

STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Navy
 DATE OF THIS SHEET: 29 Apr 52

AN/URC-TYPE

SERVICE TYPE NUMBER: TBS, TBS-1 through -8
 VHF RADIO TRANS & REC EQUIP



VHF Radio Transmitting and Receiving Equipments TBS and TBS-1 through -8 provide a-m (cw, voice) radio communication between surface craft, and between submarines and surface craft. They are crystal-controlled and provide for full control of the transmitter from remote positions.

Chief difference between models of the TBS series is the type of motor generators and magnetic controllers employed as follows:

<u>MODEL OF EQUIPMENT</u>	<u>POWER SOURCE</u>	<u>MOTOR GENERATOR</u>	<u>MAGNETIC CONTROLLER</u>
TBS, TBS-1, -2, -3, -4, -5, -7, -8	120-v dc	CG-21300, -21300-A, -211127	CRV-21319
TBS-3, -4, -5, -6, -7, -8	230-v dc	CG-21745, -211130	CRV-21804
TBS, TBS-3, -4	220-v ac	CG-21301	CRV-21320
TBS, TBS-1, -2, -3, -5, -6, -7	*440-v ac	CG-21302, -211129	CRV-21320

*Transformer CAT-30445 is used for 440-v operation.

AN/URC-TYPE		INSTRUCTION LITERATURE: NavShips 900,590
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CRV-52093, -52093-A	10-1/2 x 23-1/2 x 17-3/4	75
1	Radio Receiver CRV-46068, -46068-A, -46068-B	8-3/4 x 25-13/16 x 16-7/8	45
2	Remote Control Unit CRV-23135	5-11/16 x 10-7/16 x 7-1/4	9
*1	Antenna Assembly CRV-66015	Not Available	46
**1	Antenna Assembly CRV-66016	" "	46

*Surface craft type. **Submarine type.

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard, submarine.

INSTALLATION: Shipborne, submarine.

APPROXIMATE RANGE (IN MILES): 10.

CAN COMMUNICATE WITH: AN/CRW-7; AN/URR-10, -12; AN/URT-10; BC-787; MBF; R-137/GR,
-274/FRR; RBK; SCR-607; TBS; TBY.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 60 - 80.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Mcw, voice.

POWER OUTPUT: Transmitter: 50 w.
Receiver: 2 w.

POWER REQUIREMENTS: 1,152 w, 120 v, dc; 1,152 w, 230 v, dc; or (2.8 amp) per phase, 220 v,
60 cyc, 3 phase, ac; or (1.4 amp) per phase, 440 v, 60 cyc, 3 phase, ac.

PHYSICAL CHARACTERISTICS

VHF Radio Transmitting and Receiving Equipments TBS, TBS-1 through 8 measure 19-1/4 x 25-13/16 x 17-3/4 inches. Packed for domestic Shipment: total weight 1,140 pounds, total volume 48.1 cu ft, 1.2 ship tons. Shipped in 9 packages.