



Figure 29. Radio Control Central AN/TRQ-1 installed in Shelter HO-17.

*Status:* Standard. *Stock No.:* 2S5004-1. *Reference:* TM 11-2619.

Radio Control Central AN/TRQ-1 is a four-position, radio-control and intercept station, and is intended to be used in conjunction with Radio Set AN/MRQ-2. The entire radio equipment is installed in Shelter HO-17, which is usually mounted in a 2½ ton, 6 x 6 cargo truck. Power Unit PE-95 is installed in Trailer K-52-E.

The control central has four operating positions, each position having provision for wire communication with, and remote control of, the transmitting station. Radio Set AN/MRQ-2 is located within a mile radius of the control central. Three of the operating positions have as required equipment: two medium-frequency monitoring receivers, a remote-control unit, and a typewriter for maintaining a log of operations and for transcribing messages. The fourth position has two h-f monitoring receivers, a 12-position telephone switchboard with terminal facilities for 8 telephone circuits, a remote-control unit, a typewriter, a receiver-transmitter set for communication with other control centers, and a frequency meter for general utility use in all four positions. Other standard components are a 12-volt storage battery and charger, an antenna coupling unit for coupling three receivers to a single antenna, and an interphone control box for operation of Radio Set SCR-828 from the truck cab.

**TECHNICAL CHARACTERISTICS**

**ANTENNA:** Four antennas are provided: Three whip antennas and an auxiliary Antenna Assembly AS-93/MRQ-2, which consists of a horizontal, mast-supported, single-wire antenna, and counterpoise combination.

**TYPE MODULATION:** Amplitude and frequency.

**POWER SOURCE:** 115-v, 60-cyc, a-c, supplied by Power Unit PE-95 in Trailer K-52-E, or a 12-v storage battery, or self-contained battery.

**POWER OUTPUT:** 35 w, from Radio Set SCR-828.

**RANGE:** Dependent upon antenna used, frequency, and ionospheric conditions.

**GENERAL APPLICATION**

**USE:** Four-position, radio-control and intercept station.

**TO COMMUNICATE WITH:** Similar installations, or f-m units in the 27 to 38.9 mc band.

**INSTALLATION:** Usually mounted on a 2½-ton, 6 x 6 cargo truck. (Power Unit PE-95, installed in Trailer K-52-E.)

**PRINCIPAL COMPONENTS**

<i>Name</i>	<i>Dimensions (in.)</i>	<i>Weight (lb)</i>
3 Radio Receivers BC-342.....	10 x 9 <sup>1</sup> / <sub>8</sub> x 18 <sup>1</sup> / <sub>8</sub>	61.5
3 Radio Receivers BC-344.....	10 x 9 <sup>1</sup> / <sub>8</sub> x 18 <sup>1</sup> / <sub>8</sub>	61.5
1 Radio Receiver R-137/GR.....	9 <sup>5</sup> / <sub>8</sub> x 21 <sup>1</sup> / <sub>4</sub> x 14 <sup>1</sup> / <sub>2</sub>	78
1 Radio Receiver BC-794.....	24 <sup>1</sup> / <sub>8</sub> x 20 <sup>1</sup> / <sub>2</sub> x 15 <sup>1</sup> / <sub>8</sub>	90
1 Radio Receiver BC-923-A.....	11 <sup>1</sup> / <sub>2</sub> x 12 <sup>3</sup> / <sub>4</sub> x 6 <sup>3</sup> / <sub>4</sub>	42
1 Radio Transmitter BC-924-A	11 <sup>1</sup> / <sub>2</sub> x 10 <sup>1</sup> / <sub>2</sub> x 18	49
1 Power Supply Unit RA-84.		
1 Dynamoter DM-64.		
1 Dynamoter DM-65.		
4 Remote Control Units C-103/TRQ-1.		
1 Antenna Coupling Unit CU-23/TRQ-1.		

**WEIGHT AND VOLUME**

	<i>Unpacked</i>	<i>Domestic pack</i>
Total weight (lb).....	3,785	4,500
Total volume (cu ft).....	160	225
Ship tons .....	4	5.5