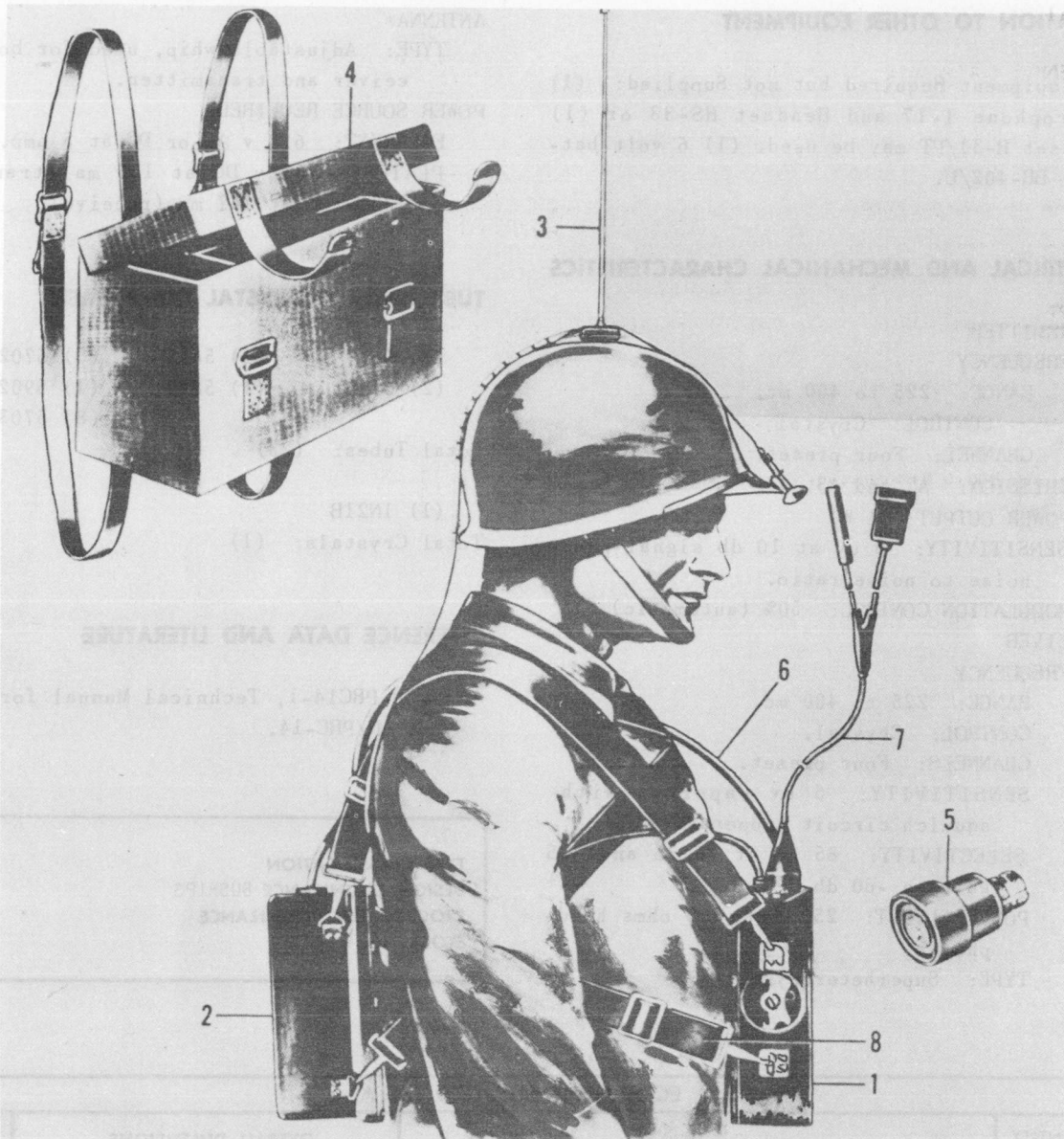


April 1958

RADIO SET

AN/PRC-14



1. Receiver-Transmitter RT-271/PRC-14
2. Power Supply PP-855/PRC-14
3. Antenna Assembly AT-387/PRC-14
4. Bag, radio set CW-293/PRC-14

5. Ammeter ME-68/PRC-14
6. Power Cable Assembly CX-2097/U
7. Special Purpose Cable Assembly CX-2098/U
8. Harness Radio Set ST-124/PRC-14

*Radio Set AN/PRC-14***FUNCTIONAL DESCRIPTION**

The AN/PRC-14 is a portable UHF Transceiver designed to provide line-of-sight communication between ground personnel and aircraft. With aircraft at an altitude of 5000

feet or more, operation up to 30 miles may be anticipated. With aircraft at lower altitudes, terrain will control the reliability and range of operation. Emergency ground-to-ground operation is practical within the line-of-sight limitations.

Radio-Transceivers

AN/PRC-14

RADIO SET

April 1958

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (1) Microphone T-17 and Headset HS-33 or (1) Handset H-33/PT may be used. (1) 6 volt battery BB-402/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TRANSMITTER

FREQUENCY

RANGE: 225 to 400 mc.

CONTROL: Crystal.

CHANNEL: Four preset.

EMISSION: A2 and A3.

POWER OUTPUT: 1 W.

SENSITIVITY: 5 uv at 10 db signal-plus-noise to noise ratio.

MODULATION CONTROL: 50% (automatic).

RECEIVER

FREQUENCY

RANGE: 225 to 400 mc.

CONTROL: Crystal.

CHANNELS: Four preset.

SENSITIVITY: 5 uv (approx) with squelch circuit inoperative

SELECTIVITY: 85 kc at -6 db and 225 kc at a -60 db.

POWER OUTPUT: 250 mw to 500 ohms headphones.

TYPE: Superheterodyne.

ANTENNA

TYPE: Adjustable whip, used for both receiver and transmitter.

POWER SOURCE REQUIRED

FILAMENT: 6.3 v AC or DC at 5 amp.

PLATES: 135 v DC at 155 ma (transmit)
135 v DC at 147 ma (receive).

TUBE AND/OR CRYSTAL COMPLEMENT

| | | |
|----------|----------|------------|
| (5) 5647 | (1) 5675 | (5) 5702WA |
| (2) 5719 | (1) 5899 | (1) 5902 |
| | | (8) 5703 |

Total Tubes: (23)

(1) 1N21B

Total Crystals: (1)

REFERENCE DATA AND LITERATURE

AN16-30-PRC14-1, Technical Manual for Radio Set AN/PRC-14.

| |
|---------------------------|
| TYPE CLASSIFICATION |
| DESIGN COGNIZANCE BUSHIPS |
| PROCUREMENT COGNIZANCE |
| STOCK NO. |

EQUIPMENT SUPPLIED DATA

| QUANTITY PER EQUIPT | NAME AND NOMENCLATURE | OVERALL DIMENSIONS (inches) | WEIGHT (lbs.) |
|---------------------|--|-----------------------------|---------------|
| 1 | Radio Receiver-Transmitter RT-271/PRC-14 | | |
| 1 | Antenna AT-387/PRC-14 | | |
| 1 | Harness, Radio Set ST-124/PRC-14 | | |
| 1 | Cable Assembly, Electrical, Power CX-2097/U | 2-1/2 x 3 ft | |
| 1 | Cable Assembly, Special Purpose Electrical CX-2098/U | 1-1/2 x 1 ft | |
| 1 | Ammeter ME-68/PRC-14 | | |
| 1 | Power Supply PP-955/PRC-14 | | |
| 1 | Bag, Radio Set CW-293/PRC-14 | | |