
TECHNICAL MANUAL

**DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
RADAR SET AN/APN-158 (NSN 5841-00-082-3534)
ANTENNAS AS-1520/APN-158 (NSN 5841-00-082-3541)
AND
AS-1642/APN-158 (NSN 5841-00-082-3803)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
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*Current as of 19 December 1978***REPORTING OF ERRORS**

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SECTION I INTRODUCTION

1-1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (MDE), and other special support equipment required for the performance of direct support and general support maintenance of the AN/APN-158, AS-1520/APN-158, AS-1642/APN-158. It authorizes the requisitioning and use of spares and repair parts as indicated by the source and maintenance codes.

1-2. 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 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 (NIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphabetic 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 appearing.

1-3. Explanation of Columns

Illustration. This column is divided as follows:

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

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

Source, Maintenance, and Recoverability (SMR) Codes.

(1) **Source code.** Source codes indicate the manner of procuring 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:

	<i>Definition</i>
—	Item procured and stocked for anticipated or known usage.
—	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 sup-

port 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:

<i>Code</i>	<i>Application/Explanation</i>
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.
D	—Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

(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:

<i>Code</i>	<i>Application/Explanation</i>
H	—The lowest maintenance level capable of complete repair of the support item is the general support level.
D	—The lowest maintenance level capable of complete repair of the support item is the depot 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:

<i>Recoverability codes</i>	<i>Definition</i>
Z	—Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
H	—Reparable item. When uneconomically reparable, condemn and dispose at the general support level.
D	—Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L	—Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.

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, specifications, 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 (U/M).** Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

A. **Quantity Incorporated in Unit.** Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

4. Special Information

The following publications pertain to the AN/APN-158, AS-1520/APN-158, AS-1642/APN-158 and its components:

TM 11-5841-241-12, Radar Sets AN/APN-158 and AN/APN-158A

TM 11-5841-241-20P, Radar Sets AN/APN-158 and AN/APN-158A

TM 11-5841-241-35, Radar set AN/APN-158

5. How to Locate Repair Parts

a. When National stock number or part number is unknown.

(1) First. Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) Second. Find the illustration covering the functional group to which the item belongs.

(3) Third. Identify the item on the illustration and note the illustration figure and item number of the item.

(4) Fourth. Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. **When** National stock number or part number is known.

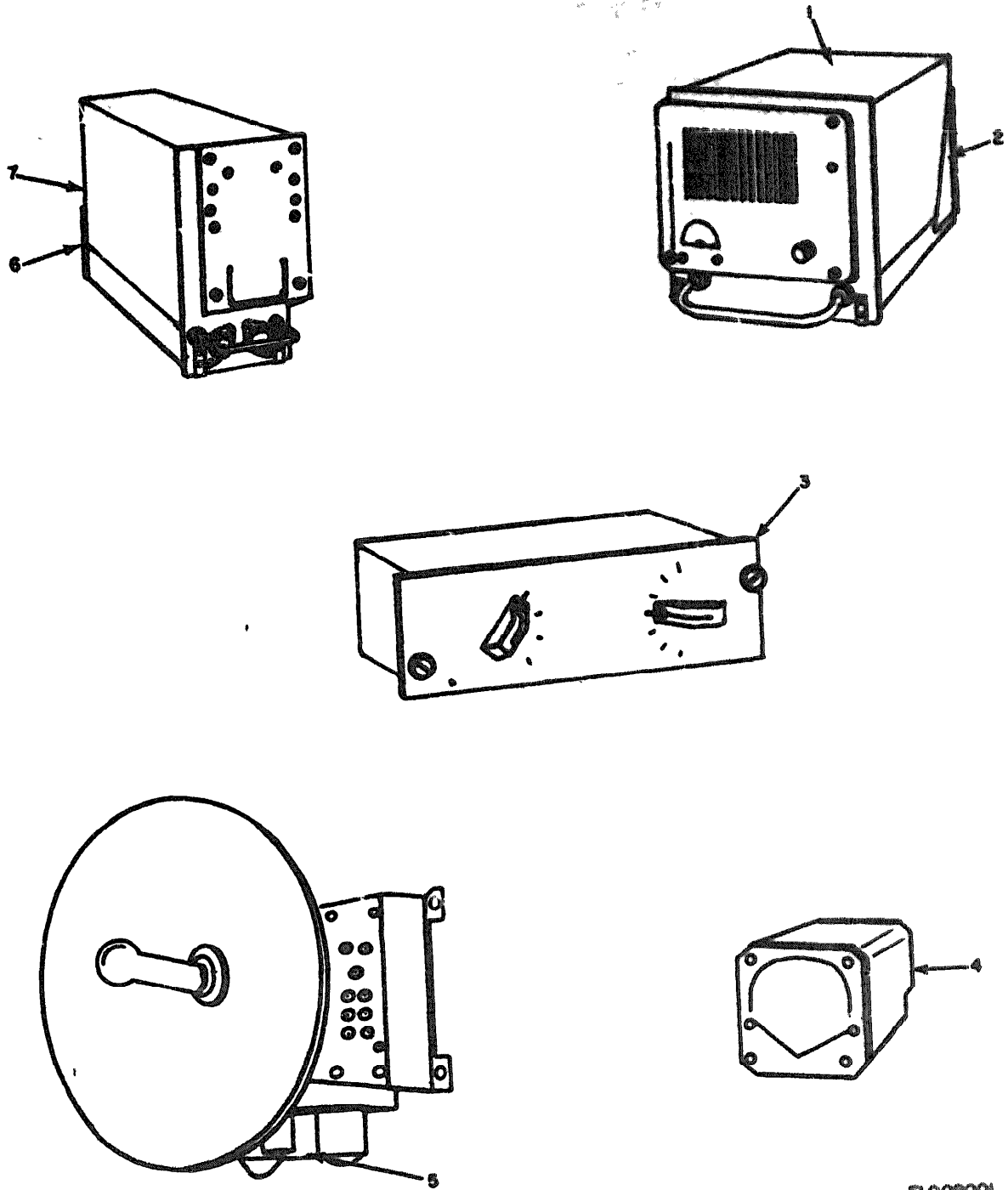
(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.

(Next printed page is 4)



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Figure 1. Radar Set AN/APN-158.