

**UNIT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
RADIO SETS**

**AN/PRC-119F
(NSN 5820-01-451-8252) (EIC: N/A)**

**AN/VRC-87F
(NSN 5820-01-451-8248) (EIC: N/A)**

**AN/VRC-88F
(NSN 5820-01-452-8435) (EIC: N/A)**

**AN/VRC-89F
(NSN 5820-01-451-8247) (EIC: N/A)**

**AN/VRC-90F
(NSN 5820-01-451-8246) (EIC: N/A)**

**AN/VRC-91F
(NSN 5820-01-451-8249) (EIC: N/A)**

AND

**AN/VRC-92F
(NSN 5820-01-451-8250) (EIC: N/A)**

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED

**HEADQUARTERS, DEPARTMENT OF THE ARMY
1 FEBRUARY 2003**

Technical Manual

No. 11-5820-890-20P-2

HEADQUARTERS,
Department of the Army
Washington, D.C., 1 February 2003

UNIT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR RADIO SETS

AN/PRC-119F	(NSN 5820-01-451-8252) (EIC: N/A)
AN/VRC-87F	(NSN 5820-01-451-8248) (EIC: N/A)
AN/VRC-88F	(NSN 5820-01-452-8435) (EIC: N/A)
AN/VRC-89F	(NSN 5820-01-451-8247) (EIC: N/A)
AN/VRC-90F	(NSN 5820-01-451-8246) (EIC: N/A)
AN/VRC-91F	(NSN 5820-01-451-8249) (EIC: N/A)
AN/VRC-92F	(NSN 5820-01-451-8250) (EIC: N/A)

Current as of 1 October 2002

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 located in back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LEO-D-CS-CFO, Fort Monmouth, New Jersey 07703-5006. The fax number is 732-532-1413, DSN 992-1413. You may also e-mail your recommendations to AMSEL-LC-LEO-PUBS-CHG@cecom3.monmouth.army.mil

A reply will be furnished direct to you.

TABLE OF CONTENTS

		Page	Illus/ Figure
Section	I. Introduction.....	1	
	II. Repair Parts List.....	1	
Group	00 SINCGARS Family of Radios.....	1-1	1
	64 Radio Receiver-Transmitter RT-1523E(C)/U	2-1	2
	6403 Chassis Assembly-Receiver-Transmitter	7-1	7
	6405 Battery Cover Assembly	10-1	10
	65 Vehicular Amplifier-Adapter AM-7239E/VRC.....	11-1	11
	6501 Electrical Chassis-Electronic Equipment-Adapter/Power Supply	12-1	12
	6502 Electronic Components Assembly-Sidehat	13-1	13
	6503 Electronic Components Assembly-Power Control	14-1	14
	6506 Electrical Equipment Shelf	15-1	15
	6507 Electrical Equipment Mounting Base	16-1	16

TABLE OF CONTENTS

		Page	Illus/ Figure
Group 66	Radio Set AN/PRC-119F (see group 00 for listing of parts)		
	6601 Receiver-Transmitter RT-1523E(C)/U (see group 64 for listing of parts)		
	6602 Manpack Antenna AS-3683/PRC (see TM 11-5820-890-20P-1 for listing of parts)		
	6603 Handheld Remote Control Radio Device C-12493/U (see TM 11-5820-890-20P-1 for listing of parts)		
67	Radio Set AN/VRC/-87F (see group 00 for listing of parts)		
	6701 Receiver-Transmitter RT-1523E(C)/U (see group 64 for listing of parts)		
	6702 Vehicular Amplifier-Adapter AM-7239E/VRC (see group 65 for listing of parts)		
68	Radio Set AN/VRC-88F (see group 00 for listing of parts)		
	6801 Receiver-Transmitter RT-1523E(C)/U (see group 64 for listing of parts)		
	6802 Vehicular Amplifier-Adapter AM-7239E/VRC (see group 65 for listing of parts)		
	6803 Manpack Antenna AS-3683/PRC (see TM 11-5820-890-20P-1 for listing of parts)		
	6804 Handheld Remote Control Radio Device C-12493/U (see TM 11-5820-890-20P-1 for listing of parts)		
69	Radio Set AN/VRC-89F (see group 00 for listing of parts)		
	6901 Receiver-Transmitter RT-1523E(C)/U (see group 64 for listing of parts)		
	6902 Vehicular Amplifier-Adapter AM-7239E/VRC (see group 65 for listing of parts)		
70	Radio Set AN/VRC-90F (see group 00 for listing of parts)		
	7001 Receiver-Transmitter RT-1523E(C)/U (see group 64 for listing of parts)		
	7002 Vehicular Amplifier-Adapter AM-7239E/VRC (see group 65 for listing of parts)		
71	Radio Set AN/VRC-91F (see group 00 for listing of parts)		
	7101 Receiver-Transmitter RT-1523E(C)/U (see group 64 for listing of parts)		
	7102 Vehicular Amplifier-Adapter AM-7239E/VRC (see group 65 for listing of parts)		
	7104 Manpack Antenna AS-3683/PRC (see TM 11-5820-890-20P-1 for listing of parts)		
	7105 Handheld Remote Control Radio Device C-12493/U (see TM 11-5820-890-20P-1 for listing of parts)		
72	Radio Set AN/VRC-92F (see group 00 for listing of parts)		
	7201 Receiver-Transmitter RT-1523E(C)/U (see group 64 for listing of parts)		
	7202 Vehicular Amplifier-Adapter AM-7239E/VRC (see group 65 for listing of parts)		
	7204 Electronic Equipment Auxiliary Kit MK-2312/VRC (see TM 11-5820-890-20P-1 for listing of parts)		

TABLE OF CONTENTS

		Page	Illus/ Figure
Section	III. SPECIAL TOOLS LIST (Not Applicable)		
Section	IV. Cross-Reference Indexes		
	National Stock Number Index.....	I-1	
	Part Number Index	I-2	

SECTION I INTRODUCTION

1. Scope

This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of unit and direct support maintenance of AN/PRC-119F, AN/VRC-87F, AN/VRC-88F, AN/VRC-89F, AN/VRC-90F, AN/VRC-91F, and AN/VRC-92F. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II, Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numeric sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group header. Repair part kits are listed separately in their own functional group within section II. Repair parts for reparable special tools are also listed in this section. Items are shown on the associated illustration.

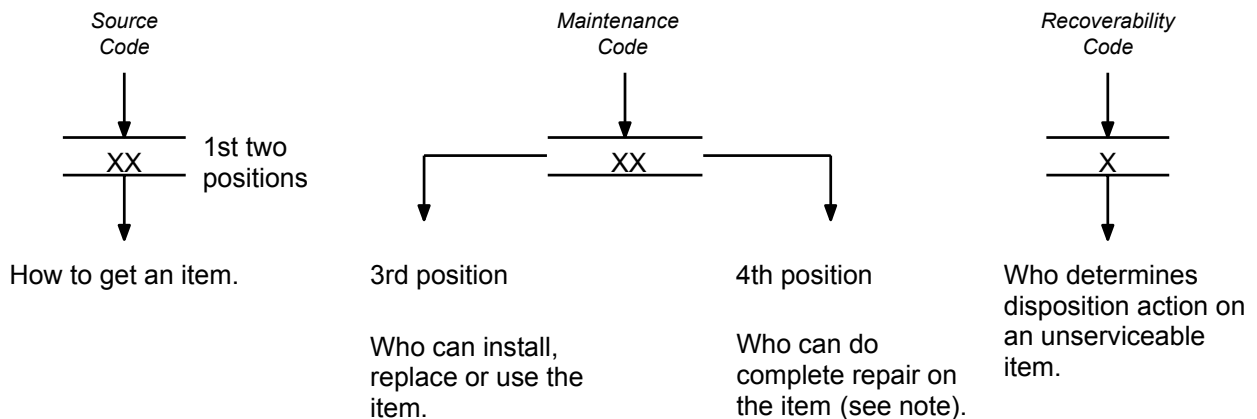
b. Section III, Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE (UOC) column (5) for the performance of maintenance.

c. Section IV. Cross-Reference Indexes. There are two cross-reference indexes in this RPSTL: the National Stock Number Index and the Part Number Index. The National Stock Number Index refers you to the figure and item number. The Part Number Index refers you to the figure and item number.

3. Explanation of Columns (Sections II and III)

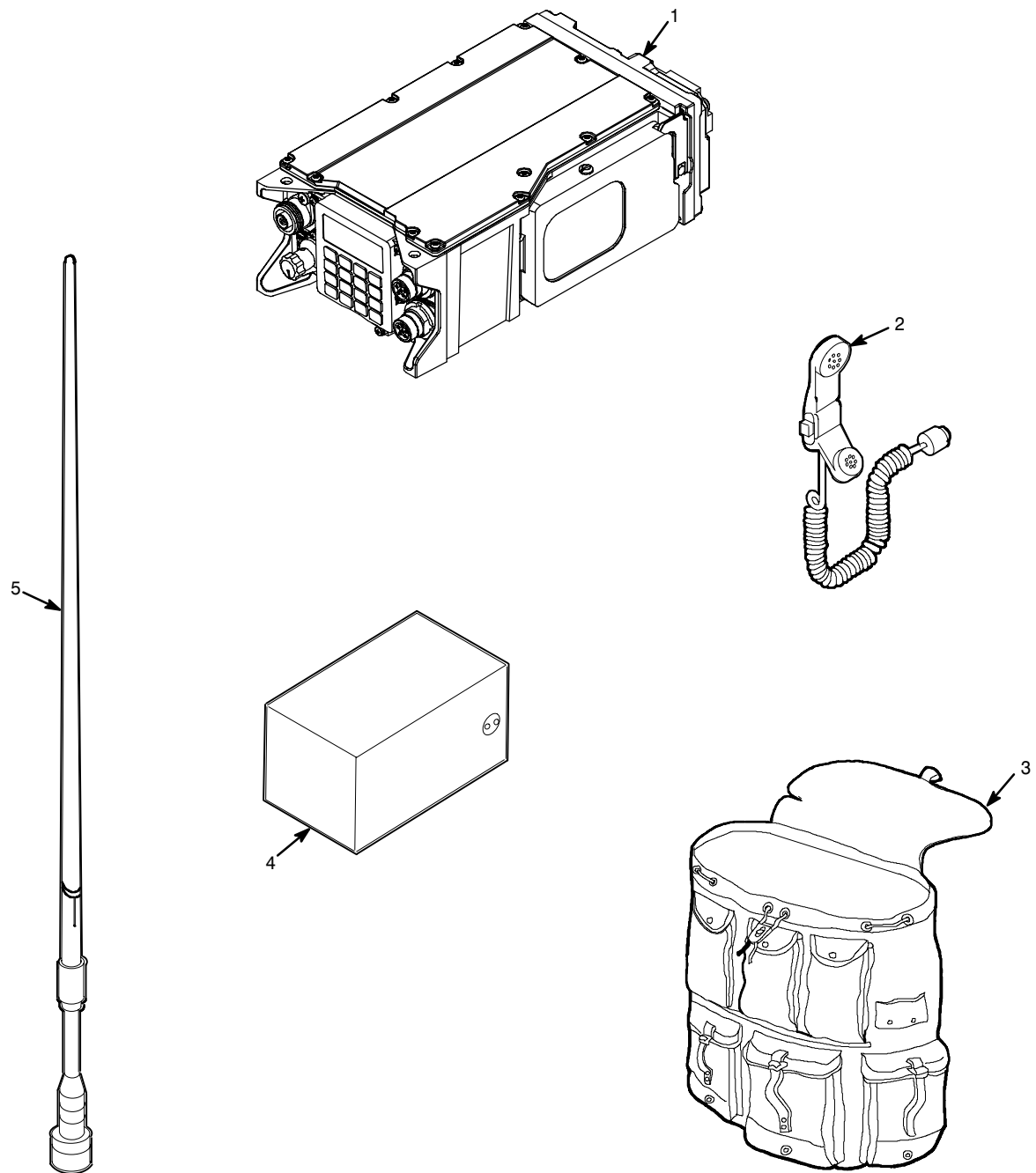
a. Item No. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR CODE (Column (2)). The source, maintenance, and recoverability (SMR) code is a five-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction as shown in the following breakout:



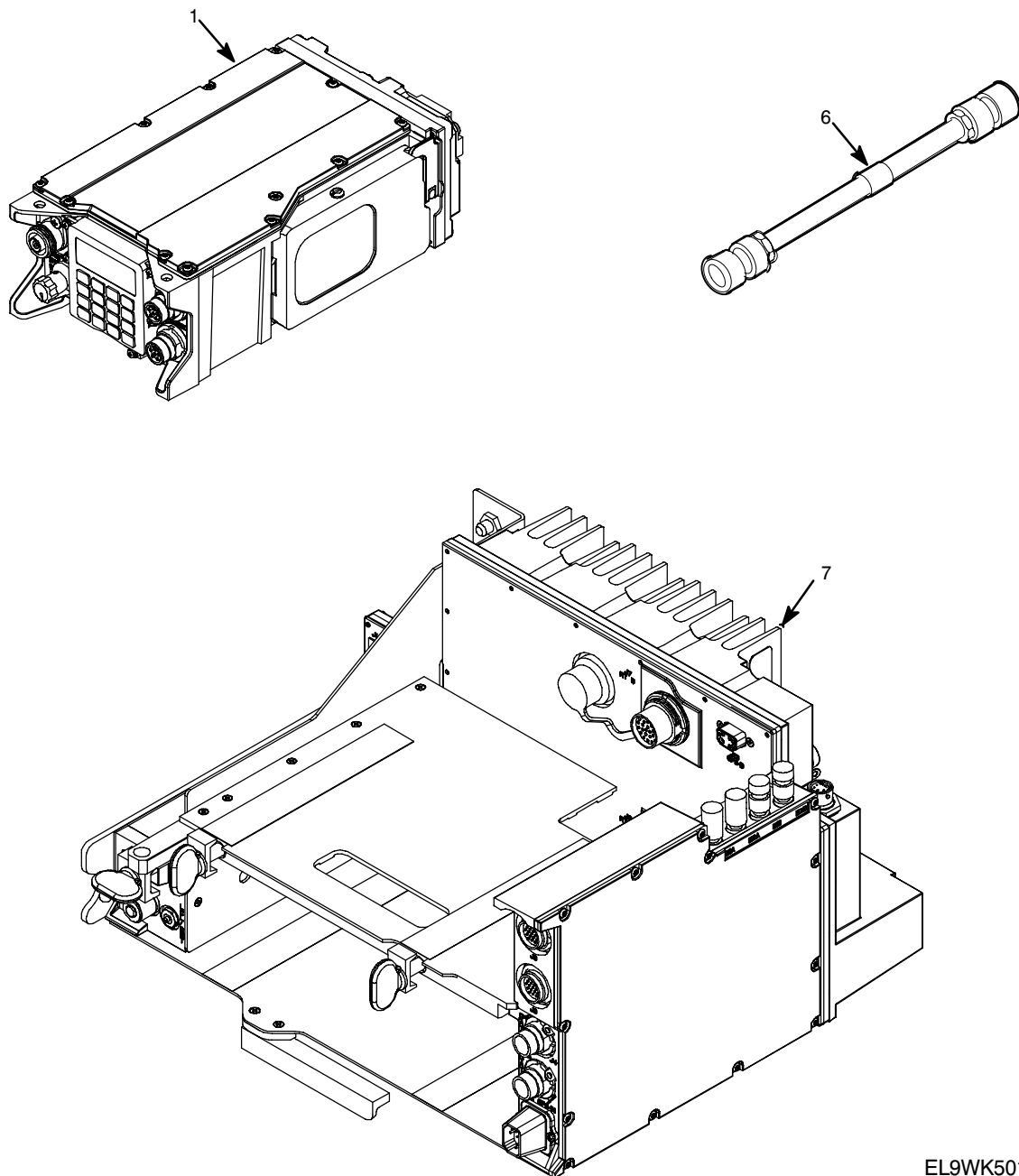
NOTE

Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.



EL9WK500

Figure 1. SINCGARS Family of Radios (AN/PRC-119F) (Sheet 1 of 8)



EL9WK501

Figure 1. SINCGARS Family of Radios (AN/VRC-87F) (Sheet 2 of 8)