

STATUS: Development
CLASSIFICATION OF EQUIPMENT: Restricted
USING SERVICE: Air Force
DATE OF THIS SHEET: 12 May 52

**AN/PRC-19**

RADIO SET

NO PHOTOGRAPH AVAILABLE

Radio Set AN/PRC-19 provides voice communication for survivors, with aircraft in flight, advanced bases, mobile radio vehicles and ground-search parties. Equipment is used by ground-search parties (scouting) of any field service engaged in search for missing, or wrecked, aircraft, or in any other emergency which requires a lightweight, portable, emergency transceiver.

This equipment can be hand-carried, or stowed in aircraft for parachuting to survivors, para-rescue teams, or other ground-rescue parties. It is used where the nature of the terrain (such as mountains, jungle, and heavy snow) prevents the carrying of excess weight, and where the mission requires separation of the various members of the ground-search parties, or other groups.

Radio Set AN/PRC-19 is used in conjunction with h-f, v-h-f, u-h-f pack Radio Set AN/PRC-20, Portable Radio Direction Finder Set AN/PRD-4, and direction finding Radio Set SCR-291.

This set can be operated from batteries, a battery-vibrator combination, or a hand generator.

<b>AN/PRC-19</b>	INSTRUCTION LITERATURE: Information from RADC CLASSIFICATION OF EQUIPMENT: Restricted
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**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transceiver	14 x 3 x 3	8
1 each	Batteries	The batteries and antenna	
1	Antenna	are carried with the transceiver	
1	Web Harness	case and are included in the weight and size.	

**OPERATIONAL CHARACTERISTICS**

**TACTICAL USE:** For use by ground-rescue search parties.

**INSTALLATION:** Equipment is carried with or dropped to para-rescue teams or ground-rescue parties.

**APPROXIMATE RANGE (IN MILES):** Short.

**CAN COMMUNICATE WITH:** AN/ARC-2, -5, -8, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3; AN/FRC-10; AN/FRR-3, -4, -12, -28, -32; AN/FRT-5, -6, -15, -17, -19; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -13; AN/SRT-4; AN/TRQ-1; AN/URR-10, -22, -23; AN/URT-2, -3, -4; AN/VRC-1, -4; BC-191, -312, -339, -342, -348, -401, -447, -610, -779, -794, -1004; OA-59/FRC, -59/FRC, -60A/FRT, -60B/FRT; MBS; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -208/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -398/URR; RAL; RAO; RAS; RBC; RBG; RBH; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDM; REA; SCR-177, -188, -193, -244, -274, -399, -499, -704; T-4/FRC, -83/SR, -158/FRT, -159/FRT, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -190/FR; TBA; TBC; TBK; TBL; TBM; TBN; TBW; TCB; TCC; TCE; TCH; TCK; TCS; TCZ; TDE; TDF; TDH; TDN; TDO; TEB; TEC; TEF; AR-88 (RCA); Collins 13S-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:** Total frequency range capability: 8.2 - 8.4.  
Normal operating frequency: 8.364.

**TYPE MODULATION:** Am.

**TYPE OF SIGNAL:** Voice.

**POWER OUTPUT:** Transmitter: 1 w.  
Receiver: Sufficient to operate ear phones with a signal input of better than 5 microvolts.

**POWER REQUIREMENTS:** Total Wattage: 9.14.  
Voltage: 1.25 v, dc, 6.3 v, dc, and 135 v, dc.  
Battery Life: Approximately 8 hours.

**PHYSICAL CHARACTERISTICS**

Radio Set AN/PRC-19 measures 3 x 3 x 14 inches, net weight 8 pounds, volume .073 cu ft. Packed for either domestic or export shipment: total weight 10 pounds, total volume 0.1 cu ft. Shipped in 1 package.