

Section V. Subscriber Terminal Equipment

AN/VRC-97

Mobile Subscriber Radiotelephone Terminal

NSN: 5820-01-246-6818

Reference: TM 11-5820-1021-10

General Information

The AN/VRC-97 MSRT consists of a VHF radio and DSVT. Depending on the mission, the AN/VRC-97 can be installed in one of nine US Army vehicles or used in stand-alone tripod configuration. Both the radio and the DSVT are designed to operate on the ground without protection from the environment. The radio transmits in the low band and receives in the high band and interfaces at 16 kb/s to the DSVT which provides secure discrete addressability. The radio front panel is accessible to the user for inserting COMSEC crypto variable and frequency fill. Inserting the personal code and the directory number is completed by using the keypad on the DSVT. Since the radio operates automatically, all subsequent calls, both initiating and answering, need only use the DSVT.

Major Components

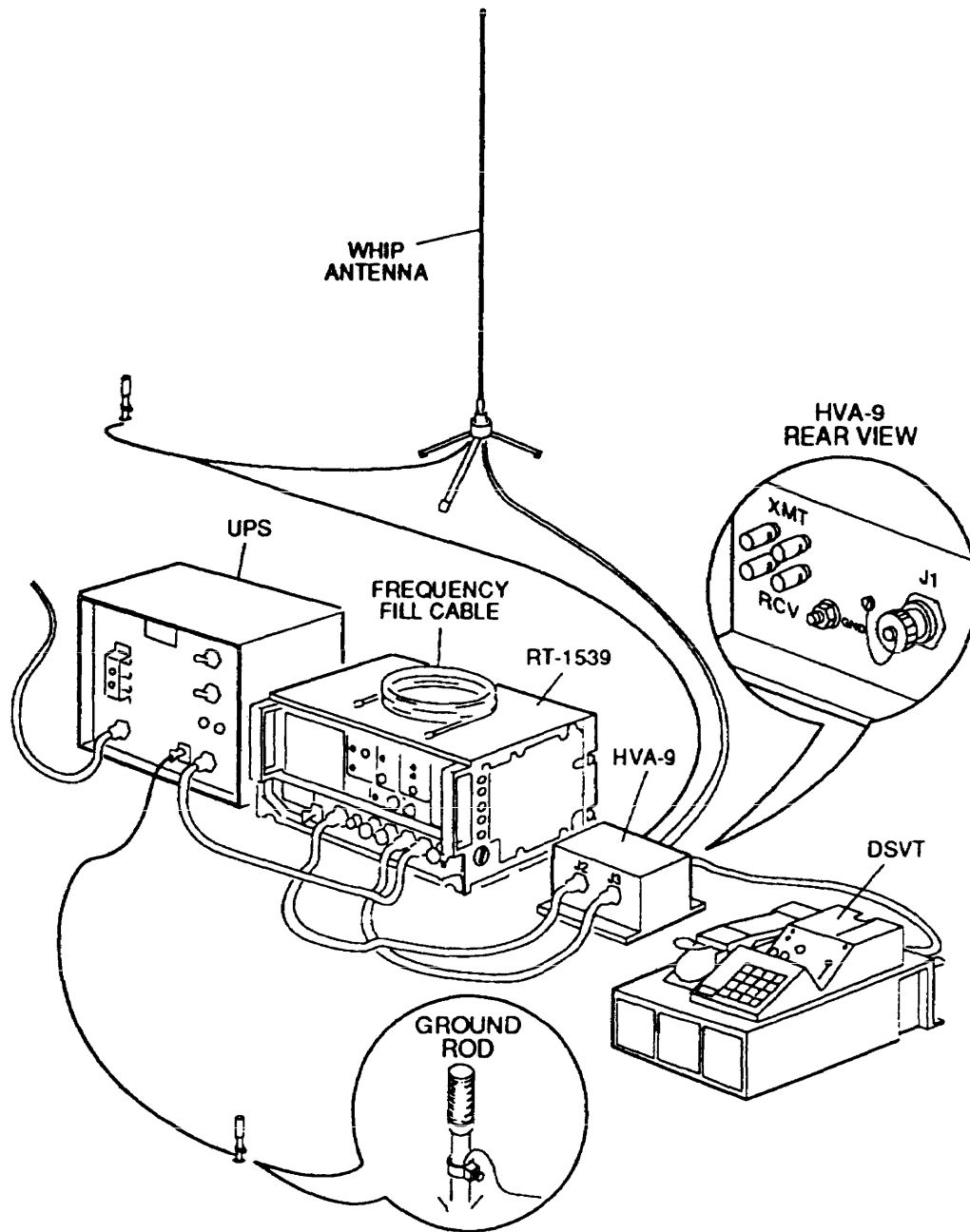
- 1 VHF Radio RT-1539(P)
- 1 VHF Antenna (30 to 88 MHz)
- 1 DSVT KY-68
- 1 Electronic Transfer Device KYK-13
- 1 High Voltage Amplifier (HVA)-9
- 1 Universal Power Supply (UPS)

Technical Characteristics

Power Requirement	-110 V AC, 220 V AC, or 28 V DC
Power Consumption	-50 W (standby) 240 W (max call in process)
Frequency Range*	30 to 35 MHz (low band, CONUS)
	40 to 50 MHz (high band, CONUS)
	30 to 51 MHz (low band, OCONUS)
	59 to 88 MHz (high band, OCONUS)
Transmission Range (Planning)	15 km

*** MSRT transmits in low band and receives in high band.**

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