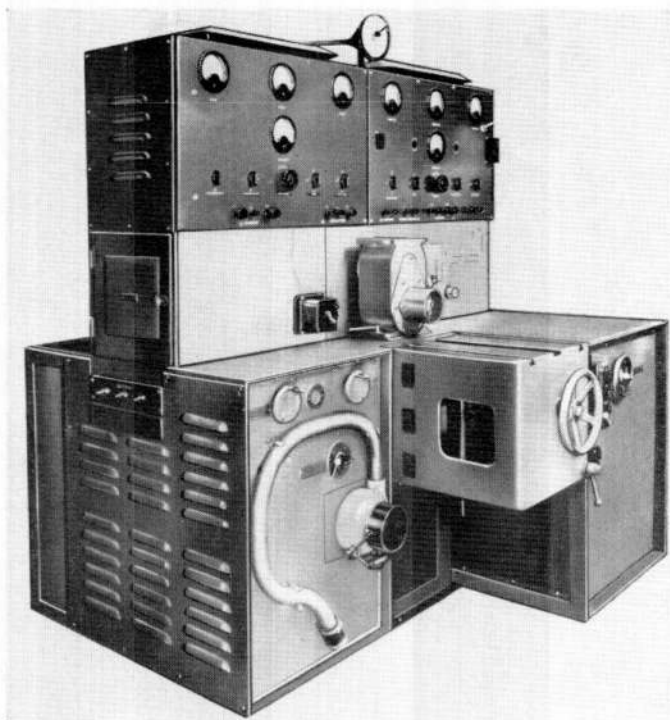


GENERATOR TESTERS, Mk. 5B and 5D



Generator Test Bench, Mk. 5B

Ref. No. ... { Mk. 5B-5G/553
Mk. 5D-5G/2924

Dimensions Width 6 ft. 6 in., Depth 4 ft. 9 in., Height 6 ft. 7 in.

Associated publication A.P.4343S, Vol. 1, Sect. 13, Chap. 1

BRIEF DESCRIPTION

The Mk. 5 generator testers are designed for the testing of 28 volt, d.c. aircraft generators and their associated cut-outs and voltage regulators at loadings up to 6 kW. and also for a.c. generators of 80 to 115 volts having outputs up to 1.2 kVA. with their associated control panels.

The testers incorporate a 415 V., 3-ph., 50 c/s. commutator type reversible motor the output of which is variable between 1.18 and 20 h.p. at corresponding speeds of 100 to 1,700 r.p.m. The motor is coupled by eight vee belts to a countershaft which drives a gearbox from which the final drive to the generator is taken. Two gearboxes are provided giving ratios of 1 : 1, 1 : 2 and 2 : 1 which produce final drive speeds of approximately 50 to 2,500 r.p.m., 300 to 5,000 r.p.m. and 600 to 10,000 r.p.m.

The motor is stopped, started and reversed through push-buttons controlling an automatic, direct-on-line, reversing type of contactor starter which has an overload relay set to operate when the output of the motor exceeds 15 h.p. Speed control is by a handwheel which moves the brushgear around the periphery of the commutator.

The generators under test are mounted on an adjustable table, and cooling air is provided by a blower at the left side of the tester. A test panel for generators up to 6 kW. at 28 volts d.c. is on one side of the tester and a similar panel at the other side provides for a.c. generators.

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