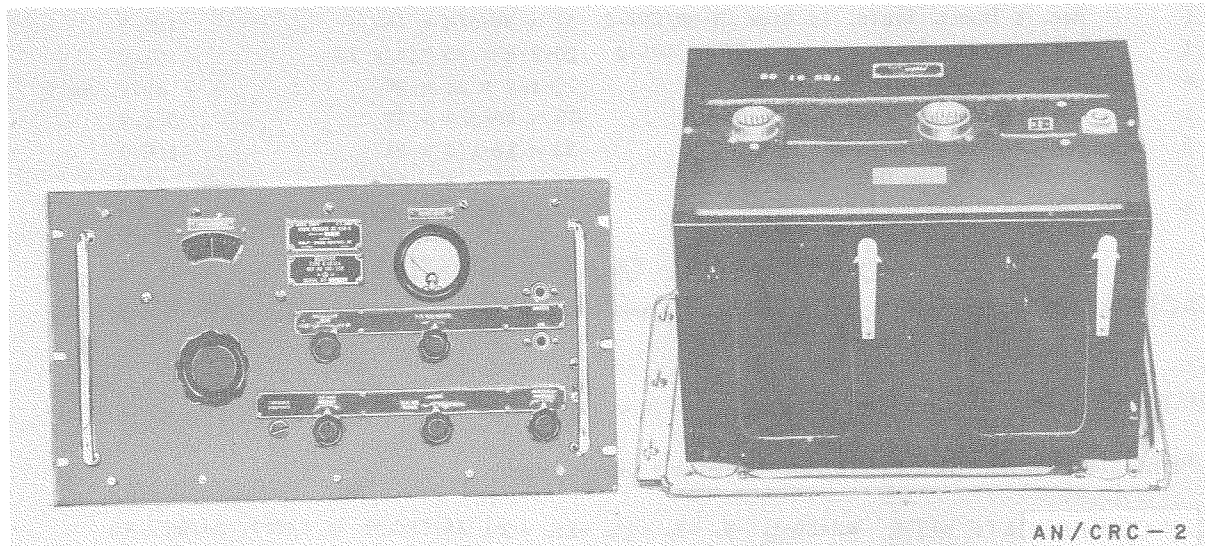


|   |                 |
|---|-----------------|
| STATUS: Standard                          | <b>AN/CRC-2</b> |
| CLASSIFICATION OF EQUIPMENT: Unclassified |                 |
| USING SERVICE: Air Force                  |                 |
| DATE OF THIS SHEET: 10 Jun 52             |                 |
|   | RADIO SET       |



Radio Set AN/CRC-2 is used as a v-h-f, air-to-ground, advanced air base traffic control system. The set is designed and packaged for air transportation for use in combat areas, where it can be easily set up and knocked down, repackaged, and transported to a new location, by air or motor vehicle.

Radio Set AN/CRC-2 consists essentially of the following major items: 6 Radio Receivers BC-639-A (illustrated above), Radio Receiver BC-624-A, Radio Transmitter BC-625-A (illustrated above), Frequency Meter BC-638-A, 4 Power Units PE-214-A, 8 Antenna Equipments RC-81-A, 4 Antenna Masts AB-7/CRC-2, and accessory items.

The following facilities are provided by Radio Set AN/CRC-2 two-way ground-to-air radio communication on four preset, crystal-controlled channels in the v-h-f band for air base traffic control, continuous monitoring of six radio channels, two spare receiving channels, presetting of the receivers to the desired channels.

|                  |  |
|------------------|--|
| <b>AN/CRC-2</b>  | INSTRUCTION LITERATURE:<br>TO 16-30CRC-2 |
|                  | CLASSIFICATION OF EQUIPMENT:Unclassified |
| <b>RADIO SET</b> | USING SERVICE : Air Force                |
|                  | DATE OF THIS SHEET : 10 Jun 52           |

**MAJOR COMPONENTS**

| QUANT | NAME OF COMPONENT                        | DIMENSIONS (IN) INSTALLED | WEIGHT (LBS) |
|-------|--|---------------------------|--------------|
| 3     | Receiving Equip. in Case CY-32/CRC-2     | 15-1/2 x 39-1/2 x 22-5/16 | 191.0 (each) |
| 1     | Monitoring Equip. in Case CY-33/CRC-2    | 15 x 22-1/2 x 21-23/32    | 101.5        |
| 1     | Rec. & Trans. Equip. in Case CY-34/CRC-2 | 17 x 34-1/4 x 14          | 130.3        |
| 1     | Power Supply Equip. in Case CY-55/CRC-2  | 20-3/4 x 15-3/4 x 15      | 102.0        |
| 4     | Power Unit PE-214-A with Case            | 23-1/2 x 16 x 20          | 86.0 (each)  |
| 1     | Cable Equip. in Case CY-165/CRC-2        | 19 x 45-3/4 x 19          | 302.0        |
| 1     | Ant. Equip. in Case CY-5/CRC-2           | 31 x 12-1/4 x 21          | 100.0        |
| 1     | Misc. Equip. in Case CY-36/CRC-2         | 21 x 12-1/4 x 21          | 18.5         |
| 4     | Mast AB-7/CRC-2 in 2 Chests              | 16 x 9 x 25 & 135 x 9 x 9 | 315.0        |

**OPERATIONAL CHARACTERISTICS**

**TACTICAL USE:** Normally used in advanced combat areas at newly captured air strips for air base traffic control.

**INSTALLATION:** Ground-fixed (shockmounted in cases designed for air transportation).

**APPROXIMATE RANGE (IN MILES):** (Nominal) Line of sight.

**CAN COMMUNICATE WITH:** AN/ARC-1, -3, -5, -18, -28, -36; AN/CRC-2; AN/FRC-7; AN/GRC-30; AN/MRC-16, -20, -22; AN/PRC-17, -20; AN/TRC-7; AN/TRQ-1; AN/URC-4; AN/URR-10, -12, -21; AN/URT-7, -10; AN/VRC-1; BC-639, -640; MAR; MBS; R-137/GR; RBK; RBQ; RC-103, -256, -257; RCK; RCO; SCR-522, -542, -573, -575, -607, -616, -624, -641, -643, -644; TDG; TDQ; TDT; ARC Type 12; Wilcox 99A.

**TECHNICAL CHARACTERISTICS**

**FREQUENCY RANGE IN MEGACYCLES:** 100 - 156.

6 Receivers BC-639-A: 100 - 156 continuous tuning.

1 Receiver BC-624-A: 4 preset crystal-controlled channels from 100 - 156.

1 Transmitter BC-625-A: 4 preset crystal-controlled channels from 100 - 156.

**TYPE MODULATION:** Am.

**TYPE OF SIGNAL:** Voice.

**POWER OUTPUT:** 6-9 w (Nominal).

**POWER REQUIREMENTS:** 600 w, 110 v, 50/60 cyc, 1 phase, ac. Power is normally furnished by two Power Units PE-214-A. Four power units are supplied; two are spares.

**PHYSICAL CHARACTERISTICS**

Radio Set AN/CRC-2 measures 172.5 x 40 x 23 inches, net weight 3,878 pounds, volume 164.34 cu ft. Packed for domestic or export shipment: total weight 4,268 pounds, total volume 182 cu ft, 4.55 ship tons. Shipped in 21 packages.