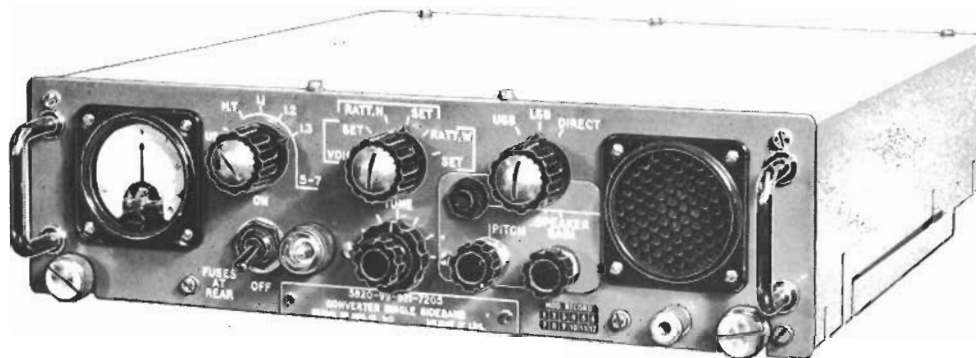


SUMMARY OF DATA



5820-99-971-7205 CONVERTER, SINGLE-SIDE-BAND

PURPOSE

Outfit FAZ enables Receivers 840 and 841 to receive either upper or lower, single-sideband transmissions. It allows attended or nominally unattended reception of the following types of signal:-

- (a) Wide-shift RATT (FST)
- (b) Narrow-shift RATT (FST)
- (c) SSB Voice

BRIEF DESCRIPTION

The i.f. signal from the Receiver is fed to the Adaptor which converts it to a lower frequency and extracts the SSB Information. The conventional method of demodulation involves the insertion in the receiver of a stable reference frequency, to replace the 'carrier'. Outfit FAZ uses the tuned circuits in the a.f. discriminator as an 'error detecting' device to tune the local oscillator so as to maintain:

- (a) the correct output tones in the case of RATT
- (b) an a.f. output spectrum centred on 815 Hz in the case of SSB voice, the median spectral frequency

SIGNAL INPUTS

10 mV r.m.s. at 500 kHz or 800 kHz.

MAJOR UNITS

5820-99-971-7205 Converter, Single sideband contains four, replaceable printed circuit boards:-

- (a) 5820-99-972-2760 Mixer Stage R.F.
- (b) 5820-99-972-2758 Amplifier I.F.
- (c) 5820-99-972-2759 Amplifier A.F. Loop
- (d) 5820-99-972-2761 Corrector A.F.

POWER SUPPLIES

230 V or 115 V, 50 or 60 Hz, single phase

PHYSICAL DATA

width	Depth	Height	weight
16½ in. (41.91 cm)	13 in. (33.02 cm)	3½ in. (8.89 cm)	17 lb (7.71 kg)

INSTALLATION

See BR 2432(5B), Chap. 2.

HANDBOOK

BR 2432

ESTABLISHMENT LIST

E1449

PRODUCTION SPECIFICATION

25500