

PURPOSE

To provide multichannel U/VHF (depending on variant) general purpose simplex communications.

BRIEF DESCRIPTION

For shipborne installations the transceivers are fitted in Cabinet Outfits YBC Series, which house and interconnect transceivers and interface units, facilitate connection to Common Aerial Outfit EBA (UHF only) and to ancillary units, user controls and services. The series includes a Low Magnetic Signature (LMS) variant.

- (1) **Cabinets.** Cabinets in the YBC Series are supplied to accommodate 1, 2 or 3 Type 1203 Series transceivers and interface units. All user connections are made via connectors on a terminal panel in the cabinet. YBC(1), (2) and (3) Cabinets contain relays to provide remote OVERHEAT indication and Radar Interference Suppression (RIS) facilities.
- (2) **Transceiver.** Nine variants with either manual control only or also including facilities for an additional 19 preset programmable channels are available. Each transceiver includes frequency standard and synthesizer circuits common to both transmitter and receiver.

MODES OF OPERATION

- | | |
|-----|---|
| VHF | Voice only using AM |
| UHF | Voice, Secure Speech, RATT and Data Transmission and Reception using AM or FM |

FREQUENCY RANGE

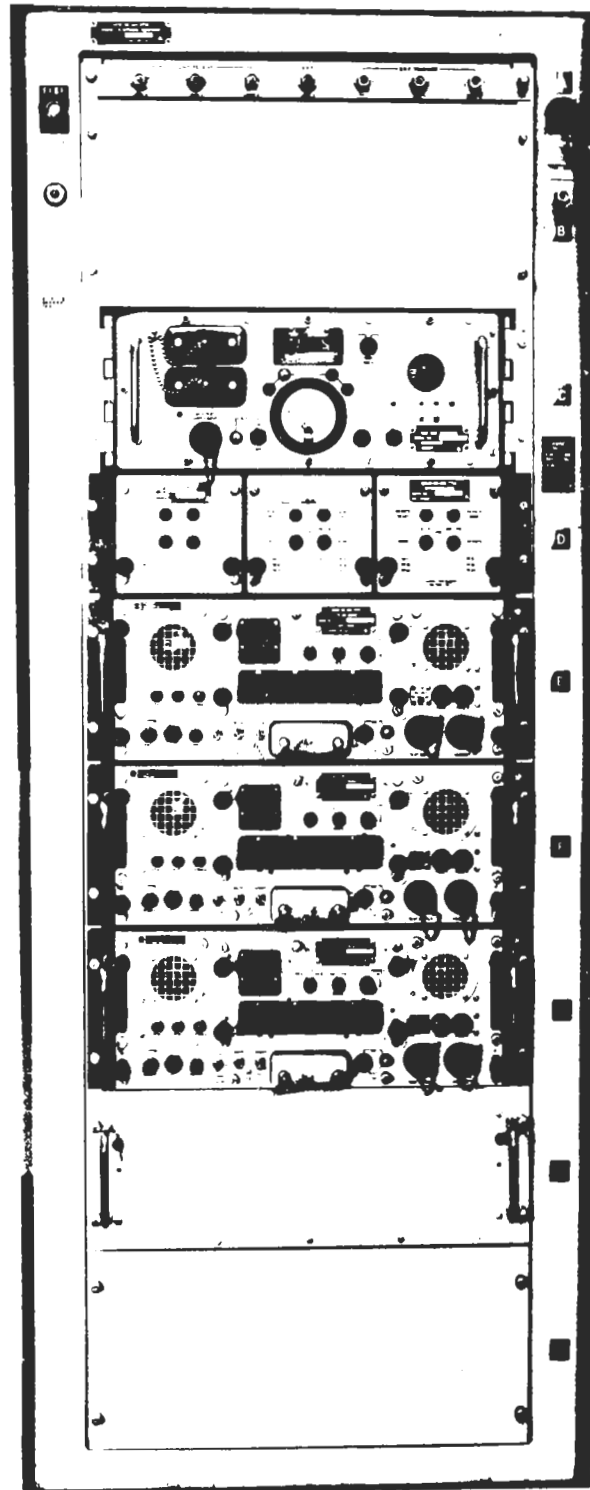
- | | |
|-----|-----------------|
| UHF | 225-399.975 MHz |
| VHF | 100-155.975 MHz |

NUMBER OF CHANNELS

- | | |
|-----|--------------------------|
| UHF | 7000 at 25 kHz intervals |
| VHF | 2240 at 25 kHz intervals |

PRESET CHANNELS

- 19 (when fitted with programmable controller)



MAJOR UNITS

(1) Cabinets YBC Series

NSN	Cabinet	Number of Units
5820-99-531-0734	YBC(1)	One transceiver, one interface unit
5820-99-531-0735	YBC(2)	Two transceivers, two interface units
5820-99-531-0736	YBC(3)	Three transceivers, three interface units
5820-99-537-7008	YBC(4)	Two LMS transceivers, two LMS interface units

(2) Transceivers

NSN	Type	Frequency Range	Major Functional Variations
5820-99-531-1168	1203(1)	V/UHF	Programmable, used with multicouplers
5820-99-531-1169	1203(2)	V/UHF	Manual only, used with multicouplers
5820-99-531-1170	1203(3)	V/UHF	Programmable, used without multicouplers
5820-99-531-1171	1203(4)	V/UHF	Manual only, used without multicouplers
5820-99-531-1172	1203(5)	UHF	Programmable, used with multicouplers
5820-99-531-1173	1203(6)	UHF	Manual only, used with multicouplers
5820-99-531-1174	1203(7)	UHF	Programmable, used without multicouplers
5820-99-531-1175	1203(8)	UHF	Manual only, used without multicouplers
5830-99-537-6992	1203(9)	UHF	LMS manual only

ANCILLARY ITEMS

NSN	Unit	Function	Location
5820-99-529-7736	Interface Unit	Interface between transceiver and remote facilities	YBC(1), (2) and (3) Cabinets
5820-99-537-7009	Interface Unit	Interface for LMS systems	YBC(4) Cabinet
5820-99-527-4135	Control, Frequency Selector (Remote Channel Selector) VCS Unit Type 337	Remote channel selection from up to 400 m	At Remote Position
5820-99-527-4136	Control, Frequency Selector (Remote Channel Selector) CCU Tray, Type 57	Remote channel selection from up to 400 m	At Remote Position
5820-99-529-7734	Test Unit, Diagnostic	Diagnostic testing of Type 1203 transceiver to plug-in subassembly level	Portable or fitted in YBC(3) Cabinet

PHYSICAL DETAILS

Unit	Height	Width	Depth	Weight
Cabinet YBC(1)	441 mm	609 mm	736 mm	41.5 kg
Cabinets YBC(2)/(4)	663 mm	609 mm	736 mm	62.5 kg
Cabinet YBC(3)	1641 mm	609 mm	736 mm	132.8 kg
Transceiver Type 1203	174.5 mm	482 mm	710.5 mm	55 kg max.
Interface Unit	127 mm	135 mm	180 mm	1.4 kg
VCS Type 337	151 mm	151 mm	200 mm	1.5 kg
CCU Tray Type 57	203 mm	120 mm	150 mm	1.5 kg
Test Unit, Diagnostic	176 mm	443 mm	353 mm	13.5 kg

ELECTRICAL CHARACTERISTICS

Frequency Stability	Better than ± 2.5 kHz over a 12 month period at any frequency in the VHF or UHF band
Power Supply	115 V/240 V ac single-phase 45—60 Hz isolated
Power Consumption	700 VA (approx) maximum
Power Output	UHF, 20 W (15 W minimum) switched attenuator fitted VHF, 10 W (minimum), always at full power available
Duty Cycle	Nil

ASSOCIATED AERIALS

AJK(1), (2) or UK/SRA—102 (CAW Outfit EBA)
AJL(1), (2)

HANDBOOK

BR 4273

ESTABLISHMENT LIST

Type 1203 Series — S1774
Outfit YBC Series — S1775

INSTALLATION SPECIFICATION

Outfit YBC Series and Type 1203 Series (1) to (8) — B1323
Outfit YBC Series (LMS) and Type 1203 Series (9) — B3058