



# AN-/PRC-77 RADIO SET PORTABLE VHF-FM TRANSCEIVER



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Radio Set AN/PRC-77 is a portable, manpack, battery-operated, fully solid-state FM Transmitter; operating on the VHF band. This set is very rugged and reliable, as well as easy to operate. RT-841/PRC-77 which is the major equipment of AN/PRC-77, also forms a part of vehicular and ground radio sets designated as AM/VRC-64 and AN/GRC-160 respectively. This radio is compatible with most VHF-FM radio sets i.e. AN/VRC-12 and other similar systems.

## FEATURES

**•SIMPLE OPERATION**

Frequency selection is accomplished by setting the BAND SWITCH and two frequency selector controls; one for MHz and the other for KHz setting. Other operating controls are FUNCTION SELECTOR and VOLUME CONTROL. Then you are ready to "Talk" using installed antenna and a handset PTT switch.

**•EXTREMELY RELIABLE**

RT-841 Transceiver has been designed and built to meet environmental tests/conditions of US military specifications, such as shock drop, vibration, bounce, immersion, dust, air, seal, moisture, resistance and temperature extremes. The rugged and solid-state design of the RT-841 assures trouble free, highly reliable operation under severe combat conditions.

**•WIDE COVERAGE**

The Transceiver is capable of operation on any of 920 channels; in 50KHz increments over the frequency range of 30 to 75/95 MHz. The RT-841 has a transmission range of approximately 5 Miles (8KM).

**•COMPATIBLE**

RT-841 provides two-way radio communication compatible with most VHF-FM radio sets, such as AN/PRC-25, -53, -64; AN/GRC-125, -160, -5 through -8; AN/VRC-53; AN/ARC-44,-45; KPRC-6 and additional communication with radio set AN/PRR-9 and AN/PRT-4(A) etc

**•VERSATILE**

RT-841 is a major component of radio sets AN/VRC-64 and AN/GRC-160. Accessories are available which enable the radio to operate as a retransmit station, as a homing receiver, remote control, radio-wired-integration, multiple radio-teletype and other wide band DATA transmissions, (Refer to operating manuals)

**•QUICK SERVICING**

The modular construction enables rapid replacement of faulty components, reduces parts inventory, and simplifies lower echelon-training.

## AN/PRC-77 VHF-FM RADIO SET



## SPECIFICATIONS

FREQUENCY RANGE	: LOW BAND 30.00 Mhz-52.95 Mhz HIGH BAND 53.00 Mhz-75.95 Mhz	BATTERY(NOT SUPPLIED)	: BA-386/PRC-25 (Carbon-Zinc): 30-HOUR LIFE AT 9:1 RECEIVING / TRANSMITTING RATIO BA-4386/U(magnesium): 60-HOUR LIFE AT 9:1RECEIVING/ TRANSMITTING RATIO BA-398/U(for arctic operation)
CHANNELS	: 920	OPERATING TEMPERATURE	: -40°F to+ 150°F (-40°C to+65°C)
CHANNEL SPACING	: 50KHz	RANGE	
FREQUENCY ACCURACY	: ±3.5KHz of DIAL FREQUENCY	STORAGE TEMPERATURE	: -80°F to+160°F(-62°C to+107°C)
MODULATION TYPE	: FM (Frequency Modulation)	RANGE	
SENSITIVITY	: 0.5µV (S+N+D / N+D 10dB)	ANTENNA	: SHORT : AT-892/PRC-25:3FT(0.9m) LONG, FLEXIBLE LONG : AT-271A/PRC: 10FT(3m) LONG, MULTI-SECTION WHIP
RF POWER OUTPUT	: 15-4W	DIMENSION	: 4"(H)×11"(W)×11"(D) (10.2cm H×28cm W×28cmD)
AUDIO OUTPUT	: 4mW(1KΩ load)	WEIGHT	: APPROXIMATELY 20LB(9kg)
SQUELCH TYPE	: 150 Hz TONE OPERATED		
DISTORTION	: 10% MAX.AT4mW AUDIO 6%, MAX.AT1mW AUDIO		
AUDIO RESPONSE	: 300-3,000Hz (Narrow Band) 15.20,000Hz (Wide Band)		
NOMINAL COMMUNI- CATION DISTANCE	: 5miles (8km)		
INPUT VOLTAGE	: 10-15VDC		
POWER CONSUMPTION	: IN RECEIVE MODE,60mA AVERAGE IN TRANSMIT MODE,780mA AVERAGE		



The AN/VRC-64 is the vehicular version of AN/PRC-77. The set includes Amplifier-Power Supply Group OA-3633/GRC. Mounting MT-1029/VRC. Antenna AS-1729/VRC.

## ACCESSORIES

**•SYSTEM COMPLEMENTS**

**HARNESS ST-138/PRC-25** Harness is a cotton duck back pack. It is sewn to secure the receiver-transmitter so that it can be carried on the operator's back.

**BAG COTTON DUCK CW-503/PRC-25** Bag is a sectionalized canvas carrying case used to store the two whip antennas and the handset.

**ANTENNA AT-892/PRC-25** is a one-section, three foot, whip antenna. A spring at its base allows the antenna to be placed in a vertical position no matter what the position of the receiver-transmitter. It is constructed of steel tape and can be folded for storage.

**ANTENNA AT-271A/PRC** is a six section, tubular, folding whip antenna. A stainless steel, plastic-covered cable (or braided plastic cord) under spring tension is threaded through the sections to keep them together when assembled for operation and prevent their separation or loss when disassembled. Spring tension is provided by a spiral spring in the base section. An antenna top cap installed on the tip of the antenna provides protection for personnel.

**ANTENNA BASE AB-591/PRC-25** is an antenna base that will act as a rigid support for the tubular six section antenna.

**HANDSET H-189/GR** Handset contains a dynamic microphone and receiver for transmitting and receiving signals. A push-to-talk switch is mounted in the handle. The connecting cord is retractile and terminates in a five-pin connector.

**•OPTIONAL ACCESSORIES**

**AN/GSA-7, AN/GRA-39 OR AN/GRA-6** Radio set Control Group for Remote Control of Radio up to 2 Miles (3.2KM) and for Radio Wired Integration (RWI)

**LOUD SPEAKER LS-549 OR LS-166** Loud speaker Electromagnetic for monitoring audio

**ANTENNA RC-292 OR AT-984A/G** Antenna for longer communication

**ANTENNA HOMING LOOP AT-784/PRC** For detection and location of radio signals.

**SECURITY EQPT. TSEC/KY-38** For secure voice communication

**RE-TRANSMISSION CABLE KIT MK-456/GRC** For connecting two radio sets to operate as Automatic Radio Relay.