

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

(INCLUDING DEPOT MAINTENANCE REPAIR

PARTS AND -SPECIAL TOOLS)

FOR

RANGE FINDER, FIRE CONTROL:

(LASER) AN/VVG-1 (1240-00-470-2156)

HEADQUARTERS, DEPARTMENT OF THE ARMY

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**DIRECT SUPPORT AND GENERAL SUPPORT
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 FOR
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Current as of May 1974

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Section I. INTRODUCTION

1. Scope.

This manual lists repair parts, special tools, and support equipment required for the performance of direct support, general support and depot maintenance of Range Finder, Fire Control: (Laser) AN/VVG-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 repair parts authorized at the direct support, general support and depot levels for the performance of maintenance. The list also includes parts which must be removed for the replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical sequence, with parts in each group listed in figure and item number sequence.

b. *Section III. Special Tools List.* A list of special tools, and support equipment authorized for the performance of maintenance at the direct support, general support, and depot levels.

c. *Section IV. National Stock Number and Part Number Index.* A list, in ascending numerical sequence, of all National Stock numbers 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.

The following provides an explanation of columns found in the tabular listings:

a. *Illustration.* This column is divided as follows:

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

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

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

(1) *Source code.* Source codes are assigned to support items to 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.
PB	Item procured and stocked for insurance purpose because essentially dictates that a minimum, quantity be available in the supply systems.
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
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.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.

Code	Definition
PF	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
KD	An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO	Item to be manufactured or fabricated at organizational level.
MF	Item to be manufactured or fabricated at the direct support maintenance level.
MH	Item to be manufactured or fabricated at the general support maintenance level.
MD	Item to be manufactured or fabricated at the depot maintenance level.
AO	Item to be assembled at organizational level.
AF	Item to be assembled at direct support maintenance level.
AH	Item to be assembled at general support maintenance level.
AD	Item to be assembled at depot maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.
XD	Support Items listed in this RPSTL-TM with assigned maintenance and recoverability codes and no source codes can be requisitioned with justification through normal channels by use of the part number and FSCM. Such support items are not normally stocked.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except coded XA, XD, 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:

<i>Code</i>	<i>Application/Explanation</i>
C	Crew or operator maintenance performed within organizational maintenance.
O	Support item is removed, replaced, used at the organizational level.
I	Support item is removed, replaced, used by the direct support element of integrated direct support maintenance.
F	Support item 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.

NOTE

Codes "I" and "F" will be considered the same by direct support units.

(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>
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.
D	The lowest maintenance level capable of complete repair of the support item is the depot level, performed by Anniston Army Depot.
L	Repair restricted to designated specialized repair activity.
Z	Nonreparable. No repair is authorized.
B	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(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 SFR Code format as follows:

Recoverability

<i>Codes</i>	<i>Definition</i>
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	Reparable item. When uneconomically repairable, condemn and dispose at organizational level.

Recoverability

<i>Codes</i>	<i>Definition</i>
F	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.
H	Reparable item. When uneconomically repairable, 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.
A	Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.

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. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description.

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.

h. *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. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc).

4. Special Information.

The following publications pertain to the Laser Range Finder AN/VVG-1.

TM 9.2350-230-10/2-3	Operator's Manual (Turret Operation) for AR/AAV M551A-(Sheridan) (W/Laser Range Finder)
TM 9-2350-230-20	Organizational Maintenance Manual for Armored Reconnaissance/Airborne Assault Vehicle Full-Track, 152-MM, M551

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 repair part 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 repair part belongs.

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

(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 ascending NSN sequence followed by a list of part numbers in ascending alphameric sequence, crossreferenced 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.

<i>Abbreviations</i>	<i>Explanation</i>
cop.....	copper
cres.....	corrosion resistant steel
ctsk.....	countersink
cup pt.....	cup point
dia.....	diameter
f.....	flat head
fnsh.....	finish
hd.....	head
hgt.....	height
id.....	inside diameter
lkg.....	locking
od.....	outside diameter
pnh.....	pan head
psvt.....	passivate
rec.....	recessed
md.....	round
cr.....	screw
sp.....	spring
thd.....	thread
thk.....	thick
UNC.....	Unified coarse thread
w.....	width

7. Recommendations for Maintenance Publications Improvements.

You can help to improve this manual by calling attention to errors and by recommending improvements. Your letter or DA Form 2028 (Recommended Changes to Publications) should be mailed directly to Commander, Frankford Arsenal, ATTN: SARFA-MA, Philadelphia, PA 19137. A reply will be furnished directly to you.

Section II. REPAIR PARTS LIST

FIG NO.	ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	U/M	QTY INC IN UNIT
						RANGE FINDER LASER AN/VVG-1, 11738801		
1	1	XA		11737449	19200	HEADREST ASSEMBLY	EA	1
1	2	PAOZZ	1240-00-853-7764	10553476	19200	HEADREST PADDED	EA	1
1	3	PAOZZ	5305-00-719-5065	MS51960-80	96906	SCREW, MACHINE FLAT, CTSK HD, 82 CROSS REC CREW, PSVT 1/4 28 UNF-2A,3/8 L	EA	2
1	4	XA		10542164	19200	SUPPORT		1
1	5	XA		10542162	19200	PLATE		1
1	6	XA		10542163	19200	SHAFT		1
1	7	PAODL	1240-00-146-6179	11738851	19200	RECEIVER-TRANSMITTER CONTROL (A75)	EA	1
1	8	PAOZZ	5310-00-167-0804	AN960C516	88044	WASHER, FLAT 0.390 ID, 0.625 OD, 0.064 THK	EA	5
1	9	PAOZZ	5306-00-255-6603	11662873-61	19200	SCREW	EA	5
1	10	PAODL	1265-00-162-3444	11768821	19200	LASER RECEIVER-TRANSMITTER (A76)	EA	1
1	11	PAODL	1240-00-140-9855	11738831	19200	LASER POWER SUPPLY CONTROL (A77)	EA	1
1	12	PAOZZ	5310-00-903-1542	MS51972-3	96906	NUT, PLAIN HEXAGON CRES PSVT, FNSH 3/8-24-UNF-28, 0.551 WAF, 0.32 HGT	EA	6
1	13	PAOZZ		10910714-3	19200	WASHER	EA	6
1	14	PAOZZ		11662873-65	19200	SCREW	EA	5
1	15	PAODL	1240-00-145-6395	11738841	19200	POWER SUPPLY (A78)	EA	1
1	16	PAOZZ		1162873-67	19200	SCREW	EA	1
1	17	PAOZZ	5306-00-157-5772	1162873-6	19200	SCREW	EA	2
1	18	PAOZZ	5310-00-531-6515	AN960C416	88044	WASHER, FLAT (UNIT MFG HARDWARE)	EA	2
1	19	PAODL	1240-00-147-8759	11738811	19200	LASER RANGING CONTROL (A79)	EA	1