

**AN/TRC-151(V)  
Radio Terminal Set**

**NSN:** 5820-00-006-1843

**Reference:** TM 11-5820-894-14

**General Information**

The AN/TRC-151(V) is an air- and ground-transportable assembly. It provides multichannel radio and cable tactical communications systems using PCM and TDM for Army and corps headquarters. The AN/TRC-151 (V) may be used as a 12- or 24-channel radio or cable terminal, as a remote drop-and-insert facility, or as a radio or cable repeater. The AN/TRC-151(V) is equipped with Radio Set AN/GRC-103(V)4 using Band IV heads and antennas. The basic equipment provides VF service for both voice telephone and teletype circuits. The option to install the High Speed Serial Data Buffer TD-1065/G will enable the equipment to handle 16- or 32-kilobit serial digital data. Another option, TDDM TD-1069/G, provides an additional 12 channels for digital data inputs. The AN/TRC-151(V) is equipped with rack space and cabling for optional equipment including TSEC/KG-27 for secure operation. The typical planning range using radio links is 48 km (30 mi) LOS; however, when using Band IV, the radio range may be affected by tall trees and dense foliage.

**Major Components**

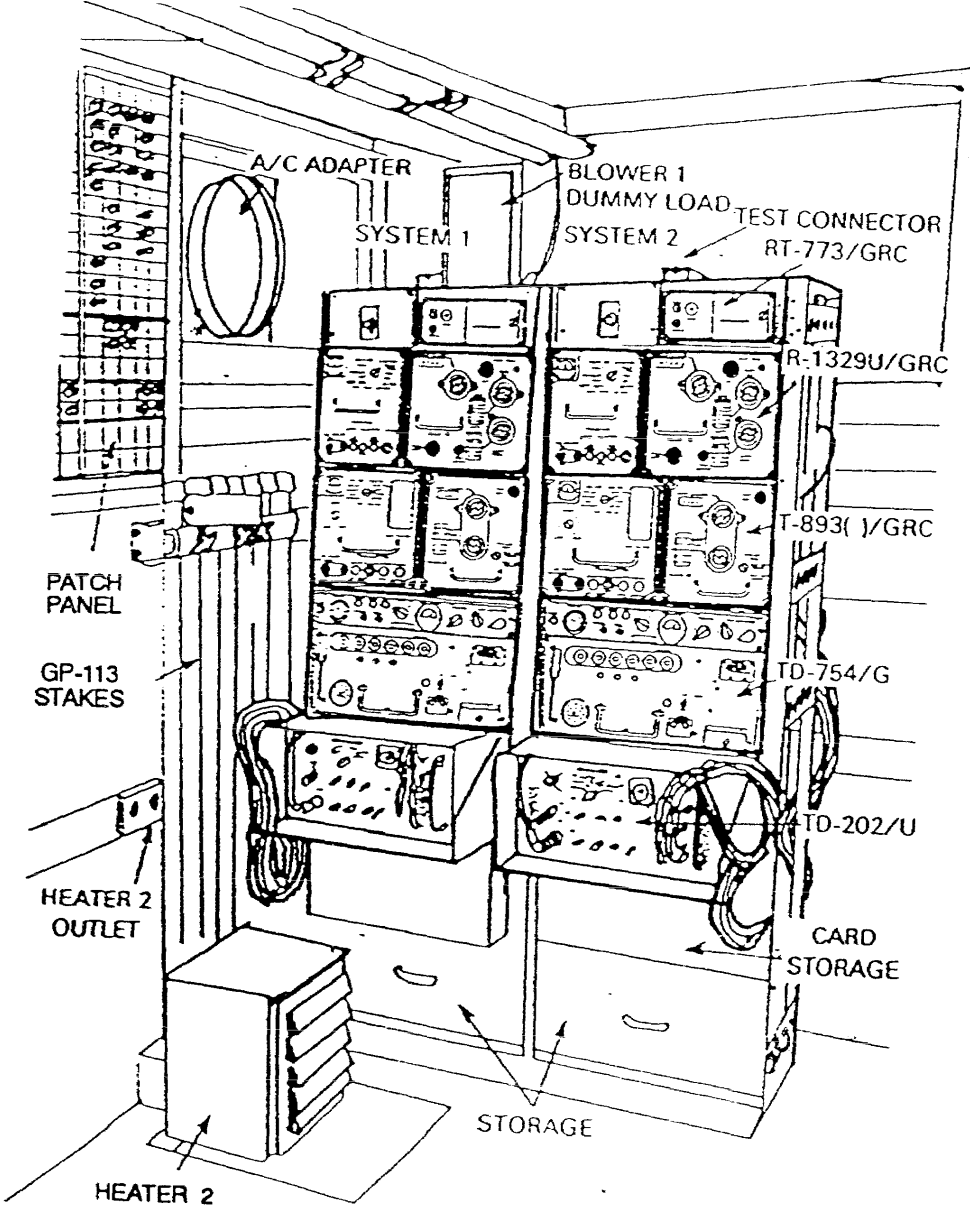
- 1 Shelter S-583(\*)/TRC-151
- 2 High Speed Serial Data Buffers TD-1065/G\*
- 2 Radio Sets AN/GRC-103(V)4
- 1 High Speed Digital Multiplexer\*
- 2 Multiplexer TD-660/G
- 2 Multiplexer TD-754/G
- 2 Key Generators TSEC/KG-27\*
- 2 Telephone Signal Converters CV-1548(\*)/G

**\*Optional equipment, not supplied with AN/TRC-151(V).**

**Technical Characteristics**

Power Requirement .....	115 V AC, 50-60 Hz, single phase
Power Consumption operating, one heater, blower, with flourescent lights .....	3,500 W
Frequency Range (Band IV) .....	1350 to 1850 MHz
Modulation .....	FM
Transmitter Power Output .....	15 W minimum
Pulse Type .....	binary pulse
Pulse Rate .....	12-channel: 576 Hz 24-channel: 1152 kHz
Prime Mover .....	2 1/2-ton vehicle

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# AN/TRC-151(V) Radio Terminal Set (Cont.)

