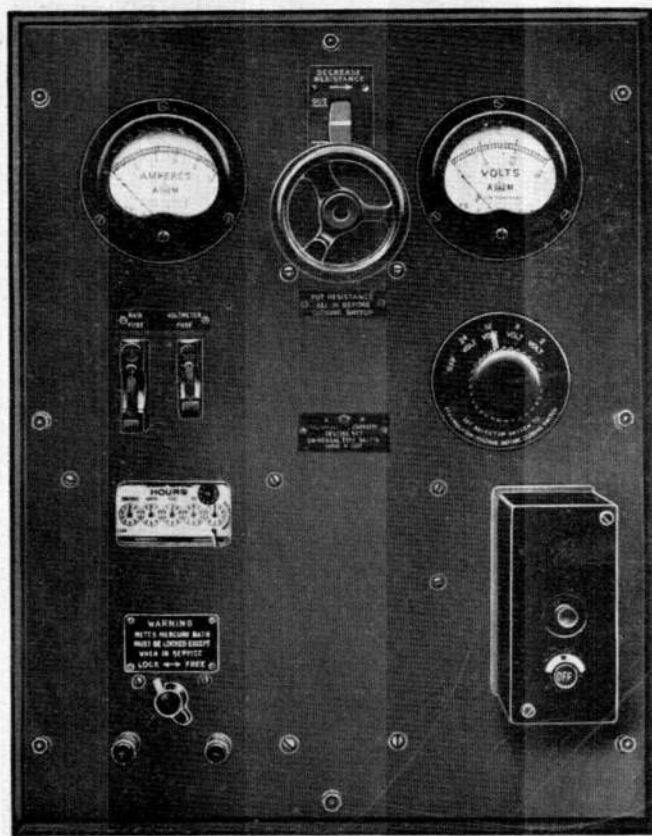


BATTERY CAPACITY TEST SET



Air Ministry Ref. No. 5G/2181

Admiralty Pattern No.

Associated publication A.P.4343S, Vol. 1, Sect. 14, Chap. 3

BRIEF DESCRIPTION

The battery capacity test set is provided for use in charging rooms to determine the serviceability of batteries for use in aircraft by measuring their effective capacity in ampere hours when discharged at the 10-hour rate. It is suitable for use on batteries having a 10-hour rate of discharge not exceeding 7 amperes and can also be used in conjunction with a portable voltmeter for voltage serviceability tests.

The test set consists of an ampere-hour meter and an ammeter connected through a rheostat and a low voltage contactor across the terminals to which the battery under test is connected. A 3-range voltmeter is also wired across these terminals through a selector switch which is coupled mechanically to a similar switch which applies the appropriate voltage to the operating coil of the low voltage contactor.

In operation, the range control is set to the battery voltage, the low voltage contactor is closed and the rheostat set to allow the battery to discharge at the 10-hour rate. The reading of the ampere-hour meter is noted at the beginning of the test and the capacity of the battery in ampere-hours is obtained by subtracting this reading from the indication on the meter when the test is ended by the opening of the low voltage contactor.

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