

TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS

FOR

RADIO SETS AN/ARC-134 (NSN 5821-00-937-1086)

AN/ARC-134A (NSN 5821-00-879-13771

AND

AN/ARC-134B (NSN 5821-00-181-0430)

HEADQUARTERS, DEPARTMENT OF THE ARMY

NOVEMBER 1978

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS
FOR

RADIO SETS

AN/ARC-134 (NSN 5821-00-937-1086)

AN/ARC-134A (NSN 5821-00-879-1377)

AND

AN/ARC-134B (NSN 5821-00-181-0430)

Current as of 12 June 1978

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 located in the back of the manual. Simply tear out the self addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Form 2028-2 in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the 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 Sets AN/ARC-134, AN/ARC-134A, AN/ARC-134B	5	1
01 Receiver-Transmitter, Radio RT-857/ARC-134	7	2-6
0101 Cable assembly, radio frequency (3W1)	25	7
0102 Power supply subassembly (3A7)	27	8
0103 Receiver-transmitter, exciter subassembly (3A8)	31	9
0104 Receiver-transmitter, power amplifier subassembly (3A9)	35	10
010401 Antenna filter subassembly (3A9A1)	39	11
010402 Driver assembly (3A9A5)	41	12
010403 Motor transmission control subassembly (3A9A6)	45	13
0105 Receiver assembly (3A10)	51	14,15
010501 Hundreth MHz oscillator subassembly (3A10A2)	61	16
010502 Tenths MHz oscillator subassembly (3A10A3)	65	17
010503 Units MHz oscillator subassembly (3A10A4)	69	18
010504 Tens MHz oscillator subassembly (3A10A5)	73	19
010505 3.045-MHz oscillator subassembly (3A10A6)	75	20
01060601 3.045-MHz oscillator circuit assembly(3A10A6M)	75	20
010606 IF and AGC subassembly (3A10A7)	79	21
010607 Squelch and receiver audio subassembly (3A10A8)	83	22
010506 Bias tuning matrix subassembly (3A10A9)	87	23
0106 Modulator input subassembly (3 A11)	91	24
0107 Power control and sidetone amplifier subassembly (3A12)	97	26
02 Radio Set, Control, C-7197/ARC-134	101	26-29
03 Mounting MT-3791A/ARC-134 and MT-3791B/ARC-134	113	30
SECTION III. Special tools list (Not applicable)		
IV. National stock number and part number index	114	

*This manual supersedes TM 11-5821-277-35P, 22 June 1970, Including all changes.

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 direct support and general support maintenance of the AN/ARC-134, AN/ARC-134A, and AN/ARC-134B. 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 listing. 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.
PD	Support, item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
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:

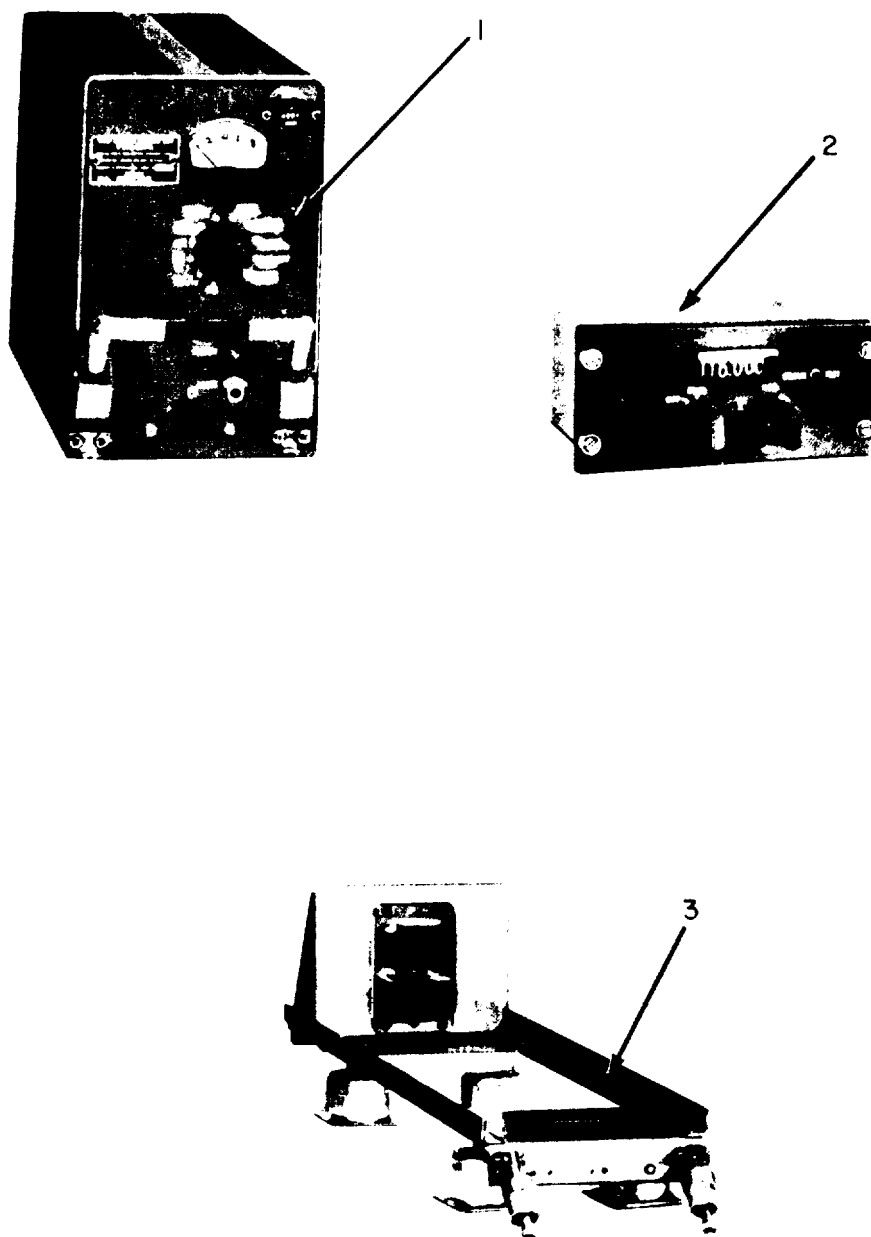
Code	Application/Explanation
O	-Support item is removed, replaced, used at the organizational level.
F	-Support item is removed, replaced, used at the direct support level.
H	-Support item is removed, replaced, used at the general support level.

(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 following maintenance codes:

Code	Application/Explanation
O	—The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	—The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	—The lowest maintenance level capable of complete repair of the support item is the general support level.
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 Code	Definition
Z	—Nonreparable item, When unserviceable, condemn and dispose at the level indicated in position 3.
O	—Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
F	—Reparable item. When uneconomically reparable,



NOTE: COAXIAL CABLE, FILTER, AND CONNECTOR CABLE CLAMPS NOT USED ON MT-3791/ARC -134 AND MT-3791A/ARC-134.

ELIJNOOI

Figure 1. Radio Sets AN/ARC-134, AN/ARC-134A and AN/ARC-134B.