

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS
AND SPECIAL TOOLS LISTS
ANALYZERS ZM-3/U AND ZM-3A/U
FSN 6625-229-1060

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*This manual supersedes TM 11-6625-241-20P, 20 July 1964.

SECTION I INTRODUCTION

1-1. Scope

This manual lists repair parts and special tools required for the performance of organizational maintenance of the ZM-3/U and ZM-3.U. The PCCN for the equipment is GCWAJF for all models.

1-2. General

This repair parts and special tools list is divided into the following sections:

a. Prescribed Load Allowance (PLA) - Section II. Not applicable.

b. Repair Parts List - Section III. A list of repair parts authorized for the performance of maintenance at the organization level. This repair parts lists arranged in alphabetical order.

c. Special Tools, Test and Support Equipment - Section IV. Not applicable.

d. Index - Federal Stock Number and Reference Number Cross-Reference to Figure and Item Number - Section V. A list, in ascending numerical sequence, of all reference number appearing in the listings. Federal stock number and reference numbers are cross-reference to each illustration figure and item number or reference designation appearance.

1-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists —

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

(1) *Source Code.* Indicates the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are—

<i>Code</i>	<i>Explanation</i>
PA —	Item procured and stocked for anticipated or known usage.
PB —	Item procured and stocked for insurance purposes 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 initial issues or outfittings. Not subject to automatic replenishment.

<i>Code</i>	<i>Explanation</i>
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 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 direct support or general support levels or maintenance.
KB —	Item included in both a depot over haul/repair kit and a maintenance kit.
MO —	Item to be manufactured or fabricated at direct support maintenance level.
MF —	Item to be manufactured or fabricated at direct support maintenance level.
MH —	Item to be manufactured or fabricated at general support maintenance level.
MD —	Item to be manufactured or fabricated at depot maintenance level.
AO —	Item to be assembled at organizational level.
AF —	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.
XC	Installation drawing, diagram instruction sheet, field service drawing, that is identified by manufacturers' part number.
XD —	Support items can be requisitioned with justification.

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 anti REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code Format as follows

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

Code	Application/Explanation
O —	Support item is removed, replaced, used at the organizational level of maintenance.

NOTE

4 code "C" may be used in this position to denote crew or operator maintenance performed within organizational maintenance.

F —	Support item is removed, replaced, used at the direct support maintenance level.
H —	Support item is removed, replaced, used at the general support maintenance.
D —	Support items that are removed, replaced, used at depot only.

(b) *Repair (fourth position).* 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). When a maintenance code is not used a dash (-) sign is entered. For multi-service equipment/systems or when a code is entered, this position will contain one of the following maintenance codes as assigned by the service(s) that require the code

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 direct support.
H —	The lowest maintenance level capable of complete repair of the support item is general support.
D —	The lowest maintenance level capable of

Code	Application/Explanation
	complete repair of the support item is the depot level.
L —	Repair restricted to designated Specialized Repair Activity.
Z —	Non-repairable. 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 SMR Code Format as follows

Code	Application/Explanation
Z —	Nonrepairable item. 'When unserviceable, condemn and dispose at the level indicated in the first digit of the maintenance code.
O —	Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
F —	Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
H —	Repairable item. When uneconomically repairable, condemn and dispose at the general support level
D —	Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L —	Repairable 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).

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

c. *Description.* Indicates the Federal 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 70842.

d. *Unit of Measure (UIM)*. 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, etc., and is the basis 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*. This column indicates the quantity of the item used in the equipment. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF".

f. *15-Day Organizational Maintenance Allowance*.

(1) The repair parts indicated by an asterisk in the allowance column represent those authorized for use at the organizational category, and will be requisitioned on an "as required" basis, until stockage is based on demand in accordance with AR 710-2.

(2) Major Army commanders are authorized to approve reduction in the range of support items authorized for use in units within their commands. Recommendations for increase in range of items authorized for use will be forwarded to Commander, US Army Electronics Command, ATTN: AMSELMA-CW, Fort Monmouth, NJ., 07703. Any changes approved will be reflected in a revision to the RPSTL.

(3) Allowance quantities are indicated in the special tools list section for special tools, TMDE, and other equipment.

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

(1) Figure number. Indicates the figure number of the illustration on which the item is shown in TM 11-5043-35.

(2) Item number. Indicates the item number or reference designation used to reference the item in the illustration.

1-4. Special Information

a. Usable on codes are included in column 3. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are —

Code	Used on
BQØ	ZM-3/U
BQ1	ZM-3A/U

f. The following publications pertain to the ZM-3/U and ZM-3AJU and its components:

TM 11-5043-12 Operator's and Organizational

Manual: Analyzers ZM-3/U and ZM-3A/U.

TM 11-5043-35 DS, GS, and Depot Maintenance Manual: Analyzers ZM-3U and ZM-3A/U.

1-5. Location of Repair Parts

a. This manual contains one cross-reference index (sec V) to be used to locate a repair part when either the Federal stock number or reference number (manufacturer's part number) is known. The first column in the index is prepared in numerical or alphanumeric sequence in ascending order. The reference numbers (manufacturer's part numbers) are listed immediately following the last listed Federal stock number in the index of Federal stock numbers.

b. When the Federal stock number or reference number is known, follow the procedures given in (1) and (2) below.

(1) Refer to the index of Federal stock numbers (sec V) and locate the Federal stock number or reference number. The FSN and reference number are cross-referenced to the applicable figure and item number or reference designation.

(2) Refer to the repair parts list (sec III) and locate the figure number (col 7a) and item number or reference designation (col 7b) as noted in the FSN index.

c. When the figure and item number or reference designation are known, scrutinize columns 7a and 7b of the repair parts list (sec III) until the item is located.

d. When the FSN, reference number, figure number, item number and reference designation are not known, scrutinize column 3 of the repair parts list (sec III), which is arranged in alphabetical order.

1-6. Abbreviations

Not applicable.

1-7. Reporting of Equipment Publication Improvements.

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-CW, Fort Monmouth, N.J., 07703.

SECTION III

(1)	(2)	(3)	(4)	(5)	(6)				(7)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR CODE UNABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIGURE NO	(b) ITEM NO
PAOZZ	5999-244-5150	CAP, ELEFCTRICAL XF1 FAR FUSEHOLDER, 19/32 IN. DIA 9435-1-281 (71400)	EA	2	*	*	*	*	9	XF1
PAOZZ	5935-827-3474	CONNECTOR, PLUG, ELECTRICAL P1 UP121M (181349)	EA	1	*	*	*	*		P1
PAOZZ	5960-503-4880	ELECTRON TUBE V5 OA2WA (81349)	EA	1	*	*	*	*	9	V5
PAOZZ	5960-262-3763	ELECTRON TUBE V6 OA2WA (81349)	EA	2	*	*	*	*	9	V6
PAOZZ	5960-557-6780	ELECTRON TUBE V7 OA2WA (81349)	EA	REF	*	*	*	*	9	V7
PAOZZ	5960-188-0883	ELECTRON TUBE V2 OA2WA (81349)	EA	1	*	*	*	*	10	V2
PAOZZ	5960-272-9182	ELECTRON TUBE V8 6SL7WGT (81349)	EA	1	*	*	*	*	9	V8
PAOZZ	5960-107-8160	ELECTRON TUBE V4 6X4W (81349)	EA	1	*	*	*	*	9	V4
PAOZZ	5960-114-4868	ELECTRON TUBE V1 12AU7 (81349)	EA	1	*	*	*	*	10	V1
PAOZZ	5960-264-2089	ELECTRON TUBE V9 807 (81349)	EA	1	*	*	*	*	10	V9
PAOZZ	5920-474-6125	ELECTRON TUBE V3 5749-6BA6W (81349)	EA	1	*	*	*	*	10	V3
PAOZZ	5920-474-6125	FUSE, CARTRIDGE F1 2AMP, 25OV FO2A24OVAS (81349)	EA	2	*	*	*	*	9	F1
PAOZZ	5355-160-5964	FUSE, CARTRIDGE F2 2AMP, 25OV FO2A24OVAS (81349)	EA	REF	*	*	*	*	9	F2
PAOZZ	5355-160-5934	KNOB NO-REF-DESIG RD W/POINTER 1-1/8 IN DIA. X 5/8 IN THK S3088840269 (75376) BQ0	EA	2	*	*	*	*		
PAOZZ	5355-160-6850	KNOB NO-REF-DESIG BAR SHAP, W/POINTER WHITE MARKING 2-1/4 IN LONG X 3/4 IN W X 5/8 IN H 051825 (28569) BQ0	EA	2	*	*	*	*		
PAOZZ	5355-160-7129	KNOB NO-REF-DESIG BAR SHAP, 1-1/4 IN LONG X 3/4 IN W X 5/8 IN H BLACK SO898332 (80063) BQ0	EA	1	*	*	*	*		
PAOZZ	5355-648-7637	KNOB NO-REF-DESIG RD, W/POINTER 1-1/8 IN DIA X 5/8 IN THK 6566 (80375) BQ0	EA	1	*	*	*	*		
PAOZZ	5355-957-2555	KNOB NO-REF-DESIG PUSH ON TYPE BLACK 1/2 IN OD X 1/2 IN THK P1827 (71590) BQ1	EA	1	*	*	*	*		
PAOZZ	5355-330-9627	KNOB NO-REF-DESIG 1-3/8 IN OD X 3/4 THK FOR DAIL CONTROL SMB179518 (80063) BQ1	EA	1	*	*	*	*		
PAOZZ	5355-582-1793	KNOB NO-REF-DESIG FRICTION MTD, ROUND, W/O MARKING 5/8 IN LONG X 7/16 IN DIA SMB179517 (80063) BQ1	EA	2	*	*	*	*	4	
PAOZZ	5355-668-9152	KNOB NO-REF-DESIG BAR SHAPE, GREY, W/O SET SCREWS 1-7/16 IN LONG 7.8 IN W X 15/32 IN THK 2 GROOVES W/LUMINCUS PAINT SMB179517 (80063) BQ1	EA	4	*	*	*	*		
PAOZZ	5355-650-4622	KNOB NO-REF-DESIG BAR SHAPE, GREY, SINGLE LINE MARKING W/POINTER 1-7/16 IN LONG X 7/8 IN W X 15-32 IN THK SMB179517 (80063) BQ1	EA	1	*	*	*	*		
PAOZZ	5355-518-1802	KNOB NO-REF-DESIG BAR w/SINGLE POINTER GRAY 1-3/16 IN LONG X 7/8 IN W X 1/2 IN THK 1430-2-3 (91802) BQ1	EA	2	*	*	*	*		
PAOZZ	6240-143-3060	LAMP, INCANDE SCENT R4 110V 6W S-6 CLEAR 1-13/16 IN LONG O/A MS15567-1 (96906) BQ1	EA	2	*	*	*	*	10	R4
PAOZZ	6240-143-3060	LAMP, INCANDE SCENT R38 110V 6W S-6 CLEAR 1-13/16 IN LONG O/A MS15567-1 (96906) BQ1	EA	REF	*	*	*	*	10	R38
PAOZZ	6240-132-5351	LAMP, INCANDE SCENT R4 115V 6W S-6 CLEAR 1-3/4 IN LONG O/A 6S6DO115V (08108) BQ1	EA	2	*	*	*	*	10	R4
PAOZZ	6240-132-5351	LAMP, INCANDE SCENT R38 115V, 6W S-6 CLEAR 1 3/4 IN LONG O/A MS15571-2 (96906) BQ1	EA	REF	*	*	*	*	10	R38
PAOZZ	6240-155-8708	LAMP, INCANDE SCENT E1 6-8V, 6.3 AMP T-3-1/4 1-3/16 IN LONG O/A MS15571-2 (96906) BQ1	EA	1	*	*	*	*	9	E1
PAOZZ	5960-273-2434	RETAINER, ELECTRON TUBE NO-REF-DESIF T9 AND MT8 RETAINER 2 IN W X 1-15/32 IN DIA SCO34385-1 (80063) BQ1	EA	1	*	*	*	*		

SECTION III

(1)	(2)	(3)	(4)	(5)	(6)				(7)	
SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION REFERENCE NUMBER & MFR CODE UNABLE ON CODE	UNIT OF MEAS	QTY INC IN UNIT	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) FIGURE NO	(b) ITEM NO
PAOZZ	5960-223-5963	RETAINER, ELECTRON TUBE NO- REF-DESIG FOR 21/32 IN DIA TUBE BQO 1 HAT (97983)	EA	1	*	*	*	*		
PAOZZ	5960-223-5970	RETAINER, ELECTRON TUBE NO- REF-DESIG FOR 1-3/4 IN DIA TUBE 4 HAT (97983) BQ1	EA	1	*	*	*	*		
PAOZZ	5960-265-7574	RETAINER, ELECTRON TUBE NO- REF-DESIG FOR 3/4 IN DIA TUBE 1 HAT (97983) BQ1	EA	1	*	*	*	*		
PAOZZ	5960-262-0015	SHEILD, ELECTRON TUBE NO- REF-DESIG BQO TS102001 (81349)	EA	1	*	*	*	*		
PAOZZ	5960-272-9094	SHEILD, ELECTRON TUBE NO- REF-DESIG BQ1 TS102001 (81349)	EA	1	*	*	*	*		
PAOZZ	5960-272-9094	SHIELD, ELECTRON TUBE NO- REF-DESIG TS102UC2 (81349)	EA	2	*	*	*	*		
PAOZZ	5960-295-7652	SHIELD, ELECTRON TUBE NO- REF-DESIG TS102003 (81349)	EA	3	*	*	*	*		
PAOZZ	5960-264-3004	SHIELD, ELECTRON TUBE NO- REF-DESIG TS1C3002 (81349)	EA	1	*	*	*	*		
PAOZZ	5960-619-6157	THUMBSCREW NO-REF-DESIG BRASS, 1/2 IN DIA HD. X 3/8 IN H OF KNURL X MIN DIA OF UNDERCUT SMB51836 (80063) BQ1	EA	10	*	*	*	*		

SECTION V

INDEX - FEDERAL STOCK NUMBER AND REFERENCE NUMBER CROSS-REFERENCE TO FIGURE AND ITEM NUMBER

SIOCK NUMBER	FIGURE NO	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-619-6157			5960-223-5970		
5355-160-5964			5960-262-0015		
5335-160-6850			5960-262-3763	9	V6
5355-160-7129			5960-262-3763	9	V7
5355-330-9627			5960-264-2089	10	V3
5355-518-1802			5960-264-3004		
5355-582-1793		4	5960-265-7574		
5355-648-7637			5960-272-9094		
5355-650-4622			5960-272-9182	9	V4
5355-667-5934			5960-273-2434		
5355-668-9152			5960-295-7652		
5355-957-2555			5960--503-4880	9	V5
5920-474-5125	9	F1	5960-557-6780		V2
5920-474-6125	9	F2	5999-244-5150	9	XF1
5935-d2 -3474		p1	6240-132-5351	10	R38
5960-107-8160	10	V1	6240-132-5351	10	R4
5960-114-4868	10	V9	6240-143-3060	10	R38
5960-188-0883	9	V8	6240-143-3060	10	R4
5960-223-5963			6240-155-8706	9	E1

REFERENCE NO.	MFR CODE	FIG NO	ITEM NO.	REFERENCE CODE	MFR NO.	FIG NO.	ITEM
A1-4283	77569			OP121M	81349		P1
F02A240VAS	81349	9	FI	0A2WA	81349	9	V5
F02A240VAS	81349	9	F2	082WA	81349	9	V6
MS15567-1	96906	10	R4	082WA	81349	9	V7
MS15567-1	96906	10	R38	0S1825	28569		
MS15571-2	96906	7	E1	1HAT	97983		
PL827	71590			12A07	81349	10	V1
SCB98352	80063			1430-2-3	91802		
SCB34385-1	80063			4HAT	97983		
SMB179514	80063			5749-68A6W	81349	10	V3
SMB179515	80063			604WA	81349	10	V2
SMB179517	80063			6SL7WGT	81349	9	V8
SMB179518	80063			6S6DC115V	08108	10	R4
SMB51830	80063			6S6DC115V	08108	10	R38
S3088840269	80063			6X4W	81349	9	V4
TS103002	75376			6566	80375		
TS103002	81349			807	81349	10	V9
TS102001	81349			9435-1-2B1	71400	9	XF1
TS102003	81349						

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TSG (1)	Sig Dep (2)
USAARENBD (1)	USAERDAA (1)
USAMB (10)	USAERDAW (1)
AMC (1)	Sig FLDMS (1)
MICOM (2)	Units org under fol TOE: 1 ea.
TECOM (2)	7
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USAFAS (2)	29-36
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USAIS (2)	29-55
USAES (2)	29-56
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WRAMC (1)	29-136
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Arsenals (2)	37
AD (1) except	57
SAAD (30)	57-100

ARNG: State AG (3)

USAR: None

For explanation of abbreviations used, see AR 310-50.

* U.S. Government Printing Office: 1983 - 664-028/6121

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