

STATUS: Standard

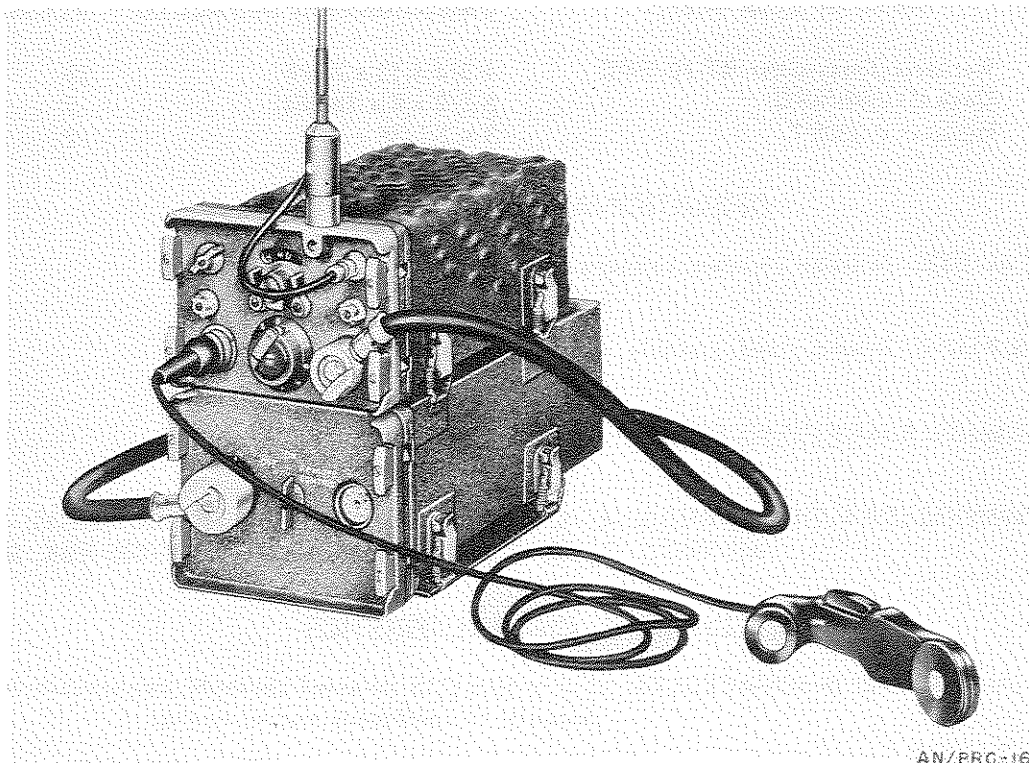
CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Army

DATE OF THIS SHEET: 8 Jan 52

**AN/PRC-16**

RADIO SET



Radio Set AN/PRC-16 is a portable, lightweight, low-power, short-range, battery-operated, f-m (voice) equipment for two-way ground-to-ground or ground-to-air communication in the v-h-f range.

This set consists of the separate, short-range, low-power receiver-transmitter component designated as set 2 when used as part of radio sets of the integrated series such as Radio Sets AN/GRC-3 through AN/GRC-8. Antenna system, battery box, handset, and accessories are included.

This equipment can be operated from a remote point over a telephone pair up to a distance of about 2 miles by means of Control Group AN/GRA-6.

<b>AN/PRC-16</b>	INSTRUCTION LITERATURE: TM 11-288
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### MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Receiver-Transmitter RT-70/GRC	4-3/4 x 13 x 7-7/8	25
1	Case CY-590/GRC	5-1/2 x 8 x 15-3/4	7
1	Handset H-33/PT	3 x 2-1/16 x 3	2

### OPERATIONAL CHARACTERISTICS

TACTICAL USE: Airborne division, company level.

INSTALLATION: Ground, fixed, portable, pack, airborne.

APPROXIMATE RANGE (IN MILES): 1.

CAN COMMUNICATE WITH: AN/GRC-3, -4, -5, -6, -7, -8; AN/PRC-6, -10, -16; AN/URR-10, -12; AN/VRC-3, -7, -10, -22; AN/VRQ-3; BC-787; R-137/GR; RBK; SCR-607.

### TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 47.0 to 58.4 (115 detented channels, two preselected channels, or continuous manual tuning).

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Voice.

POWER OUTPUT: Transmitter (rf), 50 mw (approximately).  
Receiver (af), 75 mw (approximately).

POWER REQUIREMENTS: Five 1.5-v Batteries BA-403/U, one 90-v Battery BA-419/U.

Power drain: 90 v at 80 ma - plates and screens.  
6.3 v at 360 ma - filaments.  
6.3 v at 160 ma - transmit relay.

### PHYSICAL CHARACTERISTICS

Radio Set AN/PRC-16 measures 10-1/4 x 8 x 15-3/4 inches, net weight 45.85 pounds, volume 0.97 cut ft. Shipped in 1 package both domestic and export.