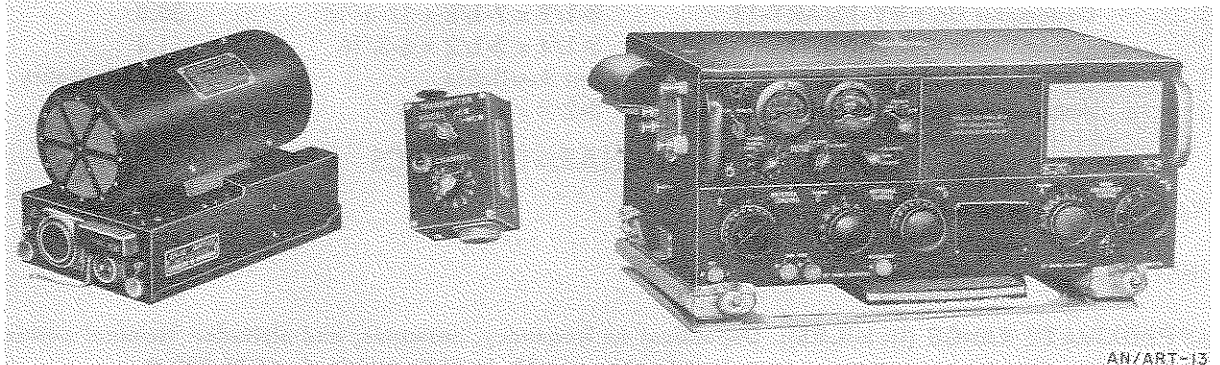


STATUS: Standard  
 CLASSIFICATION OF EQUIPMENT: Unclassified  
 USING SERVICE: Navy  
 DATE OF THIS SHEET: 9 May 52

# AN/ART-13

## RADIO TRANSMITTING SET



AN/ART-13

Radio Transmitting Set AN/ART-13 is a compact, lightweight, radio transmitter for air-ground communication in aircraft. An autotune system permits rapid selection of 10 preset channels within the h-f range and either c-w, m-c-w, or voice-modulated operation. These operating methods are selected through a local remote switch by radio operator or pilot.

The danger of allowing antenna radiated power to cover a longer range than is necessary has been eliminated by the use of a pressure operated relay.

This equipment includes a set of connectors and adapters but not the necessary interconnecting wires and cables.

Microphones, a table-type key, throttle switch, headphones, and the antenna system are not supplied.

This set does not include the l-f oscillator (which extends the range of the transmitter from 0.2 to 1.5 mc). Space for mounting this additional equipment is provided within the transmitter.

Either a trailing long wire antenna or a fixed antenna with the shunt capacitor can be used. A transmitter-to-receiver antenna transfer relay switch is included.

Sidetone monitoring is provided and frequency calibration is accomplished by the use of the CFI unit. This equipment formerly designated Aircraft Radio Transmitting Equipment ATC.

<b>AN/ART-13</b>	INSTRUCTION LITERATURE: AN-08-30ART13-5
	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANSMITTING SET	USING SERVICE: Navy
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### MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter T-47/ART-13	11-11/32 x 15-15/32 x 23-9/16	67.0
1	Mounting Base MT-284/ART-13	2-1/2 x 15-15/32 x 20-33/64	1.88
1	Dynamotor Unit DY-12/ART-13	8-1/2 x 7-1/8 x 12-3/16	30.0
1	Control Unit C-87/ART-13	3-1/4 x 3-1/2 x 6-3/16	1.4
1	Antenna Switching Unit SA-22/ART-13	Not Available	Not Available
1	Antenna Shunt Capacitor CU-24/ART-13	3-7/8 x 4-1/8 x 5	1.68

### OPERATIONAL CHARACTERISTICS

TACTICAL USE: Aircraft.

INSTALLATION: Airborne.

APPROXIMATE RANGE (IN MILES): Dependent on frequency, antennas, and altitude. Nominal power reduced automatically to 50% at altitude of 25,000 ft.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28; 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/YRR-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, -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, -614, -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: 2 - 18 (10 h-f channels only).

Use of a l-f oscillator provides an additional channel in the frequency band, 0.2 - 1.5.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: 31 - 90 w on the h-f range.  
5 - 80 w on the optional l-f range.

POWER REQUIREMENTS: 770 - 896 w, 28 v dc.

### PHYSICAL CHARACTERISTICS

Information on Radio Transmitting Set AN/ART-13 not available.