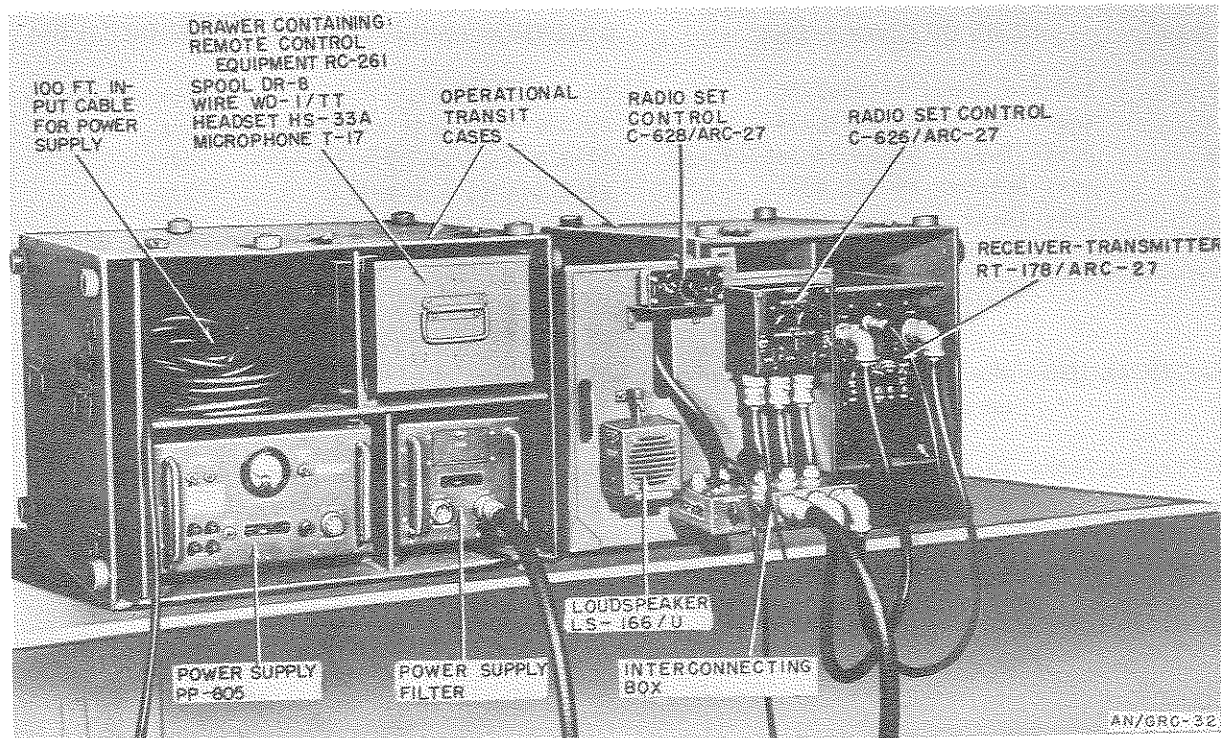


STATUS: Substitute Standard
 CLASSIFICATION OF EQUIPMENT: Restricted
 USING SERVICE: Air Force
 DATE OF THIS SHEET: 19 May 52

AN/GRC-32

RADIO SET



Radio Set AN/GRC-32 is a ground-operated, two-way, u-h-f, a-m, receiver-transmitter, normally used for ground-to-air communication. It can be used wherever a low-power u-h-f communication system is needed for tactical control of aircraft at moderate ranges. The set can also form the ground radio terminal of air-ground radio circuits for flight safety, as well as short range tactical control of aircraft.

The transmitter and receiver both operate on any one of 18 preset, crystal-controlled channels (of a total of 1,750) which are spaced 100 kc apart.

Remote control facilities are provided by means of Remote Control Equipment RC-261 which provides remote operation of, and voice communication over, voice-operated radio sets on a preset frequency, (with a preset adjustment of the volume control) for distances up to 1/2 mile from the radio set.

This radio set consists of components of Radio Set AN/ARC-27, modified to operate from 115/230-v, 60-cyc, single phase, ac, in lieu of 26.5v, dc, used in aircraft.

Radio Set AN/GRC-32 is housed in operational, transit cases to permit easy transportation.

AN/GRC-32

RADIO SET

INSTRUCTION LITERATURE: Not Available

CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE: Air Force

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MAJOR COMPONENTS

| QUANT | NAME OF COMPONENT | DIMENSIONS (IN) INSTALLED | WEIGHT (LBS) |
|-------|--|-----------------------------|---------------|
| 1 | Antenna Group OA-306/GRC | Not Available | Not Available |
| 1 | Radio Set Group OA-384/GRC | 23-5/8 x 22-3/16 x 30-1/4 | 156 |
| 1 | Power Supply Group OA-385/GRC-32 | 29-3/4 x 25-15/32 x 32-9/32 | 327 |
| 1 | Mast Antenna AB-282/GRC | 10-1/4 x 10 x 133-1/4 | 170 |
| 1 | Case (Mast Erection Equip.) CY-1186/GRC | 21-27/32 x 14-1/2 x 26-9/16 | 160 |

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally issued for air-ground communications at advanced air bases or forward areas.

INSTALLATION: Ground, temporary installations in tents, covered vehicles, portable shelter or permanent buildings.

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

CAN COMMUNICATE WITH: AN/ARC-12, -19, -27, -30, -33, -34; AN/GRC-16, -27, -29, -30, -32; AN/GRR-7; AN/GRT-3; AN/MRC-12, -20, -22; AN/PRC-14, -17, -20; AN/TRC-32; AN/URC-4; AN/URR-9, -12, -13; AN/URT-10; MAR; MAY; R-278/GR; RDR; RDZ; SCR-616; TED.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: A total of 1,750 channels, spaced 100 kc apart, in the frequency range 225.0 - 399.9 mc are available. It is designed to operate on any 18 preset crystal-controlled channels.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice or tone.

POWER OUTPUT: 10 w (Nominal).

POWER REQUIREMENTS: 1,000 w, 115/230 v, 60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Set AN/GRC-32 measures 39-7/8 x 15 x 21-3/4 inches, net weight 813 pounds, volume 7.6 cu ft. Packed for either domestic or export shipment: total weight 894 pounds, total volume 8 cu ft.