



AN/TRC-11

Figure 27. Radio Terminal Set AN/TRC-11, showing Radio Transmitter T-30/TRC-8 and Radio Receiver R-48/TRC-8.

*Status:* Substitute standard. *Stock No.:* 2S5002-11.1. *Reference:* TM 11-618.

Radio Terminal Set AN/TRC-11 consists of two Radio Receivers R-48/TRC-8 (one in use, one spare), two Radio Transmitters T-30/TRC-8 (one in use, one spare), two Power Packs PP-115/TRC-8 (one in use, one spare), two Antenna Assemblies AS-52/TRC-8, two 40-foot Antenna Supports AB-48/TRC-8, three Power Units PE-75 (two in use, one spare), and spare parts for maintenance.

Components are identical to those used in Radio Set AN/TRC-8.

Radio Terminal Set AN/TRC-11 is intended for operation at the *terminals* of single-channel or multichannel radio relay systems when continuous operation is required.

Components not in use are running spares of maintenance equipment supplied to insure uninterrupted service in the case of failure of a basic component.

Radio Terminal Set AN/TRC-11 can be installed in 1 hour by four men.

### TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 230 to 250 mc.  
 NUMBER OF CRYSTALS: None.  
 PRESET FREQUENCIES: None.  
 ANTENNA: Antenna Assembly AS-52/TRC-8. Half-wave dipole with 90° corner reflector supported by 40-ft sectional mast. Antenna beam width 80°.  
 TYPE MODULATION: Receiver: frequency ±100 kc. deviation. Transmitter: frequency ±100 kc deviation. (100 percent modulation.)  
 FREQUENCY CONTROL: Tunable resonant line.  
 POWER SOURCE: Power Unit PE-75 or commercial power 120-v, 60-cyc.  
 POWER OUTPUT: 12 w.  
 RANGE: 25 to 100 mi, line of sight.  
 NUMBER OF TUBES: 23.

### GENERAL APPLICATION

USE: To provide four-channel carrier telephone and telegraph service or single-channel point-to-point radio relay service. Used to extend wire lines where speed of movement prohibits line construction and to bridge water gaps.  
 TO COMMUNICATE WITH: Radio Set AN/TRC-8, Radio

Terminal Set AN/TRC-11, and Radio Relay Set AN/TRC-12.

INSTALLATION: Transported by truck or trailer. Installed and operated as fixed field station.

TYPE OF SIGNAL: Voice, or multichannel telephone, telegraph or facsimile, f-m.

### PRINCIPAL COMPONENTS

Name	Dimensions (in.)	Weight (lb)
1 Radio Receiver R-48/TRC-8, cased with tools and operating components	23 x 16 x 19	126
1 Radio Transmitter T-30/TRC-8, cased with Power Pack PP-115/TRC-8	17½ x 16 x 24½	135
2 Antenna Assemblies AS-52/TRC-8, cased	33½ x 14 x 24	110
1 Power Unit PE-75	36 x 19 x 27	325

### WEIGHT AND VOLUME

	Domestic pack
Total weight (lb)	2,300
Total volume (cu ft)	76
Ship tons	1.9