

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

* CORPS LEVEL

REPLACES THE AN/TRC-117

Status: STD-A; NSN: 5820-00-006-8843

Reference: TM 11-5820-894-14

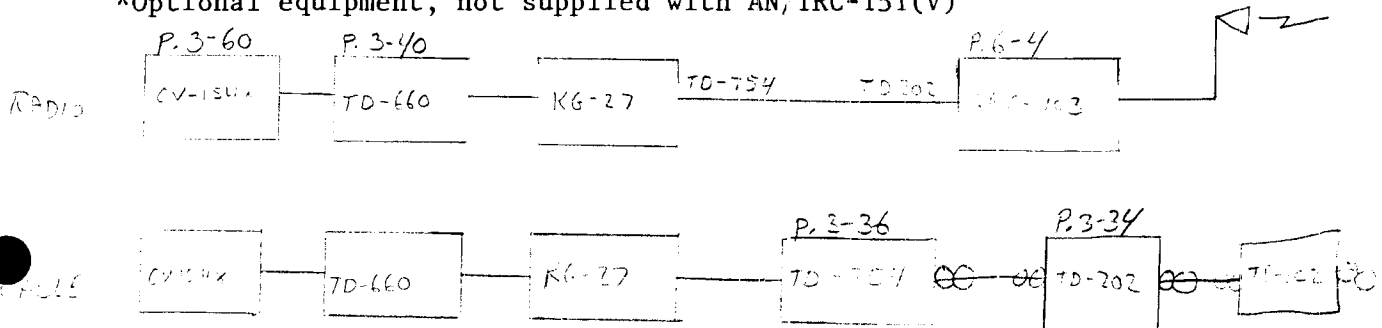
General Information

Radio Terminal Set 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 level 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 in the assemblage provides VF service for both voice telephone and teletype circuits. The option to install High Speed Data Buffer TD-1065/G will enable the equipment to handle 16- or 32-kilobit serial digital data. Another option, Digital Time Division Multiplexer 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 miles) (LOS); however, 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 Data Buffers |
| 2 Radio Sets AN/GRC-103(V)4 ✓ | TD-1065/G |
| 2 Multiplexers TD-202/U ✓ | *1 High Speed Digital |
| 2 Multiplexers TD-660/G ✓ | Multiplexer TD-1069 |
| 2 Multiplexers TD-754/G ✓ | *2 Key Generators TSEC/KG-27 ✓ |
| 2 Telephone Signal Converters ✓ | |
| CV-1548(*)/G | |

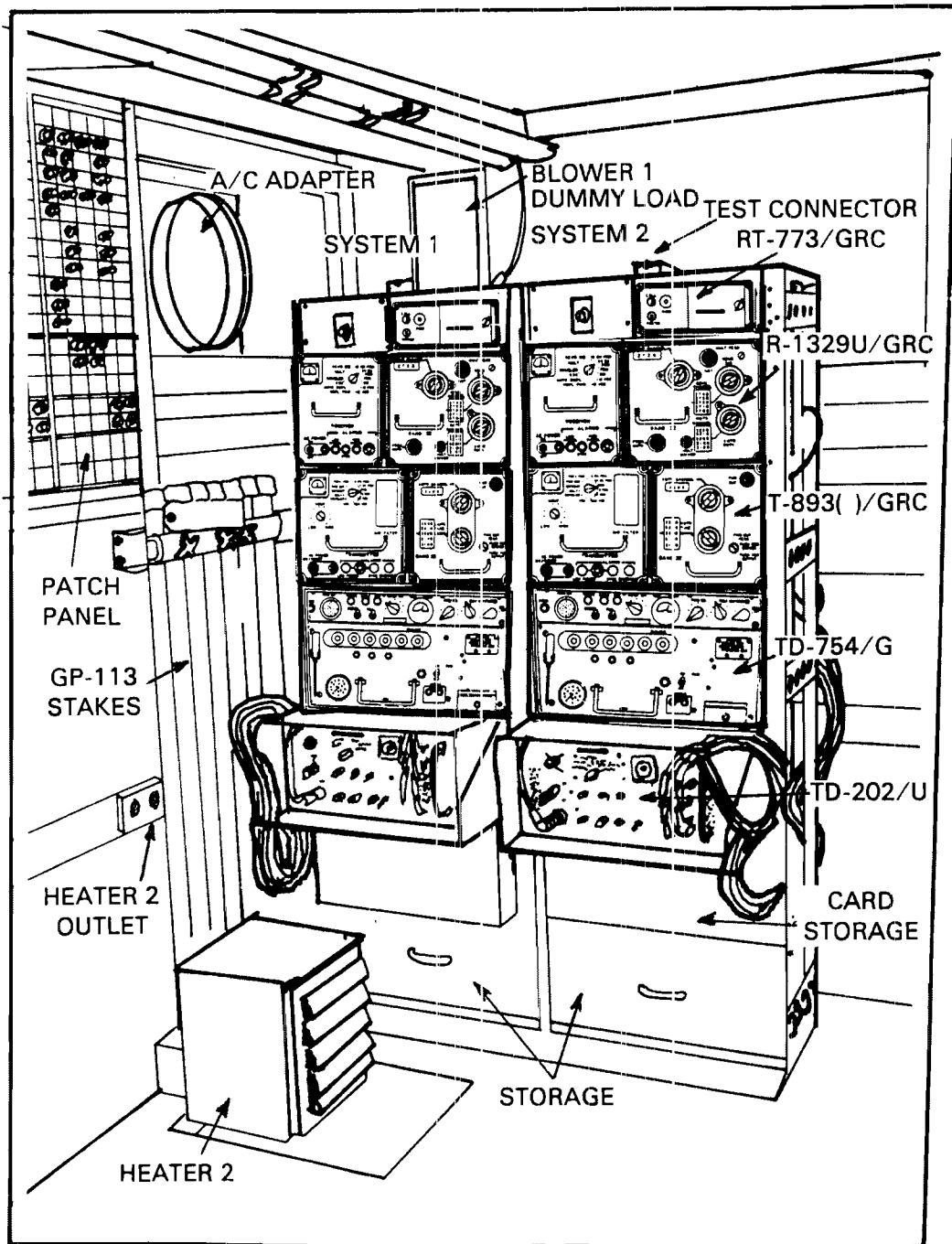
*Optional equipment, not supplied with AN/TRC-151(V)



Technical Characteristics

Power Requirement -----115 V AC, 50-60 Hz, single phase
Typical Power Consumption with
 both systems operating,
 one heater, one 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 kHz
 24-channel: 1152 kHz
Prime Mover-----2 1/2-ton vehicle

AN/TRC-151(V) Radio Terminal Set



Interior Front Roadside View

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

