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MILITARY STANDARD

MANUALS, TECHNICAL :
REPAIR PARTS AND SPECIAL TOOLS LIST

AMSC NO. A3343

TMSS

DEPARTMENT OF DEFENSE

Washington, DC 20360

Manuals, Technical: Repair Parts and Special Tools List

MIL-STD-335(TM)

1. This Military Standard 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.

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

FOREWORD

1. In furtherance of the Defense Standardization Program, it is essential that clear and consise direction for the preparation of repair parts and special tools lists be readily available to all concerned.

2. This standard supersedes MIL-M-63001F(TM), 1 October 1981. This supersedure is necessary because of the redesign of the Repair Parts and Special Tools List (RPSTL) and the RPSTL change portion of Provisioning Master Record (PMR) in the Commodity Command Standard System, "Release 67." The PMR redesign provides the capability of automated extraction of a total RPSTL revision or RPSTL change workfile/draft, including an error condition review list. It provides the capability to prepare a RPSTL/RPSTL change proof as well as the capability of developing alternate maintenance level RPSTL'S from the same work file.

3. The primary change in requirements reflected in this supersedure is the elimination of three columns from the tabular listings; (i.e., Illustration/Fig No., National Stock Number, and Unit of Measure).

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1. SCOPE

1.1 Scope. This standard contains the detail requirements for preparing Repair Parts and Special Tools List (RPSTL).

1.2 Application. This standard is applicable to RPSTL technical manuals, appendix RPSTL's for combined maintenance (narrative) manuals, and apppendix RPSTL's for depot maintenance work requirements (DMWR) manuals. Applicable maintenance levels are as follows:

Type -20P or Type -20&P	Organizational or Aviation Unit Maintenance Repair Parts and Special Tools List
Type -30P or Type -30&P	Direct Support or Aviation Intermediate Maintenance Repair Parts and Special Tools List
Type -40P or Type -40&P	General Support Maintenance Repair Parts and Special Tools List
Type -12P or Type -12&P	Operator's and Organizational or Aviation Unit Maintenance Repair Parts and Special Tools List
Type -13P or Type -13&P	Operator's Organizational or Aviation Unit, and Direct Support or Aviation Intermediate Maintenance Repair Parts and Special Tools List
Type -14P or Type -14&P	Operator's, Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List
Type -23P or Type -23&P	Organizational or Aviation Unit and Direct Support or Aviation Intermediate Maintenance Repair Parts and Special Tools List
Type -24P or Type -24&P	Organizational, Direct Support, and General Support Maintenance Repair Parts and Special Tools List
Type -34P or Type 34&P	Direct Support and General Support Maintenance Repair Parts and Special Tools List
DMWR APPENDIX B	Depot Maintenance Work Requirements Including Repair Parts and Special Tools List

1.3 Limitations. This standard does not apply to RPSTL's covering DOD Standard Generator Sets. (Refer to MIL-M-63010.)

2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. Unless otherwise specified (see 6.2), the following specifications and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation, form a part of this standard to the extent specified herein.

SPECIFICATIONS

Military

MIL-M-38784	Manuals, Technical: General Style and Format Requirements
MIL-M-63036	Manuals, Technical: Operator's Preparation of
MIL-M-63038	Manuals, Technical: Organizational or Aviation Unit, Direct Support or Aviation Intermediate and General Support Maintenance

STANDARDS

Military

MIL-STD-12	Abbreviations for use on Drawings, and in Specifications, Standards, and Technical Documents
MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes

(Copies of specifications and standards required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

2.1.2 Other Government documents, drawings, and publications. The following other Government documents form a part of this standard to the extent specified herein.

HANDBOOKS

H4-1	Cataloging Handbook: Federal Supply Code of Manufacturers (United States and Canada) - Name to Code
H4-2	Cataloging Handbook: Federal Supply Code of Manufacturers (United States and Canada) - Code to Name

(Application for copies should be addressed to the Superintendent of Documents, US Government Printing Office, Washington, DC 20402.)

2.1.3 Order of precedence. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.

3. DEFINITIONS

3.1 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 spare/repair parts.

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

3.3 Bulk material. Material issued in bulk for manufacture/fabrication of support items (e.g., sheet metal, pipe tubing, bar stock, or gasket material). Excludes expendable supplies and materials (see 3.8).

3.4 Complete part number. Consists of the Federal supply code of manufacturers (FSCM) and part number; used for requisition processing. The FSCM is entered on a requisition form first, followed by the part number.

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

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

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

3.8 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.

3.9 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/subassemblies are coded to relate back to the basic (top position) FGC in a sequential next higher assembly relationships (i.e., top-down breakdown structure).

3.10 Limited repair. Scope of corrective repair authorized to be performed by a level of maintenance lower than the level authorized complete repair.

3.11 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.

3.12 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/assembly procedures, or other maintenance activities.

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

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

3.15 Spare part. Any reparable and recoverable component required for the maintenance or repair of an end item/equipment (will have a Recoverability Code other than "Z" and will be assigned an FGC/subfunctional group code in the MAC).

3.16 Special tools. Those support items that have single or peculiar application to a specific end item/system. 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.

3.17 Stacked format. This format option allows illustrations/figures to be stacked (grouped together) rather than being placed on the same page or on pages facing the applicable parts/tools list. Stacked figures may be sequentially arranged within the same section of the RPSTL as the parts/tools list, or they may be sequentially arranged in a separate section. When this option is selected by the acquiring activity, Section I is modified to explain the option used.

3.18 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 group is identified. All nonreparables (spare parts) can be identified in like manner to establish their NHA relationships.

3.19 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.

3.20 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.

4. GENERAL STATEMENTS OF REQUIREMENTS-NOT APPLICABLE

5. DETAILED STATEMENTS OF REQUIREMENTS

5.1 General. Repair parts and special tools list (RPSTL) shall be prepared in accordance with the format and content requirements specified herein. DI-M-1517 applies to these requirements. All requirements herein are mandatory except for optional requirements which are identified by the clause "when specified by the acquiring activity." Optional requirements become mandatory when they are selected/specified by the acquiring activity on the Content/Format Selection Summary, Appendix B, (which is a mandatory part of this standard). The RPSTL maintenance level(s) shall be as selected from 1.2 and as specified on the completed Content/Format Selection Summary. 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 (e.g., if an organizational (-20) RPSTL is published, a general/direct support (-34) RPSTL shall include organizational, direct, and general support data).

5.1.1 Format. The general style and format for RPSTL shall be as prescribed in MIL-M-38784. The applicability of RPSTL shall be as specified on the completed Content/Format Selection Summary, Appendix B, as one of the following:

a. Separate RPSTL technical manual.

b. Appendix to combined (narrative) technical manual.

c. Appendix to depot maintenance work requirements.

5.1.2 Content. RPSTL shall consist of:

a. Front matter.

b. Introduction.

c. Illustrations of repair and spare parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required to operate and maintain an item of equipment or system.

d. Tabular lists of illustrated items listed in c above.

e. National stock number and part number index.

5.1.2.1 Front matter.

5.1.2.1.1. RPSTL TM. Front matter for RPSTL TM's shall consist of a title/title block page and a table of contents.

a. Title page. The title page shall be a right hand page and shall consist of data shown on example, figure 1. Applicable TM designation, maintenance level, name of equipment, and "current as of" date shall be inserted. When depot level repair parts are included in lower level RPSTL, the following statement shall be added to that RPSTL title: "(Including Depot Maintenance Repair Parts)." Address of proponent shall be inserted in the Reporting Errors and Recommending Improvements block.

b. Table of contents. This table 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) Each figure title and each figure parts list title shall appear below their section title and shall be listed in the order in which they appear in the RPSTL. Each title listed shall reference the first page on which it appears.

(3) All FGC's listed in the Maintenance Allocation Chart (MAC) that are selected spares and applicable to the maintenance level of the RPSTL shall be listed in the table of contents.

(4) Only the figure (same as FG titles) applicable to the maintenance level(s) for which the RPSTL is prepared shall be listed in consecutive ascending alphanumeric sequence.

(5) In a multivolume RPSTL, each volume in the series shall have it's own Table of Contents and shall reference the companion volume(s).

c. Page numbering - Front matter. The title page shall not be numbered. Front matter pages shall be numbered consecutively by lower case Roman numerals, beginning with ii on the back of the title/table of contents page.

5.1.2.1.2 Appendix RPSTL's. The first page of an appendix RPSTL shall be a right hand page and shall be the first page of Section I, Introduction. The word "APPENDIX" shall be centered at the top of the page above the appropriate appendix title. When depot level repair parts are included in a RPSTL, covering repair parts for a maintenance level below depot level, the following statement shall be added to the RPSTL title: (Including Depot Maintenance Repair Parts). The publication number (TM designator) shall be at the top outer edge of the page. The "Current as of" (date), the "Reporting Errors and Recommending Improvements" block, and the Table of contents shall not be located on this page but shall be on the title page of combined narrative/DMWR portion of the manual. However, the table of contents shall be complete and meet the same requirements specified in 5.1.2.1.1b above. Appendix page numbers shall be arabic numerals preceded by the letter of the appendix (e.g., B-1, B-2, B-3, C-1.) (See figure 2 and 3).

5.1.2.2 Section I - Introduction. Section I shall contain all the paragraphs listed on the applicable introduction content list (Table I) specified by the acquiring activity. Applicable content shall be formated as presented in figure 4. Source, maintenance, and recoverability (SMR) codes, para 3b, Table 1, shall always be an applicable requirement.

5.1.2.2.1 Non-applicable data. When paragrapns listed in the applicable introduction content list do not apply, the paragraph headings shall be listed and followed with the phrase, "Not applicable."

5.1.2.2.2 Special information. Applicable special information (listed in table I and as shown in figure 4) shall be adapted and included. In addition to information contained in figure 4, all information pertaining to peculiarities of the RPSTL (such as options selected) or equipment/component combinations shall be included in this paragrpah.

5.1.2.2.3 Abbreviations. Abbreviations (item 7, Table I) used in the RPSTL, which are not commonly used by the acquiring activity, shall be listed alphabetically and explained. Abbreviations used shall be in accordance with MIL-STD-12.

5.1.2.2.4 Page numbering - Section I. Pages in Section I shall be numbered consecutively by Arabic numerals (1, 2, 3, 4, etc.) beginning with "1" and appropriate alpha prefix if appendix RPSTL, except when Section I begins on the first page of the RPSTL; then page numbering will begin with page "2". The title page shall not be numbered. See 5.1.2.1.2 (Appendix RPSTL's).

5.1.2.3 Section II - Repair parts list. This section shall consist of illustrations/figures and their associated repair parts listings except when the acquiring activity options to use the stacked format (see 5.1.2.9). The associated illustrations/figures shall then appear consecutively in Section II or in Section IV, as determined by the acquiring activity. Illustrations/ figures shall conform to requirements of 5.1.2.6.

5.1.2.3.1 Functional group code division. This section shall be subdivided by functional and sub-functional groups by the same FGC sequence established in the MAC. All functional groups listed in the MAC, applicable to the maintenance level of the RPSTL, shall be included.

5.1.2.3.2 Figure/item number sequence. Items shall be listed on the repair parts list by the same item number called out on the associated illustration/figure. The figure item numbers shall be in ascending numeric sequence. Illustration/figure numbers shall be in ascending alphanumeric sequence for functional groups coded for the lower maintenance level when more than one level is covered in the RPSTL.

5.1.2.3.3 Non consecutive item numbers. When illustrations contain item call outs 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 numeric sequence.

5.1.2.3.4 FSCM/part number. The applicable five digit federal supply code of manufacturers (FSCM) number, as listed in Cataloy Handbook H4-1 an H4-2, shall appear in the FSCM column preceeding the part number listed in the PART NUMBER column.

5.1.2.3.5 Description. Items shall be listed in the DESCRIPTION AND USABLE ON CODE (UOC) column by Federal item name and when required, a minimum description shall follow the item name. Trailing dots (....) shall follow line item data in the DESCRIPTION AND USABLE ON CODE (UOC) column; however, trailing dots shall not follow usable on code(s). See figure 5.

5.1.2.3.6 Indentions. When specified by the acquiring activity, the item name listed in the DESCRIPTION AND USABLE ON CODE (UOC) column shall be indented to show the next higher assembly. See figure 5. Indentions shall not exceed five positions.

5.1.2.3.7 Quantity. The figure in the QTY column shall represent the number of times the item appears in the illustration/figure with the associated item number. When a definite quantity cannot be determined because the number of uses per equipment or size/length of an item may vary with each equipment, the letter V shall be placed in left position of the QTY column.

5.1.2.3.8 Usable on code (UOC). When an item has multimodel use, the assigned three-position alphanumeric UOC representing each model the item is used on shall appear on the last line of the DESCRIPTION AND USABLE ON CODE (UOC) column following the letters "UOC:" See figure 5. When the item is used on all models, covered by the RPSTL, usable on codes shall not be shown.

5.1.2.3.9 Serial number application. When part numbers of spare/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 (e.g., USBL EFF (ser. nos.)) shall be made in the DESCRIPTION AND USABLE ON CODE (UOC) column. See figure 6.

5.1.2.3.10 Assembled items. Spare and 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/parts shall be listed and indented immediately below the item to be assembled on the repair parts list. When a particular illustration does not show the parts breakdown of the non-stocked assembly, reference shall be made to the breakdown illustration in the RPSTL. See figure 7. Instructions, drawings, charts, and tables showing how to assemble assemblies source coded "A()" shall not appear in RPSTL's, but shall appear in narrative TM's.

5.1.2.3.11 Manufactured items. All items source coded "MO", "MF", "MH", 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) P/N (no.)." Bulk material, described in 3.3.3, used to make items shall also be shown in a separate functional group called "BULK MATERIAL" and figure title "FIG. BULK." Items in the Bulk figure shall be listed alphabetically by item name in the DESCRIPTION AND USABLE ON CODE (UOC) column. See figure 7. Numbers in the ITEM column of Bulk Materiel list apply to the FIG. BULK only and shall not be associated with item numbers (call outs appearing on the illustrations/figure). Instructions, drawings, charts, and tables required to show how items are made shall not be contained in the RPSTL, but are required in the narrative maintenance manual.

5.1.2.3.12 Kits and kit repair parts. Kits and kit repair parts shall conform to the format of either option 1 or option 2 (figure 8) as selected on the Content/Format Selection Summary List.

a. Option 1 (parts). Kit repair parts shall be listed with their applicable figure and appear in item number sequence. The statement "part of Kit P/N (enter kit PN)" shall follow item name. Kit repair parts shall also be listed under the kit listing at the end the parts list (figure 8, upper figure). Parts of the kit listing shall be indented and listed by basic item name immediately below the kit item name. The quantity (in parentheses), figure, and item number shall follow the repair part item name.

b. Option 1 (kits). Kits shall appear at the end of the associated parts list. At the option by the acquiring activity the ITEM NO column for kits shall be either left blank or list an alphabetical character(s). The Qty column for kits shall be a V (variable). See figure 8.

c. Option 2 (kits). Kit listings shall be in a separate functional group titled Repair Kits. This group shall be located in the parts list by consecutive sequential alphnumerical order. The kits in this group shall be assigned item numbers and appear in item number sequence. Parts listed in these kit groups shall not be assigned item numbers, but shall be indented two positions and listed under their applicable kit name. Parts item names shall be followed by a reference to the applicable figure and item numbers in the basic parts list. The QTY column for kits shall contain a V (variable).

d. Option 2 (parts). Kit repair parts shall be listed under their associated figure in item number sequence. See figure 8, option 2, upper figure. The statement "Part of Kit Group (enter kit group number, item number)" shall follow the item name.

5.1.2.3.13 Basic issue items (BII)/special tools. Repair parts for reparable BII or special tools that do not have separate TM's, 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 end item repair parts. BII and special tools reparable items shall be supported by illustrations which meet requirements of 5.1.2.6. For example see figure 9.

5.1.2.3.14 Depot/lower level. When both depot and lower level spare/repair parts are authorized on the same FGC/assembly, the depot coded parts shall be included in the RPSTL covering the next level below depot (e.g., in -34P, -24P

5.1.2.3.15 DMWR repair parts lists. This list (normally Appendix B) shall be published to support an end item or end item component/assembly, programed for depot maintenance, when replacement of spare/repair parts is authorized at depot level only.

a. D coded items only. DMWR repair parts lists shall contain only those spare/repair parts coded D in the third position of the SMR code.

b. Modules, printed circuits (PC), and components. When specified by the acquiring activity, a DMWR repair parts lists shall be published for items such as modules, PC's, and components which are coded for depot level repair only.

c. Content/format. DMWR RPSTL's shall contain the same basic columnar data required by 5.1.2.3.1 through 5.1.2.3.13, as applicable, and shall be formated the same as TM RPSTL's.

5.1.2.3.16 Expendable (durable) supplies and materials. Expendable (durable) supplies and materials shall not be lised in the RPSTL. (These items should appear in the applicable narrative manual).

5.1.2.3.17 Page numbering - Section II. Illustrations/figures pages in Section II shall be identified by the figure number which shall be part of the figure title and shall be placed at the bottom of the page. The sheet number and total number of sheets shall appear in parentheses immediately following the figure title on each sheet of multisheet illustrations/figures (e.g., Sheet 3 of 6). No other page identification is required for figure pages. The page numbers for the parts lists (text) shall be the same as the figure number at the head of the applicable parts list except; the figure number shall be followed by a dash (-) and a number. The numerical value of the number following the dash will identify the page sequence (i.e., page no. 132-1 is the first page of figure 132; page no. 132-4 is the fourth page of figure 132; etc.). These parts list page numbers shall be centered at the bottom of each page.

5.1.2.4 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 (STMDE), and other special support equipment authorized for use and maintenance of the end item/assembly covered by the RPSTL. These tools shall be illustrated and listed in the format shown in figure 10.

5.1.2.4.1 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.

5.1.2.4.2 Basis of issue (BOI). The last line entry(s) in the DESCRIPTION AND USABLE ON CODE (UOC) column for individual items or set/kit shall be the BOI. The BOI shall indicate the quantity of the item/set/kit authorized to support a quantity of end items/assembly(s) 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.

5.1.2.4.3 Special tools set/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.

5.1.2.4.4 Components listing. Components of special tools set/kits shall be listed in figure and item number sequence immediately following the set/kit entry. The line entry for the components shall be indented under the set/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 (e.g., qty 1 per set/kit).

5.1.2.4.5 D coded items. Special tools list items coded "D" in the third position of the SMR code shall not be listed in RPSTL's used by maintenance levels below depot. They shall be listed on the applicable DMWR RPSTL Special Tools List.

5.1.2.4.6 Page numbering - Section III. Pages in section III shall be numbered by figure number; the same method used for Section II (see 5.1.2.3.17), and shall be a continuation of page numbers of Section II.

5.1.2.5 Section IV - National stock number and part number index. This section shall consist of two cross-reference indexes: (1) the NATIONAL STOCK NUMBER (NSN) TO FIGURE NO. AND ITEM NO. INDEX; (2) the PART NUMBER (P/N) TO NSN, FIGURE NO., AND ITEM NO. INDEX. The NSN index shall be a double column index. The P/N index shall be a single column index. The title of each index shall be centered above the index, and the column headings and format shall be as shown in figure 11 and 12. The NSN index shall be placed ahead of the P/N index. The part number index shall begin on a new page.

5.1.2.5.1 National stock number index. This index shall list the complete NSN for all NSN's assigned to applicable items. However, the 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/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/item number identified by that NSN. When NSN references carry over to another page, the carried over NSN entry shall appear at the top of the list. See figure 11.

5.1.2.5.2 Part number index. This index shall list the complete part number (FSCM and the P/N). The list shall be arranged in ascending alphanumeric sequence by part number. The line entry for each part number listed shall show applicable NSN, figure, and item number. The part number line entry (with NSN, if available) shall be made for the first figure/item number appearance. The part number and NSN shall not be repeated on the same page of the index for each additional figure/item number identified by that part number. When P/N references carry over to another page, the carried over P/N shall appear at the top of the list. See figure 12.

5.1.2.5.3 Bulk figure. When entries in either the NSN or P/N index 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 in the Bulk figure located in the Bulk functional group listing, and shall not refer to item numbers on an illustration.

5.1.2.5.4 Sets/Kits. Part numbers for sets and kits shall reference the NSN, the applicable figure number, and it's item number. When Option 1 (see 5.1.2.3.12b) is selected, the ITEM column shall either be left blank or list in alphabetical character (e.g., K, S, KIT, SET, etc.). When Option 2 (see 5.1.2.3.12c) is selected, the FIG. column shall list the word "KITS" or "SETS" as applicable.

5.1.2.5.5. Reference designator (REF DES) index. When specified by the acquiring activity, a third cross-reference index (REF DES) shall be added to Section IV. The REF DES shall be listed by alphanumeric sequence and shall reference figure and item number.

5.1.2.5.6 Page numbering - Section IV. NSN and P/N indexes shall be numbered consecutively by Arabic numerals preceded by capital letter "I" (I -for index) (e.g., I-1, I-2, I-3).

5.1.2.6 Illustrations. Only line drawing illustrations shall be used. They shall be arranged to make effective use of available page space within format requirements specified herein. When specified by the acquiring activity, an illustration identification number shall be placed in the lower right-hand corner of all illustrations. Only when specified by the acquiring activity, shall halftone illustrations that appear in existing RPSTL's be used; and even then, halftones shall not be used in publications other than updates/ revisions.

5.1.2.6.1 Organizational or aviation unit, direct support or aviation intermediate, and general support maintenance spare/repair parts and special tools, special TMDE, and special support equipment illustrations. Illustrations for these maintenance level RPSTL's shall conform to the following:

a. Exploded views. RPSTL illustrations shall contain exploded views showing all items authorized for maintenance functions allocated by the maintenance allocation chart (MAC). Unless specified otherwise by the acquiring activity, these items shall be identified by item numbers assigned in clockwise sequence. See figure 13.

b. Electronic items. Electronic items, such as components on a circuit board that are not disassembled for repair, need not have exploded views of such parts. Line drawing illustrations for such electronic items shall identify components on a board by item number assigned in clockwise sequence as shown in figure 14.

c. Electronic items - legend. If an electronic item illustration would appear too cluttered if item number leader lines were used, the acquiring activity may specify a reference designator to item number legend, as shown in figure 15. When this option is specified, the following requirements shall apply:

(1) Only items with electronic designators shall be in the legend and cross-referenced to the applicable item number on the repair parts list. These items shall be arranged in alphanumeric sequence.

(2) Non-electronic items and electronic items without designators shall be identified on the illustration with an item number for use on the repair parts list.

d. Numbering method. Figures shall be numbered in accordance with the method (i.e., numeric or alphanumeric) specified by the acquiring activity.

e. FGC nomenclature. If more than one FGC appears in a figure, the listing headers and figure titles shall include the nomenclature of highest FGC illustrated.

f. Identical parts/item number. Identical parts appearing in a RPSTL illustration shall have the same item number. However, if the illustration includes two or more FGC's/assemblies, only the identical parts within each FGC/assembly shall have the same item number.

g. Arrangement of figures. All illustrations prepared for spares, repair parts, and special tools, special TMDE, and other special support equipment shall be arranged in figure number sequence and placed on the same page at the top of the page, or on the left-hand page facing the first page of the applicable listing. An exception to this arrangement, the stacked format, shall be used only as specified by the acquiring activity (see 5.1.2.9).

h. Blank pages. Blank pages shall be avoided, when possible. However, illustrations/figures shall be arranged to face the repair parts list; even though, the arrangement may necessitate the use of blank pages.

i. No duplicate illustrations. Illustrations shall not be duplicated to provide facing page illustrations for the second and subsequent pages of the repair parts and special tools list.

j. Multi-sheet illustrations. Only when specified by the acquiring 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.

k. D coded items (section III). Special tools, special TMDE, and other support equipment coded "D" in the third position of the SMR Code shall not be illustrated or listed in RPSTL's below depot level maintenance.

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

m. Illustration/figure and item numbers. Unless specified otherwise by the acquiring activity, all figure numbers of illustrations shall be in consecutive ascending numerical sequence. Item numbers on illustrations shall be Arabic numerals.

5.1.2.6.2 Foldout or foldout-foldup. Foldout or foldout-foldup illustrations shall not be used in RPSTL's.

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

5.1.2.6.4 Added figure/item numbering. When a figure/item is added and it is necessary to insert it between two existing figures/items, the added figure/item will be assigned the number of the figure/item 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, 25C respectively. If an added figure falls after the last figure, it shall be assigned the next consecutive ascending alphanumeric number. Item(s) inserted between items 3 and 4 would be item 3A, 3B, 3C respectively. If an added item falls after the last item, it shall be assigned the next consecutive ascending Arabic numeral.

5.1.2.7 Horizontal format. Horizontal (broadside) format shall not be used in RPSTL's except in support of nuclear weapons which are regulated by Department of Energy/Defense Nuclear Agency.

5.1.2.8 Figure titles and listings 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. Figure numbers and titles for illustrations shall be upper case for the first letter of principle words.

5.1.2.9 Stacked format. When specified by the acquiring activity, figures compiled in Section II or III shall be consecutively arranged and placed together (not on pages facing listings) after the parts list within their respective section, or they may be positioned in Section IV, thereby making the NSN/PN index Section V. When this "stacked" format is specified, Section I Introduction shall be modified to account for any difference in format from that exemplified in figure 4.

5.1.2.10 End of figure - statement. The statement "END OF FIGURE" shall appear below the last item described in column 5 of the tabular lists in Section II and III.

5.1.2.11 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 effected page. Change numbers shall be Arabic and shall be preceded by the letter C, (e.g., C01, C02, C08).

5.1.2.11.1 Asterisk. An asterisk shall be placed to the left of the ITEM NO. column adjacent to the line item where the change has been made. The asterisk shall indicate the current change only. Asterisks indicating previous changes shall be removed.

5.1.2.11.2 Change symbols. When specified by the acquiring activity, change symbols shall be used to identify area/items changed on illustration(s)/ figure(s) (see MIL-M-38784).

5.2 Special requirements.

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

5.2.2 Government-furnished data. As specified by the acquiring activity, the contractor shall incorporate into the RPSTL's applicable Government-furnished data required by MIL-M-38784 and listed in 5.2.2.a through 5.2.2.h.

a. The "Current as of" (date) of "Reporting Errors and Recommending Improvements" statement, (Including name, address, and symbol of proponent) to be included on title/table of content page as shown in figure 1.

b. Supersession notice, if applicable.

c. All columnar data for entry in the tabular listings specified in the contract.

d. Reference artwork material, if applicable.

e. Complete set of drawings for material covered, if applicable.

f. List of applicable publication references.

g. Complete maintenance allocation chart (MAC).

h. Applicable introduction content.

5.2.3 Reproducible copy. RPSTL final draft equipment publication FDEP shall be prepared as reproducible copy.

5.3 Quality Assurance Provisions.

5.3.1 In-process reviews. When specified by the acquiring activity, these reviews will 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 standard requirements. These reviews may be conducted at the contractor's facility, or at the acquiring activity's facility, at any time during the development of the publication but normally prior to preparation of the final contract deliverable. These in-process reviews are not a part of validation or verification and shall not be used to take the place of validation or verification.

5.3.2 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.

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

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

5.3.2.3 Sampling plan. Repair Parts and Special Tools Lists shall be validated by the contractor, using a sampling procedure. The sampling shall be in accordance with MIL-STD-105, using the single sampling plan for general inspection level II and normal inspection. The lot size shall be the number of line item entries appearing in the manuscript.

5.3.2.4 Line item entries. The validation of each data element included in the line item entries sampled shall include, but not be limited to, assuring that:

a. All data elements required by this standard are correctly entered and that data elements not required are not included.

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

c. Item numbers, FSCM, part number, and item name/description are correctly entered in the index for each entry.

d. Functional or subfunctional group names and numbers are consistent within the listings, table of contents, and illustrations, and with the Maintenance Allocation Chart (MAC) as required by MIL-M-63038.

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

5.3.2.5 Classification of defects. See Appendix A.

5.3.2.6 Correction of defects. The acceptable defect rate shall not be more than 5.0 defective data elements per 100 line item entries for major defects and 15 defective data elements per 100 line item entries for minor defects. All defects within a line item entry shall be counted. Defects shall be counted and recorded only for material prepared or furnished by the contractor. For Government-furnished information, see 5.3.2.8 The defect rate shall be computed using the formula:

$$\frac{\text{number of defects} \times 100}{\text{number of line items sampled}}$$

If the defects discovered do not exceed the acceptable rate for either major or minor defects, these defects shall be corrected prior to submittal to the Government for acceptance. If the defect rate exceeds the acceptable rate for either major or minor defects, all line item entries shall be validated and corrections made prior to submittal to the Government for acceptance. When the Government accepts a manuscript, with the provision that errors be corrected, the Government reserves the right to require the contractor to make corrections to these errors at no cost to the Government within the number of days specified in the contract.

5.3.2.7 Government-furnished data. The contractor is not responsible for the adequacy and accuracy of Government-furnished data provided for inclusion in the Repair Parts and Special Tools Lists. The contractor shall include in his reviews a validation that all such 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.

5.3.3 Verification. Representatives of the acquiring activity will verify the contractor's validation of the material to assure compliance with the validation requirements. In addition to inspecting the contractor's records on the performance of validation reviews, the Government reserves the right to perform verification by either a or b below.

a. Witness the contractor's validation.

b. Review random samples of the line item entries required by 5.3.2.4.

5.3.4 NSN's. Verification will include verifying all NSN's in the manuscript.

5.3.5 Classification of defects. See Appendix A.

5.3.6 Correction of defects.

a. If the defects discovered in a contractor-prepared draft publication exceed the acceptable rate for either major or minor defects, as calculated and specified in 5.3.2.6, the draft publication will be returned to the contractor for 100% validation of all line item entries and correction of all defects.

b. If the defects discovered do not exceed the acceptable rate, these defects will be corrected by the contractor prior to acceptance by the acquiring activity.

5.4 Packaging. When packaging negatives, a sheet of tissue paper shall be inserted between each of the negatives, or each negative shall be placed in a negative envelope, as specified by the acquiring activity. Negatives shall then be packaged in the same manner as prescribed for reproducible copy. All other packaging requirements shall be in accordance with MIL-M-38784.

6. NOTES

6.1 Intended use. The RPSTL's prepared under this standard lists spares, repair parts and special tools, special TMDE, and other special support equipment required for timely and economical support of organizational or aviation unit, direct support or aviation intermediate, general support, specialized repair activity, and depot maintenance.

6.2 Ordering data. Acquisition documents should specify:

a. Title, number, and date of this standard.

b. Whether RPSTL is to be a separate manual or an appendix to a narrative manual or DMWR. (1.2)

c. The level of maintenance covered by the RPSTL. (1.2)

d. The "Current as of" date "Reporting Errors and Recommending Improvements" statement, and manual title. (5.1.2.1.1a)

e. When a RPSTL is being prepared for a component item, the known major combinations or end items with which it is used, and title to be used. (5.1.2.1.1a)

f. Abbreviations and their explanations. (5.1.2.2.3)

g. Illustration identification numbers. (5.1.2.6)

h. Supersession notice, if applicable. (5.2.2b)

i. The columnar data in tabular listings to be furnished, if applicable. (5.2.2c)

j. Reference artwork and drawings to be furnished, if applicable. (5.2.2.d) and (5.2.2.e)

k. Applicable publication references. (5.2.2.f)

l. That the Maintenance Allocation Chart (MAC) will be furnished by the acquiring activity. (5.2.2.g)

m. If in-process reviews are to be held. (5.3.1)

n. Standard tailoring by selection of optional requirements on the Content/Format Selection Summary, Appendix B.

o. When the Government accepts a manuscript with the provision that errors will be corrected, the number of days allowed to make these corrections at "no cost to the Government" should be stated. (5.3.2.6)

6.2.1 Data requirements. When this standard is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirement List (CDRL), the data item requirements shall be developed as specified by the approved Data Item Description (DD 1664) identified below and delivered in accordance with the approved CDRL incorporated into the contract. When a DD 1423 is not required, the data cited below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this standard is:

Paragraph No. (herein)	Data Requirements	Applicable DID	DID Title
5.1	Repair Parts and Special Tools List	DI-M-1517 (Option 1)	Technical Manuals

(The applicable issue of the above approved data item description to be used with this standard for acquisition shall be the issue in effect on date of solicitation and as listed in DoD 5000.19L., Vol. II AMSDL. Copies of data item descriptions required by contractors in connection with specific acquisition functions should be obtained from Naval Publications and Form Center or as directed by the contracting officer.)

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 - National Stock Number and Part Number Index
3.	Explanation of Columns (Sect. II, III)
3a.	Column (1) ITEM NUMBER
3b.	Column (2) SMR CODE 4/
3c.	Column (3) FSCM
3d.	Column (4) PART NUMBER
3e.	Column (5) DESCRIPTION AND USABLE ON CODE (UOC) 5/
3f.	Column (6) QTY
4.	Explanation of Columns (Sect. IV).
4a.	STOCK NUMBER INDEX
4a(1).	STOCK NUMBER
4a(2).	FIG.
4a(3).	ITEM
4b.	PART NUMBER INDEX
4b(1).	FSCM
4b(2).	PART NUMBER
4b(3).	STOCK NUMBER
4b(4).	FIG.
4b(5).	ITEM
5.	Special Information 6/
6.	How to Locate Repair Parts
7.	Abbreviations

1/ All introduction content listed applies to all RPSTL's and covers all maintenance levels unless it is not applicable. When entries are not applicable enter only the paragraph number, title, and the phrase "Not applicable" following the title (see 5.1.2.2.1).

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

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

4/ Enter all codes and their explanations. (Reference figure 4, paragraph 3b.) Source code "XC" shall be used only when installation drawing/diagram/ instruction sheet/field service drawing is/are available for use at the maintenance level(s) for which the RPSTL is prepared.

5/ Inclusion of Federal item name is mandatory. Remaininy explanations shall be included only if applicable to the RPSTL under preparation.

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

Technical Manual

No. X-XXXX-XXX-24P

TM X-XXXX-XXX-24P
HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC

ORGANIZATIONAL, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
(Name of Equipment)
NSN
Current as of (Date)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: (name/address/symbol of proponent). A reply will be furnished to you.

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	0002 Sight Connector mounting bracket	1-2	
Group 01	20-mm air defense gun cannon M168	2-1	2
	0101 Recoil adapter assembly	2-1	2
	0102 Breech bolt assembly	2-2	2
	0103 Center clamp assembly	2-2	2
Group 02	20-mm gun mount assembly M157A1	3-1	3

FIGURE 1. Example of title page/table of contents (Sheet 1 of 2).

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TABLE OF CONTENTS - Continued

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	0207 Mount component assembly detail illustrations	3-3	3
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	020702 Azimuth drive assembly	3-4	3
	020702 Azimuth drive friction clutch assembly	3-4	3
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03	Boresight adjustment hardware	4-1	4
03	Gyro control and synchro	4-1	4
	0301 Motor and electromagnet assemblies	4-1	4
	0302 Combining glass and gimbal	4-2	4
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FIGURE 1. Example of table of contents (cont'd) (Sheet 2 of 2).

DMWR X-XXXX-XXX-XX&P

APPENDIX B

DEPOT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

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 depot maintenance of the (insert short item name). It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by source, maintenance, and recoverability (SMR) codes.

2. General.
In addition to Section I, Introduction, 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. The 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. 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 repairable special tools are also listed in this section.

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

c. Section IV - National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

B-1

FIGURE 2. Example of first page of the appendix RPSTL for a DMWR/RPSTL TM.

TM X-XXXX-XXX-XX&P

APPENDIX C

ORGANIZATIONAL, DIRECT SUPPORT, AND

GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

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 organizational, direct support, and general support maintenance of the (insert short item 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.

In addition to Section I, Introduction, 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. The lists 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 or sets are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in the section.

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

c. Section IV - National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listing. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

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FIGURE 3. Example of first page of the appendix RPSTL for a combined narrative/RPSTL TM.

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ORGANIZATIONAL, DIRECT SUPPORT, AND

GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

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 organizational, direct support, and general support maintenance of the (insert short item 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.
In addition to Section I, Introduction, 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. The 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 in item name sequence. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figure(s).

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

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

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FIGURE 4. Example of introduction (Sheet 1 of 10).

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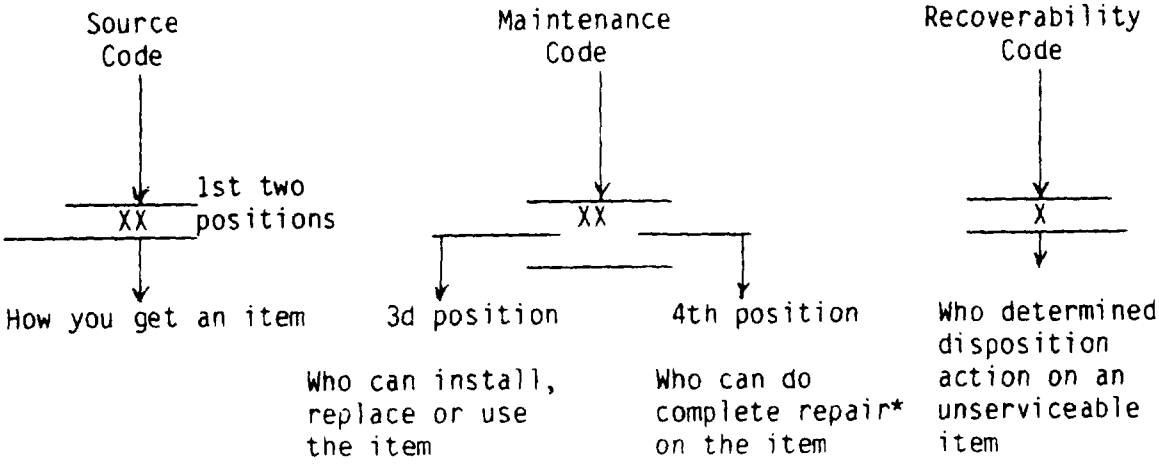
3. Explanation of Columns (Sections II and III).

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

b. SMR CODE (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*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 to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code	Explanation
PA, PB, PC**, PD >, PE, PF, PG	Stocked items; use the applicable NSN to request/ requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3d position of the SMR code.
	**NOTE: Items coded PC are subject to deterioration.
KD, KF >, KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.

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FIGURE 4. Example of introduction (Sheet 2 of 10).

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Code	Explanation
MO- (Made at org/AVUM Level) MF- (Made at DS/AVUM Level) MH- (Made at GS Level) ML- (Made at Specialized Repair Act (SRA) MD- (Made at Depot	Items with these codes are not to be requested/requisitioned 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 in this 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 a higher level, order the item from the higher level of maintenance.
AO- (Assembled by org/AVUM Level) AF- (Assembled by DS/AVIM Level) AH- (Assembled by GS Category) 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 code of the SMR code authorizes you to replace the item, but the source code indicates the items is assembled at a higher level, order the item from the higher level of maintenance.

XA - Do not requisition an "XA"-coded item. Order its next higher assembly. (Also, refer to the NOTE below.)
XB - If an "XB" item is not available from salvage, order it using the FSCM and part number given.
XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
XD - Item is not stocked. Order an "XD"-coded item through normal supply channels using the FSCM and part number given, if no NSN is available.
NOTE: Cannibalization or controlled exchange, when authorized, may be used as a soure 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 700-42.

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FIGURE 4. Example of introduction (Sheet 3 of 10).

TMX-XXXX-XXX-XXP

(2) Maintenance Code. Maintenance codes tells you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions 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 an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code	Application/Explanation
C	-Crew or operator maintenance done within organizational or aviation unit maintenance.
O	-Organizational or aviation unit category can remove, replace, and use the item.
F	-Direct support or aviation intermediate level can remove, replace, and use the item.
H	-General support level can remove, replace, and use the item.
L	-Specialized repair activity can remove, replace, and use the item.
D	-Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., 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 (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	-Organizational or (aviation unit) is the lowest level that can do complete repair of the item.
F	-Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	-General support is the lowest level that can do complete repair of the item.

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FIGURE 4. Example of introduction (Sheet 4 of 10).

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Code	Application/Explanation
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 the maintenance of a "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 entered in the fifth position of the SMR Code as follows:

Recoverability Codes	Application/Explanation
Z	-Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
O	-Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit level.
F	-Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate 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 not authorized below depot level.
L	-Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).

FIGURE 4. Example of introduction (Sheet 5 of 10).

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Recoverability Codes	Application/Explanation
A	-Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/ directives for specific instructions.

c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). 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 a NSN to requisition an item, the item you receive may have a different part number from the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)). This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The physical security classification of the item is indicated by the parenthetical entry (insert applicable physical security classification abbreviation, e.g., Phy Sec Cl (C) -Confidential, Phy Sec Cl (S) -Secret, Phy Sec Cl (T) Top Secret).

(3) Items that are included in kits and sets are listed below the name of the kit or set.

(4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.

(5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured/fabricated.

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

(7) The usable on code, when applicable (see paragrapn 5, Special information.

FIGURE 4. Example of introduction (Sheet 6 of 10).

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(8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceedes density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f. QTY (Column (6)). 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 in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

4. Explanation of Columns (Sect. IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e., 5305-01-674-1467). When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section 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 (i.e., vertical arrangement of letter 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) FSCM column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

FIGURE 4. Example of introduction (Sheet 7 of 10).

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(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, 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.

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

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

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

5. Special Information. Use the following subparagraphs as applicable:

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 description/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in the RPSTL are:

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

b. FABRICATION INSTRUCTIONS. Bulk materials required to manufacture items are listed in the Bulk Material Functional Group of this RPSTL. Part numbers for bulk materials 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 codes to be manufactured or fabricated are found in (enter appropriate maintenance manual).

c. ASSEMBLY INSTRUCTION. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in (enter appropriate maintenance manual). Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. KITS. Line item entries for repair parts kits appear in a group in Section II (see table of contents).

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FIGURE 4. Example of introduction (Sheet 8 of 10).

e. 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.

f. ASSOCIATED PUBLICATIONS. The publication(s) listed below pertain to (insert applicable equipment nomenclature) and its components:

Publication	Short Title
LO X-XXXX-XX-10	Howitzer: Self-propelled, 155mm
TM X-XXXX-XXX-20	Howitzer: Self-propelled, 155mm
TM X-XXXX-XXX-34	Howitzer: Self-propelled, 155mm

NOTE: Associated publications shall not be listed here in combined narrative and RPSTL manuals.

g. ILLUSTRATIONS - LISTING. The illustrations in this RPSTL are identical to those published in (enter the higher levels of maintenance manual(s), e.g., -34P, -40P). Only those parts codes "C" or "O" in the third position of the SMR Code are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational or aviation unit authorized items appear in this RPSTL.

NOTE: The above statements shall appear in organizational or aviation unit level RPSTL's only.

6. How to Locate Repair Parts

a. When National Stock Number or Part Number is Not Known.

(1) First. Using the table of contents, determine the assembly group 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 assembly group or subassembly group to which the item belongs.

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

(4) Fourth. Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) Fifth. Refer to the Part Number Index to find the NSN, if assigned.

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

FIGURE 4. Example of introduction (Sheet 9 of 10).

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(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4.1(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4.b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

7. Abbreviations. (Abbreviations must be applicable to specific RPSTL and not listed in MIL-STD-12).

Abbreviations	Explanation
cd or zn-pltd	cadmimum or zinc-plated
MOD	Model
opng	opening
NIIN	National Item Identification Number (consists of the last 9 digits of the NSN)
RPSTL	Repair Parts and Special Tools List

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FIGURE 4. Example of introduction (Sheet 10 of 10).

SECTION II TMX-XXXX-XXX-XXP

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 09: ELECTRICAL SYSTEM	
				FIG.112A PANEL ASSEMBLY,ANNUNCIATOR	
1	PAOFF	97499	204-075-705-83	CONTROL PANEL USBL EFF 77-22763 AND SUB BREAKDOWN FOR P/N 204-075-705-83 (75-0326-3) SEE FIG.111 FOR NHA.....	1
				UOC:AIS	
2	PAOZZ	96906	MS24693S27	.SCREW,MACHINE.....	2
3	PAOZZ	96906	MS24693S2	.SCREW,MACHINE.....	6
4	XDOZZ	72914	76-1121-1	.PLATE,IDENT.....	1
5	PBOZZ	72914	76-1130-1	.PANEL,INDICATING LIGHT.....	
7	PBOFF	72914	76-1130-3	.PANEL [illegible] P/N 204-075-77.....	1
				UOC:AIS	
8	PAOZZ	96906	MS35206-226	..SCREW,MACHINE.....	8
9	PAFZZ	96906	MS35206-230	..SCREW,MACHINE.....	6
10	PAOZZ	96906	MS35338-41	..WASHER,LOCK-SPRING.....	8
11	PBOZZ	72914	16192	..SPACER,SLEEVE.....	4
12	PAOZZ	96906	MS24693S27	..SCREW,MACHINE.....	6
13	PAOZZ	96906	MS21042-04	..NUT,SELFLOCKING.....	4
14	XDFFF	72914	76-1125-1	..PLATE,COVER,ACCESS.....	
17	PAFZZ	72914	55-0225-30005D	...RESISTOR 300 OHM U/O P/N 76-1127-3	1
				UOC:AIS	
18	PAFZZ	72914	55-0225-36005D	...RESISTOR 360 OHM 7EA U/O P/N 76-V 1127-1,6EA U/O P/N 76-1127-3.....	
19	PAOZZ	26742	81-6030-1100-00	.CONNECTOR,RECEPTACLE.....	3
20	PAOZZ	96906	MS21 353-341	.SWITCH,TOGGLE.....	1
				END OF FIGURE	

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FIGURE 5. Example - parts list with indentures and UOC.

SECTION II TMX-XXXX-XXX-XXP

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 09:ELECTRICAL SYSTEM	
				FIG.82 PANEL ASSEMBLY,ANNUNCIATOR	
1	PAOFF	97499	204-075-705-77	CONTROL PANEL USBL EFF 76-255 THRU 76-424	1
				UOC:AIG	
2	PAOZZ	96906	MS24693S27	.SCREW,MACHINE	2
3	PAOZZ	96906	MS24693S2	.SCREW,MACHINE	6
4	XDOZZ	72914	76-1121-1	.PLATE,IDENT	1
5	PBOZZ	72914	76-1131-3	.PANEL,INDICATING LIGHT	1
6	XDOZZ	72914	76-1125-3	.COVER PLATE	1
7	PBOFF	72914	76-1130-1	.PANEL SUBASSEMBLY USBL EFF 76-225 THRU 76-424	1
				UOC:AIG	
8	PAOZZ	96906	MS35206-226	..SREW,MACHINE	8
9	PAFZZ	96906	MS35206-230	..SCREW,MACHINE	6
10	PAOZZ	96906	MS35338-41	..WASHER,LOCK-SPRING	8
11	PBOZZ	72914	16192	..SPACER,SLEEVE	4
12	PAOZZ	96906	MS2469S27	..SCREW,MACHINE	6
13	PAOZZ	96906	MS21042-04	..NUT,SELF-LOCKING	4
14	XDFFF	72914	76-1135-1	..PLATE,COVER,ACCESS	1
15	PAFZZ	72962	22LHCFM1-40	...NUT-CLINCH,FLUSH	2
16	PAFFF	72914	76-1127-1	..CIRCUIT CARD ASSY USBL EFF 76-225 THRU 76-424	2
				UOC:AIG	
16	PAFFF	72914	76-1127-3	..CIRCUIT CARD ASSY USBL EFF 76-425 AND ABOVE	2
				UOC:AIG	
17	PAFZZ	72914	55-0225-30005D	...RESISTOR 300 OHM USBL EFF 76-425 AND ABOVE	1
				UOC:AIG	
18	PAFZZ	72914	55-0225-36005D	...RESISTOR 360 OHM USBL EFF 6 EA 76-225 THRU 76-424 7 EA 7 6-425 AND ABOVE	V
19	PAOZZ	26742	81-6030-1100-00	.CONNECTOR,RECEPTACLE	3
20	PAOZZ	96906	MS21353-341	.SWITCH,TOGGLE	1
				END OF FIGURE	

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FIGURE 6. Example - usable effective serial numbers statement (USBL EFF...THRU...).

SECTION II THX-XXXX-XXX-XXP

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP:120801 CONNECTING CABLES FIG.12 PANEL ASSEMBLY	
1	A0000	78286	70600-00203-066	CABLE ASSY,COAX SEE FIG 18 ASSY BKDN.....	1
2	PAOZZ	81349	M39012/28-0011	.CONNECTOR,COAX.....	1
3	MOOZZ	78286	70600-00203-126	.CABLE,COAX MAKE FROM CABLE,P/N RG-142B/U.....	1
4	PAOZZ	81349	M39012/30-0011	.CONNECTOR,COAX.....	1
5	AOOZZ	78286	70600-00203-067	CABLE ASSY,COAX.....	1
6	PAOZZ	81349	M39012/28-0011	.CONNECTOR,COAX..... UOC:BAA	1
7	MOOZZ	78286	70600-00203-127	.CABLE,COAX MAKE FROM CABLE,P/N RD-316.....	1
8	PAOZZ	81349	M39012/30-0011	.CONNECTOR,COAX..... UOC:BAA	1
9	MFFZZ	18876	10574212-1	COVER,MAST HEAD MAKE FROM METAL SHEET,P/N QQA250-116011T4-48X144.....	2
				END OF FIGURE	

				GROUP:99 BULK MATERIALS FIG.BULK	
1	PAOZZ	07145	RD-316	CABLE,COAX.....	V
2	PAOZZ	81349	RG-180B/U	CABLE,COAX.....	V
3	PAOZZ	81349	RG-142B/U	CABLE,COAX.....	V
4	PAFZZ	81348	QQA250-116OT4-48X144	METAL SHEET 3/32 IN.THK.....	V
5	PAOZZ	81349	MIL-W-1687814	WIRE,ELECTRICAL.....	V
6	PAOZZ	81348	QQW23FMICOMP302 CONDA	WIRE,NONELECTRICAL .032 IN.DIA.....	V
				END OF FIGURE	

BULK-1

FIGURE 7. Example - bulk material, "make from" statement, assembly breakdown reference (above) Fig. bulk/bulk material functional group (below).

SECTION II TMX-XXXX-XXX-XXP

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 15 AUXILIARY POWER UNIT	
				FIG.10 ENGINE,GAS TURBINE T62T-2A, T62T-2A1	
1	PAODD	55820	37688-0	ENGINE,GAS TURBINE T62T-2A..... UOC:NB4	1
2	PAODD	55820	37688-1000	ENGINE,GAS TURBINE T62T-2A1..... UOC:NB5	1
3	PAOZZ	96906	MS21044N3	.NUT,SELF-LOCKING..... UOC:NB4,NB5	2
4	PAOZZ	88044	AN960DD10	.WASHER,FLAT..... UOC:NB4,NB5,NB6	2
5	PAOZZ	96906	MS29512-06	.PACKING,PREFORMED PART OF KIT PIN 31766-1.....	10
6	PAOOO	55820	28022-4	..NOZZLE ASSEMBLY STATOR..... UOC:NB4,NB5,NB6	1
7	PAOZZ	96906	MS35769-5	..GASKET PART OF KIT P/N 31766-1.... UOC:NB4,NB5,NB6	1
8	PAOZZ	71895	970HE1UPPH	..NOZZLE,STATOR..... UOC:NB4,NB5,NB6	1
9	PAOZZ	55820	26793-1	..GASKET PART OF KIT P/N 3766-1..... UOC:NB4,NB5,NB6	1
.	PAOZZ	55820	31766-1	SEAL KIT,TURBINE..... PACKING,PREFORMED (10) 10-5 GASKET (1) 10-7 GASKET (1) 10-9 SEAL (2) 12-25	V

				GROUP 1604 FIG.75 LOCKOUT CYL ASSY-10891574-1	
1	KFHZZ	19207	11643323	RETAINER,PACKING PART OF KIT GROUP 77,ITEM 2..... UOC:AB2	2
2	PAHZZ	21450	545333	SEAL,PLAIN,ENCASED PART OF KIT GROUP 77,ITEM 1.....	4
3	PAHZZ	96906	MS28775-429	PACKING,PREFORMED PART OF KIT GROUP 77,ITEM 7..... UOC:AB2	2

				GROUP 77 REPAIR KITS FIG.KITS	
1	PAHZZ	21450	5703391	PARTS KIT CYLINDER ASSY..... UOC:AB2,AB3,AB4	V
	PAHZZ	21450	54333	..SEAL,PLAIN,ENCASED FIG.75,ITEM 2	4
	PAHZZ	21540	54872	..WASHER,SPRING FIG.76,ITEM 4	2
2	PAHZZ	19207	5703284	PARTS KIT TRACK SUSPENSION UOC:AB2	V
	KFHZZ	19207	11643323	..RETAINER,PACKING FIG.75,ITEM 1	2
	PAHZZ	96906	MS28775-429	..PACKING,PREFORMED FIG.75,ITEM 3	2

KITS-1

FIGURE 8. Kits - option 1 (upper figure)
option 2 (two lower figures)

SECTION II TMX-XXXX-XXX-XXP

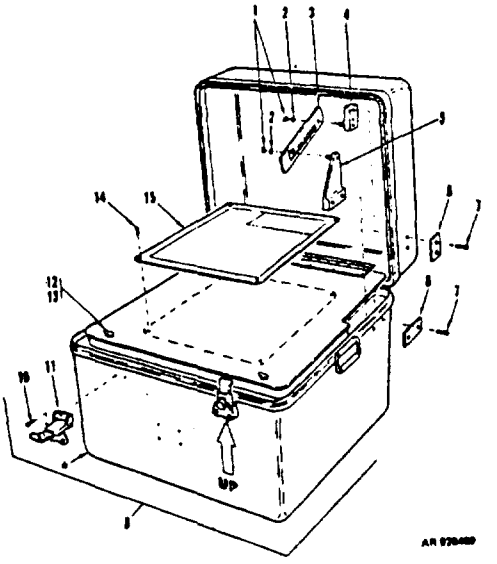

Figure 120. Checking Fixture Carrying Case - 8447502

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP:1003 SPECIAL TOOLS (REPAIR PARTS) FIG.120 CHECKING FIXTURE CARRYING CASE 8447502	
1	PAFZZ	96906	MS16624-5018	RING,RETAINING.....	2
2	PAFZZ	88044	AN960C10L	WASHER,FLAT.....	2
3	PAFZZ	19204	8437902	SLIDE,LOCK.....	1
4	PAFZZ	19204	8437905	SPACER ASSEMBLY.....	1
5	PAFZZ	19204	8437904	SUPPORT ASSEMBLY.....	1
6	PAFZZ	19204	8437900-1	PLATE,COVER HINGE.....	1
7	PAFZZ	96906	MS35207-263	SCREW,MACHINE.....	4
8	PAFZZ	19204	8437900-2	PLATE,COVER HINGE SPACER.....	1
9	XAFZZ	19204	8437822	CASE,STORAGE,FEED UNIT CHECKING FIXTURE.....	1
10	PAFZZ	96906	MS20470B4-10	RIVET,SOLID.....	4
11	PAFZZ	19204	8437906	CATCH,CLAMPING.....	2
12	PAFZZ	71286	2600SW	WASHER,SPLIT.....	2
13	PAFZZ	71286	2600-6SW	STUD,TURNLOCK.....	2
14	PAFZZ	80205	NAS1398D4-3	RIVET,BLIND.....	4
15	PAFZZ	19204	8437897	PLATE,INSTRUCTION.....	1
				END OF FIGURE	

120-1

FIGURE 9. Example - special tools (repair parts) group, illustration/listing (Section II).

SECTION III TMX-XXXX-XXX-XXP

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP:9501 SPECIAL TOOLS FIG.121 SPECIAL TOOLS-STOWED W/CASE	
1	PAFZZ	19204	8437731	FIXTURE TESTING..... UOC:AB2,AB3 BOI:1 PER 1-24 END ITEMS	
2	PAFZZ	19204	8447062	MAXIMUM ROUND AND C SLOT STORAGE, DRUM..... UOC:AB2 BOI:1 PER LETTERED CO	
3	PAFZZ	19204	8445112	ADAPTER ASSEMBLY..... BOI:2 PER BN HQ WHEN BN HAS SVC CO BOI:3 PER HQ OF UNITS ABOVE BN LEVEL	
4	PAFZZ	19204	8445108	FIXTURE ASSEMBLY..... BOI:10 AUTH BY BN AND BDE TYPE HQ (EXCEPT WHEN BN/BDE HAS SVC CO) BOI:6 AUTH BY SVC BTRY/CO	
5	PAFZZ	19204	8445110	WRENCH,SPANNER..... BOI:2 AUTH BY NUMBERED BTRY/CO AND SIMILAR HQ PERFG ORG/AVUM MAINT FOR OTHER UNITS	
				END OF FIGURE	
				GROUP:9502 SPECIAL TOOL SETS/KITS FIG.122 TOOL KITS SET A AND B	
	PE0ZZ	19207	10944498	TOOL KIT,TRACKED VE SPECIAL SET A BOI:1 PER LETTERED CO	
1	PE0ZZ	19207	10942647	..SLING,BEAM TYPE QTY:1 PER SET	
2	PE0ZZ	19207	11589364	..BAR,LIFTING FINAL DRIVE QTY:2 PER SET	
3	PE0ZZ	19207	10949344	..WRENCH,OPEN END,BOX QTY:1 PER SET	
4	PE0ZZ	19207	10961180	..DRIFT PIN QTY:1 PER SET	
5	PE0ZZ	19207	10867950	..REMOVER,SHOCK ABSOR QTY:1 PER SET	
	PE0ZZ	19207	10944497	TOOL KIT,TRACKED VE SPECIAL SET B BOI:1 PER BN HQ WHEN BN HAS SVC CO	
6	PE0ZZ	19207	10880345	..GAGE,TRACK WEAR U/W FINAL DRIVE SPROCKET QTY:1 PER SET	
7	PE0ZZ	19207	7083700	..ADAPTER,MECHANICAL PULLER QTY:1 PER SET	
				END OF FIGURE	

122-1

FIGURE 10. Example - special tool list and special tool sets/kits with basis of issue (BOI).

SECTION IV TM55-XXXX-XXX-?3P

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5320-00-117-6826	49	36	5320-00-117-6837	15	55B
	50	16		15	92
	50	20		16	77
	50	27		16	86
	50	32		21	7B
	50	36		21	9
	50	41		21	52B
	50	45			
				46	66
	44	37		46	85
	48	37		47	2
	48	45		47	5
	109	11		47	17
5320-00-117-6832	52A	11		47	42
	52A	14		47	59
	52A	26		47	76
5320-00-117-6837	5	67		47	86
	6	54		47	102
	6	108		47	128
	6	152		47	142
	7	23		47	152
	7	50		47	165
	7	77		47	170
	14	28		47	180

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FIGURE 11. National stock number index.

SECTION IV TM55-XXXX-XXX-23P

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
88044	AN815-4	4730-00-925-4752	129A	133A
			150	32
88044	AN815-4J	4730-00-875-8264	151	10
			52	228
88044	AN816-4D	4720-00-240-5905	58	111
88044	AN816-6-2D	4730-00-240-5904	106	21
88044	AN818-10D	4730-00-287-0290	106	29
			52	251
			53	5
			53	83
			53	93
			92	1A
			92	12
88044	AN818-12D	4730-00-287-0285	92	32
88044	AN818-16D	4730-00-222-1915	71A	7
			150	86
88044	AN818-4D	4730-00-287-0289	53	128
			53	135
			58	36A
			71	147
			129	30
			129	144
			150	31
88044	AN818-4J	4730-00-287-0287	52	216
			52	219
88044	AN818-6D	4730-00-142-2167	52	226
			20	27
			20	34
			20	37
			20	41
			20	44

I-98

FIGURE 12. Part number index.

SECTION II TM1X-XXXX-XXX-X&P

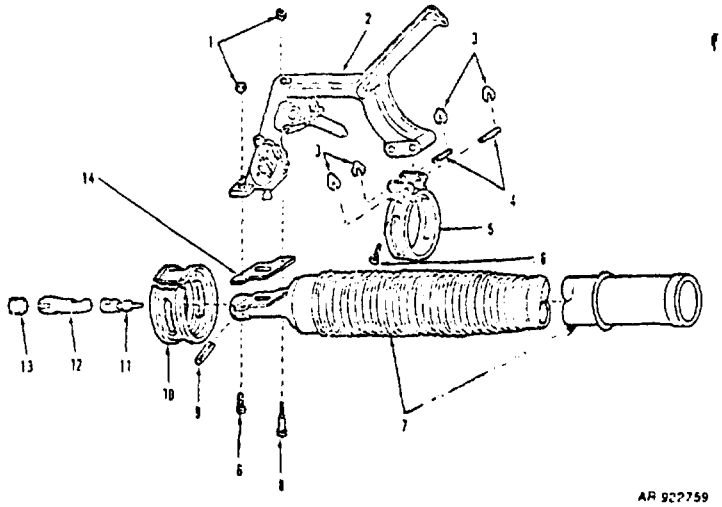


Figure 132. Mortar Cannon Assembly

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				GROUP 01 FIG.132 MORTAR CANNON ASSY	
1	PAOZZ	96906	MS51988-3	NUT,SELF-LOCKING.....	2
2	PCOFA	19206	11578985	HANDLE AND FIRING.....	1
3	PAOZZ	19206	11578986	RING,RETAINING.....	4
4	PAOZZ	19206	11578984	PIN,GROOVED,HEADLESS.....	2
5	PAOZZ	19206	11579040	CLAMP,LOOP.....	1
6	PAOZZ	80205	NAS1352-4LE14P	SCREW,SELF-LOCKING.....	2
7	PADDD	19206	11579093	CANNON,60 MILLIMETER.....	1
8	PAOZZ	19206	11579119	SCREW,SHOULDER.....	1
9	PAOZZ	19206	11579291	PIN,GROOVED,HEADLESS.....	1
10	PAOZZ	19206	11579039	SLEEVE,CLAMP,MORTAR.....	1
11	PAOZZ	19206	11578971	PIN,FIRING.....	1
12	PAOZZ	19206	11578975	GUIDE,FIRING PIN.....	1
13	PAOZZ	19206	11579120	PLUG,MACHINE THREAD.....	1
14	PAOZZ	19206	11578976	GASKET.....	1
				END OF FIGURE	

132-1

FIGURE 13. Example, item numbers in clockwise sequence, (illustration/parts list-same page).

SECTION II TMX-XXXX-XXX-XXP

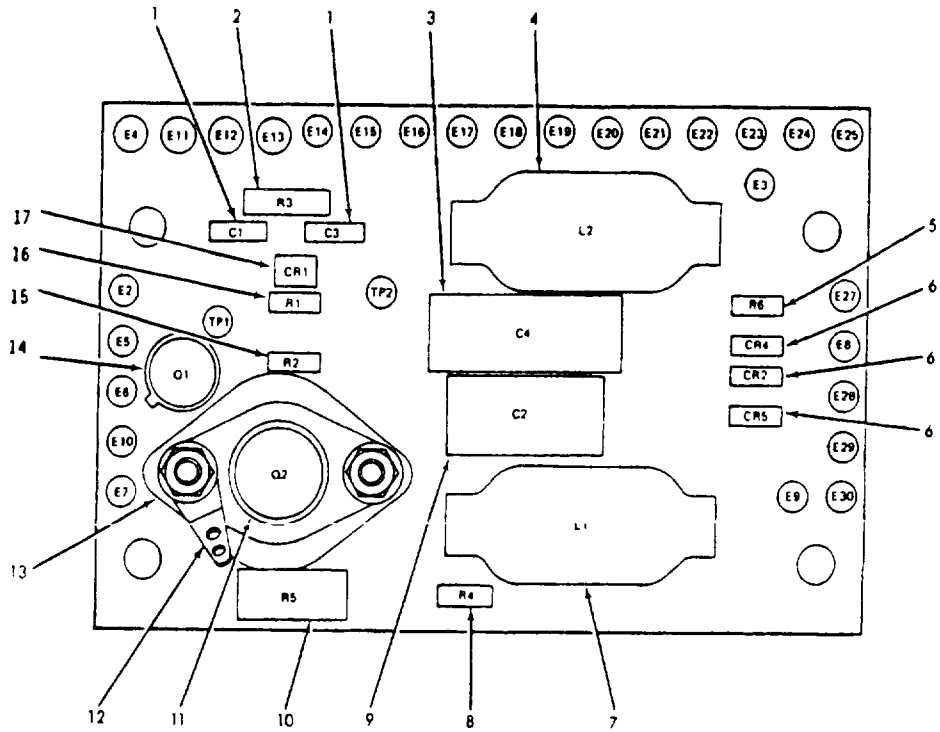
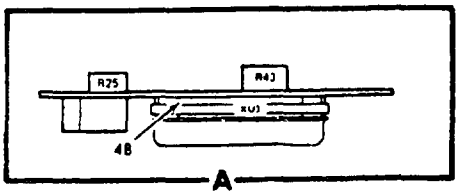
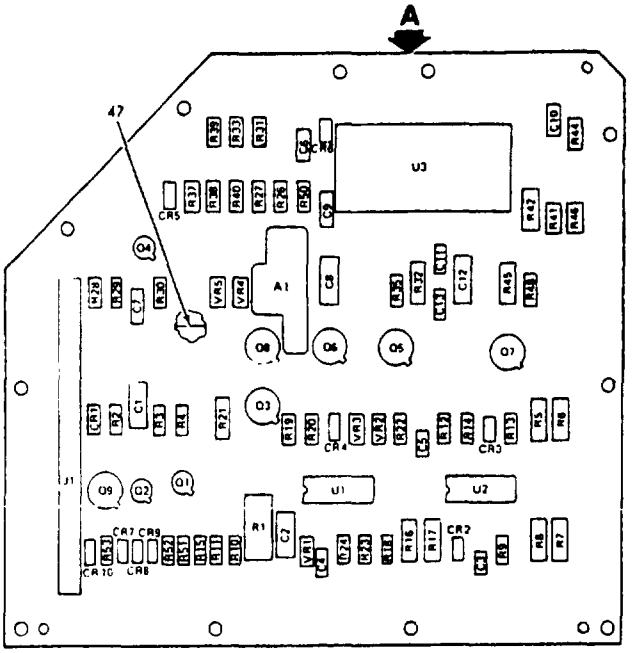


Figure 22. LVPS Drive Circuit Card Assembly (11507339) (Group 2100)

FIGURE 14. Example - electronic items clockwise sequence.

SECTION II TMX-XXXX-XXX-XXP





REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.	REF DES	ITEM NO.
A1	1	C11	6	THRU		R18	21	R33	33	R52	30
CR1		C12	4	R4	16	R19	23	R35	24	R53	30
THRU		C13	6	R5	17	R20	24	R37	23	U1	40
CR9	2	J1	10	R6	18	R21	25	R38	23	U2	41
CR10	3	Q1	11	R7	18	R22	26	R39	34	U3	42
C1	4	Q2	11	R8	19	R23	27	R40	35	VR1	43
C2	4	Q3	12	R9	20	R24	27	R41	36	VR2	44
C3	5	Q4	13	R10	21	R25	28	R42	37	VR3	45
C4	6	Q5	12	R11	22	R26	29	R43	38	VR4	44
C5	7	Q6	14	R12	16	R27	29	R44	31	VR5	45
C6	8	Q7	12	R13	21	R28		R45	32	XU3	46
C7	9	Q8	14	R14	16	THRU		R46	33		
C8	4	Q9	12	R15	21	R30	30	R48	24		
C9		R1	15	R16	18	R31	31	R50	23		
THRU		R2		R17	18	R32	32	R51	27		

MS 424156A

Figure 25. Power Supply Control Circuit Card Assembly (1314221) (Group 2400)

FIGURE 15. Example - electronic items legend.

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APPENDIX A

CLASSIFICATION OF DEFECTS

10. SCOPE.

10.1 Scope. This appendix provides the definitions of major and minor defects, provides a list of the various defects that may be found in a RPSTL, and classifies these defects as major or minor. A separate list of defects is provided for the Introduction-Format portion and another for the Tabular Listing. This appendix is a mandatory part of this standard, and information contained herein is intended for compliance.

20. DEFINITIONS.

20.1 Major Defect (RPSTL). A defect which would cause a considerable loss of time or prevent the user from identifying or locating, or which would cause a delay in obtaining the repair parts and special tools required for performing his maintenance function. This classification also covers defects which represent major deviations in format from publication standards.

20.2 Minor Defect (RPSTL). A defect which does not prevent the use from obtaining the required information to perform his function but which may cause minor inconvenience or difficulty to the user. This classification also covers defects which represent minor deviations in format from publication standards.

30. DEFECT CLASSIFICATIONS.

30.1 Introduction-Format.

30.1.1 Major Defects.

a. Section or paragraph omitted, not explained, or not implemented as explained. A referenced manual does not cover the FGC item or subfunctional group item referenced.

b. Section explanation incorrect; incorrect procedure prescribed.

c. Column heading incorrect or inconsistent with data in column.

d. Source code explanations incorrect, incomplete, or obsolete.

e. Maintenance code explanations incorrect, incomplete, or obsolete.

f. Recoverability code explanations incorrect, incomplete, or obsolete.

APPENDIX A

g. Description column explanation(s) omitted, incomplete, or incorrect.

h. "Usable on" codes (if required) not used, not explained, or incorrectly used or described.

i. Procedures on how to locate repair parts (known or unknown NSN/part number) are incorrect, omitted, or incomplete.

j. Table of contents incorrect, omitted, incomplete, or inconsistent with titles in listing and MAC.

k. Functional or subfunctional group mission, incorrect, or inconsistent with MAC or figure titles.

l. "Current as of" date missing or incorrect.

m. "Reporting Errors and Recommending Improvements" statement missing.

30.1.2 Minor defects.

a. Unnecessary material included, or page space is wasted.

b. Minor wording/format differences from examples in figure 4.

c. References omitted, incomplete, incorrectly included in a "combined" manual, or listed reference is not available to user. (Includes incorrect title listed for referenced publications).

d. Abbreviations used in listing not explained or incorrectly explained, or unauthorized symbols included with abbreviations.

e. Paragraph on use of DA Form 2028 or DA Form 2028-2 incorrect, omitted, or incorrectly included in the RPSTL appendix of a combined manual.

f. Numbering incorrect (pages, sections, paragraphs, columns, figures, or figure items out of sequence).

30.2 Tabular listing with associated figure.

30.2.1 Major defects.

a. Notes or similar insertions made in listing not clear.

b. Item omitted from indexes or incorrectly reflected in indexes.

c. SMR coding omitted or incorrect in relation to MAC.

d. Source code incorrect, inconsistent, or omitted.

APPENDIX A

e. Maintenance codes omitted, incorrect, or inconsistent in relation to MAC.

f. Recoverability coding incorrect, inconsistent, or omitted.

g. NSN omitted for item(s) source coded "PA," "PB," "PC," "PD," "PE," "PF," or "PG" that are on the Prescribed Load List (PLL), Authorized Stockage List (ASL), or, when applicable, on an Essential Repair Parts Stockage List (ERPSL).

h. Nomenclature omitted, incorrect, incomplete, or inconsistent.

i. FSCM or part number for an item with no NSN is not the same in a -20P as in a -34P, or the part number in the parts lists is listed differently in the index.

j. FSCM or part number omitted.

k. Material required for manufacture/fabrication (item source codes "MO," "MF," "MH," "MD") is not in Bulk-Items list, or the "make from (item name, P/N)" statement is not in DESCRIPTION AND USABLE ON CODE (UOC) column.

l. SMR codes are not compatible with narrative instructions.

m. No illustration item number for listed repair part. Item number is on figure, but does not appear in listing at prescribed maintenance level.

n. FGC/subfunctional group illustration missing from listing, even though MAC and narrative coverage prescribe inclusion.

o. Defect on figure referenced in entry, such as: associated figure does not contain referenced callout; no callout assigned to part; part incorrectly illustrated; part cannot be identified on figure; or same callout assigned to different items.

p. NO BOI included for special tools set/kit line item entry in description column, Section III.

q. No entry for part illustrated and called out on figure. (Not a defect in organizational or aviation unit category RPSTL when higher category RPSTL illustrations are used, unless the 3d position of the SMR code indicates the part is authorized to organizational or aviation unit level).

r. Item entry inconsistent with MAC: spare part allocated on MAC omitted.

s. Entry of the item is not applicable to the parts list. (Not a component of the applicable end item/system; not supported by the MAC, maintenance code or procedure, inconsistent with recoverability coding of assembly.

t. Entry is in wrong FGC or subfunctional group code figure or listing.

u. Entry for required item omitted from listing (part referred to in MAC or narrative not in listing; part in -20P not in -34P; part coded "O" in third position of SMR code in -34P not in -20P; etc.).

v. Next higher assembly for part source coded "XA" cannot be identified or cannot be requisitioned.

w. "Usable on Code" omitted or incorrect.

x. FSCM part number incorrect or inconsistent (item with valid NSN).

y. NSN included for item source coded "KD," "KF," "KB," "MO," "MF," "MH," "MD," "AO," "AF," "AD," or "XA."

z. Obsolete SMR codes used.

30.2.2 Minor Defects.

a. Wording difference in item name; incorrect description (will not impair user's ability to identify part).

b. Quantity omitted, incorrect, or inconsistent.

c. Incorrect/unauthorized format used to list material required for manufacturer, or for assembled item (part source coded "MO," "MF," "MH," "MD," or "AO," "AF," "AH," "AD").

d. Incorrect/inconsistent format for indicating kits/sets and their components.

e. Nonessential information included (additional part numbers, previous NSN's interchangeable parts, unnecessary repetition, or expendable supplies and materials are listed).

f. Different items numbers assigned to a part which appears more than once in an FGC/subfunctional group, or the same item number assigned to identical parts within two or more FGC/subfunctional groups in a single figure.

g. Quality of illustration/listing is poor.

APPENDIX A

h. All applications of part not indexed or not correctly indexed.

i. FSCM or part number for an item with no NSN is not the same in a -20P as in a -34P, or a part number in the parts list is not the same as the part number in the index.

j. End item being covered by the RPSTL appears as a line item entry in a listing/illustration figure.

k. Callouts on illustration are not in authorized sequence, making it difficult to locate an item number in the listing.

l. Column headings incorrect - when not covered by major defect, 30.1.1c.

m. Correct information included in manual, but not in the format/location prescribed by the standard.

n. Numbering incorrect (pages, columns, figures, or figure items).

o. NSN incorrect or incomplete.

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APPENDIX B

CONTENT/FORMAT SELECTION SUMMARY

FOR REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

10. Scope. This appendix to to be used by the acquiring activity to specify which optional requirements of this standard are to be contractually imposed in the acquisition of RPSTL for the equipment and the contract (both identified on the reverse side of this sheet.) This appendix is a mandatory part of this standard and as indicated on the completed Content/Format Selection Summary List (to be completed by the Government) is intended for compliance.

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

10.2 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.

CONTENT/FORMAT SELECTION SUMMARY LIST - RPSTL

Equipment name/nomenclature _____
Contract/order No. _____

Paragraph Number	Optional Requirement	Option Selected	Remarks
5.1.1a	RPSTL TECHNICAL MANUAL		
5.1.1b	APPENDIX, COMB/NARRATIVE		
5.1.1c	APPENDIX, DMWR		
1.2, 5.1	MAINTENANCE LEVEL		
5.1.2.2 TABLE 1	SECTION I INTRODUCTION "(enter appl. para no., Table I)"		
5.1.2.3.6	INDENTIONS		
5.1.2.3.12a,b	KITS AND KIT REPAIR PARTS-OPTION I		
5.1.2.3.12c,d	KITS AND KIT REPAIR PARTS-OPTION II		
5.1.2.3.15b	MODULE/PC PARTS LIST		
5.1.2.5.5	REFERENCE DESIGNATOR INDEX		
5.1.2.6	ILLUSTRATION I.D. NO.		
5.1.2.6	HALFTONE ILLUSTRATIONS - REVISION		
5.1.2.6.1a	NON CLOCKWISE ITEM SEQUENCE		
5.1.2.6.1c	ELECTRONIC ITEMS - LEGEND		
5.1.2.6.1d	FIGURE NUMBERING METHOD "(indicate method in remarks col)"		
5.1.2.6.1j	MULTI-SHEET ILLUSTRATIONS		
5.1.2.9	STACKED FORMAT		
5.1.2.11.2	CHANGE SYMBOLS		
5.2.2 5.2.2.a thru 5.2.2.h	GOVERNMENT FURNISHED DATA "(indicate applicable data in remarks column)"		
3.3.1	In-process review		

The content/format requirements identified above in the Option Selected or Remarks column by a check mark or explanatory remark(s) are herewith established as mandatory requirements of MIL-STD-335(TM) and are binding on this contract.

Activity _____
Signature _____
Representative _____
Date _____

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 A187

INSTRUCTIONS: In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge *(DO NOT STAPLE)*, and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

NOTE: This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification 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.

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions – Reverse Side)

1. DOCUMENT NUMBER	2. DOCUMENT TITLE
MIL-STD-335(TM)	Manuals, Technical: Repair Parts and Special Tools List

3a. NAME OF SUBMITTING ORGANIZATION	4. TYPE OF ORGANIZATION *(Mark one)*
	☐ VENDOR ☐ USER ☐ MANUFACTURER ☐ OTHER *(Specify)*: _____
b. ADDRESS *(Street, City, State, ZIP Code)*	

5. PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

c. Reason/Rationale for Recommendation:

6. REMARKS

7a. NAME OF SUBMITTER *(Last, First, MI)* – Optional	b. WORK TELEPHONE NUMBER *(Include Area Code)* – Optional
c. MAILING ADDRESS *(Street, City, State, ZIP Code)* – Optional	8. DATE OF SUBMISSION *(YYMMDD)*

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