



Figure 13. Radio Set AN/MRQ-2, installed in Shelter HO-17-A.

*Status:* Standard. *Stock No.:* 2S3004-2. *Reference:* TM 11-640.

Radio Set AN/MRQ-2 is a modification of Radio Set SCR-399-A for use as a radio countermeasures unit. To facilitate its use as a mobile unit, Radio Set AN/MRQ-2 is shipped with the operating components and the power source installed in Shelter HO-17-A and Trailer K-52, respectively.

## TECHNICAL CHARACTERISTICS

### FREQUENCY RANGE:

Radio Transmitter T-55/MRQ-2: 0.95 to 18 mc (3 channels).

Radio Receiver BC-342: 1.5 to 18 mc (in 6 bands).

Radio Receiver BC-344: 0.15 to 1.5 mc (in 4 bands).

### NUMBER OF CRYSTALS: 3 (operating).

PRESET FREQUENCIES: Transmitter channels selected by three sets of plug-in tuning units.

### ANTENNA:

Radio Transmitter T-55/MRQ-2—4 types of antennas (Antenna Assembly AS-51/MRQ-2, and Auxiliary Antenna Assembly AS-93/MRQ-2), as follows:

Antenna A—Vertically polarized, half-rhombic, for transmitting or receiving radio signals between 0.95 and 8.0 mc. Balloon or kite supported.

Antenna B—Similar to Antenna A in design, but has smaller dimensions, designed for use at frequencies between 3 and 18 mc. Balloon or kite supported.

Antenna C—Single-wire and counterpoise combination, antenna supported 30 feet from ground by 4 lance Poles PO-2 and suitably guyed by ropes.

Antenna D—5-section whip used with Radio Transmitter T-55/MRQ-2 and comprises Mast Sections MS-49, MS-50, MS-51, MS-52, and MS-53, supported by Mast Base MP-47.

Radio Receivers BC-342 and BC-344—Whip type, Mast Base MP-48, mounted in Mast Base Bracket MP-50 and Mast Sections MS-51 to MS-53.

TYPE MODULATION: Amplitude.

FREQUENCY CONTROL: Radio Transmitter T-55/MRQ-2: Crystal or mo.

### POWER SOURCE:

Radio Transmitter T-55/MRQ-2: Power Unit PE-95 or commercial.

Radio Receivers BC-342 and BC-344: 110-v, 50- to 60-eye ac each (7.5 kw approx.)

POWER OUTPUT: Radio Transmitter T-55/MRQ-2: C-w, 400 w (approx). Voice, 300 w (approx).

### NUMBER OF TUBES:

Radio Transmitter T-55/MRQ-2: 16.

Radio Receivers BC-342 and BC-344: 10 each.

### GENERAL APPLICATION

USE: Radio Set AN/MRQ-2 is a modification of Radio Set SCR-399-A for use as a radio countermeasures unit.

TO COMMUNICATE WITH: Radio Sets AN/MRQ-2, AN/VRC-1, SCR-399-A, SCR-499-A, SCR-694, SCR-536, SCR-177-B, SCR-193, and SCR-506-A.

INSTALLATION: Installed and operated in Shelter HO-17-A, which should be mounted on a 2½-ton, 6 x 6 cargo truck for mobile use.

### TYPE OF SIGNAL:

Radio Transmitter T-55/MRQ-2: C-w, voice, and jamming.

Radio Receivers BC-342 and BC-344: C-w, tone, and voice.

### PRINCIPAL COMPONENTS

The following principal components are installed in Shelter HO-17-A:

Radio Transmitter T-55/MRQ-2.

Speech Amplifier BC-614-E.

Control Box C-110/MRQ-2.

Radio Set SCR-808-A.

Radio Receiver BC-342.

Radio Receiver BC-344.

Training Generator AN/URA-TI.

Antenna Switching Unit SA-24/MRQ-2.

Antenna Tuning Unit BC-939-A.

Antenna Coupling Unit CU-45/MRQ-2.

Antenna Control Box C-109/MRQ-2.

Antenna system.

The following component is installed in Trailer K-52: Power Unit PE-95.

Name	Dimensions (ft)	Weight (lb)
Shelter HO-17-A (operating components installed)	6 2/3 x 7 2/3 x 13 1/4	7,255
2 Teletypewriter TG-7-B.		
Trailer K-52 (Power Unit PE-95 installed)	6 1/2 x 6 5/12 x 9 1/6	4,900
Reperforator-Transmitter TG-26.		
Antenna Assemblies AS-51/MRQ-2 and AS-93/MRQ-2 (consisting of 11 boxes and 12 gas cylinders)		3,765

### WEIGHT AND VOLUME

	Export pack
Total weight (lb)	15,920
Total volume (cu ft)	1,237
Ship tons	41