

**NOTICE OF
CHANGE**

**NOT MEASUREMENT
SENSITIVE**

MIL-STD-40051A
NOTICE 2
30 October 2001

**DEPARTMENT OF DEFENSE
STANDARD PRACTICE**

**PREPARATION OF DIGITAL TECHNICAL INFORMATION
FOR
MULTI-OUTPUT PRESENTATION OF TECHNICAL MANUALS**

TO ALL HOLDERS OF MIL-STD-40051A:

1. THE FOLLOWING PAGES OF MIL-STD-40051A HAVE BEEN REVISED AND
SUPERSEDE THE PAGES LISTED:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
<i>BASIC</i>			
19	2 Mar 99	19	Reprinted without change
20	30 Oct 01	20	15 Feb 01
37	2 Mar 99	37	Reprinted without change
38	30 Oct 01	38	15 Feb 01
55	2 Mar 99	55	Reprinted without change
56-58	30 Oct 01	56-58	2 Mar 99
75-76	30 Oct 01	75-76	2 Mar 99
113	2 Mar 99	113	Reprinted without change
114	30 Oct 01	114	2 Mar 99
114a-114b	30 Oct 01	New pages	
117-118	30 Oct 01	117-118	15 Feb 01
147	30 Oct 01	147	15 Feb 01

AMSC N/A

AREA TMSS

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<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
148-152	30 Oct 01	148-152	2 Mar 99
169	30 Oct 01	169	15 Feb 01
170-172	30 Oct 01	170-172	2 Mar 99

2. Changes are indicated by a vertical bar in the margin of the page. Changes to the matrixes in appendix A are indicated by gray shading.

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

4. Holders of MIL-STD-40051A 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 points until the standard is completely revised or canceled.

Custodians:

Army - TM

Review Activities:

Army - AC1, AR, AT,
AV, CR, EA, MI,
PT

Preparing Activity:

Army - TM

Project Number:

TMSS A366

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3.148 Task. A sequence of user actions with a beginning and an end. User tasks relate to installation, checkout, operation, and maintenance of systems or equipment.

3.149 Technical Manuals (TM). Manuals that contain instructions for the installation, operation, maintenance, and support of weapon systems, weapon system components, and support equipment. TM information may be presented, according to prior agreement between the contractor and the Government, in any form or characteristic, including hard printed copy, audio and visual displays, electronic imbedded media, disks, other electronic devices, or other media. They normally include operational and maintenance instructions, parts lists, and related technical information or procedures exclusive of administrative procedures.

3.150 Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, electrical or electronic characteristics of an item and comparing those characteristics with prescribed standards.

3.151 Test, Measurement, and Diagnostic Equipment (TMDE). Any system or device used to evaluate the operational condition of an end item or subsystem thereof, or to identify and/or isolate any actual or potential malfunction. TMDE includes diagnostic and prognostic equipment, semiautomatic and automatic test equipment (with issued software), and calibration test or measurement equipment.

3.152 Time Between Overhaul (TBO) items. Those items having a definite retirement schedule within a defined overhaul interval, e.g., those items which must be replaced within a system assembly, subassembly, or component between scheduled overhauls.

3.153 Title Block Page. The first page after the warning summary in the front matter portion of a TM. It identifies the TM by publication number, date, title and NSN/part number/model of equipment covered in the manual.

3.154 Top-down generation breakdown. The pyramidal 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 an 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.

3.155 Unit maintenance. The responsibility of a using organization to perform maintenance on its assigned equipment. It normally consists of inspecting, servicing, lubricating, adjusting, and replacing parts, minor assemblies, and subassemblies. The replace function for this level of maintenance is indicated by the letter "O" in the third position of the SMR code. An "O" appearing in the fourth position of the SMR code indicates complete repair is possible at the unit maintenance level.

3.156 Usable on code (UOC). A three-position alphanumeric code representing the applicable configuration in which an item is used. When an item is used on all configurations or when only one configuration is covered by the RPSTL, UOCs should not be shown.

3.157 User. A person using the technical manual.

3.158 Wiring diagram. Diagram illustrating signal flow or wiring connections. Where appropriate, voltage readings should be shown.

3.159 Work packages (WP). Presentation of information functionally divided into individual task packages in the logical order of work sequence. These WPs should be stand alone general information, description, theory, operating, maintenance, troubleshooting, parts, and supporting information units containing all information required for directing task performance.

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4. GENERAL REQUIREMENTS.

4.1 General. Technical content requirements for the preparation and delivery of all technical manuals and revisions covering operation and maintenance, at all levels of maintenance through overhaul (depot), including Depot Maintenance Work Requirements (DMWRs) and National Maintenance Work Requirements (NMWRs) are provided in MIL-STD-40051-1A through MIL-STD-40051-6A. All requirements throughout this standard for depot maintenance or DMWRs shall be followed for NMWRs.

4.2 Types of technical manuals. Appendix A, Technical Manual Content Selection Matrixes, lists specific technical content requirements for each type of maintenance manual, including multilevel TMs, covered by this standard. Each type of TM shall provide in detail the maintenance coverage prescribed for the applicable maintenance level(s) by the Maintenance Allocation Chart (MAC) and SMR-coded items.

4.3 Selective application and tailoring. MIL-STD-40051A contains some requirements that may not be applicable to the preparation of all technical manuals. Selective application and tailoring of requirements contained in MIL-STD-40051A are the responsibility of the acquiring activity and shall be accomplished through the use of the matrixes provided in Appendix A. The applicability of some requirements is also designated by one of the following statements: unless specified otherwise by the acquiring activity; as/when specified by the acquiring activity; or when specified by the acquiring or proponent activity.

4.4 Preparation of digital data for electronic delivery. Technical manual data prepared and delivered digitally in accordance with this standard shall be Standard Generalized Markup Language (SGML) tagged using the Document Type Definitions (DTDs) and the Formatting Output Specification Instance (FOSI) or style sheets in accordance with MIL-STD-2361. Refer to 4.6 for information on obtaining or accessing the DTDs and FOSIs.

4.5 Use of the DTDs/FOSIs.

4.5.1 Page-based TMs. The DTDs referenced in this standard interpret the technical content and structure for the functional requirements contained in this standard and are mandatory for use. The FOSIs referenced herein interpret the style and format. As specified by the contracting activity, FOSIs or style sheets may be used to produce final reproducible paper copy for all TMs prepared in accordance with this standard. For additional information on DTDs and specific FOSIs, refer to MIL-STD-2361.

4.5.2 Frame-based TMs. The DTDs referenced in this standard interpret the technical content and structure for the functional requirements contained in this standard and are mandatory for use. Development of frame-based TMs is accomplished through the use of the DTDs combined with the requirements contained in MIL-PRF-87268. The requirements contained in MIL-PRF-87268 apply unless they conflict with the requirements in this standard. The requirements in this standard take precedence over the requirements contained in MIL-PRF-87268. A FOSI or style sheet is used to interpret the style and format for frame-based screen display. For additional information on DTDs and specific FOSIs or style sheets, refer to MIL-STD-2361.

4.6 Obtaining the DTDs/FOSIs. The DTDs, FOSIs and associated tag and attribute descriptions, which are SGML constructs, may be obtained from the Army SGML Registry and Library (ASRL). The ASRL assets may be obtained using the methods described in MIL-STD-2361 as follows:

- a. World Wide Web (WWW): ASRL homepage Uniform Resource Locator (URL) <http://www.asrl.com/>

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Graphic Symbols	Electrical and Electronic Mechanical Digital (Logic) Fluid Power	IEEE 315A-86, IEEE 280-85 MIL-STD-17 IEEE 91-84 ANSI Y32.10
Reference Designators	Electrical and Electronic	IEEE 200-75
Unit Symbols	All	IEEE 260-78
Logic	All	IEEE 91-84

4.8.27.2.5.2 Types of diagrams. The following types of diagrams may be included in the IETM. Refer to MIL-HDBK-1222 for examples of types of diagrams.

- a. Block diagrams.
- b. Schematic diagrams.
- c. Pictorial diagrams.
- d. Cutaway diagrams.
- e. Logic diagrams.
- f. Wiring diagrams/wire lists.
- g. Cable diagrams.
- h. Piping diagrams.
- i. Test setup diagrams.

4.8.27.2.6 Charts and graphs. Charts and graphs shall be prepared as illustrations. Instructions shall be provided for use and interpretation of complex graphs.

4.8.27.2.7 Tools and test equipment illustrations. Only uncommon or unusual uses and connections for test purposes shall be illustrated if it is essential to do so to avoid misunderstanding. Unusual operations shall also be illustrated. Special tools and test equipment shall be illustrated, as applicable. Standard tools and test equipment shall not be illustrated, nor shall self-evident or generally known uses be shown.

4.8.27.3 Elements of illustrations.

4.8.27.3.1 Border rules and boxes. Border rules and boxes shall not be used for single illustrations, but are used to separate multisection illustrations on the same page or for locator/detail views. (Refer to MIL-HDBK-1222 for an example of border rules and boxes.)

4.8.27.3.2 Use of the human figure. When necessary, illustrations may include a human figure or parts of the body. The illustrated human figure shall not obscure necessary details of the item(s) being illustrated.

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4.8.27.3.3 Credit lines.

- a. The photographer's or illustrator's name shall not appear on any illustration.
- b. A manufacturer's name, symbol, or trademark shall not appear on illustrations for the purpose of identifying the illustration.

4.8.27.3.4 Callouts. Index numbers, reference designators, nomenclature, leader lines, sweep arrows, legends, and other identifiers shall be used, when necessary, to identify significant features. Refer to MIL-HDBK-1222 for examples of the use of these types of identifiers.

4.8.27.3.4.1 Index numbers. Index numbers start with Arabic numeral 1 and continue consecutively. Index numbers continue in sequence from one sheet to another in a set of multisheet illustrations.

- a. When a series of illustrations are used within the same informational, operational or maintenance work package (e.g., theory, operator instruction, or removal procedure), index numbers shall continue from one illustration in that series to the next, however, if an item that already has been assigned an index number is used in more than one illustration in that series, it must retain the same index number.
- b. Index numbers shall be in clockwise sequence (beginning at 11 o'clock), disassembly sequence, or in order of mention in the text.
- c. All items shown as exploded shall be identified. Items drawn in phantom need not be identified.
- d. Index numbers shall not be contained within circles unless required for a specific reason in

4.8.27.3.4.2 RPSTL figures. For RPSTL figures, the sequence of index numbers start at 11 o'clock and proceed clockwise.

4.8.27.3.5 Leader lines and arrowheads. Leader lines shall be uniform, short, and as straight as possible; avoid the use of dogleg-shaped lines unless absolutely necessary. Arrowheads may be added for clarity. Do not allow leader lines to touch the callout. Do not allow arrowheads to enter the object to which they apply. If it is necessary to enter the object to provide for greater clarity, a breakoff symbol shall be used in lieu of an arrowhead.

4.8.27.3.6 Illustration legends. When necessary for clarity, legends shall be prepared to identify index numbers on illustrations. Legends shall be a part of the illustration and shall not be placed in the text area. Examples of legends are provided in MIL-HDBK-1222.

4.8.27.3.7 Procedures on illustrations. Procedural steps shall not be placed on illustrations.

4.8.27.4 Graphic techniques. In addition to the graphic techniques provided in 4.8.27.4.1 through 4.8.27.4.10 refer to MIL-HDBK-1222 for suggested graphic techniques used for the preparation of U.S. Army TMs.

4.8.27.4.1 Illustration figure numbers. Figure numbers for illustrations contained in work packages shall be avoided whenever possible. However, figure numbers for Depot Maintenance Work Requirements (DMWRs), NMWRs, Repair Parts and Special Tool Lists (RPSTLs), and foldouts are required. Figure numbers shall be placed on the illustration and be an integral part of the illustration. ■

4.8.27.4.2 DMWR/NMWR figure numbers. Figures shall be numbered consecutively within each work package ■ starting with the Arabic numeral 1.

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- a. Logistic Support Analysis Record (LSAR). The technical data and instructions developed by the requirements of Logistics Support Analysis/Logistic Management Information and Department of Defense (DoD) Requirements for a Logistic Support Analysis Record (LSAR), (including the maintenance allocation chart (MAC)) shall be used as the baseline to prepare TMs.
- b. MAC. For equipment that does not have LSAR data available, either a Preliminary Maintenance Allocation Chart (PMAC) or the MAC shall be used as the baseline to prepare TMs.
- c. TB 750-93-1. If a waiver of standard requirements is granted by the acquiring activity, TB 750-93-1 may be used as the baseline for preparing TMs.
- d. Additional source data. Available engineering drawings shall be used with the other required data. Sound engineering principles and techniques, available engineering analyses, service experience, performance data on the item and on similar items, and all other Reliability, Maintainability, Supportability (RMS) and Operational Availability (Ao) data available shall be used in the preparation of specific instructions.

5.2 Introductory information preparation. Requirements for the preparation of introductory and planning information for page-based technical manuals are provided in 5.3. Requirements for the preparation of introductory and planning information for frame-based technical manuals are provided in 5.4

5.3 Preparation of front and rear matter for page-based TMs. Requirements for the preparation of front and rear matter necessary to supplement the technical content chapters and associated work packages in MIL-STD-40051-1A through MIL-STD-40051-6A are provided in 5.3.1 and 5.3.2. Appendix A, Technical Manual Content Selection Matrixes provides detailed assembly and content requirements for all TMs covering operation, maintenance, and parts information, at all maintenance levels through depot.

5.3.1 Front matter <frnt>. As applicable, material preceding the first text page shall consist of the following in the order specified below.

- a. Front cover <frntcover>.
- b. Warning summary <warnsum>.
- c. Change transmittal page <chgsheet>.
- d. List of effective pages/work packages <loepwp>.
- e. Title block page <titleblk>.
- f. Table of contents <contents>.
- g. "How To Use This Manual" information <howtouse>.
- h. Troubleshooting introduction work package <tsintrowp>. (Troubleshooting TMs only.)
- i. General information work package <ginfowp>.
- j. General information work package <pms-ginfowp> (Preventive Maintenance Services Manual only).

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- k. General information work package <pm-ginfowp> (**Phased Maintenance Manual only**).

5.3.1.1 Front cover <frntcover>. A front cover shall be prepared for each TM and DMWR. The formats of the front covers are shown in figure 7 (TM), figure 8 (Phased Maintenance and Preventive Maintenance Services TMs), and figure 9 (DMWR). The front cover shall contain the following content information.

- a. Security classification (when required).
- b. TM number <tminfono>.
- c. TM title <prtitle>.
- d. National stock number (NSN) <nsn> for item(s) covered.
- e. End Item Code (EIC) <eic>, as specified in the Army Master Data File (AMDF).
- f. Subtitle when required <stitle>.
- g. Equipment illustration when required <graphic>.
- h. Availability statement (**depot only**) <avail>.
- i. Supersedure notice for revisions only <super>.
- j. Disclosure notice <disclos>.
- k. Distribution statement <dist>.
- l. Export control notice warning <export>.
- m. Destruction notice <destr>.
- n. Service nomenclature <servnomen>.
- o. TM date.
- p. Change designator <chgno> and date <chgdate>.
- q. Reproduction notice <reprod> (**depot only**).
- r. Distribution restriction <dist> (**depot only**).
- s. National Overhaul Standard Statement (NMWRs/DMWRs with NMP Overhaul Standards Only). ■

Additional detailed requirements for the above front cover content information are described in 5.3.1.1.1 through 5.3.1.1.8.

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5.3.1.1.1 TM number for joint service TMs. If the manual is jointly used, each Service's number shall be placed on the front cover and only the proponent activity's TM number shall be placed on each page within the TM. The numbers shall be prefixed with the word Air Force, Army, Marine Corps, or Navy (NAVSEA or NAVAIR), as applicable. The acquiring activity's (proponent activity's) name <servbranch> and manual number <tmno> shall be placed first. The TM number(s) for the other Services shall be in alphabetical sequence following the acquiring activity's name and manual number. For example,

"ARMY	TM 11-1510-204-34
AIR FORCE	TO 21M-LGM30G-12
MARINE CORPS	TM 12345A-15/1
NAVY (NAVAIR)	AI-F18AA-WRM-070
NAVY (NAVSEA)	SE211-FA-MMA-010/SPS-10A"

5.3.1.1.2 Availability statement (depotNMWR only) <avail>. For DMWRs only, the front cover shall contain the following availability statement: "This publication is not available through the AG publications centers. This publication is available through *(insert the name and address of the proponent activity)*."

5.3.1.1.3 Disclosure notice <disclos>. Unless specified otherwise by the acquiring activity, the following disclosure notice shall be placed on the front cover of all classified and unclassified TMs, except those with distribution statement A: "This information is furnished upon the condition that it will not be released to another nation without the specific authority of the Department of the Army of the United States, that it will be used for military purposes only, that individual or corporate rights originating in the information, whether patented or not, will be respected, that the recipient will report promptly to the United States, any known or suspected compromise, and that the information will be provided substantially the same degree of security afforded it by the Department of Defense of the United States. Also, regardless of any other markings on the document, it will not be downgraded or declassified without written approval of the originating United States agency."

5.3.1.1.4 Distribution statement <dist>. All TMs shall have a distribution statement placed on the front cover for each manual or revision. (Refer to figure 7.) The appropriate distribution statement shall be provided by the acquiring activity as selected from DOD 5230.24.

5.3.1.1.5 Destruction notice <destr>. All TMs marked with distribution statements "B", "C", "D", "E", "F", or "X" shall be marked with the destruction notice provided by the acquiring activity from DoD 5230.24. (Refer to figure 7.)

5.3.1.1.6 TM date. TMs shall be dated. The TM date shall be the date at which the last material to be included was received (copy freeze date, provided by the acquiring activity). The day, month, and year shall be given in that sequence (for example, 10 JULY 1998). (Refer to figure 7.)

5.3.1.1.7 Change designator and date <chgno> <chgdate>. When updates are prepared, the change designator and date shall be shown on the front cover (refer to figure 7), the title block page, and the change sheet. Unless specified otherwise by the acquiring activity, the change date shall be the date at which the material to be included was received (copy freeze date, provided by the acquiring activity).

5.3.1.1.8 For Army communications security (COMSEC) manuals use. Unless specified otherwise by the acquiring activity, unclassified TMs shall contain the notice FOR OFFICIAL USE ONLY. The notice shall be placed at the bottom center of the front cover and all TM pages. Classified COMSEC TMs shall be appropriately marked at the level of classification.

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5.3.1.1.9 National Overhaul Standards statement (NMWR/DMWR with NMP Overhaul Standards Only). The following shall be added to the title of NMWRs/DMWRs which document national overhaul standards for the National Maintenance Program: "Containing National Overhaul standards for". See figures 18 and 19 for examples.

5.3.1.2 Warning summary (including first aid data) <warnsum>. A warning summary shall be prepared for all TMs containing warnings. The warning summary shall appear on the first right-hand page immediately after the front cover. The warning summary shall include each general type of warning and warning symbol <warninfo> and hazardous materials warnings <hazmat>. Refer to MIL-HDBK-1222 for a typical example of a warning summary.

5.3.1.2.1 Preventive maintenance services and phased maintenance inspection manuals warning data (aviation only). For preventive maintenance services and phased maintenance inspection only, the warning data front page shall contain the TM number, service nomenclature, TM date, TM title and the following verbatim statement (Refer to figure 10).

"WARNING

Certain inspections are Mandatory Safety-of-Flight requirements, and the inspection intervals cannot be exceeded. In the event these inspections cannot be accomplished at the specified interval, the aircraft condition status symbol will be changed to a red X. Mandatory Safety-of-Flight inspection items are printed in bold face type.

NOTE

Inspection items contained in this manual are considered the minimum requirements for performing phased maintenance and must be performed. The cumulative effects of inspection deferrals are unknown and could result in catastrophic failure or increased maintenance at a later date. Therefore, the use of special lettering to emphasize Mandatory Safety-of-Flight Items is not to be construed as authority for deferral of other inspections."

5.3.1.3 Change transmittal page <chgsheet>. A change transmittal page shall be prepared and accompany each change to a TM. The change transmittal page shall not be page numbered and shall be located following the warning summary, or, the list of effective pages/work packages, if included. (Refer to figure 11).

5.3.1.4 List of effective pages/work packages <loepwp>. A list of effective pages/work packages shall be prepared in accordance with figure 12. The list of effective pages/work packages shall be prepared and transmitted with the basic version of the TM and each subsequent change or revision. It shall be located immediately following the warning summary.

5.3.1.5 Title block page <titleblk>. A title block page (Refer to figure 13) shall be prepared and follow the list of effective pages/work packages. The title block page shall include the reporting errors and recommended improvements statement <reporting>. For RPSTLs, the "current as of" date shall be inserted. When depot level repair parts are included in a lower level RPSTL, the following statement shall be added to the RPSTL title: "(Including Depot Maintenance Repair Parts)." When the publication contains National Overhaul Standards, the title block shall include the National Overhaul Standards Statement in accordance with paragraph 5.3.1.1.9.

5.3.1.5.1 Reporting errors and recommending improvements statement <reporting>. A reporting errors and recommending improvements statement (Refer to figure 13) shall appear below the prime title, NSN, EIC, and subtitle (if any) on the title block page. The mailing address, e-mail address and fax number of the responsible proponent shall be inserted in the statement.

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5.4.1.2 CD content frame <ietm.contents>. When more than one IETM is resident on a CD, the first information that shall appear on the EDS is the CD content frame. This frame shall provide the IETM number and title of all technical manuals that are contained on the CD.

5.4.1.3 Revision summary frame <loepwp>. When a revision to a IETM is issued, a revision summary frame shall be displayed containing a list of work packages by title that have been revised. For each work package listed, a brief description of the major changes shall be provided. The revised work packages listed on the revision summary frame shall be linked to the work package containing the revised information.

5.4.1.4 Identification information <frntcover>. Identification information shall be prepared for each IETM and DMWR/NMWR. The following data shall be included. ■

- a. Security classification (when required).
- b. TM number <tminfono>.
- c. TM title <prtitle>.
- d. National stock number (NSN) <nsn> for item(s) covered.
- e. End Item Code (EIC) <eic>, as specified in the Army Master Data File (AMDF).
- f. Subtitle when required <stitle>.
- g. Equipment illustration when required <graphic>.
- h. Availability statement (**depot only**) <avail>.
- i. Supersedure notice for revisions only <super>.
- j. Disclosure notice <disclos>.
- k. Distribution statement <dist>.
- l. Export control notice warning <export>.
- m. Destruction notice <destr>.
- n. Service nomenclature <servnomen>.
- o. TM date.
- p. Reproduction notice <reprod> (**depot only**).
- q. Distribution restriction <dist> (**depot only**).
- r. National Overhaul Standards Statement (**NMWR/DMWR with NMP Overhaul Standards only**). ■

Additional detailed requirements for the above content information is described in 5.4.1.4.1 through 5.4.1.4.7.

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5.4.1.4.1 TM number for joint service IETMs. If the IETM is jointly used, each Service's number shall be included and only the proponent activity's IETM number shall be placed on each frame of the TM. The numbers shall be prefixed with the word Air Force, Army, Marine Corps, or Navy (NAVSEA or NAVAIR), as applicable. The acquiring activity's (proponent activity's) name <servbranch> and manual number <tmno> shall be placed first. The IETM number(s) for the other Services shall be in alphabetical sequence following the acquiring activity's name and manual number. For example,

"ARMY	TM 11-1510-204-34
AIR FORCE	TO 21M-LGM30G-12
MARINE CORPS	TM 12345A-15/1
NAVY (NAVAIR)	AI-F18AA-WRM-070
NAVY (NAVSEA)	SE211-FA-MMA-010/SPS-10A"

5.4.1.4.2 Availability statement (depot only) <avail>. For DMWRs only, the following availability statement shall be included: "This publication is not available through the AG publications centers. This publication is available through (*insert the name and address of the proponent activity*)."

5.4.1.4.3 Disclosure notice <disclos>. Unless specified otherwise by the acquiring activity, the following disclosure notice shall be included on all classified and unclassified TMs, except those with distribution statement A: "This information is furnished upon the condition that it will not be released to another nation without the specific authority of the Department of the Army of the United States, that it will be used for military purposes only, that individual or corporate rights originating in the information, whether patented or not, will be respected, that the recipient will report promptly to the United States, any known or suspected compromise, and that the information will be provided substantially the same degree of security afforded it by the Department of Defense of the United States. Also, regardless of any other markings on the document, it will not be downgraded or declassified without written approval of the originating United States agency."

5.4.1.4.4 Distribution statement <dist>. All IETMs shall have a distribution statement for each manual or revision. The appropriate distribution statement shall be provided by the acquiring activity as selected from DOD 5230.24.

5.4.1.4.5 Destruction notice <destr>. All IETMs marked with distribution statements "B", "C", "D", "E", "F", or "X" shall be marked with the destruction notice provided by the acquiring activity from DoD 5230.24.

5.4.1.4.6 TM date. IETMs shall be dated. The IETM date shall be the date at which the last material to be included was received (copy freeze date, provided by the acquiring activity). The day, month, and year shall be given in that sequence (for example, 10 JULY 1988).

5.4.1.4.7 For Army communications security (COMSEC) manuals use. Unless specified otherwise by the acquiring activity, unclassified IETMs shall contain the notice FOR OFFICIAL USE ONLY. The notice shall be placed at the bottom center of all IETM frames. Classified COMSEC IETMs shall be appropriately marked at the level of classification.

5.4.1.4.8 National Overhaul Standards statement (NMWR/DMWR with NMP Overhaul Standards Only). The following shall be added to the title of NMWRs/DMWRs which document national overhaul standards for the National Maintenance Program: "Containing National Overhaul standards for". See MIL-HDBK-1222 for examples.

5.4.1.5 List of contents <contents>. A list of contents shall be prepared. The subject matter of the IETM shall be in alphabetical order by system/subsystem, equipment. Official nomenclature from the parts information database shall be used. To facilitate accesses, subsystems, subassemblies, installations, and individual components may be indented and listed in alphabetical order under the main system. Further subdivisions shall be included to list all descriptive, operation, troubleshooting, and maintenance tasks for each of the individual subject matter items included in the IETM.

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By Order of the Secretary of the Army:

Dennis J. Reimer
General, United States Army
Chief of Staff

Official:

JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
04964

DISTRIBUTION:

To be distributed in accordance with the initial distribution number (IDN) 369970 requirements for TM 11-5805-798-30-1.

FIGURE 17. Example of an authentication page.

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<div>DMWR X-XXXX-XXX</div> <div>DEPOT MAINTENANCE WORK REQUIREMENT CONTAINING NATIONAL MAINTENANCE REPAIR STANDARDS FOR INTERROGATOR SETS AN/TPX-46(V)1 (NSN 5895-00-423-1693) (EIC: IZA) AN/TPX-46(V)2 (NSN 5895-00-423-1694) (EIC: IZB)</div> <div><p>This publication is not available through the AG publications centers. This publication is available through US Army Communications-Electronics Command, Fort Monmouth, NJ 07703-5007.</p><p>NOTICE: Reproduction for non-military use of the information or illustrations contained in this publication is not permitted without specific approval of the US Army Communications-Electronics Command, Fort Monmouth, NJ 07703-5007.</p><p>DISTRIBUTION RESTRICTION: This publication contains technical information that is for official Government use only. Distribution is limited to Government agencies. Requests from outside the US Government for release of this publication under the Freedom of Information Act or the Foreign Military Sales Program must be made to AMSEL-LC-LM-LT, Fort Monmouth, NJ 07703-5007.</p><hr/>US ARMY COMMUNICATIONS-ELECTRONICS COMMAND, FORT MONMOUTH, NJ</div>
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FIGURE 19. Example of a DMWR cover for a DMWR with Overhaul Standards.

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<u>PUB TYPE</u>	<u>TITLE</u>	<u>APPLICABLE TABLE</u>
-30 (Aviation)	Aviation Intermediate Maintenance Manual for	A.4
-30&P (Aviation)	Aviation Intermediate Maintenance Manual including Repair Parts and Special Tools List for	A.4
-34	Unit, Direct Support and General Support Maintenance Manual for	A.3
-34&P	Direct Support and General Support Maintenance Manual including Repair Parts and Special Tools List for	A.3
-40	General Support Maintenance Manual for	A.2
-40&P	General Support Maintenance Manual including Repair Parts and Special Tools List for	A.2
DMWR	Depot Maintenance Work Requirement for	A.6
DMWR w/RPSTL	Depot Maintenance Work Requirement including Repair Parts and Special Tools List	A.6
NMWR	National Maintenance Work Requirement for	A.6
NMWR w/RPSTL	National Maintenance Work Requirement including Repair Parts and Special Tools List for	A.6
RPSTL	Repair Parts and Special Tools List for	A.5
-T	Aviation Unit Troubleshooting Manual for OR Aviation Intermediate Troubleshooting Manual for OR Aviation Unity and Intermediate Troubleshooting Manual for	A.7
Aircraft PMS	Preventive Maintenance Services Manual for	A.8
Aircraft PM	Phased Maintenance Inspection Checklist for OR Phased Maintenance Checklist for	A.9
IETM (Operator)	Interactive Electronic Technical Manual Operator's Manual for	A.10
IETM (-24&P)	Interactive Electronic Technical Manual Unit, Direct Support, and General Support Maintenance Manual Including Parts Information for	A.11
IETM (AVIM/AV UM) -23&P	Interactive Electronic Technical Manual Aviation Unit and Aviation Intermediate Maintenance Manual Including Parts Information for	A.11
IETM (DMWR)	Interactive Electronic Technical Manual Depot Maintenance Work Requirement for	A.12

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A.5.1.1.1 Technical content tables. Tables A.1 through A.9 simplify tailoring the technical content requirements of technical manuals prepared using this standard as a guide. The tables indicate which parts of MIL-STD-40051 are applicable and list the content requirements for each type of TM. The content requirements for each applicable TM shall be arranged in the order presented in the tables. Inclusion of the applicable tables of this appendix is mandatory and is intended for compliance.

A.5.1.2 Tailoring guidance for frame-based technical manuals. Unless otherwise directed by the acquiring activity, all maintenance instructions (operators through overhaul (depot)) for major weapon systems and all types of equipment, including test and support equipment, shall be on a single CD-ROM. This includes parts information data base or RPSTL, troubleshooting, PMS and PMI checklists, when applicable. The following types of technical manuals should not be combined with the maintenance instructions on the single CD-ROM.

- a. Aircraft Operators Manuals.
- b. DMWRs.
- c. Certain types of Operator Manuals when directed by the acquiring activity.
- d. NMWRs. ■

A.5.1.2.1 Additional tailoring requirements. Due to the EDS limitations for displaying schematics and wiring diagrams provided in IETMs, the acquiring activity may require that the schematics and wiring diagrams be printed on paper in a double king size (11-inch by 17-inch) as a supplement to the IETM.

A.5.1.2.2 Technical content tables. Tables A.10 through A.12 simplify tailoring the technical content requirements of frame-based technical manuals prepared using this standard. The tables indicate which parts of MIL-STD-40051A are applicable and list the content requirements for each type of TM. Inclusion of the tables of this appendix is mandatory and is intended for compliance.

A.5.2 Intended use. First determine the types of TMs required for each acquisition and then duplicate the table(s) that contain the content requirements for those types of TMs. Indicate the types of TMs needed by filling in the blank after "TM Requirements Matrix for" at the top of each matrix. For each type of TM selected, indicate in the open blocks the "TM Content" desired by entering an "R" for "REQUIRED" content, "NR" for content that is "NOT REQUIRED", or "O" for optional content that may be required in the TM later by the Government, but can not be determined at the time of the contract. All blocks for the selected TM types in Tables A.1 through A.12 must be completed with an "R", "NR", or an "O" for each TM acquisition. The blocks that already contain an "R" are required and cannot be changed. The blocks containing "NR" are not required for that type of TM and should not be included. The blocks that are shaded are as required. The remarks page can be used to provide the contractor additional instructions.

A.5.3 Acquisition requirements. The properly executed Technical Manual content Selection Matrix table becomes contractually binding when it is made part of the contract, statement of work or any other contractual instrument.

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Table A.6. TM Requirements Matrix for

TM Content	DMWR and DMWR with RPSTL	NMWR and NMWR with RPSTL	MIL-STD- 40051A Reference	Element Name
FRONT MATTER	R	R	5.3.1	<frnt>
Front cover	R	R	5.3.1.1	<frntcover>
Warning summary			5.3.1.2	<warnsum>
Change transmittal page	R	R	5.3.1.3	<chgsheet>
List of effective pages / work packages	R	R	5.3.1.4	<loepwp>
Title block page	R	R	5.3.1.5	<titleblk>
Table of contents	R	R	5.3.1.6	<contents>
How to use this manual	NR	NR	5.3.1.7	<howtouse>
<i>GENERAL INFORMATION WORK PACKAGE</i>	R	R	5.3.1.9	<ginfowp>
Scope	R	R	5.3.1.9.1	<scope>
Maintenance forms, records, and reports	R	R	5.3.1.9.2	<mfr>
Reporting equipment improvement recommendations (EIR)	R	R	5.3.1.9.3	<eir>
Hand receipt (HR) information			5.3.1.9.4	<handreceipt>
Corrosion prevention and control (CPC)			5.3.1.9.5	<cpedata>
Ozone depleting substances (ODS)			5.3.1.9.6	<odsdata>
Destruction of Army materiel to prevent enemy use			5.3.1.9.7	<destructmat>
Preparation for storage or shipment			5.3.1.9.8	<pssref>
Warranty information			5.3.1.9.9	<wrntyref>
Nomenclature cross-reference list			5.3.1.9.10	<nomenreflist>
List of abbreviations/acronyms			5.3.1.9.11	<loa>
Quality assurance (QA) (aviation only)			5.3.1.9.12	<qainfo>
Quality of material			5.3.1.9.13	<qual.mat.info>
Safety, care, and handling	R	R	5.3.1.9.14	<sftyinfo>
Nuclear hardness			5.3.1.9.15	<hcp>
Security measures for electronic data			5.3.1.9.16	<secrref>
Calibration			5.3.1.9.17	<calref>

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Table A.6. TM Requirements Matrix for

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TM Content	DMWR and DMWR with RPSTL	NMWR and NMWR with RPSTL	MIL-STD- 40051A Reference	Element Name
Engineering change proposals (ECP)	R	R	5.3.1.9.18	<ecp>
Deviations and exceptions	R	R	5.3.1.9.19	<deviation>
Mobilization requirements	R	R	5.3.1.9.20	<mobreq>
Flight safety critical aircraft parts	R	R	5.3.1.9.21	<fscapreq>
Cost considerations	R	R	5.3.1.9.22	<cost>
Copyright credit line			5.3.1.9.23	<copyrt>
Supporting information for repair parts, special tools, tmde, and support equipment	R	R	5.3.1.9.24	<supdata>
CHAPTER 1. DESCRIPTION AND THEORY OF OPERATION	R	R	1- 5.1	<gim>
<i>EQUIPMENT DESCRIPTION AND DATA WORK PACKAGE</i>	R	R	1- 5.2	<descwp>
Equipment characteristics, capabilities, and features	R	R	1- 5.2.1	<eqpinfo>
Location and description of major components			1- 5.2.2	<locdesc>
Differences between models			1- 5.2.3	<eqpdiff>
Equipment data			1- 5.2.4	<eqpdata>
Equipment configuration			1- 5.2.5	<eqpconfig>
<i>THEORY OF OPERATION WORK PACKAGES</i>			1- 5.3	<thrywp>
CHAPTER X. TROUBLESHOOTING PROCEDURES	R	R	3- 5.3	<tim>
<i>PRESHOP ANALYSIS WORK PACKAGE</i>	R	R	3- 5.3.4.3	<pshopanalwp>
<i>COMPONENT CHECKLIST WORK PACKAGE</i>	R	R	3- 5.3.4.4	<compchklstwp>
<i>OPERATIONAL CHECKOUT AND TROUBLESHOOTING PROCEDURES WORK PACKAGES</i>			3- 5.3.4.6	<opcheckwp> <tswp> <opcheck-tswp>

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Table A.6. TM Requirements Matrix for _____

TM Content	DMWR and DMWR with RPSTL	NMWR and NMWR with RPSTL	MIL-STD- 40051A Reference	Element Name
CHAPTER X. DEPOT MAINTENANCE INSTRUCTIONS NOTE All maintenance work packages shall include a title block, initial setup, and all maintenance tasks applicable to the equipment.	R	R	4- 5.3	<mim>
MAINTENANCE WORK PACKAGES NOTE As applicable, the following maintenance tasks shall be presented in the general order listed below:	R	R	4- 5.3	<maintwp>
Servicing			4- 5.3.4.9.1.3	<service>
Inspection of installed items			4- 5.3.4.9.1.5	<inspinstitm>
Removal			4- 5.3.4.9.1.6	<remove>
Disassembly			4- 5.3.4.9.1.7	<disassem>
Cleaning			4- 5.3.4.9.1.8	<clean>
Inspection - acceptance and rejection criteria			4- 5.3.4.9.1.9	<acptrejinsp>
Nondestructive testing inspection (NDTI)			4- 5.3.4.9.1.10	<ndti>
Repair or replacement			4- 5.3.4.9.1.11	<repair-rplc>
Alignment			4- 5.3.4.9.1.12	<align>
Painting			4- 5.3.4.9.1.13	<paint>
Lubrication			4- 5.3.4.9.1.14	<lube>
Assembly			4- 5.3.4.9.1.15	<assem>
Test and inspection			4- 5.3.4.9.1.16	<test-inspect>
Installation			4- 5.3.4.9.1.17	<install>
Adjustment			4- 5.3.4.9.1.18	<adjust>
Calibration			4- 5.3.4.9.1.19	<calibration>
Radio interference suppression			4- 5.3.4.9.1.20	<ris>
Placing in service			4- 5.3.4.9.1.21	<pis>
Testing			4- 5.3.4.9.1.22	<test-pass>

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Table A.6. TM Requirements Matrix for

TM Content	DMWR and DMWR with RPSTL	NMWR and NMWR with RPSTL	MIL-STD-40051A Reference	Element Name
Preservation, packaging, and marking	R	R	4- 5.3.4.9.1.23	<ppm>
Preparation for storage or shipment			4- 5.3.4.9.1.25	<pss>
<i>FACILITIES WORK PACKAGE</i>			4- 5.3.4.8	<facilwp>
<i>OVERHAUL INSPECTION PROCEDURES WORK PACKAGE</i>			4- 5.3.4.13	<oipwp>
<i>DEPOT MOBILIZATION REQUIREMENTS WORK PACKAGE</i>	R	R	4- 5.3.4.21	<mobilwp>
<i>QUALITY ASSURANCE REQUIREMENTS WORK PACKAGE</i>	R	R	4- 5.3.4.22	<qawp>
CHAPTER X. SUPPORTING INFORMATION NOTE Applicable supporting information work packages shall be arranged in the order in which they are presented here and numbered accordingly.	R	R	6- 5.1	<sim>
<i>REFERENCES WORK PACKAGE</i>	R	R	6- 5.2	<refwp>
<i>RPSTL WORK PACKAGE</i> (Required for DMWR with RPSTL only)			6- 5.4	<rpstlwp>
<i>EXPENDABLE AND DURABLE ITEMS LIST WORK PACKAGE</i>			6- 5.7	<explistwp>
<i>TOOL IDENTIFICATION LIST WORK PACKAGE</i>	R	R	6- 5.8	<toolidwp>
<i>MANDATORY RELACEMENT PARTS WORK PACKAGE</i>	R	R	6- 5.9	<mrplwp>
<i>CRITICAL SAFETY ITEMS (CSI) AND FLIGHT SAFETY CRITICAL AIRCRAFT PARTS (FSCAP) WORK PACKAGE</i>	R	R	6- 5.10	<csi.fscap.wp>
<i>SUPPORT ITEMS WORK PACKAGE</i>			6- 5.11	<supitemwp>
<i>ADDITIONAL SUPPORTING WORK PACKAGES</i>			6- 5.12	<genwp>
REAR MATTER	R	R	5.3.2	<rear>
Glossary			5.3.2.1	<glossary>
Alphabetical index			5.3.2.2	<aindx>
Foldout pages			5.3.2.3	<foldsect>

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Table A.6. TM Requirements Matrix for _____

TM Content	DMWR and DMWR with RPSTL	NMWR and NMWR with RPSTL	MIL-STD- 40051A Reference	Element Name
DA Form 2028	R	R	5.3.2.4	<da2028>
Authentication page	R	R	5.3.2.5	<authent>
Back cover	R	R	5.3.2.6	<back>

Legend

R Required
 NR Not Required
 O Optional
 Shaded As Required

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Table A.12. TM Requirements Matrix
for _____

TM Content	DMWR	NMWR	MIL-STD-40051A Reference	Element Name
INTRODUCTORY MATTER	R	R	5.4.1	<frnt >
IETM Installation data	R	R	5.4.1.1	<howtouse>
CD content frame	R	R	5.4.1.2	<ietm.contents>
Revision summary frame	R	R	5.4.1.3	<loepwp >
Identification information	R	R	5.4.1.4	<frntcover>
List of contents	R	R	5.4.1.5	<contents>
How to use this IETM	R	R	5.4.1.6	<howtouse>
<i>ABBREVIATIONS, ACRONYMS, AND UNCOMMON TERMS WORK PACKAGE</i>	R	R	5.4.2	<abbrevwp>
<i>SYMBOLS WORK PACKAGE</i>	R	R	5.4.2	<symbolwp>
<i>GENERAL INFORMATION WORK PACKAGE</i>	R	R	5.4.1.7	<ginfowp>
Scope	R	R	5.4.1.7.1	<scope>
Reporting errors and recommending improvements statement	R	R	5.4.1.7.2	<reporting>
Maintenance forms, records, and reports	R	R	5.4.1.7.3	<mfr>
Reporting equipment improvement recommendations (EIR)	R	R	5.4.1.7.4	<eir>
Hand receipt (HR) information			5.4.1.7.5	<handreceipt>
Corrosion prevention and control (CPC)	R	R	5.4.1.7.6	<cpcdata>
Ozone depletingsubstances(ODS)	R	R	5.4.1.7.7	<odsdata>
Destruction of Army materiel to prevent enemy use	R	R	5.4.1.7.8	<destructmat>
Preparation for storage or shipment	R	R	5.4.1.7.9	<pssref>
Warranty information			5.4.1.7.10	<wrntyref>
Nomenclature cross-reference list			5.4.1.7.11	<nomenreflist>
List of abbreviations/acronyms			5.4.1.7.12	<loa>
Quality assurance (QA) (aviation only)			5.4.1.7.13	<qainfo>
Quality of material	R	R	5.4.1.7.14	<qual.mat.info>
Safety, care, and handling	R	R	5.4.1.7.15	<sftyinfo>

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Table A.12. TM Requirements Matrix
for _____

TM Content	DMWR	NMWR	MIL-STD-40051A Reference	Element Name
Nuclear hardness			5.4.1.7.16	<hcp>
Security measures for electronic data			5.4.1.7.17	<secrref>
Calibration			5.4.1.7.18	<calref>
Engineering change proposals (ECP)	R	R	5.4.1.7.19	<ecp>
Deviations and exceptions	R	R	5.4.1.7.20	<deviation>
Mobilization requirements	R	R	5.4.1.7.21	<mobreq>
Flight safety critical aircraft parts (FSCAP)	R	R	5.4.1.7.22	<fscapreq>
Cost considerations	R	R	5.4.1.7.23	<cost>
Copyright credit line			5.4.1.7.24	<copyrt>
DESCRIPTION AND THEORY OF OPERATION	R	R	1- 5.1	<gim>
<i>EQUIPMENT DESCRIPTION AND DATA WORK PACKAGE</i>	R	R	1- 5.2	<descwp>
Equipment characteristics, capabilities, and features	R	R	1- 5.2.1	<eqpinfo>
Location and description of major components	R	R	1- 5.2.2	<locdesc>
Differences between models			1- 5.2.3	<eqpdif>
Equipment data	R	R	1- 5.2.4	<eqpdata>
Equipment configuration			1- 5.2.5	<eqpconfig>
<i>THEORY OF OPERATION WORK PACKAGES</i>			1- 5.3	<thrywp>
CHAPTER X. TROUBLESHOOTING PROCEDURES	R	R	3- 5.3	<tim>
<i>PRESHOP ANALYSIS WORK PACKAGE</i>	R	R	3- 5.3.4.3	<pshopanalwp>
<i>COMPONENT CHECKLIST WORK PACKAGE</i>	R	R	3- 5.3.4.4	<compchklistwp>
<i>COMBINED OPERATIONAL CHECKOUT AND TROUBLESHOOTING WORK PACKAGE</i>			3- 5.3.4.6.5	<opcheck-tswp>

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Table A.12. TM Requirements Matrix
for _____

TM Content	DMWR	NMWR	MIL-STD-40051A Reference	Element Name
DEPOT MAINTENANCE INSTRUCTIONS NOTE All maintenance work packages shall include a title block, initial setup, and all maintenance tasks applicable to the equipment.	R	R	4 - 5.3	<mim>
MAINTENANCE WORK PACKAGES NOTE As applicable, the following maintenance tasks shall be presented in the general order listed below:	R	R	5 - 5.4.5.8	<maintwp>
Servicing			4- 5.3.4.9.1.3	<service>
Ground handling			4- 5.3.4.9.1.4	<groundtsk>
Inspection of installed items			4- 5.3.4.9.1.5	<inspinstitm>
Removal			4- 5.3.4.9.1.6	<remove>
Disassembly			4- 5.3.4.9.1.7	<disassem>
Cleaning			4- 5.3.4.9.1.8	<clean>
Inspection - acceptance and rejection criteria			4- 5.3.4.9.1.9	<acptrejinsp>
Nondestructive testing inspection (NDTI)			4- 5.3.4.9.1.10	<ndti>
Repair or replacement			4- 5.3.4.9.1.11	<repair-rplc>
Alignment			4- 5.3.4.9.1.12	<align>
Painting			4- 5.3.4.9.1.13	<paint>
Lubrication			4- 5.3.4.9.1.14	<lube>
Assembly			4- 5.3.4.9.1.15	<assem>
Test and inspection			4- 5.3.4.9.1.16	<test-inspect>
Installation			4- 5.3.4.9.1.17	<install>
Adjustment			4- 5.3.4.9.1.18	<adjust>
Calibration			4- 5.3.4.9.1.19	<calibration>
Radio interference suppression			4- 5.3.4.9.1.20	<ris>
Placing in service			4- 5.3.4.9.1.21	<pis>
Testing			4- 5.3.4.9.1.22	<test-pass>
Preservation, packaging, and marking	R	R	4- 5.3.4.9.1.23	<ppm>

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Table A.12. TM Requirements Matrix
for _____

TM Content	DMWR	NMWR	MIL-STD-40051A Reference	Element Name
Preparation for storage or shipment			4- 5.3.4.9.1.25	<pss>
<i>FACILITIES WORK PACKAGE</i>			4- 5.3.4.8	<facilwp>
<i>OVERHAUL INSPECTION PROCEDURES (OIP) WORK PACKAGE</i>	R	R	4- 5.3.4.13	<oipwp>
<i>DEPOT MOBILIZATION REQUIREMENTS WORK PACKAGE</i>	R	R	4- 5.3.4.21	<mobilwp>
<i>QUALITY ASSURANCE REQUIREMENTS WORK PACKAGE</i>	R	R	4- 5.3.4.22	<qawp>
SUPPORTING INFORMATION NOTE Applicable supporting information work packages shall be arranged in the order in which they are presented here and numbered accordingly.	R	R	6 - 5.1	<sim>
<i>REFERENCES</i>	R	R	6 - 5.2	<refwp>
<i>EXPENDABLE AND DURABLE ITEMS LIST</i>			6 - 5.7	<explistwp>
<i>TOOL IDENTIFICATION LIST WORK PACKAGE</i>	R	R	6- 5.8	<toolidwp>
<i>MANDATORY REPLACEMENT PARTS WORK PACKAGE</i>	R	R	6- 5.9	<mrplwp>
<i>CRITICAL SAFETY ITEMS (CSI) AND FLIGHT SAFETY CRITICAL AIRCRAFT PARTS (FSCAP) WORK PACKAGE</i>	R	R	6- 5.10	<csi.fscap.wp>
<i>SUPPORT ITEMS WORK PACKAGE</i>			6- 5.11	<supitemwp>
<i>ADDITIONAL SUPPORTING WORK PACKAGES</i>			6 - 5.12	<genwp>
PARTS INFORMATION			5- 5.2.1	<pim>
Parts information data base			5- 5.2.1.1	<pidb>

Legend

R Required
 NR Not Required
 O Optional
 Shaded As Required

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