
 DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL
 SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL
 TOOLS LISTS (INCLUDING DEPOT MAINTENANCE
 REPAIR PARTS AND SPECIAL TOOLS)
 HYDROGEN GENERATOR ML-303/TM AND
 HYDROGEN GENERATOR SET AN/TMQ-3
 FSN 3655-408-4683**

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* This manual supersedes so much of TM 11-2413, 17 August 1956, as pertains to repair parts and special tools lists.

SECTION I

INTRODUCTION

1-1. Scope

This manual lists repair parts and special tools required for the performance of organizational, direct support, general support, and depot maintenance of the ML-303/TM and AN/TMQ-3. The PCCN for the equipments is GESAAAN 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 organizational level. This repair parts list is arranged in alphabetical order.

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

d. Repair Parts List—Section V. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.

e. Special Tools, Test and Support Equipment — Section VI. Not applicable.

f. Index—Federal Stock Number and Reference Number Cross-Reference to Figure and Item Number—Section VII. A list, in ascending numerical sequence, of all Federal stock numbers appearing in the listings, followed by a list, in alphameric sequence, of all reference numbers appearing in the listings. Federal stock number and reference numbers are cross-referenced to each illustration figure and item number or reference designation appearance.

1-3. Explanation of Columns

The following provides an explanation of columns found in the tabular list.

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

(1) *Source code.* Indicates the source for the listed items. Source codes are—

Code

Explanation

P— Repair parts, special tools and test equipment supplied from the GSA/DSA or Army supply system and authorized for use at indicated maintenance categories.

P2— Repair parts, special tools and test equipment which are procured and stocked for insurance purposes because the combat or military essentiality of the end item

Code

Explanation

dictates that a minimum quantity be available in the supply system.

P9— Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring, and diagnostic equipment which are stocked and supplied by the Army COMSEC Logistic System and which are not subject to the provisions of AR 380-41.

P10— Assigned to items which are NSA design controlled: special tools, test, measuring, and diagnostic equipment for COMSEC support which are accountable under the provisions of AR 380-41 and which are stocked and supplied by the Army COMSEC Logistic System.

M— Repair parts, special tools and test equipment which are not procured or stocked as such in the supply system but are to be manufactured at indicated maintenance levels.

A — Assemblies which are not procured or stocked as such but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately, and can be assembled to form the required assembly at indicated maintenance categories.

X — Parts and assemblies that are not procured or stocked because the failure rate is normally below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system.

X1— Repair parts which are not procured or stocked. The requirement for such items will be filled by the next higher assembly or component.

X2— Repair parts, special tools and test equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage. The item may be requisitioned, with exception data, from the end item manager for immediate use.

G — Major assemblies that are procured with PEMA funds for initial issue only as ex-

<i>Code</i>	<i>Explanation</i>
	change assemblies at DS and GS level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded X1 and aircraft support items as restricted by AR 700-42.

(2) *Maintenance code.* Indicates the lowest category of maintenance authorized to install the listed item. Capabilities of higher maintenance categories are considered equal or better. Maintenance codes are—

<i>Code</i>	<i>Explanation</i>
C	Crew/operator
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance

(3) *Recoverability code.* Indicates whether un-serviceable items should be returned for recovery or salvage. Items not coded are nonrecoverable. Recoverability codes are—

<i>Code</i>	<i>Explanation</i>
R—	Repair parts (assemblies and components), special tools and test equipment which are considered economically repairable at direct and general support maintenance levels. When the item is no longer economically repairable, it is normally disposed of at the GS level. When supply considerations dictate, some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-1. When so listed, they will be replaced by supply on an exchange basis.
S—	Repair parts, special tools and test equipment, and assemblies which are economically repairable at DS and GS activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
T—	High dollar value recoverable repair parts, special tools and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repaired or overhauled at depot

<i>Code</i>	<i>Explanation</i>
	maintenance activities only. No repair may be accomplished at lower levels.
U—	Repair parts, special tools and test equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value, or reusable casings or castings.

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 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, 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.

f. 15-Day Organizational Maintenance Allowances.

(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: AMSEL-MA-SNV, Fort Monmouth, N.J., 07703.

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

g. 30-Day DS/GS Maintenance Allowances.

NOTE

Allowances in GS column are for GS maintenance only.

(1) The repair parts indicated by asterisk entries in separate allowance columns for DS and GS

SECTION III

(1)	(2)	(3)	(4)	(5)	(6)				(7)	
SMR	FEDERAL	DESCRIPTION	UNIT	QTY	15-DAY ORGANIZATIONAL				ILLUSTRATION	
CODE	STOCK		OF	INC	MAINTENANCE ALW				(a)	(b)
	NUMBER	REFERENCE NUMBER & MFR CODE	MEAS	IN	(a)	(b)	(c)	(d)	FIGURE	ITEM
		USABLE ON CODE		UNIT	1-5	6-20	21-50	51-100	NO	NO
PAOZZ	4730-408-4671	ADAPTER, STRAIGHT, PIPE TO TUBE NO-REF-DESIG OUTLET TUBE STEEL CAP 3-7/8 IN LG O/A SCD7431ITEM2 (80063)	EA	4	*	*	*	*	2	
PAOHD	6660-500-4671	CASE CY-219/TMQ-3 NO-REF-DESIG 12 IN H X 18 IN WD 27 IN DEEP APPROX 20 LBS CY219TMQ3 (80058)	EA	1	*	*	*	*	4	
PAOZZ	5330-189-8897	GASKET NO-REF-DESIG 1-3/4 IN OD X 1-1/32 IN ID X 1/16 IN THK SCD7431-3 (80063)	EA	4	*	*	*	*	4	
PAOZZ	4720-263-3306	HOSE NO-REF-DESIG RUBBER 1/2 IN ID X 3/4 IN OD, 12 FT LONG HEAVY WALL ZZT83LBAMEND2GRX (ZZZZZ)	FT	12	*	*	*	*	4	
PAOHD	3655-408-4669	HYDROGEN GENERATOR ML-303/TM NO-REF-DESIG FOR CALCIUM HYDRIDE CHARGE 5-1/8 IN DIA X 15 IN H MILH11127 (81349)	EA	4	*	*	*	*	4	
PAOHD	3655-408-4699	MANIFOLD ML-344/TMQ-3 NO-REF-DESIG 10-9/16 IN SQUARE PLATE 1/16 IN THK ML344TMQ3 (80038)	EA	1	*	*	*	*	4	
PAOHO	5110-322-6112	PUNCH, SADDLERS NO-REF-DESIG SCA7433 (80063)	EA	1	*	*	*	*	4	

SECTION V

(1)	(2)	(3)	(4)	(5)	(6)			(7)			(8)	(9)	(10)	
SMR	FEDERAL STOCK	DESCRIPTION	UNIT	QTY INC	30-DAY DS MAINT ALLOWANCE			30-DAY GS MAINT ALLOWANCE			1-YR ALW PER 100	DEPOT MAINT ALW PER 100	ILLUSTRATION	
CODE	NUMBER	REFERENCE NUMBER & MFR CODE	OF MEAS	IN UNIT	(a)	(b)	(c)	(A)	(B)	(C)	EQUIP CNTG	EQUIP 100	(A) FIGURE NO.	(B) ITEM NO.
PAOZZ	4730-408-4671	ADAPTER, STRAIGHT, PIPE TO TUBE NO-REF- DESIG OUTLET TUBE STEEL CAP 3-7/8 IN LG O/A SCD7431ITEM2 (80063)	EA	4	*	*	*	*	*	*		4	2	
PAOHD	6660-500-4671	CASE CY-219/TMQ-3 NO-REF-DESIG 12 IN H. X 18 IN WD 27 IN DEEP APPROX 20 LBS CY219TMQ3 (80058)	EA	1	*	*	*	*	*	*		3	4	
PAOZZ	5330-189-8897	GASKET NO-REF-DESIG 1-3/4 IN OD X 1- 1/32 IN ID X 1/16 IN THK SCD7431-3 (80063)	EA	4	*	*	*	*	*	*		5	4	
PAOZZ	4720-263-3306	HOSE NO-REF-DESIG RUBBER 1/2 IN ID X 3/4 IN OD, 12 FT LONG HEAVY WALL ZZT83LBAMEND2GRX (ZZZZZ)	FT	12	*	*	*	*	*	*		3	4	
PAOHD	3655-408-4669	HYDROGEN GENERATOR ML-303/TM NO-REF- DESIG FOR CALCIUM HYDRIDE CHARGE 5-1/8 IN DIA X 15 IN H MILH11127 (81349)	EA	4	*	*	*	*	*	*		3	4	
PAOHD	3655-408-4699	MANIFOLD ML-344/TMQ-3 NO-REF-DESIG 10- 9/16 IN SQUARE PLATE 1/16 IN THK ML344TMQ3 (80038)	EA	1	*	*	*	*	*	*		3	4	
PAOHD	5110-322-6112	PUNCH, SADDLERS NO-REF-DESIG SCA7433 (80063)	EA	1	*	*	*	*	*	*		3	4	

SECTION VII

INDEX - FEDERAL STOCK NUMBER AND REFERENCE NUMBER

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
3655-408-4669	4		5110-322-6112	4	
3655-408-4699	4		5330-189-8897	4	
4720-263-3306	4		6660-500-4671	4	
4730-408-4671	2				

REFERENCE NO.	MFR CODE	FIG. NO.	ITEM NO.	REFERENCE NO.	MFR CODE	FIG. NO.	ITEM NO.
CY219TMQ3	80058	4		SCD7431-3	80063	4	
MILH11127	81349	4		SCD7431ITEM2	80063	2	
ML344TMQ3	80038	4		ZZT83LBAMEND2GRX	ZZZZZ	4	
SCA7433	80063	4					

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Corps (2)
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USAADS (2)
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USAES (2)
USAINTS (3)
USACDCEC (5)

Instl (2) except
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Fort Huachuca (10)
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Army Dep (2) except
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SAAD (30)
TOAD (14)
LEAD (7)
ATAD (10)
USA Dep (2)
Sig Sec USA Dep (2)
Sig Dep (5)
Sig FLDMS (1)
USAERDAA (1)
USAERDAW (1)
USAERDAW (1)
MAAG (1)
USARMIS (1)
Ft Richardson (ECOM Ofc) (2)
WRAMC (1)
Units org under fol TOE:
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29-134
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NG: None

USAR: None

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

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