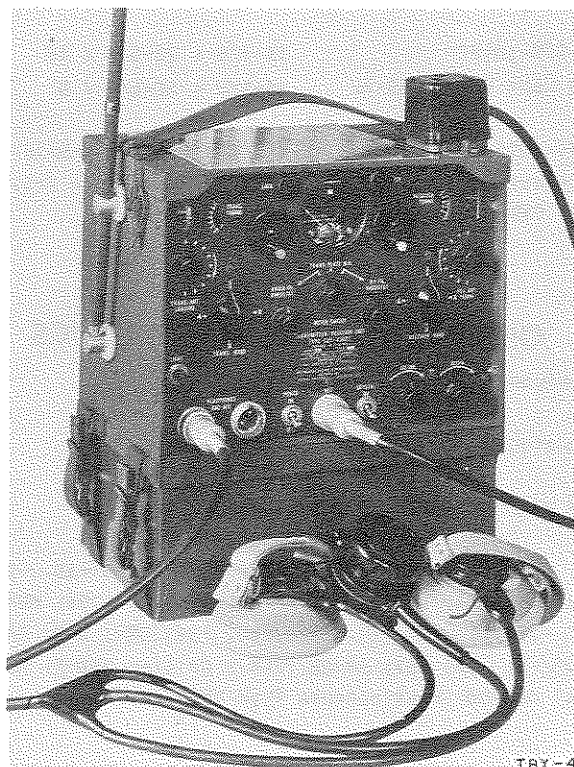


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 9 May 52

AN/PRC-TYPE

SERVICE TYPE NUMBER: TBY-4, -6, -7, -8
ULTRA PORTABLE TRANS & REC EQUIP



TBY-4

Ultra Portable Transmitting and Receiving Equipments TBY-4, -6, -7, and -8 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 through the frequency range and crystal calibration of frequency are provided for both transmission and reception.

AN/PRC-TYPE		INSTRUCTION LITERATURE: NavShips 95596
:SERVICE TYPE NUMBER		CLASSIFICATION OF EQUIPMENT: Unclassified
TBY-4, -6, -7, -8		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 CFG-10197	11-7/8 x 22-5/8 x 18	22.5
1	Canvas Carrying Case CSS-10039-A, -10039-B	16-1/2 x 12-1/2 x 8	3.5
1	Battery Pack CNC-19018-B	4-1/2 x 9-3/8 x 6-9/16	13.0
1	Transmitter-Receiver Unit CRI-43044	12-3/32 x 11-7/8 x 7-1/4	33.4
1	Antenna Assembly CWN-66087, -66087-S	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 ohms.
Transmitter: Voice: 0.75 w; mcw: 0.5 w.

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

PHYSICAL CHARACTERISTICS

Ultra Portable Transmitting and Receiving Equipments TBY-4, -6, -7, -8 measure 16-1/2 x 12-1/2 x 8 inches, net weight 90 pounds, volume 2.75 cu ft.