

**AN/PRC-119(V1), AN/VRC-87(V2), AN/VRC-88(V3), AN/VRC-89(V4),  
AN/VRC-90(V5), AN/VRC-91(V6), AN/VRC-92(V7)  
SINGGARS-V Radio Sets**

Status:     STD-A; NSN: 5820-01-151-9915 (AN/PRC-119( ) (V1))  
               STD-A; NSN: 5820-01-151-9916 (AN/VRC-87( ) (V2))  
               STD-A; NSN: 5820-01-151-9917 (AN/VRC-88( ) (V3))  
               STD-A; NSN: 5820-01-151-9918 (AN/VRC-89( ) (V4))  
               STD-A; NSN: 5820-01-151-9919 (AN/VRC-90( ) (V5))  
               STD-A; NSN: 5820-01-151-9920 (AN/VRC-91( ) (V6))  
               STD-A; NSN: 5820-01-151-9921 (AN/VRC-92( ) (V7))

Reference: TM 11-5820-890-10-1  
               TM 11-5820-890-20-2

General Information

SINGGARS-V is a new family of VHF-FM radio sets designed to meet the Army's tactical communications requirements under the new air-land battle doctrine. SINGGARS-V is replacing the AN/PRC-77 and the AN/VRC-12 series radio sets. It is designed for simple, quick operation utilizing a 16-element key pad for push-button tuning. SINGGARS-V is capable of short-range or long-range operation for voice, FSK, or digital data communications. It can be used for single-channel operation or in a jam-resistant, frequency hopping mode which can be changed as needed. SINGGARS-V has a built-in self test with visual and audio read back. Major components and equipment configurations are shown in the chart on the following page.

Technical Characteristics

Frequency Range-----30 to 88 MHz  
 Number of Channels-----2,320 (spaced every 25 kHz) includes six  
   channels that can be preset for single  
   channel operation and six that can be  
   preset for frequency hopping operation  
 Power Input-----12 V DC, manpack; 28 V DC, vehicular/  
   aircraft  
 Power Output-----5 W; and up to 50 with power amplifier  
 Antenna-----See the following chart

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SINGARS COMPONENTS			Receiver/Transmitter					Vehicle Application		Vehicle Antenna		Manpack Antenna		Battery Case		Power Amplifier	
			1	2	3	4	5	1	2	1	2	1	2	1	2		
Version	Nomenclature	Function	Components										Replaces				
(V1)	AN/PRC-119	Manpack	1					1	1								AN/PRC-25, AN/PRC-77
(V2)	AN/VRC-87	Vehicle, Short Range	1	1	1												AN/VRC-53, AN/VRC-64
(V3)	AN/VRC-88	Vehicle, Short Range/ Dismount	1	1	1	1	1										AN/GRC-125, AN/GRC-160
(V4)	AN/VRC-89	Vehicle, Long Range/ Vehicle, Short Range	2	1	2								1				AN/VRC-12, AN/VRC-47
(V5)	AN/VRC-90	Vehicle, Long Range	1	1	1								1				AN/VRC-43, AN/VRC-46
(V6)	AN/VRC-91	Vehicle, Long Range/ Vehicle, Short Range/ Dismount	2	1	2	1	1	1									AN/VRC-46 and AN/GRC-160
(V7)	AN/VRC-92	Dual/Vehicle, Long Range	2	1	2								2				AN/VRC-45, AN/VRC-49

Ancillary Items:  
 Receiver-Transmitter RT-1439(P)/VRC  
 Data Adapter MX-10506( )/VRC  
 Electronic Counter-Countermeasure Module C-11290( )/VRC  
 Intervehicular Remote Control Unit C-11291( )/VRC

