

TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT,
AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS

BALLOON INFLATION AND LAUNCHING DEVICE ML-594/U

(FSN 6660-999-2663)

TECHNICAL MANUAL }
No. 11-6660-238-25P }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 18 January 1972

Organizational, Direct Support, General Support, and Depot
Maintenance Repair Parts and Special Tools Lists

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Current as of 24 May 1971

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*This manual supersedes TM 11-6660-238-25P, 29 September 1966.

SECTION I

INTRODUCTION

1-1. Scope

This manual lists repair parts required for the performance or organizational, direct support, general support, and depot maintenance of the ML-594/U.

1-2. General

This Repair Parts List is divided into the following sections:

a. Prescribed Load Allowance (PLA)- Section II. A composite listing of repair parts having quantitative allowances for initial stockage at the organizational level.

b. Repair Parts for Organizational Maintenance-Section III. A list of repair parts authorized for the performance of maintenance at the organizational level.

c. Repair Parts for Direct Support, General Support, and Depot Maintenance-Section IV. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.

d. Index-Federal Stock Number Cross-Reference to Figure and Item Number or Reference Designation-Section V. A list of Federal stock numbers in ascending numerical sequence, cross-referenced to the illustration figure number and reference designation. Where applicable the reference designation is followed by the item number in parentheses.

e. Index-Reference Number Cross-Reference to Figure Number and Reference Designation or Item Number-Section VI. A list of reference numbers appearing in ascending alpha-numeric sequence, cross-referenced to figure number and reference designation. Where applicable the reference designation is followed by the item number in parentheses.

f. Index-Reference Designation Cross-Reference to Page Number-Section VII. A list of reference designations cross-referenced to page numbers.

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 selection status and source for the listed item. Source codes are -

Code

Explanation

P-Repair parts which are stocked in or supplied from the GSA/GSA, or Army supply system and authorized for use at indicated maintenance categories.

P2-Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item 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 which are not procured or stocked, but are to be manufactured in 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 which are not procured or stocked and the mortality of which normally is 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 use of the next higher assembly or component.

X2-Repair parts which are not stocked. The indicated maintenance category requir-

ing such repair parts will attempt to obtain same through cannibalization. Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.

G-Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above direct support and general support level or returned to depot supply level.

(2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are-

Code

Explanation

- C. . . . Operator/crew
- O. . . . Organizational maintenance
- F. . . . Direct support maintenance
- H. . . . General support maintenance
- D. . . . Depot maintenance

(3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are-

Code

Explanation

- R-Repair parts and assemblies that are economically repairable at DSU and GSU activities and are normally furnished by supply on an exchange basis.
- S-Repair parts and assemblies which are economically repairable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by 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 which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.
- U-Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, or high dollar value reusable castings or castings.

b. *Federal Stock Number*. Indicates the Fed-

eral stock number assigned to the item and will be used for requisitioning purposes.

c. *Description*. Indicates the Federal item name and any additional description of the item required. The index number has been included as part of the description to aid in the location of "same as" items. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses.

d. *Unit of Measure (U/M)*. A two-character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based; e.g., ft, ea, pr, etc.

e. *Quantity Incorporated in Unit*. Indicates the quantity of the item used in the ML-594/U. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF".

f. *15-Day Organizational Maintenance Allowances*.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the allowance columns. Items authorized for use as required, but not for initial stockage, are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 column. Example, authorized allowance for 51-100 equipments is 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of

items is authorized. If additional items are considered necessary, recommendation should be forwarded to Commanding General, US Army Electronics Command, ATTN: AMSEL-ME-NMP-EM, Fort Monmouth, N.J. 07703, for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the USAECOM National Maintenance Point based upon engineering experience, demand data, or TAERS information.

g. 30-Day DS/GS Maintenance Allowances.

NOTE

Allowances in GS Column are for GS maintenance only.

(1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the applicable allowance columns. Items authorized for use as required, but not for initial stockage, are identified with an asterisk in the allowance column.

(2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

(3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 51-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

h. 1-Year Allowances Per 100 Equipments/Contingency Planning Purposes. Indicates, opposite the first appearance of each item, the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for 1 year.

I. Depot Maintenance Allowance Per 100 Equipments. Indicates, opposite the first appearances of each item, the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have the letters "REF" in the allowance column. Items authorized for use as required, but not for initial

stockage, are identified with as asterisk in the allowance column.

j. Illustrations.

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

(2) *Item number or reference designation.* Indicates the reference designation used to identify the item in the illustration. Where applicable, the reference designation is followed by the item number in parentheses.

1-4. Special Information

a. Repair parts mortality is computed from failure rates derived from experience factors with the individual parts in a variety of equipments. Variations in the specific application and periods of use of electronics equipment, the fragility of electronic piece parts, plus intangible material and quality factors intrinsic to the manufacture of electronic parts, do not permit mortality to be based on hours of end item use. However, long periods of continuous use under adverse conditions are likely to increase repair parts mortality.

b. Parts which require manufacture or assembly at a category higher than that authorized for installation will indicate in the source column the higher category (i.e., MD).

c. The following publication pertains to ML-594/U and its components:

TM 11-6660-238-15 Organizational, DS, GS,
and Depot Maintenance Manual: Balloon
Inflation and Launching
Device ML-594/U.

1-5. Location of Repair Parts

a. This manual contains three cross-reference indexes (sec. V, VI, and VII) to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), or reference designation is known. The first column in each index is prepared in numerical or alpha-numeric sequence in ascending order. Where a Federal stock number is listed, refer to section V. Where a Federal stock number is not listed, refer to section VI.

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

(1) Refer to section V (index of Federal stock numbers) or section VI (index of refer-

ence numbers) and note the applicable figure and reference designation.

(2) When the reference designation is determined, refer to the reference designation index (sec. VI). The reference designations are listed in alpha-numeric ascending order and are cross-referenced to the page number on which they appear in the repair parts list (sec. III and IV). Refer to the page number noted in the index and locate the reference designation in the repair parts list (col. 7b, Repair Parts for Organizational Maintenance or col. 10b, Repair Parts for Direct Support, General Support, and Depot Maintenance). If the Description column indicates that it is a "SAME AS" item, locate the first appearance of the item by the index number referenced.

c. When the reference designation is known, follow the procedures given in b(2) above.

d. When neither the FSN, reference number, nor reference designation is known, identify the part in the illustration and follow direction given in c above, or scrutinize column 3 of the repair parts lists (sec. III and IV).

1-6. Federal Supply Codes for Manufacturers

<i>Code</i>	<i>Manufacturer's name</i>
02210	 Modine Mfg Co AFSCO Division
03743	 Appleton Electric Co
14557	 Stanley Hardware Division of Stanley Works
26752	 Ubique Ltd
71286	 Rex Chainbelt Inc Comloc Div
72962	 Elastic Stop Nut Division of Amerace Esna Corp
80063	 Army Electronics Command
81349	 Military Specifications
83014	 Hartwell Corp
88044	 Aeronautical Standards Group, Dept of Navy and Air Force
96603	 Eastern Rotorcraft Corp
96906	 Military Standards

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 Commanding General, US Army Electronics Command, ATTN: AMSEL-MA-C Fort Monmouth, N.J. 07703.