

RESTRICTEDBR 333(1)
Original

**AERIAL EXCHANGE OUTFIT EY(1)
(ICS 1)
SUMMARY OF DATA**

EY(1)**PURPOSE**

Outfit EY(1), fitted in conjunction with a common-aerial outfit and base-tuning outfits enables the outputs of 14 single-drive transmitters, each supplied to a plug of the (Transmitter) Aerial Exchange to be connected to aerials supplied from the sockets of the exchange. When fitted for Triple Drive, 8 transmitter inputs provide 14 transmitter channels. Provision is made for the connection of six aerials A1-A6:-

- A1 } Up to eight transmitters connected
A2 } simultaneously via tunable Filters
A3 } to each aerial.

Transmitters connected to aerial filter sockets may alternatively be connected to one of two external dummy loads.

- A4 } One transmitter connected to each of the base-
A5 } tuned HF aerials.

- A6 One transmitter connected to the MF base-tuned aerial.

BRIEF DESCRIPTION

The outfit comprises a cabinet containing 14 flexible conduits terminated with the transmitter multi-pole plugs hanging conveniently for manual connection to the 27 aerial sockets. Association of a particular transmitter control equipment with the selected aerial circuits is effected by the multi-circuit connection of a plug and socket and by two groups of relays. The 7 relay units concerned with the transmitters are in a drawer, and the 2 relay units concerned with the aerials slide into the base of the cabinet. Two coaxial switches in the drawer are driven by motors of the rotary solenoid and ratchet type to perform the connection to dummy load.

MAJOR UNITS

5895-A.P.164606 Aerial Exchange, Transmitter
5895-99-418-1259 (A.P.164718) Relay Unit (7 in No.)
5895-99-418-1398 (A.P.164644) Switch Unit Coaxial (2 in No.)
5895-99-418-1381 (A.P.164623) Relay Unit (3 in No.)

ELECTRICAL CHARACTERISTICS

The r.f. connections within the exchange are by UR.67 cable ($Z_0 = 50$ ohms).

PHYSICAL DATA

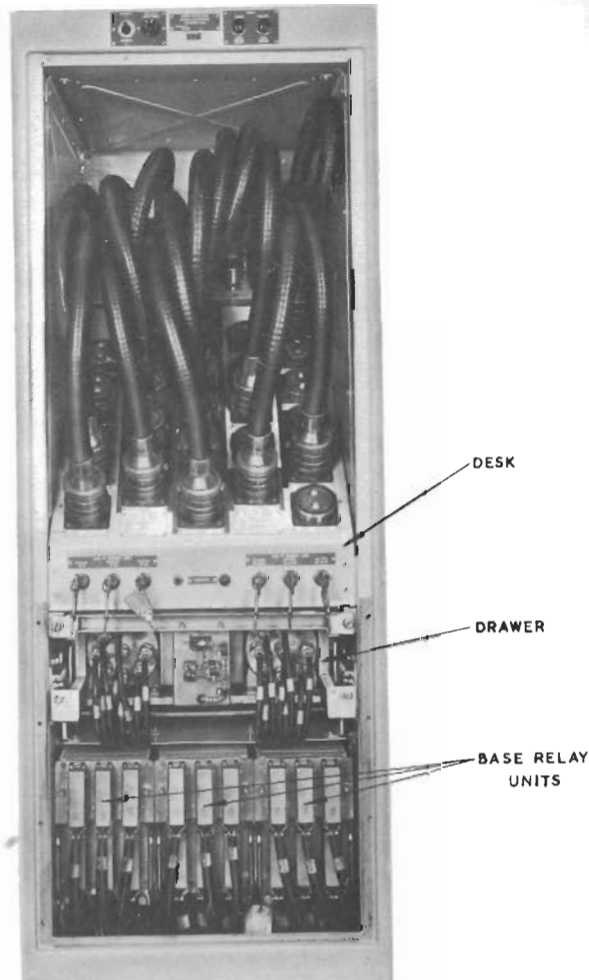
	Height	Width	Depth	Weight
5895-A.P.164606 Aerial Exchange, Transmitter	5 ft 6 in	2 ft 0 in	2 ft 3 in	

POWER REQUIREMENTS

Two supplies of 24 V d.c. at 5 amps (used as alternatives).

HANDBOOKS

BR 2420(1)(2) Transmitter Aerial Systems for I.C.S.

**INSTALLATION SPECIFICATION**

8919

ESTABLISHMENT LIST

E1304

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