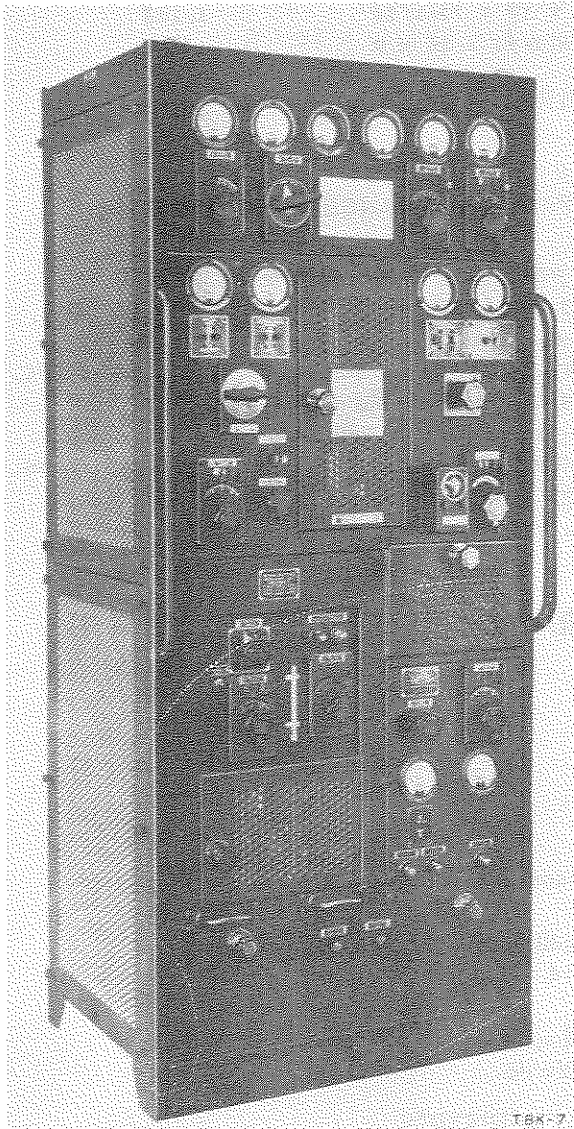


STATUS: Limited Standard  
CLASSIFICATION OF EQUIPMENT: Unclassified  
USING SERVICE: Navy  
DATE OF THIS SHEET: 8 May 52

**AN/URT-TYPE**

SERVICE TYPE NO: TBK-7 thru 10, -12 thru -14, -17 thru -20  
RADIO TRANSMITTING EQUIPMENT



Radio Transmitting Equipments TBK-7 through -10, -12 through -14, and -17 through -20, are a-m (cw) radiotelegraph transmitters for use on all type Naval vessels, except certain types of submarines, for h-f communications. Keying speeds up to 100 wpm are possible. The transmitter power output may be varied from full power to a minimum of 75 w.

These transmitters are master oscillator control and are continuously variable over the frequency range.

Provisions are made for control over a standard four- or six-wire remote control system. Local operation from the transmitter panel is usually reserved for test purposes.

A vertical antenna 60 to 80 feet long is preferred.

The type transmitter, motor generator, and magnetic controller components used with the various equipments depends upon the power source available. Motor generators are of the three-unit type mounted on a single bedplate.

Power for operation of the magnetic controllers is obtained from the transmitter control circuits.

|                                                                                             |                                                                                        |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>AN/URT-TYPE</b>                                                                          | INSTRUCTION LITERATURE:<br>See note below*<br>CLASSIFICATION OF EQUIPMENT:Unclassified |
| TBK-7 thru 10, -12 thru -14, -17 thru -20: SERVICE TYPE NO.<br>RADIO TRANSMITTING EQUIPMENT | USING SERVICE : Navy<br>DATE OF THIS SHEET : 8 May 52                                  |

**MAJOR COMPONENTS**

| QUANT | NAME OF COMPONENT        | DIMENSIONS (IN) INSTALLED | WEIGHT (LBS) |
|-------|--------------------------|---------------------------|--------------|
| 1     | Radio Transmitter        | 72 x 32 x 24-9/16         | 740          |
| 1     | Motor Generator Unit     | 23 x 19 x 71-1/16         | 1,162        |
| 1     | Magnetic Controller Unit | 19-21/32 x 16 x 9         | 48           |

**OPERATIONAL CHARACTERISTICS**

TACTICAL USE: Shipboard or submarines.

INSTALLATION: Shipborne, submarine.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; AN/VRR-2; BC-312, -342, -348, -779, -794, -1004; MBS; 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, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -694, -704; TB0; TBX; TCH; TCP; TCS; AR-88 (RCA); 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: 2.0 - 18.1.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw.

POWER OUTPUT: 2.0 to 18.1 mc: 500 w.

2.0 to 9.05 mc (power amplifier disconnected): 75 w.

POWER REQUIREMENTS: TBK-7 and -18: 3.65 kw, 440 v, 60 cyc, 3 phase, ac.

TBK-8, -9, -10, -12, -13, -14, -17, -18: 220/440 v, 60 cyc, 3 phase, ac; or 115/230 v dc.

TBK-19: 3.34 kw, 220/440 v, 60 cyc, 3 phase, ac; or 230 v dc.

TBK-20: 3.83 kw, 115/230 v dc.

**PHYSICAL CHARACTERISTICS**

Radio Transmitting Equipments TBK-7 through -10, -12 through -14, -17 through -20 weigh 2,653 pounds net. Packed for domestic shipment: total weight 3,630 pounds, total volume 164.8 cu ft, 4.12 ship tons.

\*NavShips 95293; 95294; 900,380; 900,386; 900,388; 900,482.