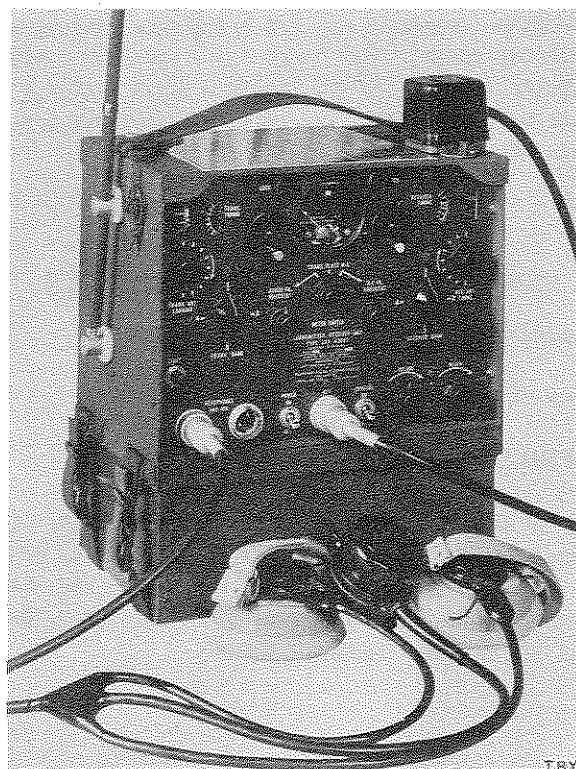


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 9 May 52

AN/PRC-TYPE

SERVICE TYPE NUMBER: TBY, TBY-1, -2
ULTRA PORTABLE TRANS & REC EQUIP



Ultra Portable Transmitting and Receiving Equipments TBY, TBY-1 and -2 are field, v-h-f radio communication sets designed for transportation as knapsack loads and may be operated while being carried on the operator's back.

The equipments are complete and self-contained, and specially designed for field use. They may be stowed and carried in shipping chests or pack transported.

Continuous tuning throughout the frequency range and crystal calibration of frequency are provided for both transmission and reception.

AN/PRC-TYPE		INSTRUCTION LITERATURE: NavShips 95299
:SERVICE TYPE NUMBER		CLASSIFICATION OF EQUIPMENT: Unclassified
TBY, TBY-1, -2		USING SERVICE : Navy
ULTRA PORTABLE TRANS & REC EQUIP		DATE OF THIS SHEET : 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Shipping Chest CAY-10038, -10142	10-7/8 x 20 x 16-7/16	20.6
1	Canvas Carrying Case CSg-10039	15-7/8 x 12-3/8 x 7-5/8	3.5
1	Battery Pack CGD-19018, 19018-A	4-1/2 x 9-3/8 x 6-9/16	13.0
1	Transmitter-Receiver Unit CAY-43007	12-3/32 x 10-23/32 x 7-1/4	23.0
1	Flagelliform Antenna CWA-66025	108 x 3/8 dia	0.7

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Field or advanced bases.

INSTALLATION: Ground, portable.

APPROXIMATE RANGE (IN MILES): Line of sight.

CAN COMMUNICATE WITH: AN/CRW-7; AN/FRR-12, -28, -32; AN/FRT-15, -17, -18; AN/GRR-2, -3; AN/SRR-13; AN/URR-10, -12, -23; AN/URT-10; AN/VRT-1; BC-787, -794; MBF; OA-58/FRC; R-62/PR, -80/PR, -137/GR, -205/U, -211/U, -274/FRR, -320/FRC, -388/URR; RAO; RAS; RBG; RBK; RCF; RCG; RDM; SCR-607, -704; T-173/FR; TBS; TBY; AR-88 (RCA); Collins 75A-2; Hammarlund SP-600-JX; Marconi TH-41-B; National HRO-50; Westinghouse Type MW.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 28 - 80.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Mcw, voice.

POWER OUTPUT: Receiver: 1 mw into 600 ohm load.
Transmitter: 0.5 w.

POWER REQUIREMENTS: 8.72 w (from Battery Pack Navy Type CGD-19018, -19018-A).
Normal battery life is 30 hours with a 50:50 transmit-receive duty cycle.

PHYSICAL CHARACTERISTICS

Ultra Portable Transmitting and Receiving Equipments TBY, TBY-1, -2 measure 157/8 x 12-3/8 x 7-5/8 inches, net weight 82 pounds, volume 2.1 cu ft.