

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

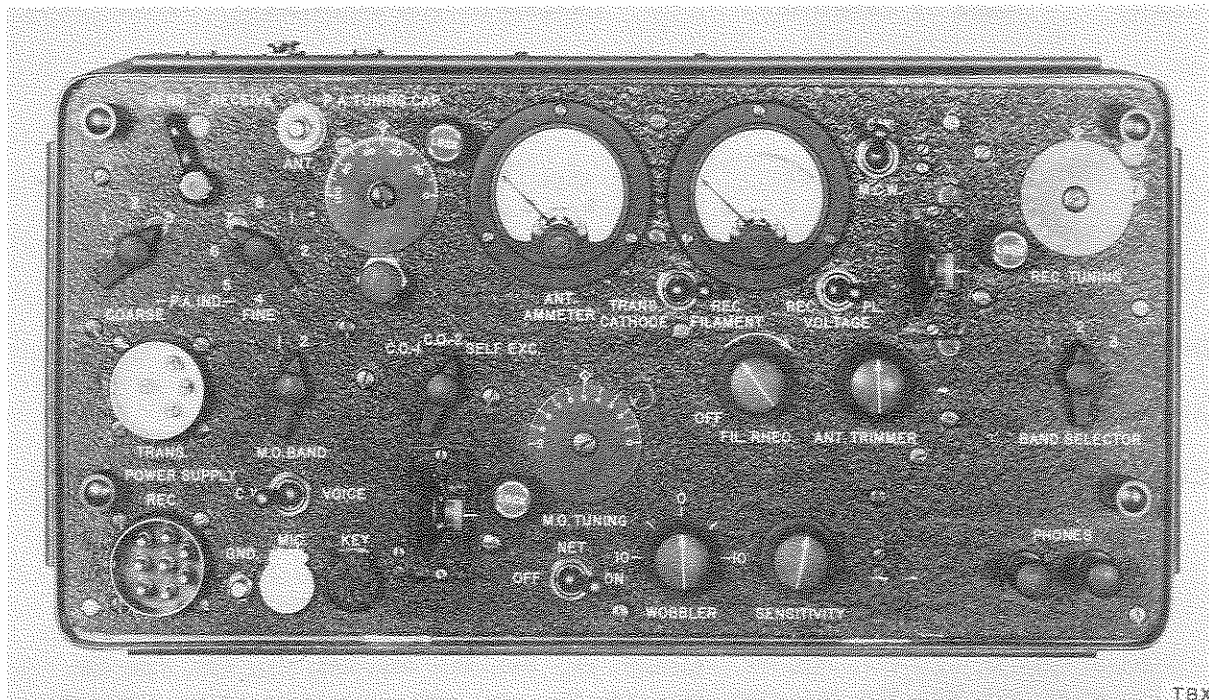
USING SERVICE: Navy

DATE OF THIS SHEET: 8 May 52

AN/TRC-TYPE

SERVICE TYPE NO: TBX, TBX-1 through 8, and TBX-4a

PORTABLE RADIO TRANS & REC EQUIP



Portable Radio Transmitting and Receiving Equipments TBX, TBX-1 through -8, and TBX-4a are compact, lightweight, transportable h-f equipment for general purpose a-m (cw, mcw) communication between shore stations, and between shore stations and surface craft. Either a vertical rod or single-wire T-type antenna can be used.

The basic set is composed of a transmitter and receiver combined in a single cabinet, a hand generator, and an accessory (battery) box.

The transmitter provides a continuously variable master oscillator and two crystal channels, the receiver has a continuously variable oscillator for frequency control.

Auxiliary power supplies for the transmitter (dependent on the type of installation) are Navy Models EF Gasoline Engine Driven Generator Equipment, EG AC Motor Generator Equipment, EH DC Motor Generator Equipment and EJ Dynamotor Equipment.

Auxiliary power supplies for the receiver are Navy Models EL Auxiliary Rectifier Power Equipment, EM, EN, EO, and EP Auxiliary Dynamotor Equipment.

AN/TRC-TYPE	INSTRUCTION LITERATURE: GEI-16829
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transmitter-Receiver Unit CG-43005	8-1/2 x 16-1/2 x 10	32.1
1	Generator (Hand or Engine Driven) CG-21263A	14-1/8 x 19-1/2 x 6-11/32	27.2
1	Accessory Box CG-10026A	10 x 16-1/2 x 7-53/64	34.1
1	Antenna Assembly	Not Available	11.2

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations, shipboard.

INSTALLATION: Ground, shipborne.

APPROXIMATE RANGE (IN MILES): Cw: 30.
Voice: 15.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3;
AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -15, -17, -18; AN/GRC-9, -13, -26;
AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; AN/SRR-3, -8, -12, -13; AN/SRT-4;
AN/TRQ-1; AN/URR-10, -22, -23; AN/URT-2, -3, -4; AN/VRC-1, -4; AN/VRR-2; BC-191, -312, -339,
-342, -348, -401, -447, -610, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC, -60A/FRT,
-60B/FRT; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U,
-211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBG; RBH; RBM; RBO; RBP;
RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499,
-506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -172/FR,
-173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBX; TCB;
TCC; TCE; TCH; TCK; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TDO; TE8; TEC; TEF; AR-88 (RCA); Collins
18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-B;
National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICSFREQUENCY RANGE IN MEGACYCLES: Transmitter: 2.0 - 4.525.
Receiver: 2.0 - 8.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, voice.

POWER OUTPUT: Cw: 9 w.
Voice: 3 w.POWER REQUIREMENTS: Transmitter: 500, 12, and 6 v, dc supplied by hand generator; 3 v,
Receiver: supplied by two NT-19010 batteries; 90 and 135 v,
supplied by three NT-19005 batteries; 6 and 15 v,
supplied by two NT-19011 batteries.**PHYSICAL CHARACTERISTICS**Information on Portable Radio Transmitting and Receiving Equipment TBX, TBX-1 through 8,
and TBX-4a not available.