

STATUS: Substitute Standard

CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE: Air Force

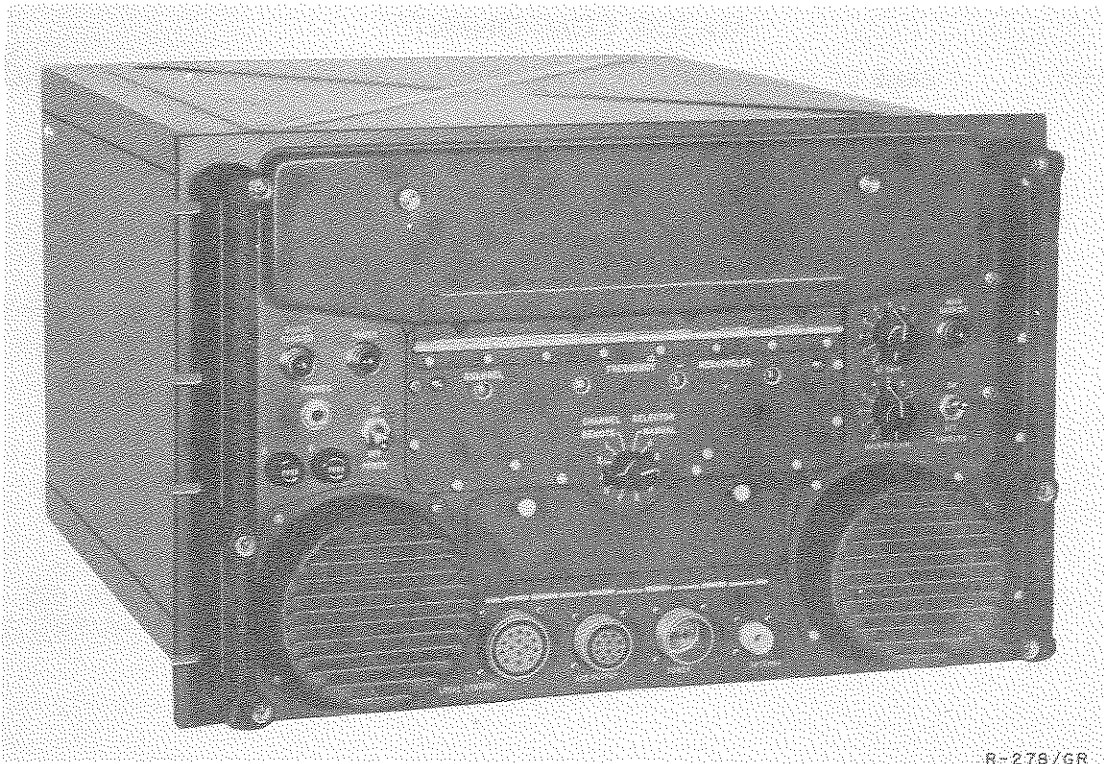
DATE OF THIS SHEET: 19 May 52

AN/FRR-TYPE

AN/COMP TYPE NUMBER:

R-278/GR

RADIO RECEIVER



R-278/GR

Radio Receiver R-278/GR is a fixed, or mobile, ground-operated, u-h-f, crystal controlled a-m receiver, operating on any one of 10 preset channels (of a total of 1,750 spaced 100 kc apart) in the 225.0 to 399.9 mc range. It also monitors either one of two crystal-controlled preset, "stand-by", guard frequencies in the range 238 to 248 mc.

The moment a signal is impressed on the preset guard frequency, it automatically takes over control of the receiver on that one frequency.

It is used for ground-to-air and point-to-point communication, and with Radio Direction Finder Set AN/CRD-6 can be used for navigation applications.

This receiver can be remotely controlled up to five miles by means of Radio Set Control C-565/GR and Control Indicator C-806/GR.

The antenna input impedance is 52 ohms, which permits using Antennas AS-505/GR, AT-197/GR, and AS-450/GR.

It has an audio output of 3 w at 600 ohm impedance which permits operation of loudspeakers, or feeding into telephone lines.

Operates on 110 or 220-v, ac.

AN/FRR-TYPE		INSTRUCTION LITERATURE: TO 16-35-0A-192-3
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally issued on any organizational level as project material in accordance with AFR 100-17.

INSTALLATION: Ground operated.

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/GRT-3; AN/MRC-12, -20, -22; AN/PRC-14, -17, -20; AN/TRC-32; AN/URC-4; AN/URT-10; MAR; MAY; TDZ; TED.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 1,750 channels in the frequency range 225.0 - 399.9 .
10 preset channels: also operates on any guard frequency between 238 and 248 .

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, tone.

POWER OUTPUT: 3 w (Nominal).

POWER REQUIREMENTS: (Peak power required) 470 w, 115/230 v, 60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Receiver R-278/GR measures 19 x 12-1/4 x 20 inches, net weight 115 pounds, volume 4 cu ft. Packed for domestic shipment: total weight 145 pounds, total volume 6 cu ft. Packed for export shipment: total weight 155 pounds, total volume 6 cu ft. Shipped in 1 package both domestic and export.