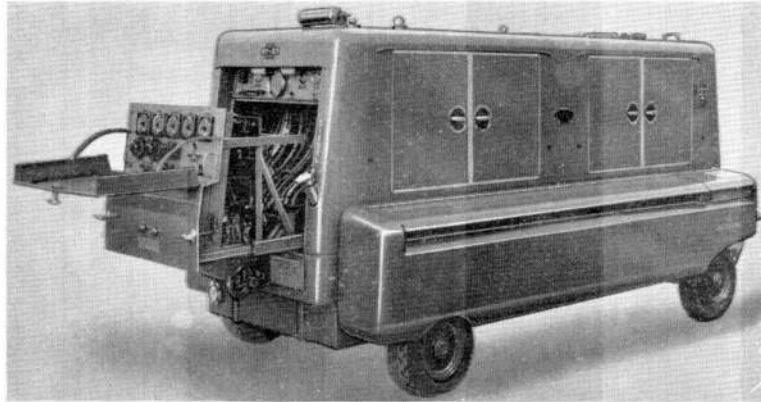


ELECTRICAL SERVICING TROLLEY, 60 K.V.A./10kW (HOUCHIN TYPE)



Ref. No. 4F/3974 (Engine-driven)
4F/3975 (Elect. motor-driven)

Dimensions ... Length 11 ft. (15 ft. with towbar extended)
Width 5 ft. 6 in., Height 5 ft. 6 in.

Associated publication A.P.4343S, Vol. 1, Sect. 23, Chap. 26

BRIEF DESCRIPTION

This trolley is designed to supply a.c. and d.c. power for the servicing of aircraft electrical and radio equipment. The generating set comprises an A.E.C. 115 b.h.p. diesel engine, or a 90 h.p. 400V, 50 c/s, 3-phase motor, driving a salient pole, brushless a.c. generator which has a three-phase exciter and silicon diodes, mounted on its drive shaft. The a.c. output is controlled by a transistorized voltage regulator and a load compensating unit; the d.c. output, which is obtained through a transformer-rectifier, is regulated by saturable reactors. Provision is made for the supply of both a.c. and d.c. power for portable tools and test equipment. The control gear is installed in a withdrawable unit at the rear of the trolley. The engine and motor driven versions are identical except for the different installations for the two types of drive. A.C. output is 60 kVA 200V, 400 c/s, 3-phase and is maintained within 1% of the rated voltage at the aircraft supply socket under all load conditions. The 10 kW d.c. output is maintained at 28-volts within 2½% from no-load to full-load. Both output ratings are continuous and are available simultaneously.

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