

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

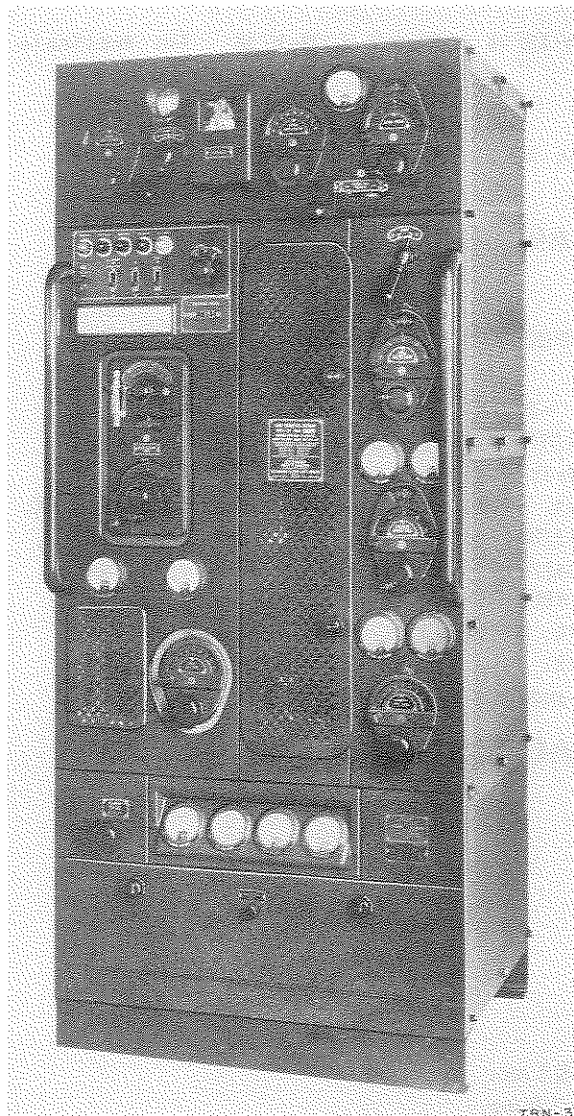
DATE OF THIS SHEET: 29 May 52

AN/SRT-TYPE

SERVICE TYPE NUMBER:

TBN-3

RADIO TRANSMITTING EQUIPMENT



TBN-3

Radio Transmitting Equipment TBN-3 is a combined m-f and h-f equipment for shipboard a-m (cw, mcw, voice) transmission. Two separate transmitter units are alternately operated from a common rectifier. The h-f transmitter is arranged for cw, mcw, and voice transmission, while the m-f unit operates on cw and mcw only.

These transmitters may be keyed at speeds up to 100 wpm.

The full power output of either transmitter may be varied down to 25% of the maximum for telegraphic signaling.

These transmitters are master oscillator controlled, and are continuously variable over their frequency ranges.

Provisions are made for remote control using the standard four-wire control system.

Speech input equipment is provided for remote telephone operation of the h-f transmitter.

AN/SRT-TYPE		INSTRUCTION LITERATURE: Not Available
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Rectifier CAY-20033	72 x 38 x 24	1,460
2	Transmitter Unit CAY-52046, -52048	72 x 32 x 24	748
1	Single-Channel Speech Input Equipment Consisting of: 1 Rectifier Power Unit-Telephone CW-20039	24-13/16 x 16-5/8 x 24-5/16	Not Available
	1 Master Monitor Unit CW-23072	Not Available	" "
	1 Station Control Unit CW-23070	" "	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard.

INSTALLATION: Shipborne, fixed.

APPROXIMATE RANGE (IN MILES): Medium.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -21, -25; AN/ARR-15; AN/FRR-3, -4, -7, -12, -28; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; AN/SRC-3; AN/SRR-3, -8, -11, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; AN/VRR-2; BC-312, -314, -342, -344, -348, -453, -779, -794, -1004; HBS; MQ; OA-58/FRC, -59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -212/SR, -213/SR, -215/SR, -247/URR, -274/FRR, -320/FRC, -388/URR; RAK; RAL; RAO; RAS; RBA; RBB; RBC; RBG; RBH; RBL; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDF; RDM; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -543, -593, -704; TBO; TBX; TCH; TCP; TCS; AR-98 (RCA); ARC Type 12; Collins 18S-4 (AF Model); Collins 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.3 - 18.1.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, mcw, cw.

POWER OUTPUT: HF Transmitter: 500 w at 2.0 to 18.1 mc.
MF Transmitter: 1,000 w at 0.3 to 2.0 mc.

POWER REQUIREMENTS: 440 v, 60 cyc, 3 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipment TBN-3 measures 72 x 102 x 24 inches.