

AN/TRC-191 Radio Access Unit

NSN: 5820-01-247-5731

Reference: TM 11-5820-1022-13-1

General Information

The AN/TRC-191 consists of an S-250/G shelter transported on an M-1037 HMMWV. It has a capacity of eight simultaneous calls via the eight radios which are elements of the assemblage. The RAU is an automatic interface between the mobile subscribers and the network. It does not include any switching element but ensures full management of the radio channels including traffic load controls from radio to network. The RAU also interfaces to an NC switch of the MSE system using either LOS radio links or direct cable connection.

Major Components

- 1 Shelter S-250()/G
- 1 Group Modem MD-1026
- 1 Electronic Transfer Device KYK-13
- 1 Generator PU-751/M, 5 kW
- 1 Trunk Encryption Device KG-194A
- 1 VINSON COMSEC Equipment KY-57
- 1 RF Fill Device
- 1 Group Logic Unit C-11865
- 1 Antenna Cable
- 1 RF Antenna Multicoupler CU-2391
- 1 Junction Box J-4534 (III Corps)
- 8 Radio Transceivers RT-1539
- 1 Antenna Mast Mounted AS-4225 (used with 15 meter mast)
- 1 AC Power Cable, 15 feet
- 1 AC Power Cable, 35 feet
- 1 Vehicular Antenna AS-3885 (whip)
- 1 DC Power Cable
- 1 MSRT Power Cable
- 1 DSVT KY-68
- 1 MSRT Mode Cable
- 1 Whip Antenna (W6) Cable

**Major Components
(Cont.)**

- 1 Digital Data Modem MD-1231, (III Corps Only)
- 1 Orderwire Control Unit C-11878, (III Corps Only)
- 1 Loop Group Multiplexer TD-1426 (III Corps Only)
- 1 Antenna Mast AB-1339/G, 15 meters

Technical Characteristics

Power Requirements	115 V AC, 50 or 60 Hz, single phase, or 28 V DC
Frequency Range*	30 to 35 MHz (low band, training) 40 to 50 MHz (high band, training) 30 to 51 MHz (low band, operational) 50 to 88 MHz (high band, operational)
Transmission Range (Planning)	15 km or 9.3 mi

*** The RAU transmits in high band and receives in low band.**

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