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MIL-M-49502(TM)  
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SUPERSEDING  
(See 6.4)

# MILITARY SPECIFICATION

## MANUALS, TECHNICAL:

## REPAIR PARTS AND SPECIAL TOOLS LIST

This specification is approved for use by the Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

### 1. SCOPE

1.1 Scope. This specification contains the detail requirements for preparing repair parts and special tools lists (RPSTL).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be used in improving this document should be addressed to: USAMC Materiel Readiness Support Activity, ATTN: AMXMD-MP, Lexington, KY 40511-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC A5034

AREA TMSS

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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**1.2 Application.** A RPSTL may be published as a separate manual, as an appendix to a maintenance manual, or as an appendix to a depot maintenance work requirement (DMWR). Applicable RPSTL maintenance levels are as follows:

<b>TM DESIGNATOR SUFFIX</b>		<b>MAINTENANCE LEVELS</b>
<b>RPSTL TM</b>	<b>NARRATIVE TM WITH APPX RPSTL</b>	
20P	20&P	Unit or aviation unit
30P	30&P	Direct support or aviation intermediate
40P	40&P	General support
12P	12&P	Operator and unit or operator and aviation unit
13P	13&P	Operator, unit, and direct support or operator, unit, and aviation intermed.
14P	14&P	Operator, unit, direct support, and general support
23P	23&P	Unit and direct support or aviation unit and aviation intermediate
24P	24&P	Unit, direct support, and general support
34P	34&P	Direct support and general support
	DMWR	Depot maintenance work requirement including repair parts and special tools list

**1.3 Limitations.** This specification does not apply (in full) to RPSTLs covering DOD standard generator sets. (Refer to MIL-M-63010.)

**1.4 Examples/figures.** The figures used in this specification are examples only. The text of this specification takes precedence over examples.

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1.5 Tailoring requirements. All requirements in this specification are mandatory except those identified otherwise on the Content\Format Selection Summary, Appendix B (to be completed by the contracting activity).

1.6 Terminology. Use of the term "equipment" may mean equipment, end item, system, or major component. The term "figure" may apply to the illustrated parts breakdown figure, the repair parts list applicable to the illustration, or both. The term "repair part" may mean spare part or repair part.

## 2. APPLICABLE DOCUMENTS

### 2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

#### SPECIFICATIONS

##### Military

MIL-M-38784

Manuals, Technical: General Style  
and Format Requirements

#### STANDARDS

##### Military

MIL-STD-12

Abbreviations for use on Drawings, and  
in Specifications, Standards, and  
Technical Documents

MIL-STD-129

Marking for Shipment and Storage

(Unless otherwise indicated, the above Specifications and Standards are available from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19911-5094.)

2.1.2 Other government documents. The following other government documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

DOD Directive 5230.24

Distribution Statement on Technical  
Documents

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Federal Supply  
Handbook Cataloging  
H4/H8

Commercial and Government Entity  
Codes (CAGEC)

DOD Cataloging Handbook  
H6

Federal Item Name Directory for the  
Federal Cataloging Catalog System

(The above DOD Directive is available from Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120-5099.) (Application for copies of cataloging handbooks should be addressed to Commander, Defense Logistics Service Center, ATTN: DLSC-WXA, Federal Center, Battle Creek, MI 49017-3084.)

**2.2 Other publications.** The following document(s) form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted shall be those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS shall be the issues of the non-government document(s) which are current on the date of the solicitation.

ASTM D3951  
(DOD adopted)

Standard Practice for Commercial  
Packaging

(DOD activities can obtain copies from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19120-5099. Other government activities, contractors, and private concerns must obtain copies from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

**2.3 Order of precedence.** In the event of conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### **3. REQUIREMENTS**

**3.1 General.** A repair parts and special tools list (RPSTL) shall be prepared in accordance with the format and content requirements specified herein. The RPSTL shall cover maintenance level(s) selected from 1.2 and as specified on the completed Content Format Selection Summary, Appendix B. When a RPSTL with combined levels of maintenance is required, the RPSTL shall contain maintenance data for all levels covered, even though lower level maintenance is covered in a separate RPSTL. For example, when a "-20" and a "-34" RPSTL are published, then the "-34" RPSTL shall include unit, direct support, and general support data. RPSTLs shall consist of illustrated parts and a listing of these parts.

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3.2 **Format**. General style and format for RPSTL introductory and front matter material shall be as prescribed in MIL-M-38784. As indicated on a Content/Format Selection Summary, Appendix B (completed by the contracting activity), the RPSTL shall be published in one of the following:

- a. Separate RPSTL technical manual.
- b. Appendix to combined (narrative) technical manual.
- c. Appendix to depot maintenance work requirement.

3.2.1 **Depot repair parts**. If a figure(s) contains repair parts for both depot level maintenance and a maintenance level(s) below depot, the depot coded repair parts shall be presented in either a DMWR appendix RPSTL or in a RPSTL TM prepared for the next maintenance level below depot level, as specified by the contracting activity. If a RPSTL TM includes depot repair parts, the statement "(Including Depot Maintenance Repair Parts)" shall be added to the title of the RPSTL TM.

3.2.2 **DMWR RPSTL**. If an item of equipment is programmed for depot overhaul and no repair parts (including modules, printed circuits, and components) are authorized for replacement at a level below depot maintenance, authorized repair parts shall appear in the applicable DMWR.

3.3 **Content**. RPSTL shall consist of:

- a. Front matter.
- b. Introduction.
- c. Illustrations of repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required to operate and maintain the equipment.
- d. Tabular lists of illustrated items listed in c above.
- e. Cross-reference indexes.

3.3.1 **RPSTL TM**. A RPSTL TM shall include the following:

3.3.1.1 **Front matter**. Front matter for RPSTL TMs shall consist of a cover, a title block page, and a table of contents.

- a. **Cover**. The cover shall be prepared in accordance with MIL-M-38784.

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b. Title block page. The title block page shall be a right hand page and shall consist of data shown on figure 1. Applicable TM designation, maintenance level, name of equipment, and the "current as of" date shall be inserted. When depot level repair parts are included in a lower level RPSTL, the following statement shall be added to the RPSTL title: "(Including Depot Maintenance Repair Parts)." Address of the proponent shall be inserted in the Reporting Errors and Recommending Improvements block. Export warnings, distribution statements, and destruction notices shall be included in accordance with MIL-M-38784 as provided by the contracting activity.

c. Table of contents. The table of contents shall reflect the content of the applicable RPSTL and shall comply with the following requirements:

(1) Section numbers with titles and functional group codes (FGC) with titles shall be listed by the same nomenclature and in the same sequence in which they appear in the tabular listings. See figure 1.

(2) The parts list titles shall appear below their section titles and shall be listed in the order in which they appear in the RPSTL. Each title listed shall reference the number of the first page on which the illustration or figure parts list appears. The title and the number of the first page of each of the cross-reference indexes shall be listed.

(3) Only the figures (which shall be titled the same as the functional group titles) applicable to the maintenance level(s) for which the RPSTL is prepared shall be listed. They shall be listed in the order in which they appear in the RPSTL.

(4) In a multivolume RPSTL, each volume in the series shall have its own table of contents and shall reference the companion volume(s).

3.3.1.2 Section I - introduction. Section I shall contain the paragraphs listed on the applicable introduction content list, table I, as specified by the contracting activity. Applicable content shall be formatted as presented on figure 2. Source, maintenance, and recoverability (SMR) codes, paragraph 3b, table 1, shall be an applicable requirement.

3.3.1.2.1 Nonapplicable data. When paragraphs listed in the applicable introduction content list do not apply, the paragraph headings shall be listed and followed with the phrase, "Not applicable."

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3.3.1.2.2 Special information. Applicable special information (listed in table I and as shown on figure 2) shall be adapted and included. In addition to information contained on figure 2, all information pertaining to peculiarities of the RPSTL such as options selected, nonconsecutive listing of figures or item numbers, special handling and disposition of precious or hazardous materials, explanation of UOCs, equipment combinations, fabrication instructions, associated publications, unassigned NSNs that are PA coded, or any other pertinent data shall be included in this paragraph.

3.3.1.2.3 Abbreviations. Abbreviations shall be in accordance with MIL-STD-12. Abbreviations not listed in MIL-STD-12 shall be listed alphabetically and explained.

3.3.1.3 Section II - repair parts list. This section shall consist of illustrations and their associated repair parts lists. They shall be listed in alphanumeric sequence by functional group codes (the same codes used in the MAC). See figures 3 and 4. Repair parts for special tools listed in section III shall be illustrated and listed in this section under a functional group titled special tools (repair parts).

3.3.1.3.1 Figure titles and numbering. Figure titles shall be consistent with the titles presented in the MAC. Figures shall be numbered in ascending alphanumeric sequence. When specified by the contracting activity, the assembly part number and the source, maintenance, and recoverability (SMR) codes shall be added to the figure titles.

3.3.1.3.2 Item number column. Items shall be listed on the repair parts list (in the ITEM NO. column) by the same callout number shown on the associated figure. The items shall be listed in ascending alphanumeric sequence.

3.3.1.3.3 Nonconsecutive item numbers. When illustrations contain item callouts that are for a maintenance level higher than the level of the RPSTL, the items not authorized for maintenance at the RPSTL level shall not be listed in the repair parts list; therefore, items may not be listed consecutively. They shall be listed in ascending alphanumeric sequence.

3.3.1.3.4 SMR code column. The SMR code column shall include the source, maintenance, and recoverability codes assigned to the applicable items.

3.3.1.3.5 NSN column. The national stock number column shall include the NSN assigned to the applicable item.

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3.3.1.3.6 CAGEC and part number columns. The applicable five digit commercial and government entity codes (CAGEC), listed in Catalog Handbook H4/H8, shall be listed in the CAGEC column. The part number shall be listed in the PART NUMBER column.

3.3.1.3.7 Description and usable on code (UOC) column. The DESCRIPTION AND USABLE ON CODE column shall include the following information:

a. Header. The header shall consist of the functional group number and title appearing on the top line(s). The next line(s) below shall include the figure number and the figure title (may be the same as the functional group title).

b. Item name. The item name shall consist of the federal item name (taken from Federal Supply Cataloging Handbook H6) and, if necessary, a minimum description to further identify the item. The last line of the description shall be completed with trailing dots, except for the UOC line.

c. Indentations. When specified by the contracting activity, applicable item names listed in the DESCRIPTION AND USABLE ON CODE (UOC) column shall be indented to identify them with the next higher assembly. See figure 5. Indentations shall not exceed five positions.

d. Usable on code (UOC). When an item has multiconfiguration or multimodel use, the three-position alphanumeric UOC representing the applicable configuration in which the item is used shall be placed on the last line under the item description. The letters "UOC:" shall be left justified and followed by the applicable UOC. When an item is used on all configurations or when only one configuration is covered by the RPSTL, usable on codes shall not be shown.

e. Serial number application. When part numbers of repair items are not the same for all serial numbered equipment of the same model, a statement identifying the usable effective (USBL EFF) serial numbers shall be made in the DESCRIPTION AND USABLE ON CODE (UOC) column. Example: "USBL EFF SER NOS 1719-1941." See figure 4.

f. Assembled items. Repair parts which are part of a non-stocked assembled item (source coded AO, AF, AH, or AD) shall be assigned item numbers on illustrations and shall be listed in item number sequence on the repair parts list. These items shall be indented and listed immediately below the item to be assembled. When a particular illustration does not show the parts breakdown of the nonstocked assembly, reference shall be made to the figure where the parts breakdown is shown. See figure 4. Instructions, drawings, charts, and tables showing how to assemble assemblies source coded "A( )" shall not appear in RPSTLs.

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g. Manufactured items. All items source coded MO, MF, MH, ML, or MD shall have the statement in the DESCRIPTION AND USABLE ON CODE (UOC) column as follows: "MAKE FROM (enter applicable bulk material or other replaceable item name, CAGEC, and part number)". Material used to make items shall also be shown in a separate functional group called "BULK MATERIAL" and figure titled "FIG. BULK". Items in FIG. BULK shall be listed alphabetically by item name in the DESCRIPTION AND USABLE ON CODE (UOC) column. See figures 4 and 6. Numbers in the ITEM column of the Bulk Material list apply to the FIG. BULK only and shall not be associated with item number callouts appearing on the illustrations. Instructions, drawings, charts, and tables required to show how items are made shall not be included in the RPSTL.

h. Kits and kit repair parts. Kits and kit repair parts (source coded KD, KF, or KB) shall conform to the format of either option 1 (figure 7) or option 2 (figure 8), as indicated on the completed Content/Format Selection Summary, Appendix B.

(1) Option 1, kits. Option 1 kits shall appear at the end of the associated parts list. At the option of the contracting activity, the ITEM NO column for kits shall be either blank or have an alphabetical character(s). The quantity column for kits shall contain a V (variable) when the exact quantity may vary. See figure 7.

(2) Option 1, parts. Option 1 kit repair parts shall be listed with their applicable figure and appear in item number sequence. The statement "part of Kit PN (enter kit PN)" shall follow item name. Kit repair parts shall also be listed under the kit listing at the end of the parts list (figure 7). Parts of the kit listing shall be indented and listed alphabetically by the basic item name immediately below the kit item name. The quantity (in parentheses), figure, and item number shall follow the item name of the repair part.

(3) Option 2, kits. Option 2 kits shall be listed in a separate functional group titled repair kits. This functional group shall be located in the repair parts list section in consecutive sequential alphanumeric order. This kit group shall be located before the bulk material functional group. The kits in this group shall be listed alphabetically in part number sequence. Parts in the kit group shall not be assigned item numbers. They shall be indented two positions and listed alphabetically under their kit name. Item names of the parts shall be followed by the quantity (in parentheses) and the figure and item numbers that appear in the basic parts list. The QTY column for kits shall contain a V (variable) when the exact quantity may vary.

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(4) Option 2, parts. Option 2 kit repair parts shall appear in the parts list by item number as shown on the associated figure. They shall be listed in item number sequence. The statement "PART OF KIT PN (enter kit part number)" shall follow the item name. See figure 8.

i. End of figure statement. The statement "END OF FIGURE" shall appear below the last item described in column 6 for each figure appearing in tabular lists in sections II and III.

3.3.1.3.8 QTY column. A number indicating how many times the item appears on the associated illustration shall appear in the QTY column. When a definite quantity cannot be determined because the number of uses per equipment or the size or length of an item may vary with each equipment, the letter V shall appear in the left position of the QTY column.

3.3.1.3.9 Basic issue items (repair parts), special tools (repair parts). Repair parts for reparable basic issue items (BII) or special tools that do not have separate TMs, but are authorized for the RPSTL, shall be listed in a functional group titled "BASIC ISSUE ITEMS (REPAIR PARTS)" or "SPECIAL TOOLS (REPAIR PARTS)," as applicable. Subfunctional groups shall be assigned when applicable. Items listed in functional and subfunctional groups shall be listed and identified with the same basic columnar data required for the equipment repair parts. BII and special tools repair parts shall be supported by illustrations which meet the requirements of 3.3.1.3.

3.3.1.3.10 Expendable/durable supplies and items. Expendable/durable supplies and items shall not be listed in the RPSTL. (These items appear in the applicable narrative manual).

3.3.1.4 Section III - special tools list. The title for Section III of the RPSTL shall be Special Tools List. This section shall list special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment authorized for use and maintenance of the equipment covered by the RPSTL. These tools shall be illustrated and listed in the format shown on figures 9 and 10.

3.3.1.4.1 Functional grouping. Items shall be listed under a functional group(s) titled "SPECIAL TOOLS." Items within the group shall be listed in ascending figure and item number sequence.

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3.3.1.4.2 Basis of issue (BOI). The last line entry(s) in the DESCRIPTION AND USABLE ON CODE (UOC) column for individual items, sets, or kits, shall be the BOI. The BOI shall indicate the quantity of the items, sets, or kits authorized to support a specific number of equipments or a specific military unit. For example, "BOI: 1 auth for 1-12 equip," or "BOI: 1 per BN HQ when BN has SVC CO." For example of BOI see figure 10.

3.3.1.4.3 Special tool set or kit line entry(s). These line entries shall contain complete information in all columns except ITEM NO. and QTY columns. ITEM NO. and QTY columns shall be left blank.

3.3.1.4.4 Components listing. Components of special tool sets and kits shall be listed in figure and item number sequence immediately following the set or kit entry. The line entry for the components shall be indented under the set or kit entry and contain complete information in all columns except the QTY column which shall be left blank. Quantities of components shall be included in a statement in the DESCRIPTION AND USABLE ON CODE (UOC) column such as, qty 1 per set, or qty 3 per kit.

3.3.1.4.5 D coded items. When a depot level RPSTL does not exist and items are maintained at depot level, they shall be identified with a "D" in the third position of the SMR code in the highest level RPSTL prepared.

3.3.1.5 Section IV - cross-reference indexes. This section shall consist of two cross-reference indexes: the NSN index (NSN to figure and item no.) and the part number (PN) index (PN to figure and item no.). The NSN and PN indexes shall be double column indexes. The title of each index shall be centered above the index, and the column headings and format shall be as shown on figures 11 and 12. The NSN index shall appear first. Each index shall begin on a new page unless both indexes require less than one full page.

3.3.1.5.1 National stock number index. This index shall list the complete NSN for all NSNs assigned to applicable items. Line entries shall be arranged in ascending numeric sequence by national item identification number (NIIN) (the last nine digits of the NSN). The NSN line entry shall identify the first figure and item number for which the stock number is applicable. The NSN shall not be repeated on the same page of the index for each additional figure and item number identified with that NSN. When NSN references carry over to another page, the carried over NSN entry shall appear at the top of that page. See figure 11.

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3.3.1.5.2 Part number index. This index shall be a two column index and shall be arranged in ascending alphanumeric sequence by part number. The line entry for each part number listed shall identify the applicable figure and item number. When the part number appears on more than one figure, the part number shall not be repeated unless it continues on the next page. If the part number continues to the next page, it shall be repeated at the top of the page. See figure 12 for an example.

3.3.1.5.3 Reference designator index. When specified by the contracting activity, a reference designator index shall be included in section IV. The reference designators shall be listed in alphanumeric sequence and shall reference the applicable figure and item number. For example see figure 13.

3.3.1.6 Bulk figure. When entries in either the NSN or PN index cross-reference bulk material, the word "BULK" shall appear in the FIG. column. The numbers in the ITEM No. column refer to the item number listing on the bulk figure located in the bulk functional group listing, and shall not refer to item numbers on an illustration.

3.3.1.7 Sets and kits. Part numbers for sets and kits shall be cross-referenced to the NSN, and the figure and item numbers of the set or kit. If Option 1 (3.3.1.3.7h) is selected, the ITEM No. column shall either be left blank or list an alphabetical character such as K for KIT, S for SET. If Option 2 (3.3.1.3.7h) is selected, the FIG. column shall list the word "KITS" or "SETS" as applicable.

3.3.1.8 Illustrations. Unless otherwise specified, all illustrations shall be line drawings. They shall be arranged to make effective use of page space.

3.3.1.8.1 Illustration identification numbers. When specified by the contracting activity, illustration identification numbers shall be placed in the lower right hand corner outside the illustration area (figure 3).

3.3.1.8.2 Halftones. Halftones shall not be used in a new RPSTL. Halftones used in previous issues shall not be repeated in a RPSTL revision or an update revision unless authorized by the contracting activity.

3.3.1.8.3 Exploded views. Unless otherwise specified, exploded views shall be used to show the location and details of each applicable part and any component required to access the part. Unless otherwise specified, items shall be numbered in clockwise sequence, starting at 11 O'clock.

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**3.3.1.8.4 Electronic items.** Unless otherwise specified, exploded views shall not be used to identify electronic items such as components on circuit cards that are not disassembled for repair. Items shall be numbered in clockwise sequence. See figure 14. Item numbers shall not be stacked (showing item numbers next to a bar at the end of a leader line) unless each item and the item number is shown in a detailed view elsewhere on the illustrations. All reparable electronic items shall be identified with a reference designator and an item number.

a. **Legends.** When specified or authorized by the contracting activity, legends shall be used rather than item leader lines to provide clarity. The reference designators for electronic items shall cross-reference the item numbers used in the associated parts list. See figure 14.

b. **Nonelectronic parts.** Nonelectronic parts displayed with the above items that are not assigned reference designators shall be assigned an item number for use in the associated parts list.

**3.3.1.8.5 Figure numbering.** Figures shall be numbered in numeric sequence, unless the contracting activity specifies that they shall be numbered in alphanumeric sequence. Unless authorized by the contracting activity, only one figure number shall be assigned to a functional or a subfunctional group code.

**3.3.1.8.6 FGC nomenclature.** Unless otherwise specified, when a figure includes more than one FGC, the figure title shall include all the FGC nomenclatures illustrated, beginning with the highest FGC illustrated.

**3.3.1.8.7 Identical part and item numbers.** Identical parts appearing on an illustration having only one FGC shall have the same item number. If a figure has two or more FGCs (different assemblies), only the identical parts within each FGC or assembly shall have the same item number.

**3.3.1.8.8 Identical assemblies.** When two or more identical assemblies (same part number) exist in different places in the equipment, a breakdown of the parts shall be illustrated only once; the first time the assembly appears in the RPSTL. For subsequent times that the identical assembly appears, the assembly item name shall appear in the description and usable on code column and be followed by the statement "FOR BREAKDOWN OF PARTS SEE FIG. ...". See figure 4.

**3.3.1.8.9 Arrangement of figures.** All illustrations prepared for repair parts, special tools, special TMDE, and other special support equipment shall be arranged in figure number sequence. They shall be on the left hand page preceding the parts list.

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When specified by the contracting activity and space permits, illustrations and the associated parts lists shall be placed on the same page; the illustration appearing above the parts list.

3.3.1.8.10 **Blank pages.** Blank pages shall be avoided, where possible. A companion illustration and part lists shall not be placed back-to-back on the same paper to avoid a blank page.

3.3.1.8.11 **No duplicate illustrations.** Illustrations shall not be duplicated to provide facing page illustrations for the second and subsequent pages of the RPSTL. Illustrations shall not be duplicated to show different models or configurations of an assembly when usable on codes can be assigned to indicate differences in configurations.

3.3.1.8.12 **Multi-sheet illustrations.** Only when specified by the contracting activity, shall multi-sheet illustrations for a single figure number be used. When used, the last sheet of the multi-sheet illustration shall be placed on the left hand page preceding the applicable repair parts list. Unless authorized by the contracting activity, multi-sheet illustrations shall not exceed three sheets.

3.3.1.8.13 **Separate or combined maintenance level RPSTLs.** When RPSTLs, either separate or combined, are published for more than one maintenance level, the illustrations applicable to the highest maintenance level RPSTL shall be used.

3.3.1.8.14 **Figure (illustration) and item numbers.** Unless otherwise specified by the contracting activity, all figure numbers of illustrations shall be in consecutive ascending numerical sequence. Item numbers on illustrations shall be Arabic numerals.

3.3.1.8.15 **Foldout or foldout-foldup.** Foldout or foldout-foldup illustrations shall not be used in RPSTLs.

3.3.1.8.16 **Reference to illustrations.** Reference to illustrations in other manuals or in the narrative portion of a combined narrative RPSTL TM shall not be made in the RPSTL, even though the same illustrations may support both narrative instructions and the RPSTL.

3.3.1.8.17 **Numbering added figures.** When a figure is added and it is necessary to insert it between two existing figures, the added figure shall be assigned the number of the figure appearing first in the RPSTL followed by an alpha character (in alphabetical sequence). For example, the figures inserted between figure 25 and 26 would be numbered figure 25A, 25B, and 25C respectively. If an added figure falls after the last figure, it shall be assigned the next consecutive ascending alphanumeric number. See figure 15.

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**3.3.1.8.18 Numbering added items.** When an item is added and it is necessary to insert it between two existing items, the added item shall be assigned the number of the item appearing first in the list followed by an alpha character (in alphabetical sequence). For example, items inserted between items 3 and 4 would be item 3A, 3B, and 3C respectively. If an added item falls after the last item, it shall be assigned the next consecutive ascending Arabic numeral. The above numbering system shall apply to new RPSTLs, changes, and revisions only when scheduling is such that it would not be practical to renumber all figures or items in the RPSTL or items on applicable figures. When the RPSTL is completely revised, the above inserted figures and items shall be renumbered in the proper sequence.

**3.3.1.9 Horizontal-vertical format.** Unless otherwise specified, illustrations shall be prepared in vertical format. RPSTL text shall not be prepared in horizontal format except for RPSTLs supporting nuclear weapons (regulated by Department of Energy/Defense Nuclear Agency).

**3.3.1.10 Figure titles and list headers.** The headers for lists shall contain the same basic wording and information as the associated figures, which shall be the same as the titles used in the MAC, as applicable. The first letter of principle words in figure (illustration) titles shall be upper case.

**3.3.1.11 Page numbering.** RPSTL pages shall be numbered as follows:

a. **Front matter.** Front matter pages shall be numbered consecutively in lower case Roman numerals beginning with i on the title block page. See figure 1.

b. **Section I, introduction.** Pages shall be numbered consecutively with Arabic numerals beginning with 1 on the first page of the introduction.

c. **Section II, parts list.**

(1) Illustration pages shall not be numbered. The figure number and the figure title shall be placed below the illustration.

(2) Parts listing pages shall be identified with the same number as the associated figure. The page number shall be the figure number plus a "dash" number. Example: page number 3-1 is the first page of the parts listing for figure 3, page 3-3 is the third page of the parts listing for figure 3.

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d. Section III, special tools list. Pages shall be numbered the same as section II and shall be a continuation of page numbers in section II.

e. Section IV, cross-reference indexes. Pages shall be numbered consecutively within this section. The page number shall be preceded by capital I (for index) such as I-1, I-2. See figure 11.

f. Appendix RPSTL. Pages shall be numbered the same as TM RPSTLs except the numbers shall be preceded by the appendix letter and a dash, such as C-2, C-53-1, B-1, or B-15-3. See figure 16.

3.3.1.12 TM publication number. Except for the cover and the title block page, publication numbers shall be centered at the top of the page. See figure 1.

3.3.1.13 Changes. Changes to RPSTL pages shall be identified by a change number placed to the right of the TM designation at the top of the affected page. Change numbers shall be Arabic and shall be preceded by the letter C (such as C01, C02, and C08). See figure 15.

3.3.1.13.1 Asterisk. When specified, an asterisk shall be placed to the left of the ITEM No. column adjacent to the line item indicating that a change has been made to the item and may be reflected in the associated text, illustration, the NSN index, or the part number index. See figure 17.

3.3.1.13.2 Change symbols. When specified by the contracting activity, change symbols shall be used to identify areas and items changed on illustrations. See figure 18 or MIL-M-38784.

3.3.1.13.3 Change instruction sheet(s). Page changes shall have a change instruction sheet(s) (transmittal sheet(s)). The change sheet shall be prepared in accordance with MIL-M-38784. When applicable, the following statement shall be added: "An asterisk in the left-hand margin of the tabular page indicates a change in the line item that has affected either the tabular page or the indexes". A statement shall be added to explain the reason for the change, the meaning of change symbols on illustrations (if used), and how to use the supplemental cross-reference indexes. See figure 19.

3.3.2 Security classification markings. See MIL-M-38784.

3.3.3 Government-furnished data. As specified by the contracting activity, the contractor shall incorporate into the RPSTL applicable government-furnished data such as that required by MIL-M-38784 and the applicable data as follows:

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- a. "Current as of" date.
  - b. Reporting of errors and recommending improvements statement.
  - c. Supersession notice, if applicable.
  - d. Columnar data for entry in the tabular listings.
  - e. Reference artwork material.
  - f. Drawings for material covered, if applicable.
  - g. Maintenance allocation chart.
  - h. Associated publications.
  - i. Applicable introduction content.
- 3.3.4 **Final draft RPSTL**. The final draft of the RPSTL shall be a reproducible copy.

**4. QUALITY ASSURANCE PROVISIONS**

**4.1 Responsibility for inspection**. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the government. The government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

**4.1.1 Responsibility for compliance**. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operation, is an acceptable practice to ascertain conformance to requirements; however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the government to accept defective material.

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**4.2 Validation.** The manuscript used to prepare the draft RPSTL publication shall be validated by the contractor in accordance with the requirements contained herein. The introductory material and columnar headings shall not be included in the sampling procedure used for the tabular listings.

**4.2.1 Introductory material.** The contractor shall validate the introductory material to assure that all the paragraphs and only those paragraphs and information required by this specification, or specifically authorized by the contracting activity, are included.

**4.2.2 Columnar headings.** The contractor shall validate the columnar headings for conformance to this specification. The validation shall assure that the headings used on the tabular lists are consistent with the explanations of the headings in the introductory material.

**4.2.3 Line item entries.** The validation of each data element in line item entries shall be made to assure that:

a. All data elements required by this specification are correctly entered and those data not required are not included.

b. Figure and item number in the listing correctly identify the item called out on the illustration.

c. Item number, CAGEC, part number, NSN, item name, and description are correctly entered in the index for each entry.

d. Functional or subfunctional group names and numbers are used consistently within the listings, table of contents, and illustrations, and are the same as those used in the maintenance allocation chart (MAC).

e. Source, maintenance, and recoverability (SMR) coding of repair parts is in consonance with the MAC functions.

**4.2.4 Government-furnished data.** The contractor shall validate that all government-furnished data are properly and correctly reflected in the RPSTL. The contractor shall be responsible for notifying the government of any inaccurate or inadequate data or any data which are inconsistent within the content of the RPSTL or with other sources of data.

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4.3 In-process reviews (IPR). When specified by the contracting activity, IPRs shall be held during the preparation of the RPSTL publication, primarily to provide guidance to the contractor to assure that the publications are prepared in conformance to contract and specification requirements. IPRs may be conducted at the contractor's facility, or at a site selected by the contracting activity at any time during the development of the publication but normally prior to preparation of the final contract deliverable. IPRs are not a part of validation or verification and shall not be used to take the place of validation or verification.

4.4 Verification. The contractor shall provide facilities and access for the government to verify content accuracy of the RPSTL by inspection of the contractor's records, review of random samples of line entries, or witnessing the contractor's validation.

**5. PACKAGING**

5.1 Packaging and packing. Unless otherwise specified by the contracting activity, the packaging and packing of technical manuals/RPSTLs and other associated products shall conform to ASTM D3951.

5.2 Marking. Packs shall be marked in accordance with MIL-STD-129 and ASTM D3951, as applicable, and shall include the appropriate technical manual number and publication date.

5.3 Classified material. All classified material shall be safeguarded, packaged, and marked as required by MIL-M-38784.

**6. NOTES**

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. RPSTLs prepared in accordance with this specification list repair parts, special tools, special test measurement and diagnostic equipment, and other support equipment required to support military equipment. RPSTLs authorize maintenance, requesting, issuing, and disposing of items as indicated by the applicable source, maintenance, and recoverability codes.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.

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b. Issue of DODISS to be cited in the solicitation, and, if required, the specific issue of individual documents referenced.

c. Title and publication number of technical manual.

d. Type of RPSTL (TM or appendix) and maintenance level(s).

e. Distribution restriction statement, destruction notice, and export warning notice, if applicable.

f. Address for the reporting errors and recommending improvements statement and the DA Form 2028-2.

g. Supersession data, if applicable.

**6.3 Technical manuals.** The requirements for technical manuals should be considered when this specification is applied on a contract. If technical manuals are required, military specifications and standards that have been cleared and listed in DOD 5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL), must be listed on a separate Contract Data Requirements List (DD Form 1423), which is included as an exhibit to the contract. The technical manuals must be acquired under separate contract line item in the contract.

**6.4 Supersession.** Until the Commodity Command Standard System (CCSS) is updated to include NSN column in section II of the RPSTL, this specification will be used only when the contracting activity/command has in-house capability to include the NSN in the repair parts listing. Otherwise, MIL-STD-335 will continue to be used as the RPSTL acquisition document. Once the CCSS is updated to accommodate the requirements of this specification, MIL-STD-335 will be canceled for use in all new TM acquisitions.

**6.5 Definitions.** Definitions and acronyms used in this specification are defined as follows:

**6.5.1 Assembled item.** An item source coded AO, AF, AH, AL, or AD that is not stocked as an assembly, but is assembled from its constituent repair parts.

**6.5.2 Assembly.** Two or more parts or subassemblies joined together to perform a specific function and capable of disassembly.

**6.5.3 Bulk material.** Material issued in bulk for manufacture or fabrication of support items such as sheet metal, pipe tubing, bar stock, or gasket material. Excludes expendable supplies and materials (see 6.4.9).

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6.5.4 **CAGEC**. Commercial and government entity code. A five position code assigned to manufacturers or nonmanufacturers organizational entities or contractors.

6.5.5 **Complete part number**. Consists of the CAGEC and part number; used for requisition processing. The CAGEC is entered on a requisition form first, followed by the part number.

6.5.6 **Complete repair**. Maintenance capacity, capability, and authority to perform all the corrective maintenance tasks of the repair function in a use or user environment in order to restore serviceability to a failed item. Excludes the prescriptive maintenance functions, overhaul, and rebuild.

6.5.7 **Component**. An assembly or any combination of repair parts mounted together, normally capable of independent operation in a variety of situations.

6.5.8 **"Current as of" date**. Indicates the date that all data in the RPSTL were verified as being current prior to forwarding for printing.

6.5.9 **Expendable supplies and materials**. Items, other than repair parts, that are consumed in use authorized by CTA 50-970. (Examples - paint, lubricants, wiping rags, tape, cleaning compounds, sandpaper.) They are listed in appendixes to applicable level narrative manuals for immediate access and informational purposes.

6.5.10 **Functional group code (FGC)**. A basic (usually two position) group code assigned to identify major components, assemblies, and subassemblies to a functional system. Subordinate subfunctional groups or subassemblies are coded to relate back to the basic (top position) FGC in a sequential next higher assembly relationships (top-down breakdown structure).

6.5.11 **Limited repair**. Corrective repair authorized to be done by a level of maintenance lower than the level authorized to do complete repair.

6.5.12 **Part number**. The part number referred to is the primary number used to identify an item used by the manufacturer (individual, company, firm, corporation, or government activity) which controls the design, characteristics, and production of the item by means of its engineering drawings, specifications, and inspection requirements.

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6.5.13 **Remove-install.** To remove, then install the same item removed (compare with "Replace"). Prescribed by the maintenance allocation chart (MAC) but not covered by SMR code authorization. Performed during service actions, disassembly and assembly procedures, or other maintenance activities.

6.5.14 **Repair part.** Any consumable or nonreparable component (Supply Class IX item) required for maintenance or repair of an end item or equipment (will be coded "Z" or "B" in 4th position of the SMR code).

6.5.15 **Replace.** To remove an unserviceable repair part and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and is shown as the 3d position code of the SMR code.

6.5.16 **Spare part.** Any reparable and recoverable component required for the maintenance or repair of an equipment (will have a recoverability code other than "Z" and will be assigned an FGC or subfunctional group code in the MAC).

6.5.17 **Special tools.** Those support items that have single or peculiar application to a specific equipment. Items include special tools, special test, measurement, and diagnostic equipment (TMDE), and special support equipment. All special tools, including authorized components of special tool sets or kits, are listed in Section III of the RPSTL. All spare and repair parts authorized for reparable special tools or components are listed in Section II of the RPSTL.

6.5.18 **Top-down breakdown.** The pyramidal generation breakdown of an end item with the top item being the complete end item. The process of breakdown is established from the engineering drawing structure in a next higher assembly (NHA) progression until the lowest reparable in each family tree is identified. All nonreparables (repair parts) can be identified in like manner to establish their NHA relationships.

6.5.19 **Validation.** The process by which the contractor tests an equipment publications manuscript for accuracy, adequacy, and usability of the technical content, and by review, determines that the format and content meet the requirements of regulatory documents provided as part of the acquisition package.

6.5.20 **Verification.** The process by which the government, under acquiring activity jurisdiction, determines a draft equipment publication or a manufacturer's publication to be accurate and adequate for operation and maintenance of the equipment.

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**6.6 Subject term (keyword) listing.**

Assembly  
Bulk material  
CAGEC  
Component  
Expendable supplies  
Functional group code

Install  
Remove  
Replace  
Spare part  
Top-down breakdown

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TABLE I. Applicable introduction content list. 1/

Section/ Paragraph 2/	Heading/title
	RPSTL TITLE 3/
I.	INTRODUCTION
1.	Scope
2.	General
2a.	Section II - Repair Parts List
2b.	Section III - Special Tools List
2c.	Section IV - Cross-reference Indexes
3.	Explanation of Columns (Section II and III)
3a.	Column (1) ITEM NUMBER
3b.	Column (2) SMR CODE 4/
3c.	Column (3) NATIONAL STOCK NUMBER
3d.	Column (4) CAGEC
3e.	Column (5) PART NUMBER
3f.	Column (6) DESCRIPTION AND USABLE ON CODE (UOC) 5/
3g.	Column (7) QTY
4.	Explanation of Columns (Section IV).
4a.	STOCK NUMBER INDEX
4a(1);(2);(3)	(STOCK NUMBER; FIG; ITEM NUMBER)
4b.	PART NUMBER INDEX
4b(1);(2);(3)	(PART NUMBER; FIGURE NUMBER; AND ITEM NUMBER)
5.	Reference Designator Index
6.	Special Information 6/
7.	How to Locate Repair Parts
8.	Abbreviations

## NOTES:

1/ All introduction content listed applies to all RPSTLs and covers all maintenance levels unless it is not applicable. When entries are not applicable, only the paragraph number, title, and the phrase NOT APPLICABLE shall be entered after the title.

2/ Paragraph numbers in the list refer to paragraph figure 4.

3/ Adapt by using only applicable portions pertaining to the level(s) of maintenance covered by the RPSTL.

4/ All codes shall be entered and explained. (Reference figure sheet 2). Source code "XC" shall be used only when installation drawings, diagrams, instruction sheets, or field service drawings are available at the maintenance level(s) for which the RPSTL is prepared.

5/ Inclusion of federal item name is mandatory. Remaining explanations shall be included only if applicable to the RPSTL.

6/ Paragraphs in special information shall be included only if applicable to the RPSTL. Appropriate insertions shall be made where indicated.

**MIL-M-49502 (TM)****\*TM 5-6675 318-24P**

Technical Manual

No. 5-6675-318-24P

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, DC, 11 April 1988UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT  
REPAIR PARTS AND SPECIAL TOOLS LIST  
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)FOR  
TOPOGRAPHIC SUPPORT SYSTEM  
SURVEY SECTION  
MODEL ADC-TSS-6  
(NSN: 6675-01-105-5756)

Current as of 27 January 1988

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this publication. If you find any errors or if you know of a way to improve the publication, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000. A reply will be furnished directly to you.

**TABLE OF CONTENTS**

		Page	Ilus Figure
Section I	INTRODUCTION .....	1	
II	REPAIR PARTS LIST .....	1-1	
Group 00	Survey Section .....	1-1	
01	Van Body (ISO Container) .....	1-1	1
	Electrical System .....	2-1	2
	Power and Communications Mounting Brackets .....	3-1	3

**WARNING** - This document contains export-controlled technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751 et seq) or Executive Order 12470. Violation of these export laws are subject to severe criminal penalties.

**DISTRIBUTION STATEMENT C.** Distribution authorized to U.S. Government agencies and their contractors. This publication is required for administration and operational purposes, as determined 2 February 1987. Other requests for this document shall be referred to Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000.

**DESTRUCTION NOTICE** - For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

\*This manual supersedes TM 5-6675-318-24P, 2 December 1985.

**FIGURE 1. Example of title block page.**

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TM 3-4240-323-20P

SECTION I  
INTRODUCTION

## 1. - SCOPE.

This RPSTL lists and authorizes spares and repair parts, special tools, special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of unit maintenance of the (enter equipment name). It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

## 2. GENERAL.

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

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. This list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed by item name in FIG. BULK at the end of the section. Repair parts kits are listed separately in their own functional group within section II. Repair parts for reparable special tools are also listed in section II. Items listed are shown on the associated illustration.

b. Section III. Special Tools List. A list of special tools, special TMDE, and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column).

c. Section IV. Cross-Reference Indexes. There are two cross-reference indexes in this RPSTL: The National Stock Number Index and the Part Number Index. The National Stock Number Index refers you to the figure and item number. The Part Number Index refers you to the figure and item number.

## 3. EXPLANATION OF COLUMNS (SECTION II AND III).

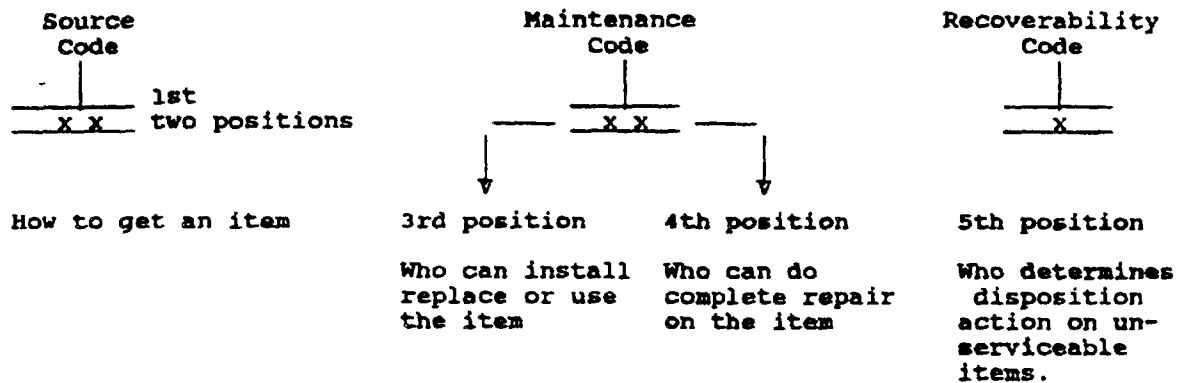
a. ITEM NO. (Column (1)). Indicates the number used to identify items called out on the illustration.

FIGURE 2. Example of section I, introduction (sheet 1 of 9).

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b. SMR CODE (Column (2)). The source, maintenance, and recoverability (SMR) code contains supply/requisitioning information, maintenance level authorization criteria, and disposition instruction, as shown in the following breakout:



## NOTE

Complete repair: Maintenance, capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follow:

Source Code	Application/explanation
PA	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 10px;"></div> <div> <p>Stock items; use the applicable NSN to requisition/request items with these source codes. They are authorized to the level indicated by the code entered in the 3d position of the SMR code.</p> </div> </div>
PB	
PC	
PD	
PE	
PF	
PG	
	NOTE
	Items coded PC are subject to deterioration.
KD	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 40px; height: 40px; margin-right: 10px;"></div> <div> <p>Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.</p> </div> </div>
KF	
KB	

FIGURE 2. Example of section I, introduction (sheet 2 of 9).

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MO-Made at unit/  
AVUM level  
MF-Made at DS/  
AVIM level  
MH-Made at GS -  
level  
ML-Made at SRA  
MD-Made at depot

Items with these codes are not to be requisitioned/ requested individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the bulk material group of the repair parts list of the RPSTL. If the item is authorized to you by the 3d position code of the SMR code, but the source code indicates it is made at higher level, order the item from the higher level of maintenance.

AO-Assembled by  
unit/AVUM level  
AF-Assembled by  
DS/AVIM level  
AH-Assembled by  
GS level  
AL-Assembled by  
SRA  
AD-Assembled by  
depot

Items with these codes are not to be requested/ requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3d position of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

- XA - Do not requisition an "XA" coded item. Order the next higher assembly. (Refer to NOTE below).
- XB - If an item is not available from salvage, order it using the CAGEC and part number.
- XC - Installation drawing, diagrams, instruction sheet, field service drawing; identified by manufacturer's part number.

## NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

FIGURE 2. Example of section I, introduction (sheet 3 of 9).

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(2) Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third position of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use the item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance.

Maintenance Code	Application/Explanation
C	Crew or operator maintenance done within unit/AVUM maintenance.
O	Unit level/AVUM maintenance can remove, replace, and use the item.
F	Direct support/AVIM maintenance can remove, replace, and use the item.
H	General support maintenance can remove, replace, and use the item.
L	Specialized repair activity can remove, replace, and use the item.
D	Depot can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

## NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the maintenance allocation chart and SMR codes.

Maintenance Code	Application/Explanation
O	Unit/AVUM is the lowest level that can do complete repair of the item.
F	Direct support/AVIM is the lowest level that can do complete repair of item.
H	General support is the lowest level that can do complete repair of item.

FIGURE 2. Example of section I, introduction (sheet 4 of 9).

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- L** - Specialized repair activity (designate the specialized repair activity) is the lowest level that can do complete repair of the item.
- D** - Depot is the lowest level that can do complete repair of the item.
- Z** - Nonreparable. No repair is authorized.
- B** - No repair is authorized. No parts or special tools are authorized for maintenance of "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR code as follows:

Recoverability code	Application/Explanation
Z	- Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the 3d position of SMR code.
O	- Reparable item. When uneconomically reparable, condemn and dispose of the item at unit level.
F	- Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level.
H	- Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	- Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level.
L	- Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	- Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical materiel, or hazardous materiel). Refer to appropriate manuals/directives for specific instructions.

**FIGURE 2. Example of section I, introduction (sheet 5 of 9).**

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- c. NSN (Column (3)). The national stock number for the item is listed in this column.
- d. CAGEC (Column (4)). The commercial and government entity code is a 5-digit code which is used to identify the manufacturer, distributor, or government agency/activity that supplies the item.
- e. PART NUMBER (Column (5)). 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 you use an NSN to requisition an item, the item you receive may have a different part number from the number listed

- f. DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

- (1) The Federal item name, and when required, a minimum description to identify the item.
- (2) Part numbers of bulk materials are referenced in this column in the line entry to be manufactured/fabricated.
- (3) The statement "END OF FIGURE" appears just below the last item description in column (5) for a given figure in both Section II and III.

- g. QTY (Column (7)). The QTY (quantity per figure) column 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 instead of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

## 4. EXPLANATION OF INDEX FORMAT AND COLUMNS (SECTION IV).

- a. National Stock Number (NSN) Index.

- (1) STOCK NUMBER Column. This column lists the NSN in national item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

(e.g., NSN  
5385-01-574-1476).  
NIIN

When using this column to locate an item, ignore the first four digits of the NSN. Use the complete NSN (13 digits) when requisitioning items by stock number.

FIGURE 2. Example of section I, introduction (sheet 6 of 9).

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(2) FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in sections II and III.

(3) ITEM Column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. Part Number Index. Part numbers in this index are listed by part number in ascending alphanumeric sequence (vertical arrangement of letters and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) PART NUMBER Column. Indicates the part number assigned to the item.

(2) FIG. Column. This column lists the number of the figure where the item is identified/located in Section II or III.

(3) ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

5. REFERENCE DESIGNATOR INDEX (Not applicable.)

6. SPECIAL INFORMATION

a. Usable on Code. The usable on code appears in the lower left corner of the Description Column heading. Usable on codes are shown as "UOC: ...." in the Description Column (justified left) on the first line applicable item/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in the RPSTL are:

<u>Code</u>	<u>Used On</u>	
PAA	Model M114	(These codes and model numbers are examples only.)
PAB	Model M114A	
PAC	Model M114B	

b. Fabrication Instructions. Bulk materials required to manufacture items are listed in the bulk material functional group of this RPSTL. Part numbers for bulk material are also referenced in the Description Column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in TM 3-4240-323-20.

FIGURE 2. Example of section I, introduction (sheet 7 of 9).

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c. Index Numbers. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the national stock number/part number index and the bulk material list in section II.

d. Associated Publication. The publications listed below pertain to the protective control module and its components:

TM 3-4240-323-30

Control Module

e. Illustrations-Listing. Illustrations in this RPSTL, containing parts authorized at unit level, are identical to those published in TM 3-4240-323-34P. Only those parts coded "O" in the third position of the SMR code are listed in the tabular listing in section II; therefore, there may be a break in the item number sequence. Only illustrations containing unit authorized items appear in this RPSTL.

## 7. HOW TO LOCATE REPAIR PARTS

### a. When National Stock Numbers or Part Numbers are Not Known.

(1) First. Using the table of contents, determine the assembly or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) Second. Find the figure covering the functional group or the subfunctional group to which the item belongs.

(3) Third. Identify the item on the figure and note the item number.

(4) Fourth. Look in the repair parts list for the figure and item numbers. The NSNs and part numbers are on the same line as the associated item numbers.

### b. When National Stock Number or Part Number is Known.

(1) First. If you have the national stock number, look in the STOCK NUMBER column of the National Stock Number Index. The NSN is arranged in national item identification number (NIIN) sequence (see paragraph 4a). Note the figure and item number next to the NSN.

FIGURE 2. Example of section I, introduction (sheet 8 of 9).

**MIL-M-49502 (TM)**

**TM 3-4240-323-20P**

(2) Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

**NOTE**

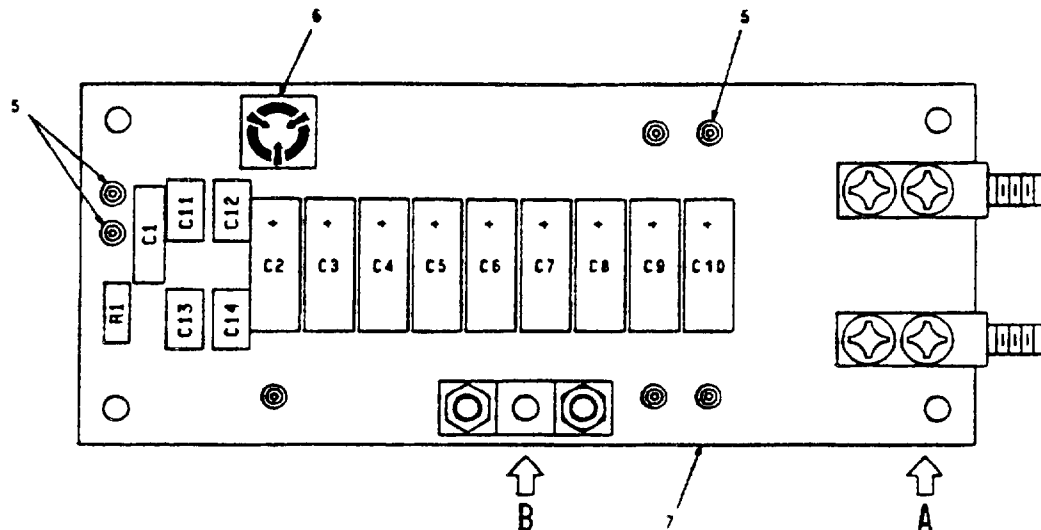
If you have the part number, look in the PART NUMBER column of the part number index. Identify the figure and item number, look up the item on the figure in section II.

**8. ABBREVIATIONS** (Not applicable.)

**FIGURE 2. Example of section I, introduction (sheet 9 of 9).**

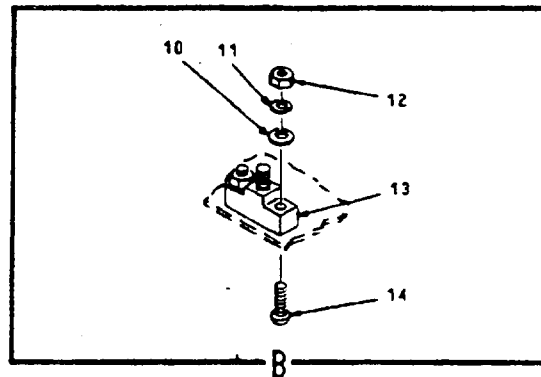
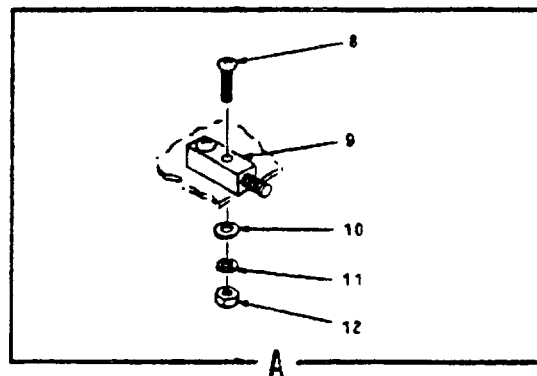
## MIL-M-49502 (TM)

TM 11-7021-212-23P



REF. DES.	ITEM NO.
C1	1
C2	2
C3	2
C4	2
C5	2
C6	2
C7	2
C8	2
C9	2
C10	2
C11	3
C12	3
C13	3
C14	3
R1	4

PREFIX ALL REFERENCE DESIGNATIONS  
WITH A4 OR A8



CE1YV032

Figure 11. Output Filter Circuit Card Assembly  
(1PS1A4 and 1PS1A8)

FIGURE 3. Example of section II illustration.

## MIL-M-49502 (TM)

SECTION II		TM11-1520-237-239				
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SNR			PART		
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODE(UOC)	QTY
GROUP 110503						
FIG. 99 WIRING INSTALLATION 70551-02169-012 AND -014						
1	MOOZZ		78286	889014J22R	PLATE, IDENT MAKE FROM AL FOIL 0.003 TO 0.005 IN. THK 88-A-1876 OR GG-P-455 GRADE A.....	1
2	MOOZZ	- -	78286	889014J25R	PLATE, IDENT MAKE FROM AL FOIL 0.003 TO 0.005 IN. THK 88-A-1876-DR GG-P-455-GRADE A.....	1
3	A0000		78286	70602-02107-041	HARNESS ASSY SEE FIG. 96 FOR BREAKDOWN.....	1
4	A0000		78286	70602-02102-041	HARNESS ASSY, ICS USBL EFF 77-22714 THRU 77-22717 SEE FIG. 100 FOR BREAKDOWN.....	1
4	A0000		78286	70602-02102-042	HARNESS ASSY, ICS USBL EFF 77-22718 THRU 83-23866 SEE FIG. 100 FOR BREAKDOWN.....	1
4	A0000		78286	70602-02102-043	HARNESS ASSY, ICS USBL EFF 83-23887 AND SUB SEE FIG. 100 FOR BREAKDOWN...	1
5	A0000		78286	70602-02103-041	HARNESS ASSY, ICS USBL EFF 77-22714 THRU 83-23886 SEE FIG. 101 FOR BREAKDOWN.....	1
5	A0000		78286	70602-02103-042	HARNESS ASSY USBL EFF 83-23887 AND SUB SEE FIG. 101 FOR BREAKDOWN.....	1
6	PAOZZ	5340-00-291-5323	96906	MS2191WDG4	CLAMP, LOOP.....	7
7	MOOZZ		78286	889014J204R	PLATE, IDENT MAKE PER 8811-631.....	1
8	PAOZZ	5310-01-105-7241	88044	AN690JD10L	WASHER, FLAT.....	16
9	PAOZZ	5310-00-877-5798	96906	MS2104403	NUT, SELF-LOCKING, NE.....	23
10	PAOZZ	5340-00-291-5353	96906	MS21919WDG2	CLAMP, LOOP.....	17
11	PAOZZ	5305-00-947-4282	96906	MS27039DD1-09	SCREW, MACHINE.....	8
12	PAOZZ	5340-00-598-0529	96906	MS21919WDG28	CLAMP, LOOP.....	3
13	PAOZZ	5340-00-286-9427	96906	MS21919WDG12	CLAMP, LOOP.....	1
14	PAOZZ	5305-00-947-4278	96906	MS27039DD1-08	SCREW, MACHINE.....	9
15	PAOZZ	5365-00-662-3100	82918	BACS18AE3-64	SPACER, SLEEVE.....	3
16	PAOZZ	5340-00-598-0146	96906	MS21919WDG6	CLAMP, LOOP.....	6
17	PAOXX	5340-00-291-5322	96906	MS21919WDG3	CLAMP, LOOP.....	2
18	PAOZZ	5310-01-134-5794	88044	AN960KD10	WASHER, FLAT.....	6
19	PAOZZ	5305-00-947-6994	96906	MS27039DD1-24	SCREW, FLAT.....	2
20	PAOZZ		96906	MS35489-17	GROMMET, NONMETALLIC U/O 77551- 02169-012.....	1
20	PAOZZ	5325-00-291-9366	96906	MS35489-11	GROMMET, NONMETALLIC U/O 70511- 02169-014.....	1
21	PAOZZ	5305-00-889-2998	96906	MS35206-216	SCREW, MACHINE.....	1
22	PAOZZ	5310-00-187-2397	88044	AN960PD4L	WASHER, FLAT.....	3
23	XBDZZ		78286	70551-01001-128	COVER.....	1

99-1

FIGURE 4. Example of section II parts list.

## MIL-M-49502 (TM)

(6)	(7)
DESCRIPTION AND USABLE OR CODE(UOC)	QTY
GROUP 14 ENGINE ASSEMBLY	
FIG. 24 OIL PUMP ASSEMBLY	
.BOLT,MACHINE.....	1
.WASHER,LOCK.....	1
.STRAINER,PUMP.....	1
.PUMP,ROTARY.....	1
..REGULATOR PRESS.....	1
..WASHER,KEY.....	1
..SPACER,RING.....	5
..GEAR OIL PUMP.....	1
..BOLT,MACHINE CAP SCREW 1/4-20X1-3/8 INCH.....	2
..WASHER,LOCK 1/4 IN MEDIUM SAE LOCKWASHER STEEL.....	2
..SCREW COVER.....	6
..COVER PUMP.....	1
..PUMP OIL BSC.....	1
...GEAR DR SHAFT.....	1
...SHAFT DRIVE.....	1
...GEAR IDLER.....	1
...BODY ASSY.....	1
....SHAFT IDLER.....	1
....BODY PUMP.....	1

END OF FIGURE

FIGURE 5. Example of indentions.

## MIL-M-49502 (TM)

SECTION II		TM 9-2320-258-34P					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
ITEM	SNR			PART			
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODE(UOC)	QTY	
GROUP 95 GENERAL USE STANDARDIZED PARTS							
GROUP 9501 BULK MATERIAL							
FIG. BULK							
1	PA0ZZ	5330-00-982-5130	81349	MILC7637TYPE2	ASBESTOS SHEET, WOVE.....	V	
2	XB0ZZ		19207	RRC271	CHAIN, WELDLESS.....	V	
3	PA0ZZ	5975-00-285-0907	97030	LODM 3/8 10	CONDUIT, NONMETALLIC.....	V	
4	PA0ZZ	9340-00-142-6860	19207	11633348	GLASS, LAMINATED.....	V	
5	PA0ZZ	9340-00-285-6775	19200	8635931	GLASS, LAMINATED.....	V	
6	PAFZZ	4720-00-001-0093	81349	MILN13531	NOSE ASSEMBLY, NONME.....	V	
7	PF0ZZ	4720-00-809-2429	30299	FT3548-5	NOSE, AIR DUCT.....	V	
8	XB0ZZ		85757	3250-0610	NOSE, NONMETALLIC.....	V	
9	PAFZZ	4720-00-999-8994	01276	303-8	NOSE, NONMETALLIC.....	V	
10	PA0ZZ	4720-00-951-2433	96909	MS21301AZ29R	NOSE, NONMETALLIC.....	V	
11	PA0ZZ	4720-01-009-9058	85757	3250-1010	NOSE, NONMETALLIC.....	V	
12	PA0ZZ	4720-00-683-8830	81349	MIL-N-8788-4	NOSE, NONMETALLIC.....	V	
13	PA0ZZ	4720-00-999-4044	11083	3R7752	NOSE, PREFORMED.....	V	
14	XB0ZZ		81349	MIL-1-14511	INSULATION BOARD TH.....	V	
15	PA0ZZ	9390-00-488-2106	19207	CPR102201	NONMETALLIC SPECIAL.....	V	
16	XB0ZZ		19207	10287823-7	RUBBER STRIP.....	V	
17	PA0ZZ	5330-00-333-0313	81348	MNP151	RUBBER SHEET SOLID.....	V	
18	PAFZZ	5330-01-082-3792	19207	CPR102235	SEAL, RUBBER SPECIAL.....	V	
19	PAFZZ	5330-01-040-8923	19207	CPR104394	SEAL, RUBBER CHANNEL.....	V	
20	PA0ZZ	5330-01-082-3793	19207	CPR102232	SEAL, RUBBER SPECIAL.....	V	
21	PA0ZZ	5365-00-944-1871	19204	7383942	SPACER, SLEEVE.....	V	
22	PA0ZZ	4710-00-234-0701	19207	CPR103203-1	TUBE ASSEMBLY, METAL.....	V	
23	PA0ZZ	4710-00-277-5524	19207	7036787	TUBE, METALLIC.....	V	
24	PA0ZZ	4710-00-277-5526	91340	D11076-4A7	TUBE, METALLIC.....	V	
25	PAFZZ	4710-00-006-1647	81348	00-T-830	TUBE, METALLIC.....	V	
26	PA0ZZ	4710-00-203-3174	16236	CS4710-0004GB	TUBE, METALLIC.....	V	
27	PA0ZZ	4710-00-335-2610	81349	M3520-870E02G	TUBE, METALLIC.....	V	
28	PA0ZZ	4710-00-277-4515	81346	ASTM B280	TUBE, METALLIC.....	V	
29	PA0ZZ	4710-00-203-3172	17590	305087-0116	TUBE, METALLIC.....	V	
30	XB0ZZ		19207	CPR109328-1	TUBING.....	V	
31	PA0ZZ	4720-00-462-7494	19200	8589761-22	TUBING, NONMETALLIC.....	V	
32	XB0ZZ		19207	CPR109328-2	TUBING, RUBBER.....	V	
33	PAFZZ		19207	CPR102229	WEATHERSTRIP, DOOR.....	V	
34	PA0ZZ	6145-00-705-6674	81349	M13486-1-14	WIRE, ELECTRICAL.....	V	
35	PA0ZZ	6145-00-254-6117	81349	M13486-1-15	WIRE, ELECTRICAL.....	V	
36	PA0ZZ	6145-00-161-1609	81349	M13486-1-3	WIRE, ELECTRICAL.....	V	
37	PA0ZZ	9505-00-555-8648	96906	MS20995C47	WIRE, NONELECTRICAL.....	V	

END OF FIGURE

BULK-1

FIGURE 6. Example of bulk material list.

**MIL-X-49502 (TM)**

SECTION II		TM X-XXXX-XXX-XXP					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
ITEM	SHR			PART			
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODE(UOC)	QTY	
GROUP 15 AUXILIARY POWER UNIT							
FIG. 10 ENGINE, GAS TURBINE T62T-2A, T62T-2A1							
1	PA0DD	2835-00-906-6766	55820	37688-0	ENGINE,GAS TURBINE T62T-2A.....	1	
					UOC:NB4		
2	PA0DD	2835-00-804-8316	55820	37688-1000	ENGINE,GAS TURBINE T62T-2A1.....	1	
					UOC:NB5		
3	PA0ZZ	5310-00-877-5797	96906	MS21044W3	.NUT,SELF-LOCKING.....	2	
					UOC:NB4,NB5		
4	PA0ZZ		88044	AN960DD10	.WASHER,FLAT.....	2	
					UOC:NB4,NB5,NB6		
5	KA0ZZ	5330-00-263-8030	96906	MS29512-06	.PACKING,PREFORMED PART OF KIT P/W 31766-1.....	10	
6	PA000	2910-00-919-2021	58220	28022-4	..NOZZLE ASSEMBLY STATOR.....	1	
					UOC:NB4,NB5,NB6		
7	KA0ZZ	5330-00-961-1463	96906	MS35769-5	..GASKET PART OF KIT P/W 31766-1....	1	
					UOC:NB4,NB5,NB6		
8	PA0ZZ		71895	970NE1UPPH	..NOZZLE,STATOR.....	1	
					UOC:NB4,NB5,NB6		
9	KA0ZZ	5330-00-961-1463	55820	26793-1	..GASKET PART OF KIT P/W 31766-1....	1	
					UOC:NB4,NB5,NB6		
	PA0ZZ		55820	31766-1	SEAL KIT,TURBINE.....	V	
					GASKET (1) 10-7		
					GASKET (1) 10-9		
					PACKING, PREFORMED (10) 10-5		

END OF FIGURE

10-1

**FIGURE 7. Example of kits breakdown option 1.**

## MIL-M-49502 (TM)

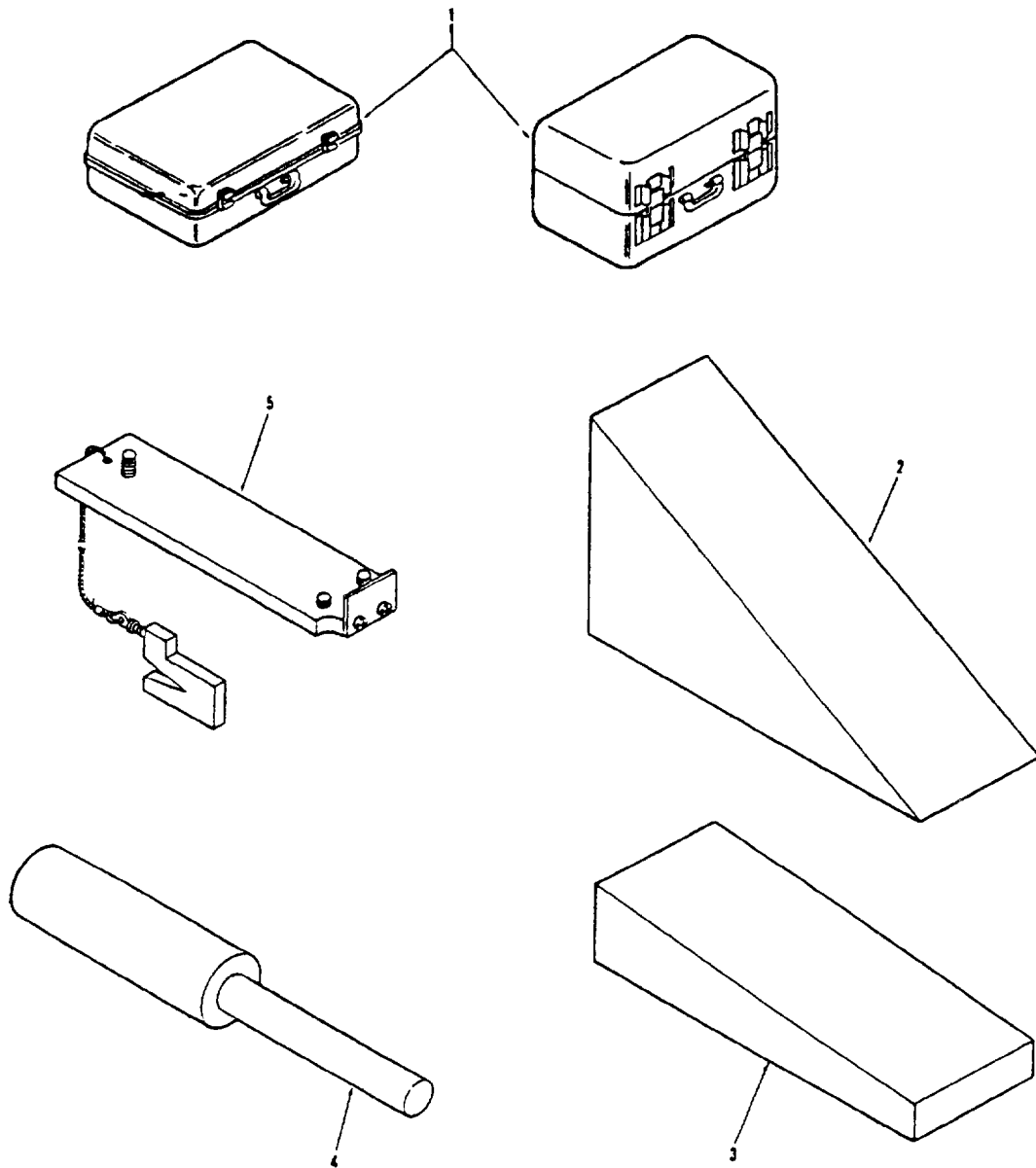
SECTION II		TM 9-2320-258-34P					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
ITEM	SNR			PART			
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODE(UOC)	QTY	
GROUP 94 REPAIR KITS							
GROUP 9401 REPAIR KITS							
FIG. KITS							
PA022	2540-00-255-0775	78385	G704528		PARTS KIT, HEATER, VE PERSONNEL	1	
					HEATER.....		
					BURNER ASSEMBLY ( 1) 252-6		
					SCREW, MACHINE ( 1) 252-8		
PA022	2540-00-255-0777	78385	G704529		PARTS KIT, HEATER, VE PERSONNEL	1	
					HEATER.....		
					SCREW, MACHINE ( 1) 252-8		
					VAPORIZER ( 1) 252-11		
					WASHER, FLAT ( 1) 252-9		
					WASHER, FIBRE ( 1) 252-10		
					WASHER FLAT ( 1) 252-12		
					WICK ( 1) 252-13		
PAFZZ	2990-01-065-7617	19207	12259821		MOUNT, ENGINE TO BE INSTALLED ONLY	1	
					AS A SET.....		
					CAP, ENGINE MOUNT ( 1) 1-14		
					MOUNT, ENGINE ( 1) 1-18		
PAFZZ	4320-01-133-4069	62983	421242L		PARTS KIT, HYDRAULIC.....	1	
					GASKET ( 1) 239-5		
					PACKING, PREFORMED ( 1) 239-4		
					PACKING, PREFORMED ( 1) 239-6		
					PACKING, SEAL ( 4) 239-8		
					PARTS KIT, ROTARY PU( 2) 239-9		
					PARTS KIT, ROTARY PU( 10) 239-10		
					PIN ( 20) 239-14		
					PLATE, INLET SUPPORT( 1) 239-13		
					PLATE, OUTLET SUPPOR( 1) 239-7		
					RETAINER, PACKING ( 1) 239-3		
					RING ( 1) 239-12		
					ROTOR ( 1) 239-11		
					SCREW ( 2) 239-15		
END OF FIGURE							

KIT-1

FIGURE 8. Example of kits breakdown option 2.

MIL-M-49502 (TM)

TM 11-1520-237-23P



ELSCN344

FIGURE 254. SPECIAL TOOLS LIST

FIGURE 9. Example of special tools illustration.

**MIL-N-49502 (TM)**

SECTION III			TM11-1520-237-23P			
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SNR			PART		
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODE(UOC)	QTY
GROUP 30 SPECIAL TOOLS LIST						
FIG. 254						
1	PE0DD	6625-01-169-5333	80058	TS-3920A/ASH	TEST SET,STABILIZAT (BOI: 1 AUTH PER 15 AIRCRAFT).....	
1	PE0DD	6625-01-266-1636	80058	TS-3920B/ASH	TEST SET,STABILIZAT (BOI: 1 AUTH PER 15 AIRCRAFT).....	
2	XB0ZZ		80063	A3012556	WEDGE,30/60/90 DEG. (BOI: 1 AUTH PER TEST SET).....	
3	XB0ZZ		80063	A3012557	WEDGE,05/85/90 DEG. (BOI: 1 AUTH PER TEST SET).....	
4	XB0ZZ		80063	A3012558	PIN,ALIGNMENT (BOI: 1 AUTH PER TEST SET).....	
5	XB0ZZ		80063	A3012559	FIXTURE,PROTRACTOR (BOI: 1 AUTH PER TEST SET).....	

END OF FIGURE

254-1

**FIGURE 10. Example of special tools list.**

## MIL-M-49502 (TM)

## SECTION IV

TM11-1520-237-23P

## CROSS-REFERENCE INDEXES

STOCK NUMBER		NATIONAL STOCK NUMBER INDEX		STOCK NUMBER	
FIG.	ITEM	FIG.	ITEM	FIG.	ITEM
5826-00-001-4074	115	9	5910-00-007-3974	157	6
5826-00-001-4077	115	20		163	12
5905-00-003-7717	217	40		164	15
5920-00-004-0274	217	15	5910-00-007-3975	217	6
5905-00-004-6078	246	28	5962-00-007-4079	8	1
5935-00-004-6257	72	1		157	1
	72	3		163	1
	74	1		164	1
	74	4		225	60
	76	1		226	64
	76	4		245	33
	78	1		246	46
	78	4		247	28
	80	1	5905-00-008-6886	157	37
	80	7	5905-00-008-6888	157	27
	80	10		163	33
	80	12	5905-00-008-8318	207	31
	84	1	5905-00-009-2997	226	19
	84	3	5905-00-009-3035	245	20
	84	7		246	33
	84	8	5905-00-009-4474	246	18
	86	15	5905-00-009-6408	207	25
	123	3	5910-00-009-6733	203	11
	123	6		204	5
	123	7		205	5
	123	9		206	12
	175	4		207	14
	175	7	5910-00-009-6745	209	3
	183	1		210	19
	185	1		217	12
5905-00-005-2497	163	55	5910-00-009-8105	203	10
	164	23		204	4
5905-00-005-2880	226	36		205	4
5905-00-005-2901	37	25		206	10
5905-00-005-2902	156	22		207	13
	163	38		208	11
5905-00-006-5495	246	9	5910-00-010-8666	157	10
5905-00-006-5497	246	32		163	14
5905-00-006-5571	37	45		206	9
	164	46	5910-00-010-8717	37	10
5961-00-006-9054	208	17		38	6
	217	22		156	4
5905-00-007-1903	245	18		206	11
	247	23		207	12
5910-00-007-2002	156	9		208	12
	164	13		217	3
5910-00-007-2003	8	4	5910-00-010-8721	30	36
	156	11		207	11
	216	7		210	21
5910-00-007-3973	225	9		217	10

I-1

FIGURE 11. Example of national stock number index.

## MIL-M-49502 (TM)

## SECTION IV

TM11-7021-212-23P

## CROSS-REFERENCE INDEXES

## PART NUMBER INDEX

PART NUMBER	FIG.	ITEM	PART NUMBER	FIG.	ITEM
AN960C10L	12	20	I/O-100-00000	21	3
AN960C4L	8	11		22	5
	9	44		23	3
	12	24		24	2
	17	28		25	2
AN960C416L	8	89		26	2
AN960C516L	8	66	JANTX1N1206A	12	1
AN960C6	8	74		14	3
	13	5	JANTX1N4102-1	10	89
AN960C6L	27	6	JANTX1N4106-1	14	98
AN960C616	27	22	JANTX1N4109-1	9	31
AN960C8	8	41	JANTX1N4150-1	4	2
	11	10		8	77
AN960C816	17	9		9	4
A373-95	8	84		10	1
A373-96	12	15		14	2
B3-14	17	12		28	1
CA4342	27	23	JANTX1N4572A-1	10	86
CA4440-4	16	54	JANTX1N4626-1	10	90
CD2-Z147-1	16	44		28	8
CKR05BX102M	10	7	JANTX1N4627	10	85
CMR05F201JPDR	14	16	JANTX1N4627-1	14	99
DB-3	16	65	JANTX1N5419	9	1
DBM5W5P	15	17		12	2
	31	11	JANTX1N5420	10	3
	32	2		14	4
DBM5W5S	8	29	JANTX1N5645A	9	30
	31	3	JANTX1N5656A	10	87
DB50906-1	8	28	JANTX1N5806	10	2
	15	18	JANTX1N5811	9	3
	31	5		14	1
	32	4	JANTX1N6075	9	2
DDM50PE	10	27	JANTX1N647-1	4	1
DM53744-21	8	32	JANTX2N2219A	28	5
DM53744-24	31	2	JANTX2N2222A	10	29
DM53744-25	31	1		14	31
DM53745-25	15	16	JANTX2N2369A	10	30
	31	10	JANTX2N2907A	10	28
DM53745-27	15	15		14	34
	31	9	JANTX2N3421	10	31
DM53745-28	32	1	JANTX2N3507	9	11
DSC7900-10-C-6	8	19	JANTX2N3737	9	12
EP15160X	10	81	JANTX2N3868	9	13
EP162996	10	80	JANTX2N6352	9	10
	14	91	JANTX2N6764	14	32
FM08A125V2A	30	17		15	5
FT049B02	15	41	JANTX2N6770	14	33
	28	3	JANTX2N683	8	83
HW42-04	9	43	JTXM19500/51902	17	6
H4734-13-SSW2-75	16	72	JTXM19500/52002	17	24
I/O-100-00000	20	2	JTXM19500/52102	17	5

I-10

FIGURE 12. Example of part number index.

## MIL-M-49502 (TM)

## SECTION IV

TM 9-XXXX-XXX-34P

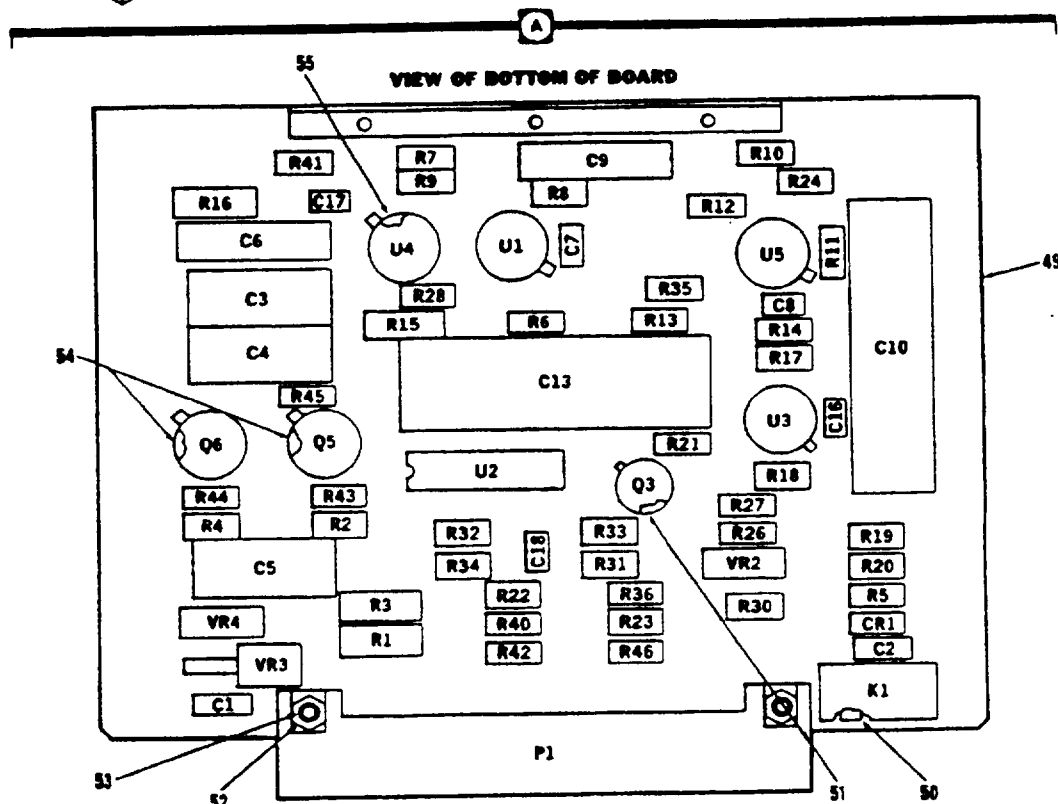
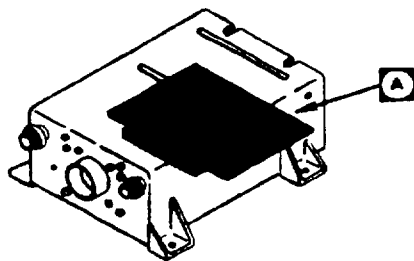
## CROSS-REFERENCE INDEXES

## REFERENCE DESIGNATOR INDEX

REFERENCE DESIGNATOR	FIG.	ITEM	REFERENCE DESIGNATOR	FIG.	ITEM
S1	1	15	2A1A4	70	8
W2	1	3	2A1A6	70	9
2AT1	2	309	2A1A7	70	9
2AT10	2	552	2A1A8	70	10
2AT11	2	699	2A1A9	70	11
2AT12	2	699	2A1DL1	70	25
2AT13	2	479	2A1DL2	70	25
2AT14	2	479	2A1DL3	70	25
2AT2	2	309	2A1DL4	70	25
2AT3	2	558	2A1DL5	70	25
2AT4	2	564	2A1DL6	70	25
2AT5	2	705	2A1J20	71	27
2AT5	2	479	2A1J25	71	36
2AT6	2	494	2A1J29	71	34
2AT7	2	675	2A1W10	71	46
2AT8	2	624	2A1W12	71	44
2AT9	2	552	2A1W14	71	45
2A1	2	489	2A1W30	70	31
2A1AT2	71	30	2A1W31	70	29
2A1AT3	71	33	2A1W32	70	30
2A1A1	70	6	2A1W33	70	28
2A1A10	70	6	2A1W34	70	26
2A1A11	70	12	2A1W35	70	27
2A1A13	70	13	2A1W36	70	35
2A1A14	70	14	2A10	2	590
2A1A15	70	14	2A10A1	80	2
2A1A16	70	15	2A10A10	80	2
2A1A17	70	16	2A10A11	80	3
2A1A18	70	13	2A10A13	80	4
2A1A19	70	14	2A10A14	80	2
2A1A20	70	14	2A10A15	80	5
2A1A21	70	15	2A10A3	80	2
2A1A22	70	16	2A10A5	80	2
2A1A23	70	17	2A10A7	80	2
2A1A24	70	13	2A10A9	80	2
2A1A25	70	14	2A100	3	186
2A1A26	70	14	2A100CB1	18	15
2A1A27	70	15	2A100CB2	18	37
2A1A28	70	16	2A100CB3	18	37
2A1A29	70	18	2A100CB4	18	37
2A1A3	70	7	2A100CB5	18	38
2A1A30	70	19	2A100CB6	18	6
2A1A31	70	20	2A100CR1	18	40
2A1A32	70	21	2A100CR10	18	40
2A1A33	70	22	2A100CR11	18	40
2A1A34	71	50	2A100CR12	18	40

FIGURE 13. Example of reference designator index.

## MIL-M-49502 (TM)



## LEGEND

REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.
CR1	1	C9	8	Q5	16	R8	23
C1	2	C10	9	Q6	17	R9	24
C2	3	C13	10	R1	18	R10	25
C3	4	C16	11	R2	19	R11	26
C4	4	C17	11	R3	18	R12	26
C5	5	C18	12	R4	19	R13	27
C6	6	K1	13	R5	20	R14	27
C7	7	P1	14	R6	21	R15	28
C8	7	Q3	15	R7	22	R16	29

REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.
R17	30	R27	37	R40	21	U3	45
R18	19	R28	38	R41	21	U4	45
R19	30	R30	39	R42	21	U5	43
R20	31	R31	40	R43	42	VR2	46
R21	32	R32	40	R44	42	VR3	47
R22	33	R33	41	R45	42	VR4	48
R23	34	R34	41	R46	38		
R24	35	R35	27	U1	43		
R26	36	R36	21	U2	44		

NOTE: PREFIX ALL REFERENCE DESIGNATIONS WITH A2

ELC-0321

FIGURE 14. Example of a legend.

**MIL-M-49502 (TM)**

SECTION II		TM9-2320-280-20P C01				
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SMR			PART		
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODE(UOC)	QTY
GROUP 5241 AIR CONDITIONING COMPONENTS						
FIG. 204C A/C EVAPORATOR AND MOUNTING						
HARDWARE M997 AMBULANCE						
13	PA02Z		24234	201683	SCREW, HEXAGON EVAPORATOR COIL, 1/4-20..	5
					UOC: N15	
18	PA02Z		24234	290249	CLAMP, CUSHIONED COIL TUBE.....	3
					UOC: N15	
23	PFO2Z		24234	405695	NOSE, DRAIN.....	1
					UOC: N15	
24	PFO2Z		24234	360450	PIPE ADAPTER, PVC.....	1
					UOC: N15	
25	PFO2Z		24234	290227	CLAMP, SPRING DRAIN NOSE.....	1
					UOC: N15	
26	PA02Z		24234	200335	SCREW, SELF-TAPPING COIL SUPPORT BRKT..	4
					UOC: N15	
27	PFO2Z		24234	204531	SPACER, COIL SUPPORT BRKT.....	2
					UOC: N15	
28	PFO2Z		24234	513438	BRACKET, COIL SUPPORT.....	2
					UOC: N15	

END OF FIGURE

204C-1(204C-2 BLANK)

**FIGURE 15. Example of inserted figure.**

## MIL-M-49502 (TM)

SECTION II		TM 3-4240-300-20&P				
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SMR			PART		
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE DN CODE(UDC)	QTY
GROUP 00: CHEMICAL BIOLOGICAL MASK: FIELD M40 AND COMBAT VEHICLE M42						
FIG. C-1. CHEMICAL BIOLOGICAL MASK						
1	XA0DD		81361	5-1-1001-10	FACEPIECE ASSEMBLY UDC:R88.....	1
1	XA0DD		81361	5-1-1001-20	FACEPIECE ASSEMBLY UDC:88A.....	1
1	XA0DD		81361	5-1-1001-30	FACEPIECE ASSEMBLY UDC:888.....	1
2	XA0DD		81361	5-1-1534-10	FACEPIECE ASSEMBLY UDC:R90.....	1
2	XA0DD		81361	5-1-1534-20	FACEPIECE ASSEMBLY UDC:90A.....	1
2	XA0DD		81361	5-1-1534-30	FACEPIECE ASSEMBLY UDC:90B.....	1
3	PA0ZZ	5995-01-276-0939	80063	SM-C-963194	CABLE ASSEMBLY,M42 UDC:R90,90A,90B.....	1
4	PA0ZZ	4240-01-260-8706	81361	5-1-1545-20	OUTSERTS,NEUTRAL.....	1
5	PA0ZZ	4240-01-260-8707	81361	5-1-1545-10	OUTSERTS,CLEAR.....	1
6	PA0ZZ	4240-01-260-8698	81361	5-1-1005	CARRIER,MASK,CHEMICAL BIOLOGICAL..	1
7	PA0ZZ	4240-01-119-2315	81361	05-3-1500	CANISTER,CHEMICAL BIOLOGICAL UDC:R88,R90,88A,88B,90A,90B.....	1
8	PA000	4240-01-260-8704	81361	5-1-1536	CARRIER,CANISTER UDC:R90,90A,90B.....	1
9	PA0ZZ	4240-00-377-9401	81349	MILB51170	BAG,WATERPROOF.....	1
10	PA0ZZ	4240-01-260-8723	81361	5-1-1002	HOOD,CHEMICAL BIOLOGICAL.....	1
11	PA0ZZ	4240-01-260-8697	81361	5-1-1003	FACEFORM,PACKAGING.....	1

END OF FIGURE

C-1-1

FIGURE 16. Example of page numbering for appendix RPSTL.

## MIL-M-49502 (TM)

SECTION 11		TM X-XXXX-XXX-XXP C01				
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ITEM	SNR			PART		
NO.	CODE	NSN	CAGEC	NUMBER	DESCRIPTION AND USABLE ON CODE(UDC)	QTY
GROUP 01 MAST ASSEMBLY						
FIG.1 MAST ASSEMBLY WITH WIRING						
1	PA02Z	5340-01-159-6682	84256	BLC8R13D	PIN,QUICK RELEASE MAIN MAST.....	2
2	PA02Z	5310-01-123-0505	U2736	52-04-12	NUT,SELF-LOCKING,NE AEROTIGHT	4
					M12, 12MM.....	
3	PA02Z	5310-00-809-5997	96906	M627183-17	WASHER,FLAT.....	16
4	PA02Z	5306-01-124-1075	U2736	56-45-12	BOLT,MACHINE M12,12MM DIA,45MM LG.	2
5	PA02Z	5305-01-123-0535	U2736	57-30-12	SCREW,CAP,HEXAGON H FULL THREAD	4
					M12, 12MM.....	
6	PB00F	2020-01-120-4492	U2736	35-03	MAST,TOP ASSEMBLY WITH WIRING.....	1
* 6A	PB02Z		U2736	50-03	WIRING KIT,TOP MAST ASSY.....	1
					UDC:DLF	
7	PA02Z	5340-01-155-7844	84256	BLC4R10D	.PIN,QUICK RELEASE.....	1
8	PA02Z	5310-01-121-5397	U2736	52-04-06	.NUT,SELF-LOCKING,NE AEROTIGHT,M6	1
					6MM.....	
9	PA02Z	5310-00-823-8804	96906	M627183-9	.WASHER,FLAT.....	2
10	PA02Z	5305-01-124-1194	U2736	57-25-06	.SCREW,CAP,HEXAGON H FULL THREAD	1
					M6,6MM DIA,25MM LG.....	
11	PA02Z	2020-01-170-6912	97403	13226E0231	.MAST SECTION.....	1
12	XB02Z		U2736	35-01	.MAST,TOP.....	1
13	PB00F	2020-01-120-4493	U2376	34-01	MAST,MAIN ASSEMBLY WITH WIRING....	1
* 13A	PB02Z		U2736	50-04	WIRING KIT,MAIN MAST ASSY.....	1
					UDC:DLF	
14	PA02Z	5310-01-121-5396	U2736	52-04-10	NUT,SELF-LOCKING,NE.....	16
15	PA02Z	5310-00-809-4061	96096	M627183-15	WASHER,FLAT.....	32
16	PA02Z	5305-01-123-0536	U2736	57-20-10	SCREW,CAP,HEXAGON H FULL THREAD	16
					M10,10MM,LENGTH 20MM.....	
17	XB02Z		U2736	34-15-01	LUG,HINGE.....	8

END OF FIGURE

1-1

FIGURE 17. Example of asterisks.

MIL-M-49502 (TM)

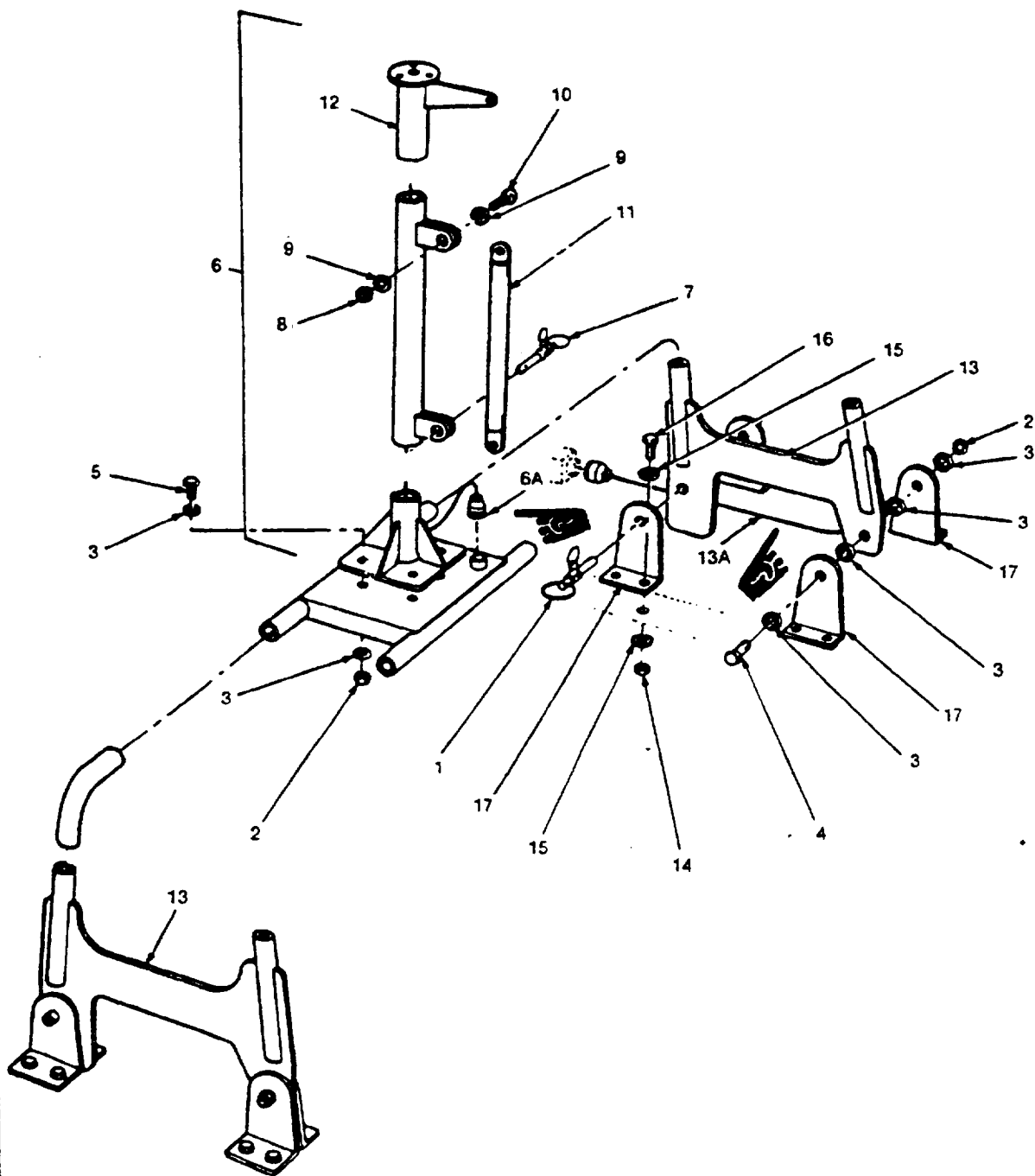


FIGURE 1 MAST ASSEMBLY WITH WIRING

FIGURE 18. Example of change symbol.

MTY-M-ABEC2/TM\

CHANGE )  
 )  
 No. 1 )

TM 5-1940-277-20P  
 TM 1940-20P/4  
 C01

ARTMENT OF THE ARMY  
 U.S. MARINE CORPS  
 7 March 1989

ts

NSN 1940-01-105-5728

MODEL USCSBMK2  
 NSN 1940-01-218-9165

TM 5-1940-277-20P/TM1940-20P/4, 30 March 1987, is changed to reflect corrections and the addition of required data.

1. Remove and insert pages as indicated below. The asterisk (\*) to the left of the ITEM NO. column adjacent to the line item indicates the current change. An illustration change is indicated by a miniature pointing hand.

## Remove pages

Figure 1  
 1-1 and Figure 2  
 2-1 and Figure 3  
 5-1 and 5-2  
 7-1 and Figure 8  
 10-1 and Figure 11  
 13-1 and Figure 14  
 18-1  
 Figure 19 (Sheets 1&2)  
 30-1 and 30-2  
 30A-1  
 31A-1 and 31A-2  
 31A-3 and Figure 32  
 39-1

## Insert pages

Figure 1  
 1-1 and Figure 2  
 2-1 and Figure 3  
 5-1 and 5-2  
 7-1 and Figure 8  
 10-1 and Figure 11  
 13-1 and Figure 14  
 18-1  
 Figure 19 (Sheets 1&2)  
 30-1 and 30-2  
 30A-1  
 31A-1 and 31A-2  
 31A-3 and Figure 32  
 39-1

2. File this change sheet in front of the publication for reference purposes.

FIGURE 19. Example of change instruction sheet (sheet 1 of 2).

**MIL-M-49502 (TM)**

**TM 6-1840-277-20P**  
**TM 1840-20P/4**  
**C 1**

**By Order of the Secretary of the Army and the Navy**  
**(including the Marine Corps).**

**CARL E. VUONO**  
**General, United States Army**  
**Chief of Staff**

**Official:**  
**THOMAS F. SIKORA**  
**Brigadier General, United States Army**  
**The Adjutant General**

**J.P. JONES, JR.**  
**Rear Admiral, OEC, US Navy**  
**Commander**  
**Naval Facilities Engineering Command**

**H.E. REESE**  
**Executive Director**  
**Marine Corps Research, Development and**  
**Acquisition Command**

**DISTRIBUTION:**

**To be distributed in accordance with DA Form 12-25A, Unit**  
**Maintenance Requirements for Boat, Bridge Erection, Twin**  
**Jet, Aluminum USC&MK-1.**

**FIGURE 19. Example of change instruction sheet (sheet 2 of 2).**

**MIL-M-49502(TM)****APPENDIX A****CONTENT/FORMAT SELECTION SUMMARY  
FOR REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)****10. SCOPE.**

**10.1 Scope.** This appendix is to be used by the contracting activity to specify which optional requirements of this specification are to be contractually imposed. This appendix is a mandatory part of this specification and is intended for compliance.

**10.2 Application.** This appendix is intended to be copied/reproduced, completed, signed, and become a part of the Technical Manual Contract Document Summary List for solicitation/contract application.

**10.3 Limitation.** A separate Content/Format Selection Summary is required for each separate RPSTL when a RPSTL is required at different maintenance levels or presented in a different form (i.e., separate manual or appendix to a narrative or a DMWR manual) on the same contract.

**10.4 Explanation of columns-content/format selection summary.**

- a. Column (1), (Requirement) - identifies the requirement.
- b. Column (2), (Applicable Paragraph Number) - identifies paragraph where the requirement shown in column (1) is described.
- c. Column (3), subcolumn (a), Requirement Selected - (yes) - is marked with "X" if the requirement shown in column (1) applies.
- d. Column (3), subcolumn (b), Requirement Selected - (no) - is marked with an "X" if the requirement shown in column (1) does not apply.
- e. Column (3), subcolumn (c). (Explanation/Remarks) - is used when a yes or no alone is not adequate to completely identify the requirement. If necessary, additional explanations or information may be provided on a separate sheet(s) of paper and attached to this summary list when completed.

**MIL-M-49502 (TM)**

10.5 Tailoring requirements. Each requirement listed on the content selection summary must be marked yes or no, and an explanation or remarks should be added, as necessary, to assure that the selected requirements are adequately identified. Reference to the contract statement of work or contract documents containing applicable information may be made in the explanation/remarks column.

20. APPLICABLE DOCUMENTS. This section is not applicable to this appendix.

**MIL-M-49502 (TM)****APPENDIX B****CONTENT/FORMAT SELECTION SUMMARY - RPSTL**

Equipment name/nomenclature \_\_\_\_\_

(1)	(2)	(3)		
		(a)	(b)	(c)
Requirement	Applicable Paragraph Number	Requirement Selected (Yes)	Requirement Selected (No)	Explanation/Remarks
RPSTL TM	1.2, 3.2a			
APPENDIX, COMB/NARRATIVE	1.2, 3.2b			
APPENDIX DMWR	1.2, 3.2c			
MAINTENANCE LEVEL	1.2, 3.1			
SECT I INTRODUCTION	3.3.1.2			
APPLICABLE INTRODUCTION	3.3.1.2			
FIG TITLE WITH ASSY NUMBER & SMR CODE	3.3.1.3.1			
INDENTIONS	3.3.1.3.7c			
KITS OPTION I	3.3.1.3.7h			
KITS OPTION II	3.3.1.3.7h			
REF. DES. INDEX	3.3.1.5.3			
LINE DRAWINGS	3.3.1.8			
ILLUS. IDENT. NUMBERS	3.3.1.8.1			
EXPLODED VIEWS	3.3.1.8.3			

## MIL-M-49502 (TM)

## APPENDIX B

## CONTENT/FORMAT SELECTION SUMMARY-RPSTL - Continued

Equipment name/nomenclature \_\_\_\_\_

(1)	(2)	(3)		
		(a)	(b)	(c)
Requirement	Applicable Paragraph Number	Requirement selected (Yes)	(No)	Explanation/Remarks
ITEMS NUMBERED CW	3.3.1.8.3			
ELECTRONIC ITEMS EXPLODED VIEWS	3.3.1.8.4			
LEGENDS	3.3.1.8.4a			
FGC NOMENCLATURE	3.3.1.8.6			
ILLUS. AND PARTS LIST ON SAME PAGE	3.3.1.8.9			
MULTI-SHEET ILLUSTRATIONS	3.3.1.8.12			
FIGURE AND ITEM NUMBERING	3.3.1.8.14			
HORIZONTAL FORMAT	3.3.1.9			
ASTERISK IN P/L	3.3.1.13.1			
CHANGE SYMBOLS	3.3.1.13.2			
GOV'T FURN. DATA	3.3.3			

NOTE: The above selected requirements, identified by an "X" in the Requirement Selected column 3, subcolumn (a) or (b), with an explanation in the Explanation/Remarks subcolumn 3(c) are a mandatory part of this contract.

Completed by: \_\_\_\_\_  
(authorized signature)

Publications Activity: \_\_\_\_\_ Date \_\_\_\_\_

## MIL-M-49502 (TM)

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**MIL-M-49502(TM)**

**Custodian: Army - TM**

**Review Activities: Army - AL, AR, AT, AV, CR, EA, ME, MI, SC**

**User Activities: Army - MD**

**Preparing Activity: Army - TM**

**Project Number TMSS A239**

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Commander  
USAMC Materiel Readiness Support Activity  
ATTN: AMXMD-MP  
Lexington, KY 40511-5101

# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

## INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

<b>I RECOMMEND A CHANGE:</b>		1. DOCUMENT NUMBER MIL-M-49502 (TM)	2. DOCUMENT DATE (YYMMDD) 90 XX XX
3. DOCUMENT TITLE REPAIR PARTS AND SPECIAL TOOLS LIST			
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)			
5. REASON FOR RECOMMENDATION			
6. SUBMITTER			
a. NAME (Last, First, Middle Initial)		b. ORGANIZATION	
c. ADDRESS (Include Zip Code)		d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (If applicable)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY			
a. NAME USAMC MATERIEL READINESS SUPPORT ACTIVITY		b. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (606) 293-3469 DSN 745-3469	
c. ADDRESS (Include Zip Code) ATTN: AMXMD-MP LEXINGTON, KY 40511-5101		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	