
TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LISTS**

FOR

**RADIO SET AN/ARC-115A(V)1
(NSN 5821-01-057-4037)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

9 FEBRUARY 1980

TECHNICAL MANUAL }
No. 11-5821-260-20P-1 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 9 February 1980

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
FOR
RADIO SET AN/ARC-115A(V)1
(NSN 5821-01-057-4037)**

Current as of 2 October 1979

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 or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, New Jersey 07703.

In either case, a reply will be furnished direct to you.

Table of Contents

		Page	Illus Figure
SECTION	I. Introduction	1	
	II. Repair Parts List	5	
Group	00 Radio Set AN/ARC-115A(V)1	5	1
	01 Panel Assembly, Radio Set	7	2
	02 Frequency Selector Assembly (no parts authorized)		
	0201 Tuning Matrix "C/D" Deck Assembly (no parts authorized)		
	0202 Tuning Matrix "A" Deck Assembly (no parts authorized)		
	0203 Tuning Matrix "B" Deck Assembly (no parts authorized)		
	03 Amplifier Synthesizer Assembly (no parts authorized)		
	0301 Phase Locked RF Generator (no parts authorized)		
	0302 Dividers 10 MC Osc (no parts authorized)		
	0303 VCG and D-A Converter Assembly (no parts authorized)		
	0304 Transmit Audio and Comparator Assembly (no parts authorized)		
	0305 Guard IF Amplifier (no parts authorized)		
	0306 Guard 2nd IF Detector and AGC Amplifier (no parts authorized)		
	0307 Guard Squelch Cicuit (no parts authorized)		
	0308 Audio Amplifier Assembly (no parts authorized)		
	0309 Main Squelch Circuit (no parts authorized)		
	0310 Main 2nd IF Detector and AGC Amplifier (no parts authorized)		
	0311 Main IF Amplifier (no parts authorized)		
	0312 Chassis and Cable Assembly (no parts authorized)		
	04 Main RF Amplifier Mixer Assembly (no parts authorized)		
	0401 Main Receiver, RF Amplifier and Mixer (no parts authorized)		
	0402 Guard RF Amplifier and Mixer Assembly (no parts authorized)		
	0403 Noise Generator (no parts authorized)		
	0404 Guard Receiver Osc Assembly (no parts authorized)		
	05 RF Coupler and Filter Assembly (no parts authorized)		
	0501 T/R Relay (no parts authorized)		
	0502 Low Pass Filter Circuit Card (no parts authorized)		
	0503 RF Coupler Circuit Card (no parts authorized)		
	06 Power Supply (no parts authorized)		
	07 Surge Protector Transistor (no parts authorized)		
	08 +9V Regulator Transistor (no parts authorized)		
	09 Circuit Card Modulator (no parts authorized)		
	10 Power Amplifier Exciter Assembly (no parts authorized)		
	1001 Exciter (no parts authorized)		
	1002 Power Amplifier (no parts authorized)		
SECTION	III. Special Tools List (not applicable)		
	IV. National Stock Number and Part Number index.	8	

•This manual supersedes TM 11-5821-260-20P-1, 21 June 1978.

SECTION I INTRODUCTION

1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational maintenance of the AN/ARC-115A(V)1. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance 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 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 numeric sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance

Code	Application/Explanation
------	-------------------------

O — Support item is removed, replaced, used at the organizational level.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the of the following maintenance codes:

Code	Application/Explanation
------	-------------------------

Z — Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability codes	Definition
----------------------	------------

Z — Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specification, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (UM). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is ex-