



Figure 12. Radio Set AN/MRC-2(*), typical layout.

Status: Standard. *Stock No.:* 2S3007-2. *Reference:* TM 11-624.

Radio Set AN/MRC-2 (*) represents Radio Sets AN/MRC-2 and AN/MRC-2A. Radio Set AN/MRC-2(*) is a high-powered, mobile, radioteletypewriter station for division, army, and corps levels and is used particularly in fluid stages of operations to replace normal fixed plant equipment for administrative circuits.

The complete set is entirely mobile, requiring three or four 2½ ton 6 x 6 cargo trucks.

This set partially replaces Radio Sets SCR-299 and SCR-399.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 1.5 to 18.0 mc in 6 bands.
ANTENNA: Two doublet antennas, coaxial fed, and spaced approximately 3 wavelengths (1,000 ft max) apart.
TYPE MODULATION: Frequency shift and amplitude (c-w, tone, or voice).
FREQUENCY CONTROL: Mo, crystal.
POWER SOURCE: 6.5 kw (approx). 115-v, 60-cyc, a-c.
POWER OUTPUT: 2 kw (approx).
RANGE: 1,000 mi or more.
NUMBER OF TUBES: 32.

GENERAL APPLICATION

USE: Provides teletypewriter communication in either net or long range operation; however, the equipment is so designed that the operating features of Radio Set SCR-399 may be restored by disconnecting Amplifier AM-141.

TO COMMUNICATE WITH: Radio sets AN/GRC-9, AN/MRC-2, AN/VRC-1, SCR-177, SCR-188, SCR-193, SCR-399, SCR-499, SCR-506, SCR-511, SCR-536, SCR-543, SCR-694-C, and SCR-694-AW.

INSTALLATION: Installed and operated in mobile shelters.

TYPE OF SIGNAL:

Transmitted—Frequency shift teletypewriter signals.
 Emergency use: C-w, on full-power, or c-w and voice using Radio Transmitter BC-610-E alone.

Received—Frequency shift teletypewriter signals, dual space diversity reception. Receiver alone: C-w, tone and voice.

PRINCIPAL COMPONENTS

Name	Dimensions (in.)	Weight (lb)
(In Transmitting Shelter HO-17		
HO-17	158 x 90½ x 77	8,800
Radio Transmitter BC-610-E.		
Amplifier AM-141/MRC.		
Rectifier RA-63-C.		
Frequency Shift Exciter O-39/TRA-7.		
Frequency Meter SCR-211.		
(In Receiving Shelter HO-17)	158 x 90½ x 77	7,200
Radio Receiving Assembly OA-65/MRC-2.		
Dual Diversity Converter CV-31/TRA-7.		
Power Unit PE-75.		
Teletypewriter TG-7-B.		
(In Operating Shelter HO-17)	158 x 90½ x 77	7,200
Control Unit C-292/TRA-7.		
Rectifier RA-87.		
Teletypewriter TG-7-B.		
Typewriter MX-322/U.		
Power Units PE-95		
(3 supplied)	76½ x 108 x 76½	4,965
(installed in Trailer K-52)		

WEIGHT AND VOLUME

Total weight (lb)	39,416
Total volume (cu ft)	3,057
Ship tons	76.4