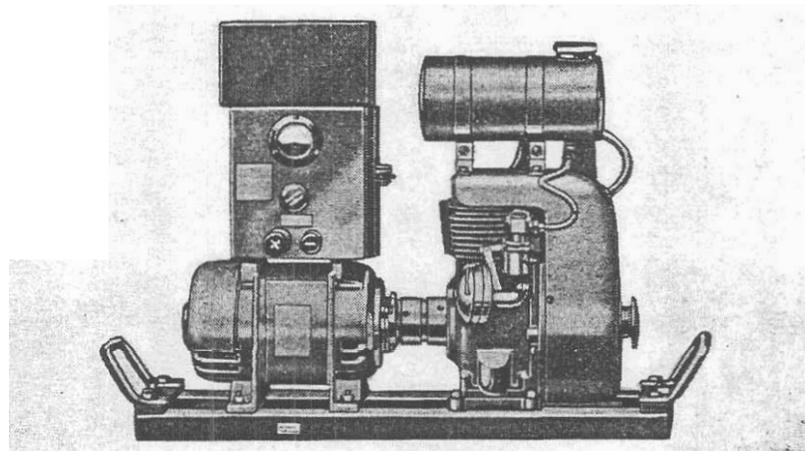
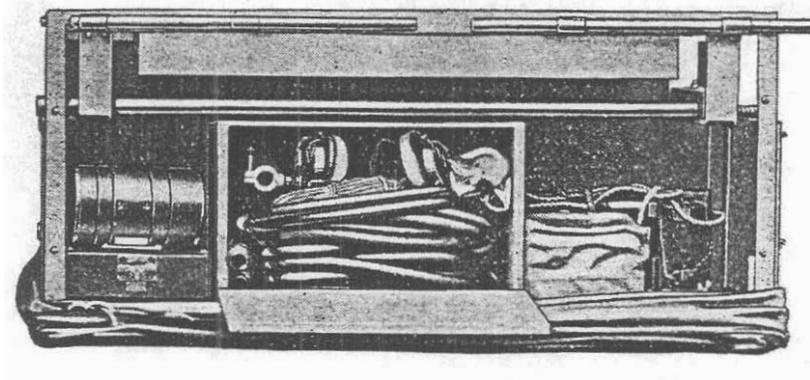
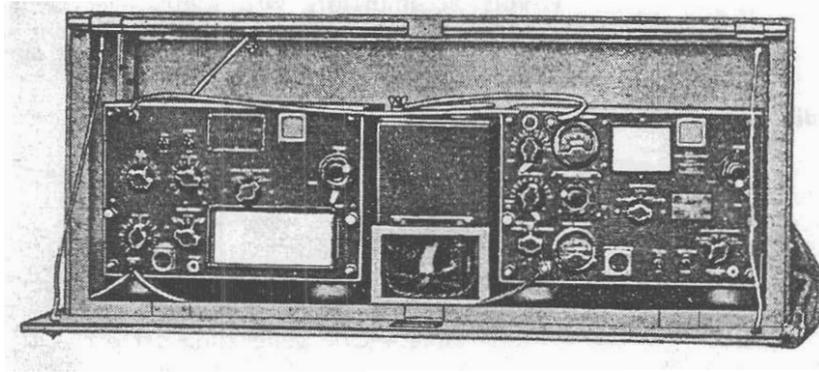


For further information see:—
90 Group Operational Instruction
Pamphlet No. 65 (R.A.F.)

STATIONS, PORTABLE, W/T-R/T, Type 20 (10D/1776)



Function

A transportable transmitting and receiving station to work on W/T or R/T channels. The transmitter-receiver employed is the Collins 18Q modified. Power is obtained from a 12-volt accumulator

Frequency range

1.5 Mc/s to 12 Mc/s

Frequency control

Transmitter:—Crystal or master-oscillator controlled. 1st, 2nd or 4th harmonics of crystals in the range 1.5 to 3.0 Mc/s
Receiver:—Crystal-controlled or continuous frequency cover

Aerial

Transportable vertical mast type for both transmission and reception. Aerials, mast, Type 13, used with latest models. Earlier models used W/O Aerial, vertical, 34 ft. (108/17A)

- 1 Remote control, Type 314M (Collins)
- 1 Telephone set, F. Mk. II
- 1 Power unit, Type 414
- 1 Aerial, mast, Type 13 or
- 1 Aerial, vertical, 34 ft.
- 1 Lyon-Alco 360 watt P/E set
- 2 12V. 40 Ah. accumulators

Power output

Approx. 40 watts CW and 20 watts R/T

Power supplies

12-volt accumulators with petrol-electric generating set 14-20 V., 360 watts (42S/1). Earlier versions of station fitted with P/E generating sets, 32 V., 288 watts (42U/500) or 350 watts (142U/16)

Transit cases with dimensions and weights

No.	Containing	Dimensions in inches	Weight
1	Transmitter-receiver	$41\frac{3}{4} \times 20 \times 21\frac{1}{2}$	1 cwt. 98 lb.
2	Power unit, controls, aerial etc.	$41\frac{3}{4} \times 20 \times 21\frac{1}{2}$	1 cwt. 104 lb.
3	Accumulators	$24 \times 16\frac{1}{4} \times 14\frac{1}{2}$	1 cwt. 30 lb.
4 &	Generating set, 42S/1	$29 \times 19 \times 38\frac{1}{4}$	1 cwt. 100 lb.
5	and connectors, etc.	(each)	(each)

Note:—One generating set each, No. 4 and No. 5

Total weight of cases

8 cwt. 96 lb. approx.

Weight of largest case

1 cwt. 104 lb.

Remarks

The P/E set may be used on the float-charge principle where protracted periods of operation are required