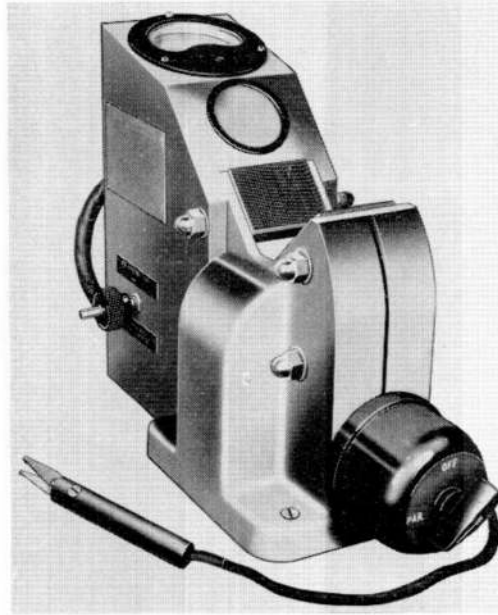


## ARMATURE TESTING GROWLER



*Air Ministry Ref. No.* ... .. 5G/2252

*Admiralty Pattern No.*

*Associated publication* A.P.4343S, Vol. 1, Sect. 13, Chap. 6

### BRIEF DESCRIPTION

The armature testing growler is used, in conjunction with a 230-volt, 50 c/s, a.c. supply, for the detection of faults in the armatures of generators and motors during repair and reconditioning. The tester consists of a heavy casting housing the laminated core of an electro-magnet having two windings which are connected to the 230-volt supply in series for the testing of generator armatures and in parallel for those of motors by the operation of a rotary switch. A vee-shaped gap in the top of the laminated core provides support for the armature under test and a test lead, terminating in a pair of test prods, is connected to an ammeter on the top of the tester and to a variable resistance controlled by a knob on the side of the casting. A pilot lamp adjacent to the ammeter, indicates when the supply is switched on.

In operation the test prods are placed in contact with a pair of adjacent segments at the top of the commutator when, if the coils are satisfactory, their inductance will reduce the current flow through the tester windings to a low level; if however, a short-circuited coil is under test, an excessive current flows in the windings of the tester which causes the laminations to vibrate and thus produce the characteristic growl from which the name of the tester is derived. The tester can also be used for the location of earth faults, open-circuits and reversed coils.

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