible for use in certificated aircraft.