

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

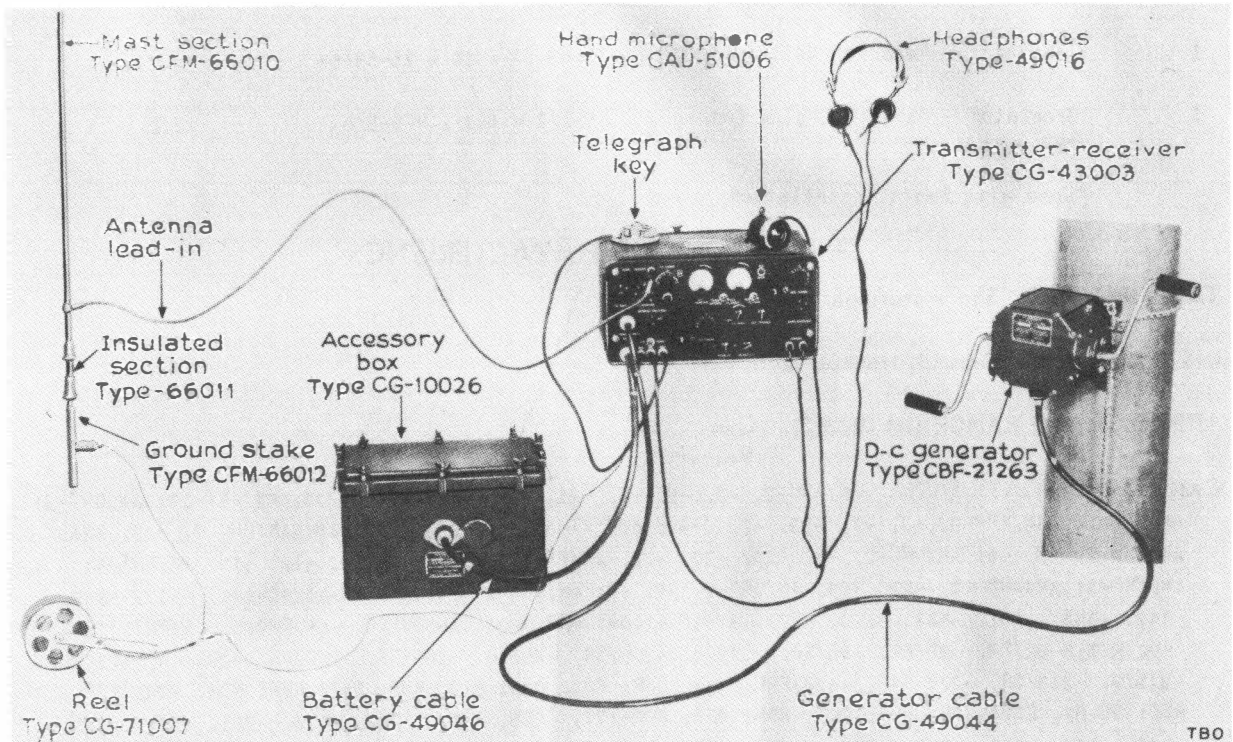
DATE OF THIS SHEET: 23 May 52

AN/TRC-TYPE

SERVICE TYPE NUMBER:

TBO

RADIO TRANSMITTING AND RECEIVING EQUIPMENT



Radio Transmitting and Receiving Equipment TBO is a compact, lightweight, transportable, h-f equipment for general purpose communication between shore stations, and between shore stations and surface craft, by a-m (cw, voice) signals.

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

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

Either a vertical rod, or a single-wire T-type antenna can be used.

Auxiliary power supplies for the transmitter (dependent on various types of installations) are Navy Models EF Gasoline-Engine-Driven Generator Equipment, EG AC Motor Generator Equipment, EH DC Motor Generator Equipment, and CG-21265 Dynamotor Equipment.

AN/TRC-TYPE		INSTRUCTION LITERATURE: GEI-854-1B
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transmitter-Receiver Unit CG-43003	7-53/64 x 10 x 15-53/64	29.2
1	Generator - Hand or Engine Driven CBF-21263*	9-1/2 x 6-1/2 x 6-3/8	22.0

*Used with basic installation.

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground, transportable.

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; TDM; TDO; TEB; 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 WW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: Transmitter: 2.0 - 3.5.

Receiver: 2.0 - 8.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, voice.

POWER OUTPUT: Transmitter: Cw, 9 w; voice, 3 w.

POWER REQUIREMENTS:

Transmitter: 500 and 12.6 v, dc supplied by the hand generator. 3 v, supplied by two
Receiver: 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

Radio Transmitting and Receiving Equipment TBO weighs 196 pounds net.
Packed for domestic shipment: total weight 196 pounds.