

WRIGHT AERONATICAL DIVISION  
CURTISS-WRIGHT CORPORATION

MODELS: Wright Whirlwind R-540 Series

T.C. NUMBER: ATC 23

Model - Whirlwind	R-540E	GR-540E
Type - 5RA	Direct drive	1.58: 1 or 2: 1 reduction gearing
Rating:		
Maximum continuous, hp, rpm, at S.L. pressure altitude	175-2000-S.L.	-----
Take-off (one minute), hp, rpm, at full throttle	175-2000	-----
Fuel (minimum octane aviation gasoline)	65	-----
Bore and stroke, in.	5.0 x 5.5	-----
Displacement, cu. in.	540	-----
Compression ratio	5.1: 1	-----
Weight (dry), lbs.	420	470 (1.58: 1), 480 (2: 1)
Propeller shaft, SAE No.	30	-----
Supercharging (impeller gear ratio)	7.05: 1	-----
Carburetion	Stromberg NA-R7 carburetor with 1-13/16 in. venturi	-----
Ignition, dual	Scintilla MN5-D-F magnetos	-----
Certification basis	Approved Type Certificate No. 23	
NOTES	1, 2	2

NOTE 1. Includes R-540, R-540A, R-540B and R-540D engines.

NOTE 2. Approval expired 7/12/37. No engines of these models manufactured after this date  
or  
with serial number above 11718 eligible for use in certificated aircraft.