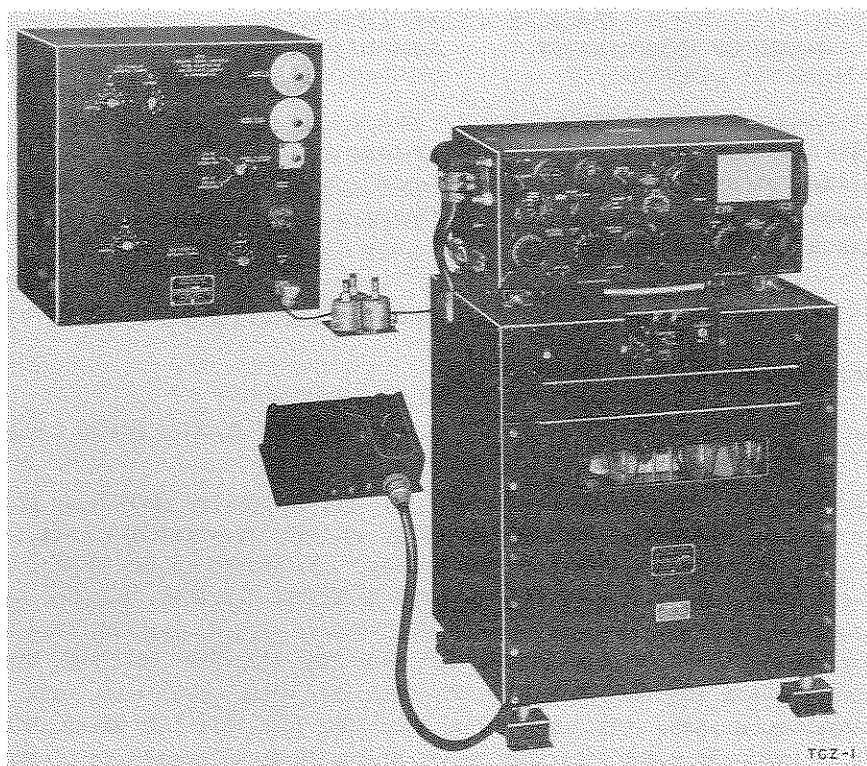


STATUS: Limited Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 9 May 52

AN/URT-TYPE

SERVICE TYPE NUMBER: TCZ-1, -2
RADIO TRANSMITTING EQUIPMENT



Radio Transmitting Equipments TCZ-1 and -2 are medium-power, general purpose, h-f equipment for ship or shore station use. An autotune system allows rapid, automatic selection of 11 preset channels; manual tuning throughout the frequency range is possible. A master oscillator is used for frequency control.

A frequency-limiting circuit, consisting of a combined tuning and load coil is used to tune the power amplifier over the 0.2 to 1.5 mc frequency range. The loading coil must be manually tuned for each change of frequency.

Provision is made for break-in operation so that an associated receiver may be used with the transmitter.

Remote control, by means of one or more remote selector units, or four- or six-wire radiophone units, is possible.

Motor Generator Rectifier COL-211322 is used with TCZ-1 for operation from a-c sources; Dynamotor Assembly COL-211624 is used with TCZ-2 for d-c operation.

AN/URT-TYPE		INSTRUCTION LITERATURE: NavShips 900,481(a)
TCZ-1, -2	SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANSMITTING EQUIPMENT		USING SERVICE: Navy
		DATE OF THIS SHEET: 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter COL-52286-A	10-3/4 x 23-9/16 x 13-1/4	70
1	Antenna Load Coil COL-47505	19-3/4 x 18-5/8 x 15-1/2	48
1	Motor-Generator Rectifier COL-211322	29-7/16 x 23-7/16 x 20-1/8	320
	or Dynamotor Assembly COL-211624	29-7/16 x 23-7/16 x 20-1/8	210
1	Remote Control Unit COL-23410	4-3/8 x 9-31/32 x 6-1/2	8

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard or shore stations.

INSTALLATION: Shipborne, ground.

APPROXIMATE RANGE (IN MILES): Medium.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -12, -28; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -20, -22; AN/PRC-7, -19, -20; AN/SRC-3; AN/SRR-3, -8, -11, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; BC-312, -314, -342, -344, -348, -453, -779, -787, -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, -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; REA; SCR-177; -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCP; TCS; AR-88 (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: 0.2 - 1.5 and 2 - 18.1 in 13 bands.

Band 1: 2.0 - 2.4	Band 5: 4.0 - 4.8	Band 9: 9.0 - 10.8
Band 2: 2.4 - 3.0	Band 6: 4.8 - 6.0	Band 10: 10.8 - 12.0
Band 3: 3.0 - 3.6	Band 7: 6.0 - 7.2	Band 11: 12.0 - 14.4
Band 4: 3.6 - 4.0	Band 8: 7.2 - 9.0	Band 12: 14.4 - 18.1
		Band 13: 0.2 - 1.5.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, cw, mcw.

POWER OUTPUT: 100 w.

POWER REQUIREMENTS: TCZ-1: 1,200 w, 110 - 115 v, 50/60 cyc, 1 phase, ac.
TCZ-2: 1,300 w, 115 v, dc.

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipments TCZ-1 and TCZ-2 measure 40-3/16 x 23-7/16 x 20-1/8 inches.