

5820-A.P. 105113
CONTROL UNIT,
ELECTRICAL FREQUENCY

5820-A.P. 105112
AMPLIFIER, A.F.

5820-A.P. 105114
INDICATOR, FREQUENCY
SEPARATION

5820-A.P. 105116
D.C. AMPLIFIER

6130-A.P. 105117
POWER SUPPLY

5820-A.P. 105115
OSCILLATOR,
AUDIO FREQUENCY

SELECTOR AERIAL
DUAL DIVERSITY

RECEIVER, RA17L

5820-A.P. 105149
PANEL, SIGNAL DISTRIBUTION

5915-A.P. 105157
FILTER SWITCHING UNIT

5945-A.P. 105936
RELAY UNIT

OUTFIT CGR
FRONTISPIECE

SUMMARY OF DATA

PURPOSE

A dual space diversity receiver for automatic morse or teleprinter working.

TYPE OF RECEPTION

F.S.T. or f.f.d. using 400 c/s between emitted frequencies; on-off or reversed on-off telegraphy.

FREQUENCY RANGE

1 to 30 Mc/s.

PHYSICAL DIMENSIONS

Height 72 in. Width 21½ in. Depth 27½ in.

MAJOR UNITS

NSN

| | |
|-------------------|--------------------------------|
| 5975-A.P.105110 | Cabinet, Electrical Equipment |
| 5820-A.P.105112 | Amplifier A.F. |
| 5820-A.P.105113 | Control, Electrical Frequency |
| 5820-A.P.105114 | Indicator, Frequency Separator |
| | |
| 5975-A.P.105111 | Cabinet, Electrical Equipment |
| 5820-A.P.105115 | Oscillator A.F., two |
| 5820-A.P.105116 | Amplifier D.C., two |
| 6130-A.P.105117 | Power Supply, two |
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| 5975-A.P.105158 | Cabinet, Electrical Equipment |
| *5820-99-999-9292 | Receivers RA17L, two |
| 5820-A.P.105149 | Panel Signal Distribution |
| 5985-A.P.105936 | Telegraph Relay Unit |
| 5995-A.P.105169 | Cable Assembly |
| 5895-A.P.164320 | Notice Display Board |
| 5915-A.P.105157 | Filter Assembly Electrical |
| 5820-99-971-8073 | Diversity Switch Unit |
| or A.P.105880 | Selector Aerial Dual Diversity |
| A.P.105179 | Cable Assembly, two |



OUTFIT CGR

*Note that the two receivers are supplied as two Receiver Outfits CHC(2). Some of these units are common to Outfit FAF Series.

BRIEF TECHNICAL DESCRIPTION

Two RA17L receivers are connected to spaced aeriars. Signals received via the two paths are amplified and mixed to produce 100 kc/s i.f. outputs. The receivers are operated in a phase-locked condition by having both driven from a common source, namely the 1 Mc/s oscillator of one receiver, and using a common second v.f.o. The related i.f. outputs of the two receivers are fed to the Diversity Switch Unit which selects the signal path supporting the larger amplitude signal and converts it to a.f. The signal then passes to the telegraph equipment for conversion to direct current code signals. This part of the outfit is a modified Receiver Adaptor Outfit FAF3. Additionally a Telegraph Relay Unit provides for connection to line for remote operation.

POWER REQUIREMENTS

200 to 250V, 50 to 60 c/s, single-phase a.c.

ESTABLISHMENT LIST

E1341.