

STATUS: Limited Standard

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Navy

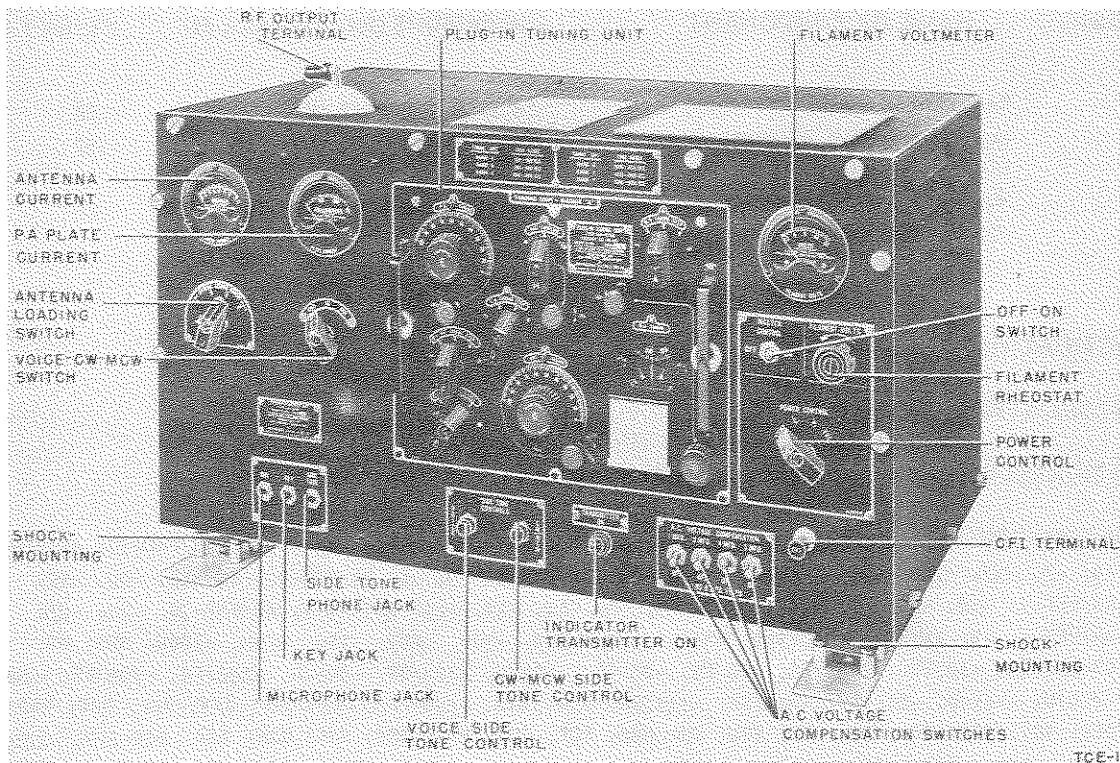
DATE OF THIS SHEET: 9 May 52

AN/SRT-TYPE

SERVICE TYPE NUMBER:

TCE-1

RADIO TRANSMITTING EQUIPMENT



Radio Transmitting Equipment TCE-1 is a compact, general purpose, low-power transmitter for small surface craft. It provides radiotelegraph or radiotelephone communications over the m-f/h-f ranges (when used in conjunction with a suitable receiver). Six plug-in type tuning units cover the frequency range.

Different motor generators and magnetic controllers are supplied, dependent upon power sources available.

A single wire antenna can be used for transmission and reception (if the associated receiver is connected to the antenna transfer terminal of this TCE-1).

This equipment can be operated from a remote location by means of a remote control unit such as Navy Type CAY-23245

AN/SRT-TYPE		INSTRUCTION LITERATURE: NavShips 95309
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CAY-52151	16 x 25-1/8 x 17-1/8	58
1	Motor Generator CC-21635 through CC-21638	12-1/2 x 28 x 14	160
1	Magnetic Controller CAY-21418, -21419, -21558, -21420	20-1/2 x 13-1/2 x 12-1/4	60

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard.

INSTALLATION: Shipborne.

APPROXIMATE RANGE (IN MILES): Medium.

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/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; 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, -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; TCO; TCP; TCS; 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: 0.35 - 9.05 in 6 bands.

Band A: 0.35 - 0.8

Band C: 1.5 - 3.0

Band E: 4.525 - 6.5

Band B: 0.80 - 1.5

Band D: 3.0 - 4.525

Band F: 6.5 - 9.05.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: Cw or mcw: 125 w.

Voice: 40 w.

POWER REQUIREMENTS: 1,200 w, 115 v, 60 cyc, 1 phase, ac; or 32/120/230 v, dc.

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipment measures 16 x 25-1/8 x 17-1/8 inches.