

MILITARY STANDARD

MIL-STD-335(TM)
NOTICE 1
2 May 1986

MANUALS TECHNICAL

REPAIR PARTS AND SPECIAL TOOLS LIST

TO ALL HOLDERS OF MIL-STD-335(TM):

1. THIS CHANGE NOTICE ELIMINATES THE STACKED FORMAT FOR NEW RPSTL'S, CHANGES THE TITLE OF SECTION IV OF RPSTL, AND ADDS A FIGURE AND ITEM NUMBER CROSS-REFERENCE INDEX. THE FOLLOWING PAGES OF MIL-STD-335(TM) OF 15 JULY 1984 HAVE BEEN REVISED AND SUPERSEDE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
v-vii	2 May 1986	v-vii	15 July 1984
3-8	2 May 1986	3-8	15 July 1984
11/12a/12b	2 May 1986	11-12	15 July 1984
13-14	2 May 1986	13-14	15 July 1984
19-26	2 May 1986	19-26	15 July 1984
31-32a/32b	2 May 1986	31-32	15 July 1984
33-34	2 May 1986	33-34	15 July 1984
41-42a/42b	2 May 1986	41-42	15 July 1984
53-54	2 May 1986	53-54	15 July 1984

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-335(TM) will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking point until the military standard is completely revised or canceled.

Custodian:
Army - TM

Preparing Activity:
Army - TM

Review activities:
Army - ML, AR, AT, AV
CR, EA, ME, MI, SC

(Project TMSS -A226)

User activities:
Army - MD

AMSC NO. A3343

TMSS

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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.

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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 Deleted.

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.

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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. Cross-reference indexes.

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.

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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 reflect the content of the applicable RPSTL and comply with the following requirements:

(1) Section numbers with titles, functional group codes (FGC) with titles, and each index title shall be listed by the same nomenclature and in the same sequence in which they appear in the RPSTL. 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 its 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 1, 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).

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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 formatted 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 paragraphs 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 paragraph.

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 spare/repair parts.

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 Catalog Handbook H4-1 and H4-2, shall appear in the FSCM column preceding the part number listed in the PART NUMBER column.

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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.

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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 - Cross-reference indexes. This section shall consist of three 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; (3) the FIGURE AND ITEM NO. TO NSN, FSCM, and PART NUMBER INDEX. The NSN index shall be a double column index. The P/N and the figure and item number indexes shall be single column. The title of each index shall be centered above the index, and the column headings and format shall be as shown in figure 11, 12, and 12a. The NSN index shall be placed ahead of the P/N index and the figure and item number index. Each 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 (NIN) (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 Figure and item number index. Unless otherwise specified by the acquiring activity, this index shall be included. All figure and item numbers that are on the parts list in sections 2 and 3 shall be arranged in ascending alphanumeric sequence by figure and item number. Each figure and item number shall be followed in order by applicable NSN, FSCM, and part number. The format shall be as shown in figure 12a. When an NSN has not been assigned to an item, the STOCK NUMBER column shall be left blank.

5.1.2.5.4 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.

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5.1.2.5.5 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.

5.1.2.5.6 Reference designator (REF DES) index. When specified by the acquiring activity, a fourth 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.

5.1.2.5.7 Page numbering - Section IV. Index pages 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.

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(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.

c. 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.

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g. Arrangement of figures. All illustrations prepared for spares, repair parts, special tools, special TMDE, and other special support equipment shall be arranged in figure number sequence. They shall precede their companion parts list (on the left hand page preceding the parts list or at the top of the same page of the parts list).

h. Blank pages. Blank pages shall be avoided, where possible. However, companion illustrations and parts lists shall not be placed back-to-back on the same page to avoid 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.

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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 Deleted.

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.

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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:

<u>Paragraph No. (herein)</u>	<u>Data Requirements</u>	<u>Applicable DID</u>	<u>DID Title</u>
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.)

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TABLE I. Applicable introduction content list. 1/

Section/ Paragraph 2/	Heading/title
	RPSTL TITLE 3/
I.	INTRODUCTION
1.	Scope
2.	General
2a.	Section II - Repair Parts List
2b.	Section III - Special Tools List
2c.	Section IV - National Stock Number, Part Number, and Figure and Item Number Index
3.	Explanation of Columns (Section II and III)
3a.	Column (1) ITEM NUMBER
3b.	Column (2) SMR CODE <u>4/</u>
3c.	Column (3) FSCM
3d.	Column (4) PART NUMBER
3e.	Column (5) DESCRIPTION AND USABLE ON CODE (UOC) <u>5/</u>
3f.	Column (6) QTY
4.	Explanation of Columns (Section IV).
4a.	STOCK NUMBER INDEX
4a(1);(2);(3)	STOCK NUMBER; FIG; ITEM
4b.	PART NUMBER INDEX
4b(1);(2);(3)	FSCM; PART NUMBER; STOCK NUMBER
4b(4);(5)	FIG; ITEM
4c.	FIGURE AND ITEM NUMBER INDEX
4c(1);(2);(3)	FIG; ITEM; STOCK NUMBER
4c(4);(5)	FSCM; PART NUMBER
5.	Special Information <u>6/</u>
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 portions 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. Remaining 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.

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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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0001 Link disposal bracket.....	1-1	
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
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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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Group 03	Automatic lead computing sight M61.....	4-1	4
03	Boresight adjustment hardware.....	4-1	4
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FIGURE 1. Example of table of contents (cont'd) (Sheet 2 of 2).

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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 maintenance.

c. Section IV - Cross-reference Indexes. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a separate 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. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross-references NSN, FSCM, and part numbers.

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

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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 1, 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 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 - Cross-reference Indexes. 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. The figure and item number index lists figure and item number in alphanumeric sequence and cross-references NSN, FSCM and part number.

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FIGURE 2. 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. Cross-reference 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. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross-references NSN, FSCM and part numbers.

FIGURE 4. Example of introduction (Sheet 1 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 exceeds 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 (Section 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.

c. FIGURE AND ITEM NUMBER INDEX.

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

(2) 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.

(3) STOCK NUMBER column. This column lists the NSN for the item.

(4) 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.

(5) 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.

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:

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

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

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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 8a of 10).

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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:

<u>Publication</u>	<u>Short Title</u>
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 use the Figure and Item Number Index to find the NSN.

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 National Stock Number or the Part Number Index, 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. Turn to 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).

<u>Abbreviations</u>	<u>Explanation</u>
cd or zn-pltd	cadmium 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

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

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SECTION IV		TM55-XXXX-XXX-23P			
CROSS-REFERENCE INDEXES					
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	26		21	9
	50	41		21	52B
	50	45			
				46	66
	44	37		46	85
	48	37		47	2
	48	45		47	5
5320-00-117-6832	109	11		47	17
	52A	11		47	42
	52A	14		47	59
	52A	26		47	76
	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. Example - national stock number index

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SECTION IV		TM55-XXXX-XXX-23P		
CROSS-REFERENCE INDEXES				
PART NUMBER INDEX				
FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
88044	AN815-4	4730-00-925-4752	129A	133A
			150	32
			151	10
88044	AN815-4J	4730-00-8750-8264	52	228
			58	111
			106	21
88044	AN816-4D	4720-00-240-5904	106	29
88044	AN816-6-2D	4730-00-240-5904	52	251
88044	AN818-100	4730-00-287-0290	53	5
			53	83
			53	93
			92	1A
			92	12
			92	32
			71A	7
88044	AN818-120	4730-00-287-0287	71A	7
88044	AN818-160	4730-00-222-1915	150	86
88044	AN818-4D	4730-00-287-0289	53	
			53	
			58	
			71	
			129	
			129	
			150	
88044	AN818-4J	4730-00-287-0287	52	
			52	
			52	
88044	AN818-6D	4730-00-142-2167	20	
			20	
			20	
			20	
			20	

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FIGURE 12. Example - part number index

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SECTION V

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CROSS-REFERENCE INDEXES

FIGURE AND ITEM NUMBER INDEX

FIG.	ITEM	STOCK NUMBER	FSCM	PART NUMBER
5	1		80063	SM-B-44762
5	2	5305-00-993-0191	96906	MS35206-212
5	3	5310-00-543-2410	96906	MS35338-40
5	4	5950-00-488-3056	96906	MS14046-4
5	5	5910-00-889-4523	80063	SM-B-447470
5	6	5310-00-934-9739	969-6	MS35649-242
5	7	5310-00-951-4679	96906	MS27183-3
5	8	5340-00-558-7868	80063	SM-B-44768
5	10	5340-00-995-6333	80205	NAS139P3
5	11	5950-00-824-0203	96906	MS90538-04
5	12	5910-00-113-9817	81349	M39014/02-1345
5	13	5910-00-951-5200	80063	SM-B-447473
5	15	5910-00-007-3974	81349	ME9003/01-2991
5	16	5950-00-813-0263	80063	SM-D-449039
5	17		80063	SM-B-447763
5	18	5305-00-993-0190	96906	MS35206-214
5	19	5340-00-782-8737	80205	NAS1397P4N

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FIGURE 12a. Example - figure and item number index

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CONTENT/FORMAT SELECTION SUMMARY

FOR REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

10. Scope. This appendix is to be used by the acquiring activity to specify which optional requirements of this standard are to be contractually imposed. 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.

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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	SECTION I INTRODUCTION		
TABLE 1	"(enter appl. para no., Table 1)"		
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		
5.1.2.5.3	FIGURE AND ITEM NUMBER INDEX		
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		
5.1.2.11.2	CHANGE SYMBOLS		
5.2.2	GOVERNMENT FURNISHED DATA		
5.2.2.a thru 5.2.2.h	"(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 _____