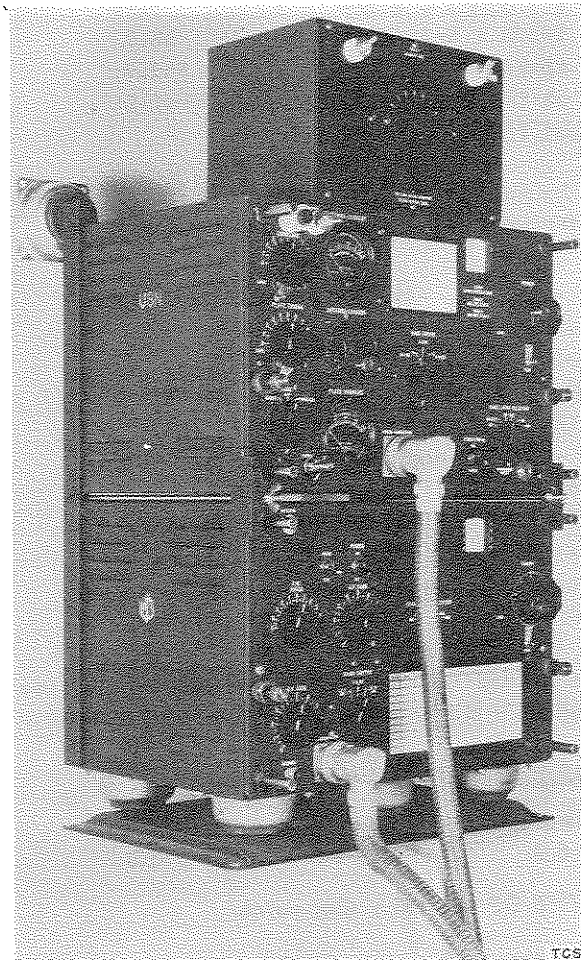


STATUS: Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

DATE OF THIS SHEET: 9 May 52

AN/URC-TYPESERVICE TYPE NUMBER: TCS, TCS-1 through -16
RADIO TRANS & REC EQUIP

Radio Transmitting and Receiving Equipments
TCS, TCS-1 through -16 are general service, semi-portable, m-f, and h-f telegraph and telephone communication sets, for patrol and landing craft, reconnaissance vehicles, and similar application.

Transmitter frequency control is by means of a continuously variable oscillator or four crystal-controlled channels. The crystals may be operated either on their fundamental, or harmonic frequencies, or both.

The receiver is continuously variable over the operating frequency range.

A remote control unit is supplied to provide loud speaker operation and remote control at distances up to 20 feet from the power supply.

Power supplies are available for operation from the following power sources: 12, 24, 32, 115, and 230-v dc; 115 and 230-v ac.

AN/URC-TYPE		INSTRUCTION LITERATURE: See note below*
TCS, TCS-1 through -16	SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANS & REC EQUIP		USING SERVICE : Navy
		DATE OF THIS SHEET: 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter NT-52245, -52245-A	11 x 13-3/4 x 11-13/16	48.0
1	Radio Receiver NT-46159, -46159-A	11-1/16 x 13-13/16 x 11-7/8	38.0
1	Remote Control Unit NT-23270, -23270-A	4-3/8 x 7-3/8 x 5-3/4	6.0
1	Antenna Loading Coil NT-47205	6 x 8-1/2 x 6-3/4	3.75
1	Dynamotor Assembly, or Motor Generator	9-5/8 x 9-25/32 x 12-15/16	35.0
	Assembly, or	12-1/8 x 16 x 22-1/2	115.0
	Rectifier Power Unit	10-1/8 x 17-1/4 x 16-1/4	93.0

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard or shore stations.

INSTALLATION: Shipborne, ground, vehicular. APPROXIMATE RANGE (IN MILES): Short.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -15, -17, -18; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/HRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/SRT-4; AN/TRQ-1; AN/URR-10, -22, -23; AN/URT-2, -3, -4; AN/VRC-1, -4; AN/VRR-2; BC-191, -312, -314, -339, -342, -344, -348, -401, -447, -610, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC, -60A/FRT, -60B/FRT; 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, -398/URR; RAL; RAO; RAS; RBB; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -607, -694, -704; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBW; TBX; TCB; TCC; TCE; TCH; TCK; TCO; TCP; TCS; TCZ; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-B; National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 1.5-12.0 in three bands.

Band 1: 1.5-3.0.

Band 2: 3.0-6.0.

Band 3: 6.0-12.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, voice.

POWER OUTPUT: Transmitter: 10 w on voice, 25 w on cw.

Receiver: 1.4 w, into 500 ohm load.

POWER REQUIREMENTS: Rectifier power units: 243 w, 115/230 v, 60 cyc, 1 phase, ac.

Dynamotor assemblies: 205 w, 12-24 v, dc. Motor generator assemblies: 445 w, 24 v, dc; 474 w, 32 v, dc; 397 w, 115 v, dc; 385 w, 230 v, dc; 390 w, 115 v, 60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitting and Receiving Equipments TCS, TCS-1 through -16 measure 28 x 13-3/4 x 11-7/8 inches.

* Instruction Literature: NavShips 900,291; 900,269; 900,575; 900,612; 900,705; 95319; 95320; 95321; 95322; 95601.