

**FM 24-24**

**AN/TRC-174  
Radio Repeater**

**NSN:** 5820-01-161-9420

**Reference:** TM 11-5820-864-12-1

**General Information**

The AN/TRC-174 operates as a radio repeater or split radio terminal and can terminate up to three 18/36 digital multichannel LOS systems. It will be deployed in hybrid (analog/digital) integrated tactical communications system (INTACS) nodes and extension systems during the transitional period. In split terminal operation it connects to the CNCE by CX-11230 or SRWBR. The AN/TRC-174 replaces the AN/TRC-110 and AN/TRC-152.

**Major Components**

- 3 Radio Sets AN/GRC-103(V)4
- 3 Masts AB-577
- 3 Low Speed Cable Driver Modems MD-1023()/G
- 3 Mast Extension Kits CY-4507
- 1 Intercommunications Station LS-147F/FI
- 1 Digital Data Group Modem MD-1026()(P)/G (up to four modems per case)
- 1 Frequency Electronic Converter CV-2500
- 1 Digital Data Modem MD-1065()(P)/G (103 Modem) (three radio modems per case)
- 3 Dummy Loads DA-437/GRC-103
- 1 Telephone TA-312/PT
- 1 Headset H-182/PT
- 2 Dedicated Loop Encryption Devices TSEC/KG-84
- 1 Power Unit AN/MJQ-19 ancillary components and spares
- 1 Olderwire Control Unit C-10716 (OCU Type 1)
- 1 DSVT KY-68
- 1 ETD KYK-13
- 1 VINSON TSEC/KY-58
- 1 Fill Cable
- 1 Power Supply 28 V DC
- 1 Tape Reader KOI-18
- 3 Antennas AS-3047/GRC-103
- 1 SINCGARS Radio

### Technical Characteristics

Frequency Range .....	1.35 to 1.85 GHz (Band IV)
Power Output .....	15 W (Band IV)
Range .....	48 km(30mi)
Power Requirement .....	115 V AC, single phase
Weight .....	2,134 kg (4,700 lb)
Shelter .....	S-590

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