

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE
REPAIR PARTS)
FOR
TEST SET, LASER RANGE FINDER
TS-3375/VVG-1
(4931-00-150-1558)

HEADQUARTERS, DEPARTMENT OF THE ARMY
1975

TECHNICAL MANUAL

TM 9-4931-355-24P

HEADQUARTERS,
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 1975

**ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS)
FOR
TEST SET, LASER RANGE FINDER TS-3375/VVG-1
(4931 00-150-1558)**

Current as of 29 July 1975

	Subject	Page	Illus fig
SECTION	I. INTRODUCTION.....	1	
	II. Repair parts list	4	
GROUP 2398	.01.1 Laser range finder test set (Sh 1 of 2).....	4	
	.01.2 Laser range finder test set (Sh 2 of 2).....	4	1
	.02 Carrying case assembly 11738864	7	2
	.03 Pulse forming network charge meter assembly 11737824	11	3
	.04 Ballistic cover handle assembly 11741606	14	4
	.05 Battery charge sensor extender card assembly	16	5
	.06 Charge control extender card assembly 11737845	18	6
	.07 Power control extender card assembly 11737851.....	20	7
	.08 Interface extender card assembly 11737822	22	8
	.09 Low voltage power supply extender card assembly 10559515	24	9
	.10 Receiver - transmitter handle tie rod assembly 11 737945.....	26	10
	.11 Test cable assemblies 11737815, 11737816, 11737817, and 11737818	28	11
	.12 Test cable assembly 11737819 (W53).....	31	12
	.13 Test cable assembly 11737820	33	13
	.14 Test cable assembly 11737821 (W50).....	35	14
	.15 Pulse forming network charge meter cable assembly 11745327	37	15
	.16 Carrying case assembly 10559658	39	16
	.17 Extender card assemblies 10559508, 10559516, and 10559518.....	42	17
	.18 Minus 1600 V power supply extender card assembly 10559517	44	18
	.19 Electrical special purpose cable assembly 10559664 (6W8).....	46	19
	.20 Receiver - transmitter tester 10559600.....	48	20
	.21 Tester electrical subassembly 11745302	51	21
	.22 Lamp test driver circuit card assembly 11745312 1A1A2	55	22
	.23 Energy detector circuit card assembly 11745307 1A1A1)	59	23
	.24 Circuit card puller assembly 11737838	62	24
	.25 Carrying case assembly 11738863.....	65	25
	.26 Alignment lens assembly 11741599	67	26
	.27 Branched cable assembly 11741597	70	27
	.28 Holding fixture assembly 11738862.....	72	28
Section	III. SPECIAL TOOLS LIST (NOT APPLICABLE)		
	IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX	76	

Section I. INTRODUCTION

1. Scope.

This manual lists repair parts, special tools, and support equipment required for the performance of organizational, direct support, and general support maintenance of the Laser Range Finder Test Set.

2. General.

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

a. Repair Parts List-Section II. A list of repair parts authorized at the organizational, direct support, and general support 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. Special Tools List-Section III. A list of special tools, test and support equipment authorized for the performance of maintenance at the organizational, direct support and general support levels.

c. National Stock Number and Reference Number Index-Section IV. A list, in ascending numerical sequence, of all National Stock numbers appearing in the listings followed by a list, in alphameric sequence, of all reference numbers appearing in the listings. National stock number and reference 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. 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.

- Item procured and stocked for insurance purpose because essentiality 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 issues or outfittings. Not subject to automatic replenishment.
- PE Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
- 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 lists 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:

Code	Application/Explanation
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:

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 or 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:

Codes	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, condemn and dispose at the direct support level.
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.
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.

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

c. Description. Indicates the National item name and a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal Supply Code for Manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate manufacturer or distributor or Government Agency, etc., and is identified in SB 708-42.

d. Unit of Measure (U/M). Indicates the standard or basic quantity by which the listed item is used in performing the actual maintenance function. This measure is expressed by a two character alphabetical abbreviation, e.g., ea, in, pr, tc., and is the basic used to indicate quantities and allowances in subsequent columns. 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.

e. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breadout shown in the illustration figure, which is prepared for a functional group, subfunction 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.

f. Allowance Columns. The allowance columns are left blank intentionally. The maintenance level code indicates that the item is authorized for use at that category. DS, GS, and Depot parts will be requisitioned on an "as required" basis until authorized stockage levels are established based on demand criteria.

g. *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.* Indicates the callout number used to reference the item on the illustration.

4. Special Information.

The following publications pertain to the Laser Range Finder Test Set and its components.

TM 9-2350-230-10/2-3	Operator's Manual (Turret Operation) for AR/AAV M551A1 (Sheridan) (W /Laser Range Finder)
TM 9-2350-23020	Organizational Maintenance Manual for Armored Reconnaissance/Airborne Assault Vehicle Full-Track, 152-MM, M551
TM 9-1240-369-34	Direct Support and General Support Maintenance Manual for Range Finder, Fire Control: (Laser) AN/VVG-1 (1240-00-470-2156)
TM 9-1240-369-34P	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)

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 parts 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, 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.

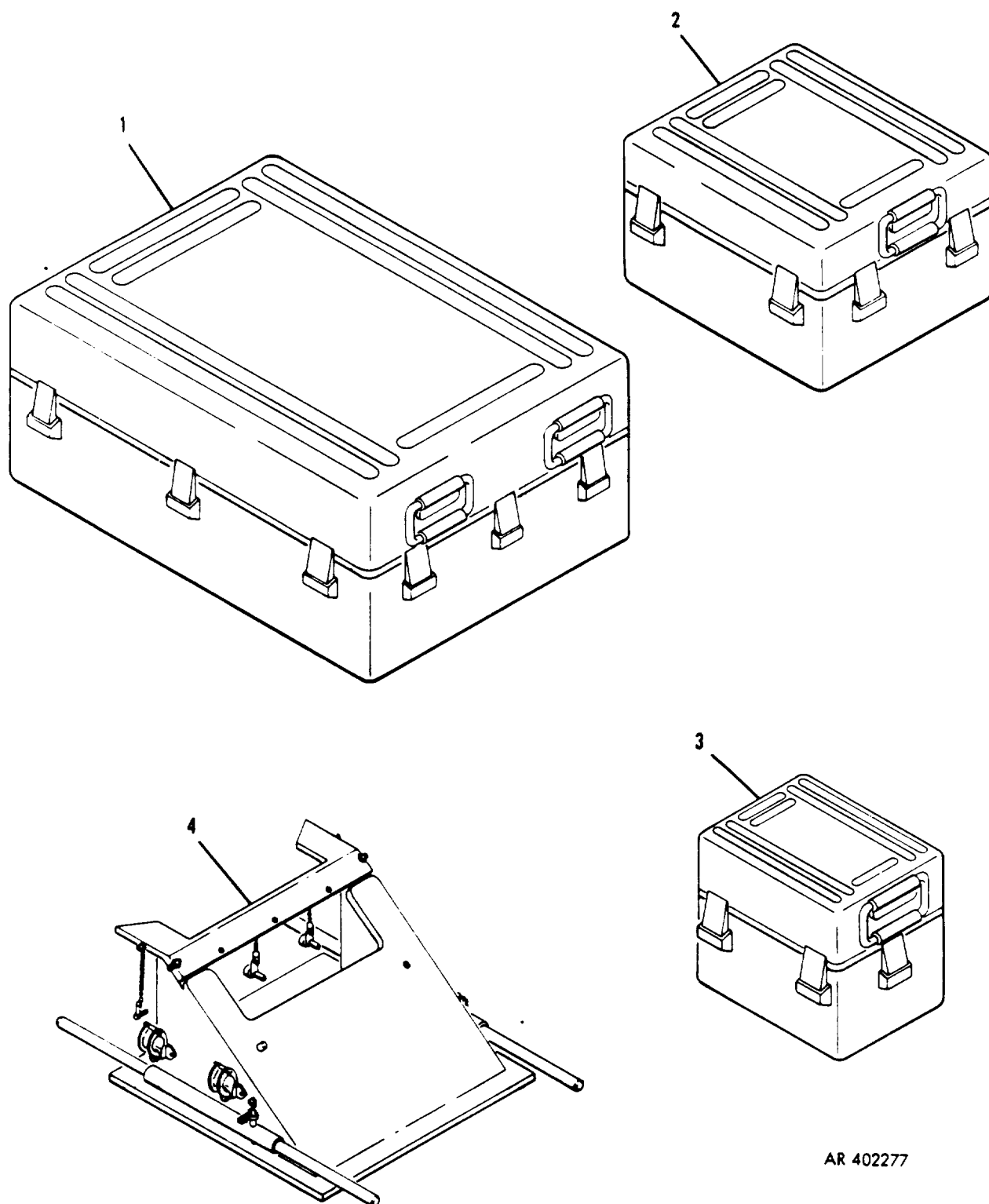
No abbreviations appear on listed pages.

7. Recommendations for Maintenance Publications Improvements.

You can improve this manual by recommending improvements using DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 (Test) located in the back of the manual and mail the form directly to Commander, Frankford Arsenal, ATTN: SARFA-MA, Philadelphia. PA 19137. A reply will be furnished directly to you.

Section II. REPAIR PARTS LIST

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8) QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	
						LASER RANGE FINDER TESTER TS-3375/VVG-1 11738861		
1	1	PDFZZ	4931-00-628-1446	11737864	19200	CARRYING CASE, ASSEMBLY.....	AY	1
1	2	PDFZZ	4931-00-628-1421	10559658	19200	CARRYING CASE, ASSEMBLY.....	AY	1
1	3	PDHZZ	4931-00-628-1332	11738863	19200	CARRYING CASE, ASSEMBLY.....	AY	1
1	4	PAFHD	4931-00628-1325	11738862	19200	HOLDING FIXTURE, ASSEMBLY.....	EA	1
1	5	PAFDL	1240-00-146-6179	11738851	19200	CONTROL, RECEIVER-TRANSMITTER	EA	1
1	6	PAFDL	1265-00-162-3444	11738821	19200	RECEIVER-TRANSMITTER, LASER	EA	1
1	7	PAFDL	1240-00-140-9856	11738831	19200	POWER SUPPLY CONTROL, LASER	EA	1
1	8	PAFDL	1240-00-145-6395	11738841	19200	BATTERY POWER SUPPLY	EA	1
1	9	PAFDL	1265-00-147-8759	11738811	19200	CONTROL, COMMANDER'S LASER RANGING.....	EA	1



AR 402277

Figure 1. Laser Range Finder Tester TS-3375/VVG-1/111738861 (Sheet 1 of 2)