NOT MEASUREMENT SENSITIVE

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DETAIL SPECIFICATION TECHNICAL MANUALS - ILLUSTRATED PARTS BREAKDOWN



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1 SCOPE

1.1 <u>Scope.</u> This specification covers the requirements for the preparation of Illustrated Parts Breakdown (IPB) Technical Manuals (TM). The TMs are to be prepared in single or subdivided format, or as a chapter of a maintenance/operation or overhaul manual, as specified by the acquiring activity (see 6.2b.).This specification provides for electronic delivery of data through use of the Document Type Definition (DTD) prescribed in paragraph A.1 of Appendix A.

1.2 <u>Detail.</u> The level of detail contained in this detail specification is necessary to comply with the requirements of the Joint Computer aided Acquisition and Logistics Support (JCALS) system.

2 APPLICABLE DOCUMENTS

2.1 <u>General.</u> The documents listed in this section are specified in sections 3, and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3 and4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 <u>Specifications, standards and handbooks.</u> The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract(see 6.2c.).

 DEPARTMENT OF DEFENSE
 SPECIFICATIONS

 MIL-DTL-87929
 Detail Specification Technical Manuals, Operation and Maintenance Instructions in Work Package Format (for USAF Equipment)

 DEPARTMENT OF DEFENSE
 STANDARDS

 MIL-STD-1808
 Department of Defense Interface Standard System Subsystem Sub-Subsystem Numbering

Sub-Subsystem NumberingMIL-STD-38784Technical Manual General Style and Format Requirements

(Copies of these documents are available online at https://assist.dla.mil/quicksearch/ or by mail from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2.2 <u>Other Government documents, drawings and publications.</u> The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation (see 6.2d.).

PUBLICATIONS

FEDERAL LOGISTICS INFORMATION SYSTEM

DoD 4100.39-M, H4/H8 Series Commercial and Government Entity Codes

(Copies of these documents are available online at http://www.dlis.dla.mil search for CAGE.) AFMC INSTRUCTION

DODI 5330.03_AFI 33-395 DOCUMENT AUTOMATION AND PRODUCTION SERVICE (DAPS)

(Copies of these documents are available online at http://www.e-publishing.af.mil (search AFI 33-395) or ordered by mail from U.S. Government Printing Office Mail Stop: IDCC 732 N. Capitol Street, NW Washington, DC 20401.)

AIR FORCE TECHNICALMANUALSTO 00-25-195Source Maintenance and Recoverability Coding of Air Force
Weapons, Systems, and EquipmentTO 00-25-234General Shop Practice Requirements for the Repair, Maintenance,
and Test of Electrical Equipment

(Obtain copies of all Technical Orders' from the ETIMS system as directed in TO 00-5-1 or contact your Program Management Office.)

2.3 <u>Order of precedence.</u> In the event of a conflict between the text of this specification and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3 REQUIREMENTS

3.1 <u>Preparation.</u> The general manner of preparation shall be in accordance with the requirements of MIL-STD-38784. The contractor shall use the DTD prescribed in paragraph A.1 of Appendix A for electronic delivery of this manual (see 6.2e.).

3.1.1 <u>Electronic presentation</u>. Electronic presentation requirements prescribed herein shall apply only to the development of Type 1 linear data for electronic viewers. For development of Portable Document Format (PDF) data, print presentation requirements herein shall apply, as applicable.

3.1.2 Print presentation. IPB manuals shall be prepared in the 8.5 by 11-inch size.

3.2 <u>Manual layout.</u> When the maintenance instructions for the equipment are in a single manual, the IPB shall also be in a separate single manual, except as specified in 3.2.1 and 3.2.2. All parts of the end item shall be listed in accordance with the requirements found elsewhere in this specification, regardless of the level of coverage (organizational, intermediate, or depot) of the associated maintenance manual(s).

3.2.1 <u>Combined manuals.</u> When specified (see 6.2f.), the IPB shall be included in the maintenance instructions manual as the last chapter or last Work Package (WP) and numbered in accordance with MIL-DTL-87929 (MIL-STD-38784 for legacey). However, if difference data sheets are to be included, the IPB shall precede them. The Chapter 1 material shall be included in the manual foreword or, when using MIL-DTL-87929 format, in the IPB WP foreword. The Chapter 3 and 4 material shall follow the Maintenance Parts List (MPL).

Electronic presentation: Page count restrictions do not apply.

Print presentation: Combined manuals shall not exceed 800 page units (including foldouts).

3.2.2 <u>Subdivided manual.</u> When specified (see 6.2g.), the IPB manual MPL chapter shall be subdivided to follow the chapter or WP structure of the maintenance manuals. Each subdivision shall be assigned a separate Technical Order number, for example, 1X-XX-4-1, 1X-XX-4-2, 1X-XX-4-3, etc.

Electronic presentation: Page count restrictions do not apply.

Print presentation: Chapters 1, 3, and 4 shall be combined in the first TM if it will not cause the manual to exceed 800 pages. The sequence shall be Foreword, Numerical Index, and Reference Designation Index. If combining chapters would cause the first TM to exceed 800 pages, Chapter 1 shall be included in the first TM and Chapters 3 and 4 in the last TM.

3.3 Arrangement. The manual shall contain as applicable:

Front Matter Chapter 1 - Foreword Chapter 2 - Maintenance Parts List Chapter 3 - Numerical Index Chapter 4 - Reference Designator Index and System Subsystem Sub-subsystem Number (SSSN) Index if used

3.4 <u>Front matter</u>. Front matter shall be prepared in accordance with the requirements of MIL-STD-38784 with the following exceptions:

3.4.1 <u>Table of contents.</u> The illustrations shall be listed by title in alphabetical order. When portions of an IPB are divided into groups, systems, etc., illustration titles shall be listed below group, system, etc., titles. For combined manuals, the illustrations shall be listed in the manual's list of illustrations, if used. Otherwise, they shall be listed as previously described.

Electronic presentation: TOC entries shall be linked to the text which they apply.

Print presentation: In lieu of a separate list of illustrations, illustration titles shall be a part of the Table of Contents. Under the "Chapter 2 Maintenance Parts List" heading in the Table of Contents, the title of each illustration and its appropriate page number shall be shown.

3.4.2 <u>Foreword.</u> Foreword/preface/introduction requirements of MIL-STD-38784 shall be contained in Chapter 1, Foreword.

3.4.2.1 <u>List of related publications (LRP)</u>. In addition to the requirements of MIL-STD-38784, separate IPB manuals for accessories, components, assemblies, vendor items, etc., shall be listed. The list shall include the part number and listed in alphanumeric sequence by part number. Model or type number shall be used when no part number has been assigned. If applicable, the publication number and title for a power package buildup manual with IPB shall also be listed.

Electronic print requirement: LRP entries shall be linked to the books which they apply when applicable.

3.5 <u>Chapter 1, Foreword.</u> Chapter 1 shall contain the following:

3.5.1 <u>Model(s) covered.</u> A listing of the models, types, configurations, modifications, task numbers, and series or blocks of the end item covered by the manual.

3.5.2 <u>Serialization</u>. The serialization table, when required by the acquiring activity, shall be used to specify "Useable On" codes (see 6.2h.).

3.5.3 Finding part numbers, illustration, description.

Electronic presentation requirement: An illustrated explanation (see figure 1) shall be included when MPL contains at least 200 part numbers.

Print presentation requirement: When the MPL exceeds 16 pages, an illustrated explanation (see figure 1) shall be included to describe:

a. How to find a part number or description using the Table of Contents and illustration titles.

b. How to find the illustration or description if a part number or reference designator is known.

3.5.4 <u>Listing of similar assemblies</u>. An explanation of the method used to list parts of similar assemblies shall be included (see 3.6.9.7).

3.5.5 <u>Parts in kits or quick change units.</u> When repair parts are supplied in the form of kits or quick change units, an explanation shall be included, and shall include information on determining what parts are included.

3.5.6 <u>Symbols</u>. An explanation of the dash (-) (see 3.6.7.1.4), number sign (#) (see 3.6.9.2 and 3.6.10.3), asterisk (*) (see 3.6.9.9), and "F" (see 3.7.2.2) symbols shall be included.

3.5.7 <u>Sheet number explanation</u>. If multisheet illustrations are used, an explanation shall be included that the sheet number follows the index number and is separated with a slash (/) (see 3.6.7.1). The explanation shall also state that, if an indexed item is on more than one sheet of an illustration, the first and last sheet numbers on which the item appears are given.

3.5.8 <u>Useable on codes.</u> Definitions of the useable on codes used in the MPL of the manual shall be provided. An explanation that codes are omitted for assemblies and parts installed in all configurations of the end items covered in the manual shall be included. Codes shown shall not be limited to the initial production configuration of a part or assembly.

3.5.9 <u>Source, Maintenance, and Recoverability (SMR) codes.</u> The following statement shall be included: "This manual contains Joint Military Service Uniform Source, Maintenance, and Recoverability (SMR) codes. Definitions of these SMR codes are available in TO 00-25-195."

3.5.10 <u>Nuclear hardness</u>. If equipment covered has nuclear survivability requirements (for example, Over Pressure and Burst, Thermal Radiation, Electromagnetic Pulse, or Transient Radiation Effects on Electronics), all Hardness Critical Items (HCI) shall be marked with <u>HCI</u>. Unless otherwise specified by the acquiring activity, all HCIs shall be marked with the symbol immediately preceding the description of the item (see 3.6.7.4.1). When approved by the acquiring activity, the symbol **HCI** may be used in lieu of the boxed HCI symbol (see 6.2i.).

3.5.10.1 <u>Nuclear hardness symbol explanation</u>. Chapter 1 shall include a listing and explanation of the HCI symbol and other pertinent information, as necessary, to emphasize the uniqueness of hardness features. This shall include an explanation that the HCI symbol establishes special requirements limiting changes and substitutions, and that the specific parts listed must be used to ensure hardness is not degraded. This statement shall be preceded by a CAUTION heading. All changes to, or proposed substitutions of, HCIs must be approved by the acquiring activity (see 6.2j.).

3.5.11 <u>Electrostatic Discharge Sensitive (ESDS) parts.</u> If equipment covered contains ESDS parts, they shall be marked as shown in TO 00-25-234 (see figure 8). Unless otherwise specified by the acquiring activity, all ESDS parts shall be marked with the ESDS symbol immediately preceding the description of the item (see 3.6.7.4a.). When approved by the acquiring activity, the symbol **ESD** may be used in lieu of the ESDS symbol (see 6.2k.).

3.5.11.1 <u>ESDS symbol explanation</u>. Chapter 1 shall include a listing and explanation of the ESDS symbol: Other pertinent information shall be included as necessary to emphasize the uniqueness of ESDS parts. This shall include an explanation that the ESDS symbol requires that all ESDS parts be handled in accordance with the ESDS device handling procedures in TO 00-25-234. This explanation shall be preceded by a CAUTION heading.

3.5.12 Parts standardization. The following paragraph shall be included in the foreword chapter:

"Parts Standardization. Authority for use of a part number different than the part number listed in this IPB is established by the Department of Defense (DoD) Interchangeability and Substitution (I&S) Program. Refer to the DO43B Master Item Identification Base for Air Force I&S information. The maintenance technician has final responsibility and authority for determining acceptability of substitute parts."

3.5.13 <u>Manufacturers list.</u> When required by the acquiring activity, a manufacturers list shall be provided (see 6.21.). The list shall contain the Commercial and Government Entity (CAGE) code and the name and address of all manufacturers whose CAGE codes are referenced in the MPL.

3.6 Chapter 2, Maintenance parts list. The MPL shall contain:

- a. A breakdown of the assemblies and parts contained in the end item(s) or sold to the government as a peculiarly configured spare. These assemblies can be disassembled, repaired, obtained from reclamation, manufactured, reinstalled, replaced, or reassembled, in agreement with government assigned Source, Maintenance, and Recoverability (SMR) coding (see 3.6.5 for exceptions). The listings shall follow the same sequence they are discussed in the applicable maintenance manual. If the maintenance manual discusses the compressor, augmenter, and accessories, in that sequence, the MPL shall list these components and their detail parts in the same sequence (see 3.6.7 for additional information on the sequence of listing parts).
- b. Oversize and undersize parts, attaching parts, undrilled/untrimmed parts, repair parts kits, quick change units, decalcomanias, markings, etc.
- c. Special support equipment, other than test equipment, which must be designed and developed in conjunction with development of the end item. Be locally manufactured for use with the end item for which no separate IPB manual has been procured. When such equipment is source coded MO, MF, or MD in the SMR column, the drawing number shall be included in the description column.
- d. Identification of all HCI and ESDS components using the appropriate symbols (see 3.5.10 and 3.5.11).

3.6.1 Margin data.

Margin data shall be in accordance with the requirements of MIL-STD-38784.

Electronic presentation: When applicable, the SSSN shall be displayed in the header bar above the text pane containing the MPL.

Print presentation: When the MPL is to be used in conjunction with MIL-PRF-83495 type manuals, the MPL shall display the applicable SSSN, in 18 point type, in the lower outer corner of each page. The SSSN shall be placed directly above the page number.

3.6.2 <u>Nomenclature</u>. When SSSNs are used, the equipment and nomenclature shall be followed by the applicable higher level designation in parentheses. Chapter/section titles and system, subsystem, or sub-subsystem nomenclature shall be followed by the applicable SSSN in parentheses.

3.6.3 Front matter. This chapter shall not contain front matter unless the IPB is a subdivided manual.

Electronic presentation: If subdivided, each subdivision shall have a Title screen, List of Changes, and Table of Contents (linked to the text to which entries apply).

Print presentation: If subdivided, each subdivision shall have a Title Page, List of Effective Pages, and Table of Contents

3.6.4 Parts to be listed. Each item (e.g., detail, part, assembly, etc.,) shall be listed as follows:

- a. An item covered by an approved standard, and used without alteration or selection, shall be identified by the standard part number (such as MS number of Military Specification Sheets or Military Sheet Form Standards).
- b. An item covered by an approved government specification containing a part identification system, used without alteration, shall be identified by that specification part identification.
- c. All other items shall be identified by a part number and CAGE code (see note 1).
- d. Design activities using items other than their own design, without alteration or selection, shall identify such items by the original design activity part number and CAGE code.
- e. Items which are altered, selected, or source controlled, shall be identified by a part number, established by the using design activity, and CAGE code.
- f. Item(s) of supply part number(s) and CAGE code that is stocked, stored, and issued by the government, as identified by the government during the initial provisioning process. When items of supply have not been identified in time for publication in the initial issue, subsequent updates shall incorporate the identified items of supply received from the government.
- g. Only the preferred or master part shall be listed. IPBs shall not be updated, changed, or revised solely to reflect a new preferred or master part number (see notes 2 and 3).

NOTE

NOTE 1: A specification control drawing or vendor item drawing number (with any applicable dash numbers, if tabulated) is a part identification number used for control purposes only, and shall not be listed, but shall be part of the description.

NOTE 2: When an original assembly or part does not have continued application (no spares of the original were procured or such spares are no longer authorized for replacement), only the preferred assembly or part is listed.

NOTE 3: When an assembly or part was installed during modification, and the original part does not have continued application, only the preferred item is listed (see 3.6.7.6.1)

- 3.6.5 Parts not to be listed. The MPL shall omit:
 - a. Parts which lose their identities by being welded, sealed, or joined to other pieces as a permanent assembly.
 - b. Parts made of bulk stock, such as safety wire, bonding braid, upholstery cloth, friction tape, electrical wire, insulation, etc.
 - c. Structural items, such as stringers, stiffeners, skin, etc. (Applicable only to IPB manuals for aircraft and missiles).

- d. Commonly used hardware, such as standard rivets, screws, bolts, nuts, cotter pins, washers, etc., when not used as attaching parts for frequently detached assemblies, subassemblies, or detailed parts.
- e. Support equipment, such as tools and test equipment, other than that defined in 3.6.

3.6.6 <u>Illustrations</u>. Illustrations shall be provided to identify listed parts. Illustrations shall be selected, prepared, and located in accordance with the requirements of MIL-STD-38784, and as specified herein. When necessary, an illustration shall show the relation of a component to the end item. When identical parts appear in the same relative location, only one need be illustrated. Exploded views shall be used to portray disassembly sequence clearly or to identify parts rapidly. Every effort shall be made to limit the number of parts shown on an illustration, so that no more than one page/graphics view is required.

Print presentation: If multi-sheet illustrations are required, they shall be in accordance with MIL-STD-38784. Foldout pages shall not be used.

3.6.6.1 <u>Main groups/main assemblies</u>. When the MPL is divided into main groups or major assemblies of the end item, the first illustration shall portray this information with a key to the main groups or major assemblies (see figures 2 and 3).

3.6.6.2 <u>Functional systems.</u> A functional system (air conditioning, communications, flight controls, fuel, hydraulic power, landing gear, etc.) shall be illustrated in a manner that permits the individual assemblies of the system to be readily located in the MPL by the use of keys (see figure 4).

3.6.6.3 Exploded view. Figure 5 provides a typical exploded view for equipment.

3.6.6.4 <u>Similar assemblies and parts.</u> When assemblies and parts have the same appearance and functional purpose, they need to be illustrated only once, provided the criteria of 3.6.9.7 are met.

3.6.6.5 <u>Differing components, assemblies, and parts.</u> Components, assemblies, and parts which differ from an earlier or later configuration, yet have a similar appearance, need to be illustrated only once, providing the changed and added parts are clearly identified. When space does not permit this arrangement, or major differences exist, separate illustrations shall be provided.

3.6.6.6 <u>Subassemblies</u>. When space permits, all the detail parts of each subassembly contained in any one assembly shall be shown on one illustration. When space limitations prohibit this requirement, a subassembly shall be illustrated completely assembled on the assembly illustration, and a separate exploded view of the subassembly prepared. In both descriptions of the subassembly (where listed assembled and where listed with detail parts), there shall be a cross-reference to the other illustration.

Electronic presentation: The cross reference to the other illustration shall be linked.

3.6.6.7 <u>Attaching parts.</u> Illustrations of attaching parts shall only be exploded when disassembly/assembly procedures merit explosion because of complexity. When the attaching parts at a specific location are not visible in an illustration (a top view may show the bolts and washers above, but not the washers and nuts beneath), an index number shall be assigned to each item, and all index numbers shall be shown with one leader line terminating on the visible part(s).

3.6.6.8 <u>Indicating relationship.</u> When unlisted parts are illustrated to show relationship, the unlisted parts shall be toned down, or shown in phantom, to give emphasis to listed parts.

3.6.6.9 <u>Index numbers.</u> Each illustration shall have index numbers beginning with 1. Any suitable method which will effectively identify a part may be employed, such as use of leader lines, index number directly on a part, etc. Index numbers must agree with those shown in the listings (see 3.6.7.1 and 3.6.7.1.1). When disassembly/assembly procedures do not merit explosion because of simplicity (for example, the insulating pad or socket for a microcircuit), an index number shall be assigned to each item, and all index numbers shall be shown with one leader line terminating on the visible part(s) (see figure 6). When specified by the acquiring activity, reference designators shall follow or be placed immediately below the applicable index number, in parentheses, on the illustration (see 6.2m.).

3.6.6.10 <u>Figure titles and numbering</u>. The requirements of MIL-STD-38784 are applicable except the chapter number shall not precede the figure number, unless the IPB is a chapter of a maintenance manual.

3.6.6.11 Added and deleted figures and index numbers. The requirements of MIL-STD-38784 apply.

Electronic presentation: Additions/deletions shall also be located in the list of changes.

3.6.6.12 <u>Circuit card assemblies (CCA).</u> CCAs and their components shall be illustrated and broken down in accordance with SMR code assignments (maintenance concept), as established by the acquiring activity. If the CCA is of such a nature that it cannot be adequately illustrated by a single indexed view, it shall be indexed by sections as separate views. In such cases, a view showing the complete CCA, and identifying each section, shall be shown. Each section shall then be indexed (see figure 6). Exploded views shall be used when necessary to clearly portray all indexed components of the CCA.

3.6.7 <u>Format.</u> The MPL shall be arranged in the format indicated below,(see figures 2, 3, 4, 6, and 7) and shall not be right justified. The parts listing shall be considered part of the associated figure, and shall not be separately labeled. (e.g., an illustration of the filter assembly and its associated parts list would form "Figure X. Filter Assembly") The width of the columns (description column excepted) shall be adjusted to accommodate the information to be inserted in each; the remaining space shall form the description column. Parts shall be listed to show parts relationship and in the sequence of disassembly, except where that sequence cannot be maintained.

| FIGURE | | | | UNITS | | |
|-----------|--------|------|-------------|-------|------------|------|
| & INDEX/ | PART | | DESCRIPTION | PER | USEABLE ON | SMR |
| SHEET NO. | NUMBER | CAGE | 1234567 | ASSY | CODE | CODE |

Electronic presentation: When specified by the acquiring activity, if the end item consists of main groups and/or systems, the title of each main group or system shall be shown beneath the publication number in the header bar area of the viewer per the requirements of MIL-DTL-87268, section 3.

Print presentation: When specified by the acquiring activity, if the end item consists of main groups and/or systems, the title of each main group or system shall be shown beneath the publication number (upper outer corner) on each applicable page (see 6.2n.).

3.6.7.1 Figure & Index/Sheet no. Column. This column shall list applicable figure, index, and sheet numbers (see 3.6.7.1.2). The figure and index numbers shall be separated by two spaces. The index and sheet numbers shall be separated by a slash (/). Figure 12, index 1, on sheet two of the illustration would be listed as "12 1/2" Authors shall ensure that the index numbers in the parts list are in sequence. When the same part appears more than once on an illustration, and is part of different assemblies or subassemblies, or it is otherwise necessary to list it more than once, each listing shall be assigned a different index number. An index number shall not be assigned to an assembly when the detail parts are indexed unless the assembly is shown completely assembled on the same illustration, or a bracket or circle shows which parts comprise the assembly. When a change to an end item requires addition of parts to a listing and illustration, the requirements of MIL-STD-38784 apply for suffixed index numbers.

Print presentation: The figure number shall precede the first index number in each listing and the first index number on each page of a multi page listing, but shall not be repeated before each subsequent index number.

3.6.7.1.1 <u>Index numbers for CCAs</u>. For CCAs (because of the many like items); when the same part appears more than once in an illustration, the same index number shall be assigned to all identical parts.

3.6.7.1.2 <u>Index numbers for attaching parts.</u> When a group of parts (bolt, washer, nut) is used at a specific location for attachment purposes, each part shall be assigned a separate index number (see 3.6.6.7).

3.6.7.1.3 <u>Sheet numbers.</u> Sheet numbers shall be used only with multisheet illustrations. When an indexed item appears on more than one sheet of the illustration, the first and last sheet number on which the item appears shall be listed.

3.6.7.1.4 <u>Parts which are not illustrated</u>. Parts which are indexed in the listing, but are not shown on the illustration (e.g., attaching parts or a microcircuit socket which are not exploded) (see 3.6.6.7 and 3.6.6.9) shall have a dash (-) preceding the index number (e.g., -47). Chapter 1 shall include an explanation that the symbol denotes a part which is not illustrated.

3.6.7.2 <u>Part number column</u>. This column shall contain part numbers, including dash numbers, assigned to each listed part in accordance with current industry engineering practices. Only the preferred or master

part shall be listed (see 3.6.4). As applicable, part numbers for prime contractor, subcontractor, vendor, commercial parts, and standard (government, contractor and industry) parts shall all be listed. When the part number and drawing number differ (excluding dash numbers), refer to 3.6.7.4 d. When a component is identified only by a model or type number, such a number shall be used in lieu of a part number. Numerical footnotes will be allowed in the part number column with explanations located at the end of the MPL (table).

3.6.7.3 <u>CAGE column.</u> The appropriate CAGE code, published in current issues of H4/H8 Cataloging Handbooks, shall be listed in this column directly opposite each part, model, or type number listed in the part number column. The CAGE code shall identify the design activity or government agency whose number appears in the part number column.

3.6.7.3.1 <u>CAGE code not listed in H4/H8.</u> When a CAGE code for the appropriate design activity or government agency is not published in the current issues of the H4/H8 Cataloging Handbooks, the word "none" shall be inserted in the CAGE column directly opposite the part, model, or type number listed in the part number column (see 3.6.7.4h.).

3.6.7.4 <u>Description column</u>. This column shall contain the description of each part listed. The nomenclature appearing in the title block of the drawing, to which the detail part was manufactured, shall be used. Incomplete nomenclature (e.g., noun only) of detail parts, appearing in the body of an assembly or installation drawing, shall not be used (government standard parts excepted). When necessary, the size, dimensions, material, and tolerances for a part shall be indicated to make the description complete. The description shall be arranged to show the following:

- a. The identifying noun shall be the first word. When the part is identified as a HCI or EDS, the HCI, and ESDS markings, as appropriate, shall precede the first word (see 3.5.10, 3.5.11. and the example following 3.6.7.4.1). When the listing is an assembly or installation, the word "assembly" or "installation" shall follow the noun. A comma shall separate these words from the balance of the description (see 6.5).
- b. The item name (including the word "assembly" or "installation") shall be in upper-case. The first letter of the first word following the item name shall be in upper-case; remaining words shall be in lower-case. The first letter of proper nouns, regardless of location, shall always be in upper-case.
- c. When units of measurement are the same, they shall not be repeated with each dimension; example: 1/8 by 3/4-inches (not 1/8-inch by 3/4-inch). To avoid confusion, a dash shall be used between a whole number and a fraction; example: 1-1/16, 2-3/4, 4-9/64. Dashes may be omitted if fraction characters (e.g., $\frac{1}{2}$, $\frac{1}{4}$) are used. When a decimal with a value of less than 1.0 is given, a zero shall precede the decimal point; example: 0.002-inch.
- d. The appropriate numbers for the type, model, specification, specification control drawing, and the source control drawing shall follow the nomenclature. When the drawing number for a part is different than the part number (excluding dash number differences), the drawing number shall follow the description (see 3.6.7.2). When a part is authorized for local manufacture, and a specific drawing is required for such accomplishment, the drawing number shall follow the description.
- e. The requirements of MIL-STD-38784 apply to the use of abbreviations.
- f. Leader points (a series of periods) shall be used to join the description and the next column to the right. When the description requires more than one line, leader points shall be used on the first line only. Leader point spacing shall be at least double-spaced.
- g. Reference to another illustration for information on the detail parts of an assembly and reference to another illustration for information on the next higher assembly shall be made.
- h. When the word "none" is listed in the CAGE code column in accordance with 3.6.7.3.1, the complete name and address of the design activity or government agency, whose part, model, or type number appears in the part number column, shall be shown in parentheses at the end of the description. When several CAGE codes are not available, or the design activity's name and address must be repeated several times, numerically identified footnotes may be used in the CAGE column and identified at the end of the MPL and in Chapter 1.

3.6.7.4.1 <u>Indentation</u>. The description for parts listed shall be indented to indicate relationship. The indentation shall be indicated by leader points, each point shall signify each indentation. When the description exceeds one line, the second (and succeeding lines) shall be indented two additional indentations from the first line.

Description

- 1 2 3 4 5 6 7
- END ITEM, COMPONENT, MAJOR ASSEMBLY
- . DETAIL PARTS FOR END ITEM, COMPONENT, MAJOR ASSEMBLY
- . ASSEMBLY
- . Attaching parts for assembly (AP)
- . . Detail parts for assembly
- . . Subassemblies
- . . Attaching parts for subassemblies (AP)
- . . . Detail parts for subassemblies
- . . . Sub-subassemblies
- . . . Attaching parts for sub-subassemblies (AP)
- Detail parts for sub-subassemblies

3.6.7.5 Units per assembly column. The column shall show the following:

- a. Quantity required for each detail part in an assembly.
- b. Quantity required for each assembly in the next higher assembly.
- c. Quantity required for each attaching part to attach one unit or one assembly.
- d. The abbreviation "AR" for oversize and undersize parts and "as required" for parts when quantities are indefinite.
- e. The abbreviation "REF" where items are listed for reference purposes. Such items shall show a quantity where the item is listed assembled, or listed in detail, and show "REF" in other listings.
- f. The quantity shall be listed opposite the first line of the description when the description requires more than one line.

3.6.7.6 <u>Useable on code column</u>. This column shall contain codes to indicate the configurations (type, model, series, blocks, etc.) of the end items to which listed assemblies and parts apply. When a part applies to all configurations, no code is required in this column; likewise, when the manual covers only one configuration, no coding system is required. The coding system shall consist of letters of the alphabet beginning with single letters, A through Z, and when necessary, continue with double letters, AA through AZ, BA, through BZ, etc.

3.6.7.6.1 <u>Useable on code</u>. The meaning of Useable on Codes, if used, shall appear at the end of each MPL (for each figure) in the description column (see figure7). Example:

| <u>CODE</u> | USeABLE ON |
|-------------|---|
| А | Aircraft Number/Serial Number through Aircraft Number/Serial Number |
| В | Aircraft Number/Serial Number through Aircraft Number/Serial Number before TCTO XX-XXXX |
| С | Aircraft Number/Serial Number through Aircraft Number/Serial Number after TCTO XX-XXXX |

The MPL shall not list Time Compliance Technical Orders (TCTOs) that have been completed.

3.6.7.7 <u>SMR code column</u>. This column shall contain the Joint Military Services Uniform SMR codes assigned by the government and furnished by the acquiring activity. The definitions of these codes are available in TO-00-25-195. When codes are not available for publication in the initial issue, scheduled

changes or revisions, as applicable, shall incorporate SMR codes approved by the government during the initial provisioning process

3.6.7.7.1 <u>Multiple Service TMs.</u> When specified by the acquiring activity (see 6.20.), multiple SMR columns shall be displayed as required. The columns shall appear in the order listed below, as required. The headings for the SMR code columns shall also contain the appropriate service designation(s): (ARMY), (NAVY), (USAF), (USMC), (USCG). Each service shall identify the appropriate SMR code entry in their designated column. When services share the same SMR code for an item, the SMR code shall be listed for each service. When supported by the viewing system, only the SMR codes applicable to the user may be displayed.

3.6.8 <u>Layout</u>. Electronic presentation: In IPBs only the graphic(s) shall appear in the center pane and the MPL (text) shall appear in the right pane.

Print presentation : Whenever the size of an illustration and the length of its corresponding parts list warrant, the MPL shall be laid out so that a full-page illustration is on the left-hand page and the applicable parts list is on the right-hand facing page. Whenever a smaller illustration and parts list length permits, the illustration and parts list shall be placed on the same page; the illustration may be placed above or below the parts list.

3.6.9 Subjects requiring special attention.

3.6.9.1 <u>Standard items and standard part.</u> Government standard items and parts shall be identified by the assigned government standard part number and CAGE code. Part numbers, design activity codes, and complete descriptions are required for industry and contractor standard items and parts. When an item is part of an assembly and covered in the intermediate level IPB, it must be shown in the aircraft IPB if it is SMR coded for organizational level maintenance.

3.6.9.2 <u>Government Furnished Equipment (GFE) and Contractor Furnished Equipment (CFE) covered by separate manuals.</u> The item and attaching parts shall be listed for both GFE and CFE. Other detail parts shall not be listed. Following the part number of the GFE/CFE item, a number sign (#) shall be inserted flush right to indicate that detail parts are listed in a separate manual. Chapter 1 shall include an explanation that the number sign signifies that detail parts are listed in a separate manual and the publication number is in the list of applicable technical manuals.

3.6.9.3 <u>Vendor Parts (including commercial hardware)</u>. When vendor items are used exactly as manufactured, and are not selected or source controlled, vendor part numbers shall be listed. When a separate IPB is available for a vendor item, the requirements of 3.6.9.2 are applicable.

3.6.9.4 <u>Altered, selected, or source controlled items.</u> When a government standard, industry standard, vendor, or commercial item is altered, selected, or source controlled, the part number of the design activity responsible for the alteration, selection, or source control shall be listed in the part number column.

3.6.9.5 Oversize and undersize parts. The description of oversize and undersize parts shall include dimensions.

3.6.9.6 <u>Matched parts.</u> When parts are manufactured as a matching set (lapped assembly, electronic, etc.) to meet certain requirements, the description of the part shall be coded or annotated that the parts must be requisitioned as a set.

3.6.9.7 <u>Similar assemblies</u>. When similar assemblies contain 51 percent or more identical parts, the assemblies shall be combined and listed as follows; otherwise the assemblies shall be listed separately.

- a. All the assemblies (figure and index numbers, part numbers, description, quantities, codes) shall be listed first, followed by the detail parts.
- b. A part, common to all assemblies in the same quantity, shall be listed once and the quantity per assembly designated.
- c. A part, common to all assemblies in differing quantities, shall be listed once for each quantity, and be identified to which assembly each listing pertains, by use of a useable on code.
- d. Peculiar parts shall be listed once, and be identified to which assembly each pertains by use of a useable on code.

3.6.9.8 <u>Attaching parts.</u> Attaching parts shall be identified by the abbreviation (AP) following the description of the part. Example:

Plate Screw (AP) Washer (AP) Connector

3.6.9.9 <u>Marking</u>. Decalcomanias, metalcals, vinyl film markings, etc., shall be considered as parts. The identifying drawing number for each marking shall appear in the Part Number column. The part number for each marking shall be followed (flush right) by an asterisk (*) symbol. Chapter 1 shall explain that such a symbol means, "requisition this marking in accordance with the requirements of DODI 5330.03_AFI 33-395" The nomenclature or title of each marking shall appear in the description column. The location of each marking shall be illustrated, but a separate readable illustration is not necessary.

3.6.10 Parts in kits, change units, power packages.

3.6.10.1 <u>Repair parts kits.</u> When replaceable parts of an assembly are available in the form of kits, the words "(Repair kit available)" shall follow the description of the applicable assembly. The detail parts of the assembly that are contained in the kit shall be assigned kit source codes and these codes shall appear in this column. The kit listing shall follow the last detail part of the applicable assembly and be listed at the same indentation as the assembly. Illustrations of kits are not required.

3.6.10.2 <u>Quick Change Units (QCU)</u>. When an item is supported by a QCU, the words "(QCU available)" shall follow the description of the applicable item. The detail parts of the item that are contained in the QCU shall be identified with the words "QCU detail" following the description of each detail part. The QCU listing shall follow the last detail part of the applicable item and be listed at the same indentation as the item. Following the listing of the QCU, a quick change kit, if applicable, shall be listed. Illustrations of QCUs are not required.

3.6.10.3 <u>Power Package</u>. When the acquiring activity requires a separate power package buildup manual (including IPB) to be prepared, the end item IPB shall contain an illustration and listing of the assembled power package, and illustrations and listings of attaching parts for the power package (see 6.2p.). Detail parts of the power package shall not be listed. Following the part number of the power package, a number sign (#) shall be inserted flush right to indicate that detail parts are listed in a separate manual. Chapter 1 shall include an explanation that the number sign signifies that detail parts are listed in a separate manual and the publication number is in the List of Applicable Technical Publications (LOAPS).

3.7 <u>Chapter 3, numerical index.</u> This chapter shall contain the part numbers of all parts listed in the MPL, including model and type numbers for components not assigned part numbers. A numerical index is not required when the MPL contains less that 200 different part numbers.

Electronic presentation: The numerical index shall either be presented per the print requirements listed in paragraphs 3.7.1-3.7.2.2 or a screen displaying the title of the chapter shall be displayed with instructions on how to use a search function to find the part numbers.

3.7.1 Front matter. Electronic presentation:

- a. Single manuals. This chapter shall not contain front matter.
- b. Subdivided manuals. This chapter shall have a Title screen and List of changes.
- c. Subdivided manuals with Chapters 1, 2, and 3 combined. This chapter shall not contain front matter.

Print presentation:

- a. Single manuals. This chapter shall not contain front matter
- b. Subdivided manuals. This chapter shall have a Title Page and List of Effective Pages.
- c. Subdivided manuals with Chapters 1, 2, and 3 combined. This chapter shall not contain front matter.

3.7.2 Format. The numerical index shall be arranged in the following format. Unless otherwise specified by the acquiring activity, a space shall be skipped beneath each tenth listing (see 6.2q.). The width of the columns shall be adjusted to accommodate the information to be inserted in each. A triple division of the format shall be used when this will not cause a cluttered or difficult to read index, in which case a double division shall be used.

| | FIGURE & | PART | FIGURE & | | | |
|-------------|----------|--------|----------|-------------|----------------|--|
| PART NUMBER | INDEX | NUMBER | INDEX | PART NUMBER | FIGURE & INDEX | |

3.7.2.1 <u>Part number columns.</u> Part number arrangement shall begin at the extreme left and continue from left to right, one position at a time. For the first character of the part number, the letters A through N and P through Z take precedence over the numerals, 0 through 9. (Alphabetic Os are considered numeric zeros). For the second and succeeding characters of a part number, precedence is as follows: (1) diagonal, (2) period, (3) dash, (4) letters A through N and P through Z, (5) numerals 0 through 9. The following is a sample arrangement:

| AN931-4-13 | B2 | 16.W2 |
|------------|--------|----------|
| A2460 | S/1 | 16W060 |
| A317 | 1140 | 32P010-1 |
| A32 | 121873 | 32P0101 |
| B12 | 128 | 39A46 |

3.7.2.2 Figure and index number column. This column shall contain the figure and index number(s) for all parts listed, as applicable. When an assembly or part has not been assigned an index number, the figure and index number of the preceding part in the MPL shall be used with the letter "F" before the figure number, such as F7-6. Chapter 1 shall include an explanation that the letter "F" means "follows". For subdivided manuals, the applicable manual number shall be added to the figure and index number column.

3.8 <u>Chapter 4, reference designator index</u>. This index is required only when reference designators have been established for any parts listed in the MPL. When the MPL contains less than 200 different part numbers, a reference designator index is not required, provided the applicable reference designators have been inserted on the illustrations. When specified by the acquiring activity, the SSSN shall be used in conjunction with, or in lieu of, the reference designator (see 6.2r.). The SSSN is assigned in accordance with MIL-STD-1808.

Electronic presentation : The reference designator index shall be presented in one of two ways:

- a. According to the print requirements listed in paragraphs 3.7.1-3.7.2.2
- b. As a view containing the title of the chapter with instructions on how to use a search function to find the reference designators.
- 3.8.1 Front matter. Electronic presentation:
 - a. Single manuals. This chapter shall not contain front matter.
 - b. Subdivided manuals. This chapter shall have a Title screen and List of changes.
 - c. Subdivided manuals with Chapters 1, 2, and 3 combined. This chapter shall not contain front matter.

Print presentation:

- a. Single manuals. This chapter shall not contain front matter.
- b. Subdivided manuals. This chapter shall have a Title Page and List of Effective Pages.
- c. Subdivided manuals with Chapters 1, 2, and 3 combined. This chapter shall not contain front matter.

3.8.2 Format. The Reference Designator Index shall be arranged as follow:

a. A space shall be skipped beneath each tenth listing.

b. The width of the columns shall be adjusted to accommodate the information to be inserted in each.

c. Format shall be three double-columns.

| Reference | Figure & Index | Reference | Figure & Index | Reference | Figure & Index |
|------------|----------------|------------|----------------|------------|----------------|
| Designator | No. | Designator | No. | Designator | No. |

3.8.2.1 <u>Reference designator column.</u> This column shall contain all applicable reference designators shown on schematic and wiring diagrams, and those cited in applicable operation and maintenance manuals. They shall be arranged in alphanumeric sequence. When the block or unit system of designations is employed, identical items having reference designators which are consecutive, and are at the same location, may be grouped. When use of SSSN has been specified (see 3.8), this column shall be headed as "SSSN" with the SSSNs following in numeric order.

3.8.2.2 Figure and index number column. This column shall contain the figure and index number(s) applicable to all reference designations listed. When an assembly or part has a reference designator, but not an index number, the figure and index number of the preceding part in the MPL shall be used with the letter "F" before the figure number, such as F7-6. Chapter 1 shall include an explanation that the letter "F" means "follows." For subdivided manuals, the applicable manual number shall be added to the figure and index number column. For work package type manuals, the work package number shall be included with the figure and index number.

3.9 Changes and revisions. Changes and revisions shall be prepared in accordance with MIL-STD-38784.

Electronic presentation: Changes shall follow the styling guidance for screen presentation as directed in the MIL-STD-38784.

4 VERIFICATION

4.1 <u>Verification</u>. When the technical data produced according to this specification is offered for acceptance, all tests, reviews, and verifications required by the acquiring activity to determine that it conforms to the requirements in Section 3 of the specification, shall be performed as specified in the solicitation or contract. The Air Force Technical Order Policy and Procedures (AF TOPP) team, AFMC/A4UE, provides the specific requirements for verification of technical data developed and delivered through this specification, as well as guidance for including these requirements in the solicitation or contract (see TO 00-5-3, AF Technical Order Life Cycle Management.).

4.2 <u>Compliance.</u> Technical manuals (TMs) shall meet all requirements of Section 3 of this specification and the applicable DTD appendix, as specified by the acquiring activity (see 6.2s.). The requirements set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any requirements in this specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract. Use of sampling inspections shall be at the discretion of the contractor, and in accordance with commercially acceptable quality assurance procedures. However, use of sampling in QA procedures does not authorize submission of known defective material, either indicated or actual, nor does it commit the government to accept defective material.

5 PACKAGING

5.1 <u>Packaging</u>. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2t.). When actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data

retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6 NOTES.

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

6.1 <u>Intended use</u>. Technical manuals prepared in accordance with the requirements of this specification are intended for use in the identification and requisitioning of parts, and for illustrating assembly and disassembly relationships. The military unique requirements for IPBs covered by this specification are as specified in TOs 00-25-195 and 00-25-234.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of this document.
- b. If TMs are to be prepared in single or subdivided format, or as a chapter of a maintenance/operation or overhaul manual (see 1.1).
- c. Issue of the ASSIST data base to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.2.1).
- d. Issue of the H4/H8 Handbook to be cited in the solicitation (see 2.2.2).
- e. If electronic delivery of this manual is required (see 3.1).
- f. If the manual is to be developed in work package format (see 3.2.1).
- g. Manual layout for each IPB is to be determined jointly by the contractor and the acquiring activity based on system requirements; combined manuals are to be used to the maximum extent possible (see 3.2, 3.2.1, 3.2.2).
- h. If serialization tables are to be provided whenever two or more configurations of the equipment covered by the IPB exist, and not all subcomponents are interchangeable between configurations (see 3.5.2).
- i. If all HCIs are to be marked with a symbol other than that specified in this specification (see 3.5.10).
- j. If changes or substitutions of HCI are required (see 3.5.10.1).
- k. If all ESDS parts are to be marked with the ESDS symbol, and if the symbol **ESD** may be used in lieu of the ESDS symbol (see 3.5.11).
- 1. If a manufacturers list is to be provided (see 3.5.13).
- m. If reference designations are to follow, or be placed immediately below the applicable index number on the illustrations (see 3.6.6.9).
- n. If MPL pages are to show group or system titles beneath the publication number (see 3.6.7).
- o. If multiple SMR columns will be displayed (see 3.6.7.7.1)
- p. If a separate power package buildup manual is being procured (see 3.6.10.3).
- q. If spacing between listings is to be other than that specified in this specification (see 3.7.2).
- r. If SSSN is to be used in Chapter 4 and, if used, whether it is to be in conjunction with, or in lieu of, the reference designator (see 3.8).
- s. If performance of inspections is to be other than as specified herein (see 4.1).
- t. Packaging requirements (see 5.1).

6.3 <u>Technical manuals</u>. The requirement for technical manuals should be considered when this specification is applied on a contract. If technical manuals are required, specifications and standards that have been authorized and assigned an Acquisition Management Systems Control (AMSC) number must be listed on a separate Contract Data Requirements List (DD Form 1423), which is included as an exhibit to the contract. The technical manuals must be acquired under separate contract line item in the contract.

6.4 <u>Definitions</u>. For the purposes of this document, the following definitions apply.

6.4.1 <u>Verification</u>. Verification (section 4), in the context of this specification equates to the contractor's quality assurance program for validating the content of the manuals and checklists. Suggested validation methods include:

- a. Actual performance. Using production configured equipment, hands-on performance of the procedure using the technical instructions as written.
- b. Simulation. Using production configured equipment and the manual procedures and checklists, simulate the actions required by the task steps.
- c. Table top analysis. Primarily for nonprocedural data, compare the technical content to source data to ensure the technical accuracy and depth of coverage.

6.4.2 <u>Interchangeable Item.</u> An item which possesses such functional and physical characteristics as to be equivalent in performance, reliability, and maintainability, to another item of similar or identical purposes, and is capable of being exchanged for the other item without selection for fit or performance and without alteration of the items themselves or adjoining items, except for adjustment (reference DoD 4100.39-M).

6.4.3 <u>Substitute Item.</u> An item which possesses such functional and physical characteristics as to be capable of being exchanged for another only under specified conditions or for particular applications and without alteration of the items themselves or of adjoing items. This term is synonymous with the phrase "one way interchangeability", such as item B can be interchanged in all applications for item A, but item A cannot be used in all applications requiring item B (reference DoD 4100.39-M).

6.4.4 Acronyms. The acronyms used in this document are defined as follows:

| AMSDL | Acquisition Management Systems and Data Requirements Control List |
|--------|---|
| CAGE | Commercial and Government Entity |
| CCA | Circuit Card Assembly |
| CFE | Contractor Furnished Equipment |
| DoD | Department of Defense |
| DoDISS | Department of Defense Index of Specifications and Standards |
| DTD | Document Type Definition |
| ESDS | Electrostatic Discharge Sensitive |
| GFE | Government Furnished Equipment |
| HCI | Hardness Critical Item |
| IPB | Illustrated Parts Breakdown |
| I&S | Interchangeability and Substitution |
| JCALS | Joint Computer-aided Acquisition and Logistics Support |
| MPL | Maintenance Parts List |
| QA | Quality Assurance |
| QCU | Quick Change Units |
| SMR | Source, Maintenance, and Recoverability |
| SSSN | System Subsystem Sub-subsystem Number |
| тсто | Time Compliance Technical Order |
| ТМ | Technical Manual |
| WP | Work Package |
| | |

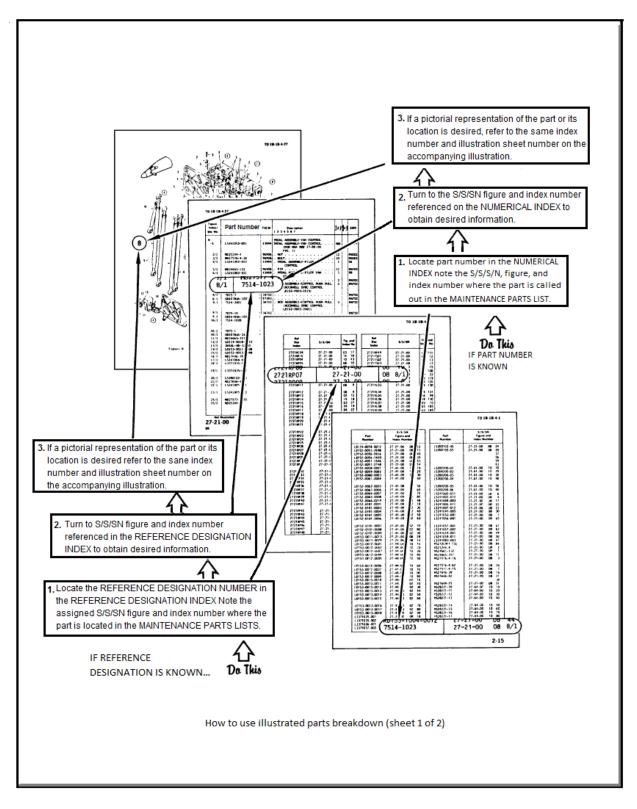
6.5 Description column. The noun name is adequate description for government standard parts (see 3.6.7.4.a.).

6.6 Subject term (key word) listing.

Commercial and Government Entity code Maintenance Parts List Reference Designator Source, Maintenance and Recoverability code

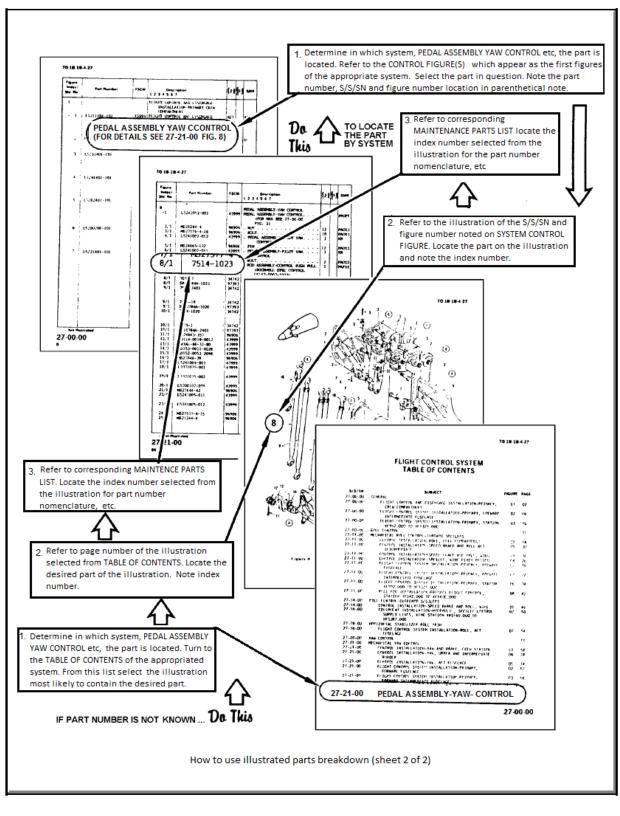
Units Per Assembly Useable On code

6.7 <u>Changes from previous issue.</u> Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.



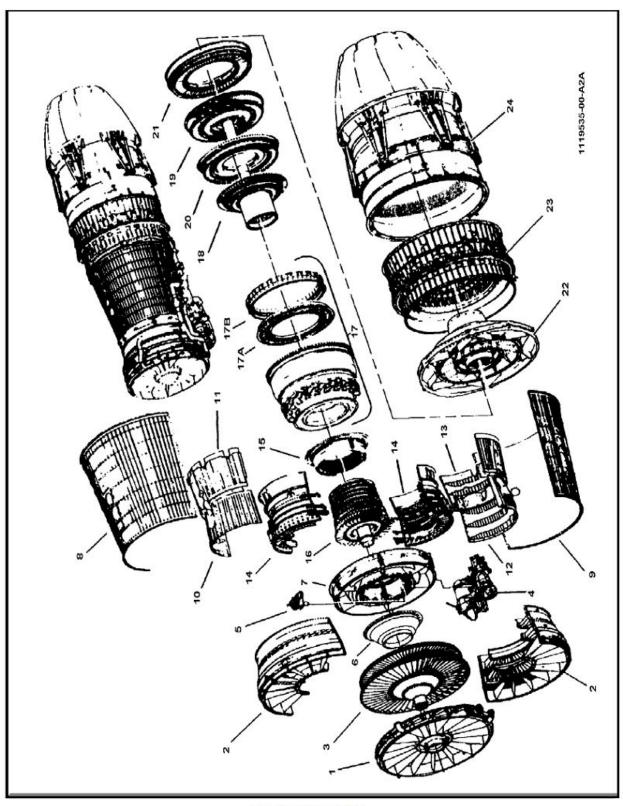
(EXAMPLE NOT TO SCALE)

FIGURE 1. Example how to use the illustrated parts breakdown.



(EXAMPLE NOT TO SCALE)

FIGURE 1. Example how to use the illustrated parts breakdown. - Continued.



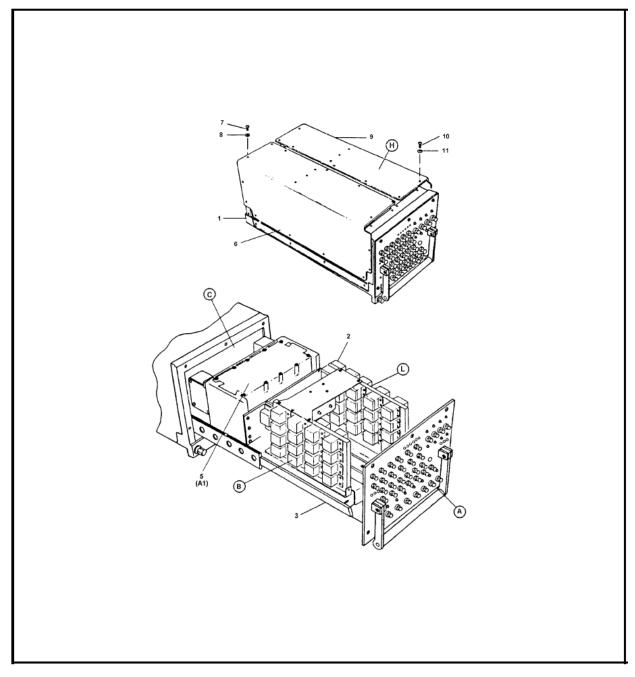
(EXAMPLE NOT TO SCALE)

FIGURE 2. Typical main groups listing.

| FIGURE & INDEX / | PART | | DESCRIPTION | UNITS PER | USEABLE ON | SMR |
|----------------------|------------|-------|---|--------------|---------------|-------|
| SHEET NO. | NUMBER | CAGE | 1234567 | ASSY | CODE | CODE |
| | | | LOCATOR FOR MAJOR ENGINE ASSEMBLIES | | | |
| 1- | 9550M10G01 | 07482 | ENGINE ASSY | 1 | | |
| - 1 | 9550M13G03 | 07482 | . FRAME ASSY, Front (see figure 2 thru 5) | 1 | | AFF |
| - 2 | 9550M11G01 | 07482 | . STATOR ASSY, Fan (replaceed by 9550M11G02 per TO 2J-F101-517 (see Figure 6 thru 11) | 1 | | AFF |
| | 9550M11G02 | 07482 | . STATOR ASSY Fan (replaced by 9550M11602 PER TO 2J-F101-517 (see Figure 6 thru 11) | 1 | | AFF |
| | 9550M11G02 | 07482 | . STATOR ASSY, Fan (replaceed by 9550M11G03 PER B035 (rework and reidentify to 9550M11G06 per ECP B078 (see Figure 6 thru | 1 | | AFF |
| | 9550M11G03 | 07482 | <pre>11) . STATOR ASSY, Fan (replaceed by</pre> | 1 | | AFF |
| | 9550M11G05 | 07482 | STATOR ASSY, Fan (replaceed by 9550M11G06 PER B078 (rework and reidentify from 9550M11G03 PER ECP B050/SEE (see Figure 6 thru 11) | 1 | | AFF |
| | 9550M11G06 | 07482 | (see Figure 6 thru 11) STATOR ASSY, Fan reworked and reidentified from 9550M11G02 per B078 [see Figure 6 thru 11) | 1 | | AFF |
| R - 3 R R R | 9550M28G07 | 07482 | ROTOR ASSY, Fan (replaceed by 9550,28G11 per ECP B140 (rework and reidentify to 9550M8G11 PER ECP B140) see Figure 12 | 1 | | PAFDD |
| R R R | 9550M28G08 | 07482 | . ROTOR ASSY, Fan (replaceed by | 1 | | PAFDD |
| R R R | 9550M28G09 | 07482 | . ROTOR ASSY, Fan (replaceed by 9550,28G13 PER ECP B140 (rework and reidentify to 9550M8G13 per ECP B140) see Figure 12 | 1 | | PAFDD |
| R R R R | 9550M28G10 | 07482 | (see Figure 14 for breakdown) ROTOR ASSY, Fan (replaceed by 9550,28G14 PER ECP B140 (rework and reidentify to 9550M8G14 PER ECP B140) see Figure 12 (see | 1 | | PAFDD |
| R R R | 9550M28G11 | 07482 | Figure 14 for breakdown) ROTOR ASSY, Fan reworked and reidentified from 9550M28G07 per ECP B140) see Figure 12 (see Figure 14 for breakdown) | 1 | | PAFDD |
| R R R R | 9550M28G12 | 07482 | (see Figure 14 for breakdown) ROTOR ASSY, Fan reworked and reidentified from 9550M28608 per ECP B140) see Figure 12 (see Figure 14 for breakdown) | 1 | | PAFDD |
| | | | | | | |

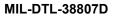
(EXAMPLE NOT TO SCALE)

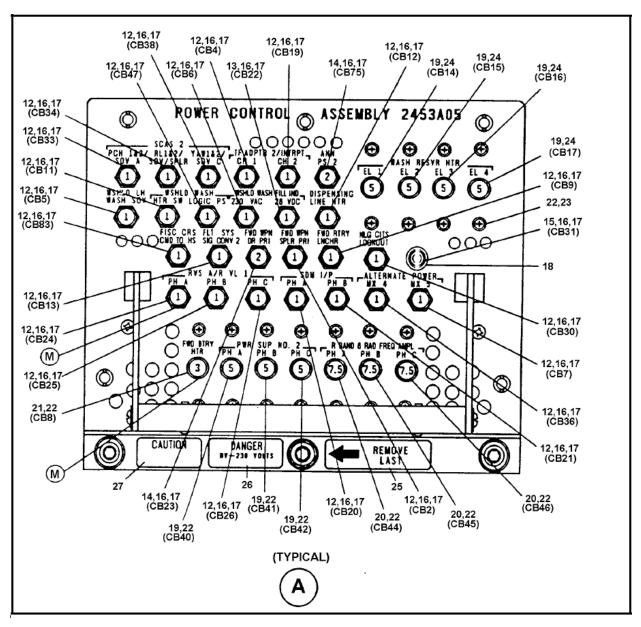
FIGURE 2. Typical main groups listing. - Continued.



(EXAMPLE NOT TO SCALE)

FIGURE 3. Typical main assemblies listing.





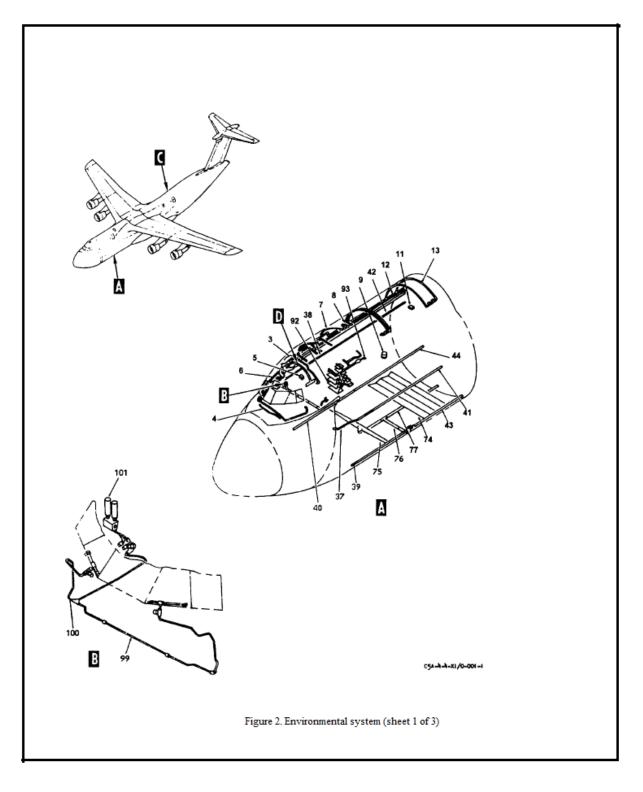
(EXAMPLE NOT TO SCALE)

FIGURE 3. Typical main assemblies listing. - Continued.

| FIGURE & INDEX/ SHEET NO. | PART NUMBER | CAGE | DESCRIPTION 1234567 | UNITS PER ASSY | USEABLE ON CODE | SMR CODE |
|---------------------------------|----------------|-------|---|----------------------|-----------------------|-------------|
| | | | POWER CONTROL ASSEMBLY 2453A05 | | | |
| 1/1 | 15280-507-41 | 94756 | POWER CONTROL ASSEMBLY | REF | А | PAFDA |
| 1/1 | 15280-507-61 | 94756 | POWER CONTROL ASSEMBLY | REF | В | PAFDA |
| 1/1 | 15280-507-71 | 94756 | POWER CONTROL ASSEMBLY | REF | C | PAFDA |
| 1/1 | 15280-507-81 | 94756 | POWER CONTROL ASSEMBLY | REF | D | PAFDA |
| 1/1 | 15280-507-91 | 94756 | POWER CONTROL ASSEMBLY | REF | E | PAFDA |
| 1/1 | 15280-507-101 | 94756 | POWER CONTROL ASSEMBLY | REF | F | PAFDA |
| 2/1 | 15404-507-41 | 94756 | CHASSIS ASSEMBLY, Inner (for details see Figure 2) | REF | A | ХВ |
| 2/1 | 15404-507-61 | 94756 | CHASSIS ASSEMBLY, Inner (for details see Figure 2) | REF | В | ХВ |
| 2/1 | 15404-507-71 | 94756 | CHASSIS ASSEMBL Inner (for details see Figure 2) | REF | С | ХВ |
| 2/1 | 15404-507-81 | 94756 | . CHASSIS ASSEMBLY. Inner (for details see Figure 2) | REF | D | ХВ |
| 2/1 | 15404-507-91 | 94756 | . CHASSIS ASSEMBLY, Inner (for details see Figure 2) | REF | E | XB |
| 2/1 | 15404-507-101 | 94756 | . CHASSIS ASSEMBLY. Inner (for details see Figure 2) | REF | F | XB |
| 3/1 | 15400-507-11 | 94756 | CHASSIS AND SLIDE ASSEMBLY, Outer (for details, see Figure 3) | REF | G | ХВ |
| 3/1 | 15400-507-31 | 94756 | CHASSIS AND SLIDE ASSEMBLY, Outer (for details, see Figure 3) | REF | Н | ХВ |
| - 4 | 15424-507-41 | 94756 | WIRE HARNESS ASSEMBLY (For: details, see Figure 4) | REF | Α | ХВ |
| - 4 | 15424-507-61 | 94756 | WIRE HARNESS ASSEMBLY (For details, see Figure 4) | REF | В | ХВ |
| - 4 | 15424-507-71 | 94756 | . WIRE HARNESS ASSEMBLY (For details, see Figure 4) | REF | С | ХВ |
| - 4 | 15424-507-81 | 94756 | . WIRE HARNESS ASSEMBLY (For details, see Figure 4) | REF | D | ХВ |
| - 4 | 15424-507-91 | 94756 | . WIRE HARNESS ASSEMBLY (For details, see Figure 4) | REF | E | ХВ |
| - 4 | 15424-507-101 | 94756 | . WIRE HARNESS ASSEMBLY (For details, see Figure 4) | REF | F | ХВ |
| 5/1 | 14320-507-1 | 94756 | . SERIAL DIGITAL MULTIPLEX | 1 | | PAFDA |
| 6/1 | 14320-507-1 | 94756 | . COVER, CHASSIS Outer | 1 | | ХВ |
| | | | | | | |

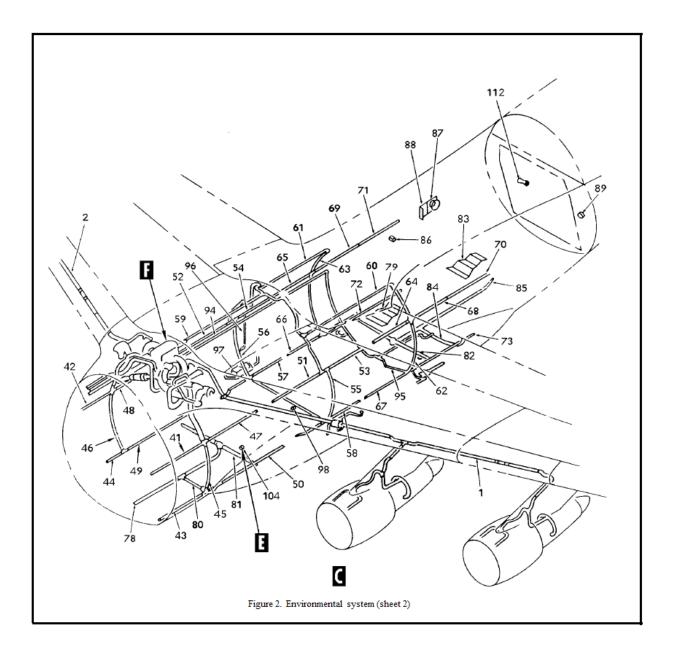
(EXAMPLE NOT TO SCALE)

FIGURE 3. Typical main assemblies listing. - Continued.



(EXAMPLE NOT TO SCALE)

FIGURE 4. Typical functional system listing.



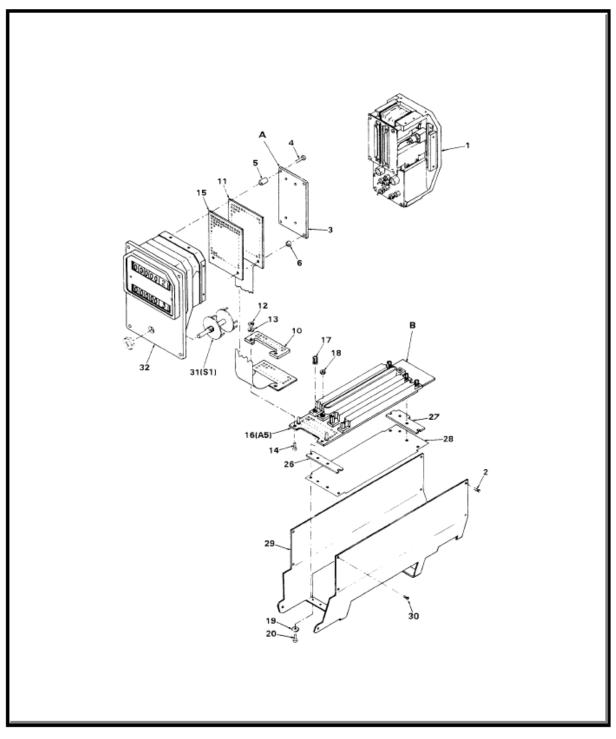
(EXAMPLE NOT TO SCALE)

FIGURE 4. Typical functional system listing. - Continued.

| FIGURE & INDEX / SHEET | PART | 0.005 | DESCRIPTION | UNITS PER | USEABLE ON CODE | SMR |
|---------------------------|------------------------------|---------------|---|--------------|-----------------------|------------|
| NO. 2- 20/3 | NUMBER 4A10044-101A | CAGE 11111 | 1234567 TRANSMITTER INSTL, Pressure, bleed air | ASSY | CODE | CODE XC |
| 2- 29/3 | 4A 10044-101A | | MANFOLD. Fuselage station 1084.000 (Figure 014) | NP | | XC. |
| 30/3 | 4A10044-102A | 11111 | TRANSMITTER INSTL, Pressure bleed air manifold, fuselage station 1084.000 (Figure 014) | NP | | XC |
| 31/3 | 4A10014-101A | 11111 | VALVE INSTL, Flow control, air conditioning compartment (Figure 014) (modified by 4A19011-101A and 102A) | NP | | XC |
| 32/3 | 4A10014-102A | 11111 | VALVE INSTL, Flow control, air conditioning compartment (Figure 014) (modified by 4A19011-101A and 102A) | NP | | XC |
| 33/3 | 4A10010-101A | 11111 | BAFFLE INSTL, . Air conditioning system isolator (Figure 014) | NP | | XC |
| 34/3 | 4A54000-101A | 11111 | DUCT INSTL, Bleed air manifold, center | NP | | XC |
| 35/3 | 4A10012-103A 4A10185-101A | 11111 | TUBE INSTL, Overboard drain water separator and bleed air ducts (Figure 014) BRACKET INSTL, Support, environmental | NP NP | | xc |
| 3013 | 10103-1014 | | equipment fuselage station 1024.000 1084.000 (Figure 014) | n. | | NO |
| 37/1 | 4A11101-101A | 11111 | DUCT INSTL. Air distribution, upper, forward cargo compartment. fuselage station 470.000 to 636.880 (Figure 015) | NP | | XC |
| 38/1 | 4A11101-103A | 11111 | DUCT INSTL, Air distribution, upper forward cargo compartment. fuselage station 470.000 to 636.880 (Figure 015) | NP | | XC |
| 39/1 | 4A11103-103A | 11111 | DUCT INSTL, Air distribution, cargo compartment, fuselage station 543.000 to 776.675 (Figure 015) | NP | | XC |
| 40/1 | 4A11103-105A | 11111 | DUCT INSTL, Air distribution, cargo compartment, fuselage station 543.000 to 776.675 (Figure 015) | NP | | XC |
| 41/1 | 4A11102-101A | 11111 | DUCT INSTL, Air distribution upper forward cargo compartment. fuselage station636.880 to 1056.800 (Figure 015) | NP | | XC |
| 42/1 | 4A11102-102A | 11111 | DUCT INSTL, Air distribution upper forward cargo compartment. fuselage station 636.880 to 1056.800 (Figure 015) | NP | | XC |
| 43/1 | 4A11104-101A | 11111 | DUCT INSTL, Air distribution cargo compartment, fuselage station 776.675 to 1056.800 (Figure 015) | NP | | XC |
| 44/1 | 4A11104-102A | 11111 | DUCT INSTL, Air distribution cargo compartment, fuselage station 776.675 to 1056.800 (Figure 015) | NP | | XC |
| 45/2 | 4A11100-101A | 11111 | DUCT INSTL, Air distribution forward cargo compartment. tuselage station . 1073.800 (Figure 015) | NP | | XC |
| 46/2 | 4A11100-102A | 11111 | DUCT INSTL, Air distribution forward cargo compartment, ruselage station . 1073.800 (Figure 015) | NP | | XC |
| 47/2 | 4A12100-101A | 11111 | DUCT INSTL, ' Upper center cargo compartment, air distribution, fuselage station .088.560 TO 1208.500 (Figure 015) | NP | | XC |
| | | | | | | |

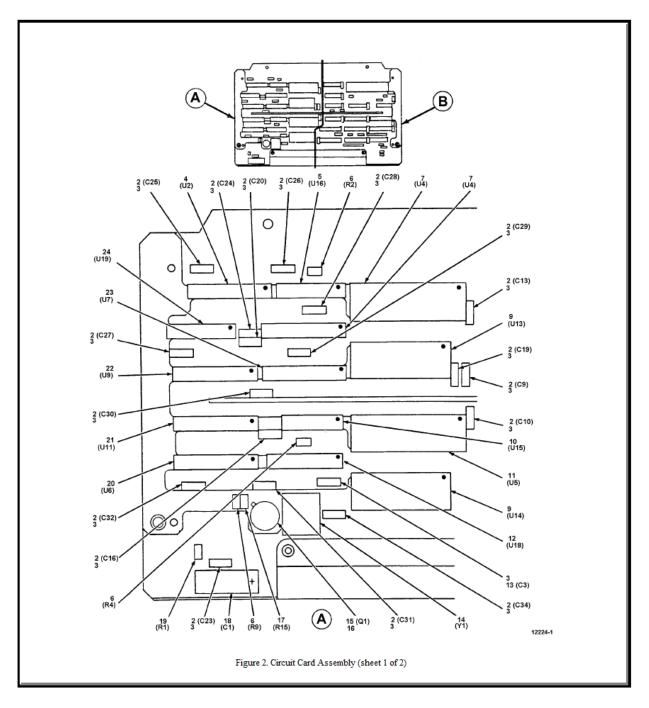
(EXAMPLE NOT TO SCALE)

FIGURE 4. Typical functional system listing. - Continued.



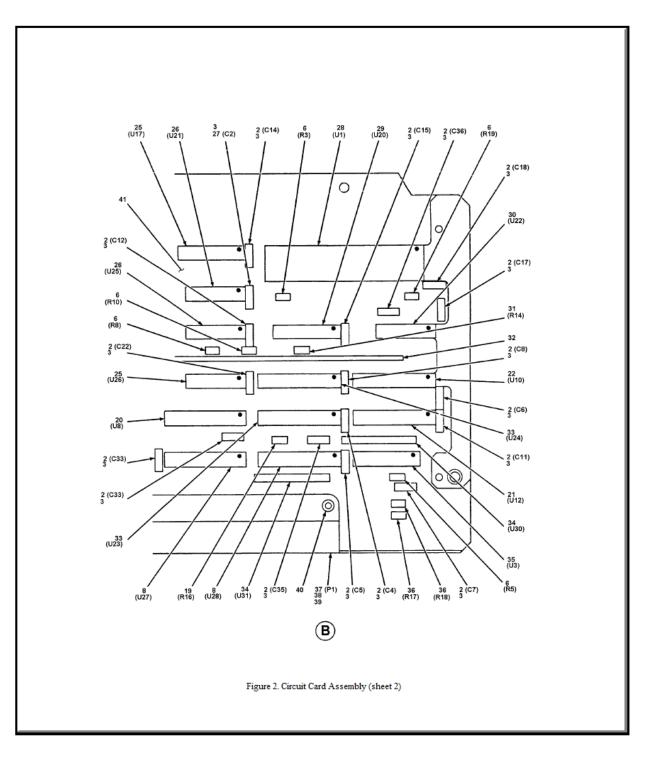
(EXAMPLE NOT TO SCALE)

FIGURE 5. Typical exploded view.



(EXAMPLE NOT TO SCALE)

FIGURE 6. Typical circuit card assembly listing.



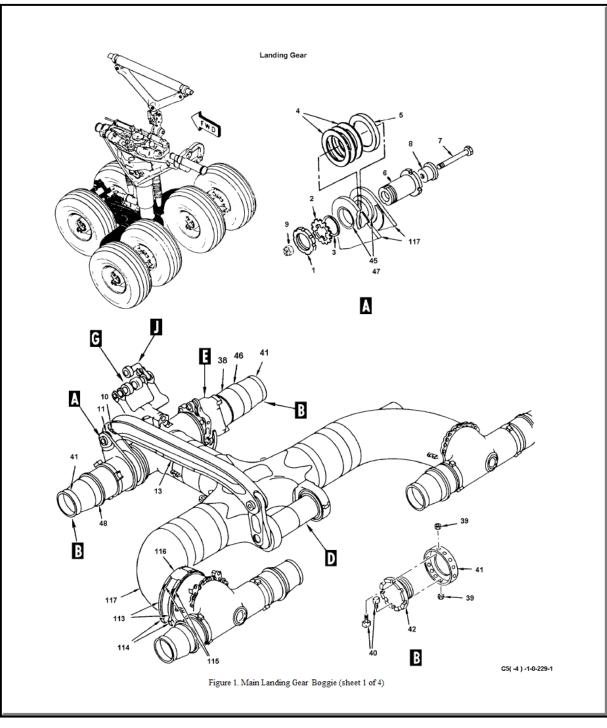
(EXAMPLE NOT TO SCALE)

FIGURE 6. Typical circuit card assembly listing. - Continued.

| FIGURE & INDEX / SHEET NO. | PART | CAGE | DESCRIPTION | UNITS PER ASSY | USEABLE ON CODE | SMR CODE |
|-------------------------------|------------------------------|----------------|---|----------------------|-----------------------|----------------|
| | NUMBER | CAGE | CIRCUIT CARD ASSEMBLY, BIU NO. 2. | 8331 | CODE | CODE |
| 2- | | | | | | |
| 1 | 562-0038-003 | 78711 | CIRCUIT CARD ASSEMBLY, BIU NO. 2 | REF | | PAFLD |
| | 002 0000 000 | | (for NHA see Figure 1) | The f | | |
| 2/1 | M39014/02-1230 | 81349 | CAPACITOR | 33 | | PADZZ |
| 3/1 | 302-200 | 32559 | . SPACER, Component (Telephonics | 35 | | PADZZ |
| | | | spec control S235A202-3) | | | |
| 4/1 | MD8288/883B | 34649 | . MICROCIRCUIT, Digital (Telephonics | 1 | | PADZZ |
| | | | spec control M235A716-1) | | | |
| 5/1 | MM54C163J/883B | 27014 | . MICROCIRCUIT, Digital (Telephonics. | 1 | | PADZZ |
| | CD40163BMJ/883 | 27014 | spec control M235A720-1) | | | PADZZ |
| | CD40163BF/3 | 54590 | | | | PADZZ |
| 6/1 | RLR05C1002GM | 81349 | . RESISTOR | 8 | | PADZZ |
| 7/1 | 562-9001-001 | 78711 | . INTEGRATED Circuit, programmed (Make | 1 | | MDD |
| | | | from 14933 PN DESC8200504YX) | | | |
| 8/1 | MM54C941J/883B | 27014 | . MICROCIRCUIT, Linear (Telephonics | 1 | | PADZZ |
| | | | spec control M235A702-1) | | | |
| 9/1 | 1DT-6116SA-90DB | 61772 | . MICROCIRCUIT, Digital (Telephonics | 2 | | PADZZ |
| | | | spec control M235A782-3) | | | |
| 10/1 | M38510/32702BCX | 81349 | . MICROCIRCUIT | 1 | | PADZZ |
| 11/1 | 562-9001-002 | 78711 | . INTEGRATED Circuit, programmed (Make from 14933 | 1 | | MDD |
| | | | PN DESC8200504YX) | | | |
| 12/1 | MD8284/B | 34649 | . MICROCIRCUIT, Linar (Telephonics | 1 | | PADZZ |
| | | | spec control M235A538-1) | | | |
| 13/1 | M39014/01-1203 | 81349 | . CAPACITOR | 1 | | PADZZ |
| 14/1 | 174-21-1 | 00135 | . CRYSTAL, 15 MHZ (Telephonics spec | 1 | | PADZZ |
| | VM6-1500 | 21821 | control C235A374-1) | | | PADZZ |
| 15/1 | 80AX1260-2 | 57481 | | | | PADZZ |
| 15/1 | T235A331-2 | 78711 81349 | . TRANSISTOR, Field effect (FET) | 1 | | PADZZ |
| 16/1 17/1 | M38527/8-40P RLR05C1001GM | 81349 | . MOUNTING Pad | 1 | | PADZZ PADZZ |
| 18/1 | M39003/01-2273 | 81349 | CAPACITOR | 1 | | PADZZ |
| 19/1 | RLR05C1001GM | 81349 | RESISTOR | 2 | | PADZZ PADZZ |
| 20/1 | 560-9003-001 | 78711 | . INTEGRATED Circuit, programed (Make | 1 | | MDD |
| 20/1 | 300-9003-001 | /0/11 | from 14933 PN DESC8103602RX) | | | WDD |
| 21/1 | M38510/32502BRX | 81349 | MICROCIRCUIT | 2 | | PADZZ |
| 22/1 | M38510/32803BRX | 81349 | MICROCIRCUIT | 2 | | PADZZ |
| 23/1 | MM54C240J/883B | 27014 | . MICROCIRCUIT, Linar (Telephonics | 2 | | PADZZ |
| 2011 | 11110102105/0000 | 27011 | spec control M235A710-1) | - | | THEE |
| 24/1 | M38510/30702BEX | 81349 | MICROCIRCUIT | 1 | | PADZZ |
| 25/2 | M235A688-1 | 78711 | . MICROCIRCUIT, Digital | 1 | | PADZZ |
| 26/2 | M38510/30501BCX | 81349 | MICROCIRCUIT | 3 | | PADZZ |
| 27/2 | M39014/02-1218 | 81349 | . CAPACITOR | 1 | | PADZZ |
| 28/2 | M235A715-5 | 78711 | . MICROCIRCUIT, Digital | 1 | | PADZZ |
| | M235A715-1 | 78711 | · - | | | PADZZ |
| 29/2 | M38510/30701BEX | 81349 | . MICROCIRCUIT | 1 | | PADZZ |
| 30/2 | M38510/31004BCX | 81349 | . MICROCIRCUIT | 1 | | PADZZ |
| 31/2 | RLR05C5101GM | 81349 | . RESISTOR | 1 | | PADZZ |
| | | | | | | |
| | | | | | | |

(EXAMPLE NOT TO SCALE)

FIGURE 6. Typical circuit card assembly listing. - Continued.



(EXAMPLE NOT TO SCALE)

FIGURE 7. Typical MPL listing.

| | | | | UNITS | USEABLE | |
|----------------------|------------------------------|-------|---|-------------|------------|----------------|
| INDEX / Sheet no. | PART NUMBER | CAGE | DESCRIPTION | PER ASSY | ON CODE | SMR Code |
| 1. | HUNDER | ON OL | MAIN LANDING GEAR BOGIE | | | 0002 |
| | 4G11014-101B# | 11111 | BOGIE, Beam main landing gear (LH) (NHA FIG, 235 and 235) | REF | | PAODD |
| | 4G11014-102B# | 11111 | (NHA FIG, 235 and 236) (NHA FIG, 235 and 236) | REF | | AOO |
| 1/1 | 4G19068-101A | 11111 | INHA FIG, 255 and 256 . NUT, Special, brake torque link pin main landing gear (used with 4G19067-101A, | 2 | | PAOZZ |
| 2/1 | 4G10969-101A | 11111 | 4G19069-101A and 4G19070-101A as A group . WASHER, Locknut brake torque compensator pin, | 2 | | PAOZZ |
| | 4010303-1014 | | main landing gear (Used with 4G10967-101A 4G109068-101A and 4G19070-101A as A group) | 2 | | FAULE |
| 3/1 | 4G13554-101A | 11111 | WASHER, Thrust, axle beam ASSY, main | 2 | | PAOZZ |
| 4/1 | 4G14504-101A | 11111 | . WASHER, Brake, torque compensator link, main | AR | | PAOZZ |
| 5/1 | 4G14503-101A | 11111 | WASHER ASSY, Pad, brake torque compensator link main landing gear (Mav be used when 4G14503-107A not available) | 1 | В | PAOZZ |
| 5/1 | 4G14503-107A | 11111 | . WASHER ASSY Of, pad torque, torque compensator link main landing gear (Replacement for 4G14503-101A) | 1 | С | PAOZZ |
| 6/1 | 4G19067-101A | 11111 | PIN, External thread, brake torque compensator link, main landing gear (used with 4G19068-101A, 4G19069-101A and 4G19070-101A as A group) | 2 | | PAOZZ |
| 7/1 | NAS1004-52 | 11111 | . BOLT | 1 | | PAOZZ |
| 8/1 | 4G19070-101A | | . ADAPTER, Bracket retainer axle beam ASSY main landing gear (Used with 4G19067-101A, 4G19068-101A and 4G19069-101A as A group) | 1 | | PAOZZ |
| 9/1 | 52-1650-048 | 11111 | NUT, Self-locking, flush 100 degree, sloted, 250 degree fahrenheit (72962) (lockheed spec DWG STSCJ011-08) | 1 | | PAOZZ |
| | 4G11017-1018 | 11111 | . LINK ASSY, Brake, troque compensating, | 1 | | PAOD |
| 10/1 | MS15001-1 | 11111 | FITTING | 1 | | PAOZZ |
| 11/1 | KWB28-7 | 11111 | BEARING (97613) | | | |
| 12/1 | 4G14128-107A | 11111 | BUSHING, Flanged, main landing gear bogie (Preferred spare in lieu. of 4G14128-105A) | 1 | | |
| 13/1 | 4G11017-103B | 11111 | LINK, Brake, torque compensating, main landing gear | 1 | | XA |
| 14/4 | 4G13850-103A | 11111 | BOLT, Special, axle beam main landikg gear | 1 | | PAOZZ |
| 15/4 | 4G13851-101A | 11111 | WASHER, Special, axle beam main landing gear | 1 | | PAOZZ |
| 16/4 | MS21046C7 | 11111 | NUT | 1 | | PAOZZ |
| 17/4 | 4G13852-101B | 11111 | BUSHING, Clamp up, axle beam main landing | 1 | | PAOZZ |
| 18/4 | 4G12414-101A 4G12415-101C | 11111 | ROLLER ASSY, Lock, main landing gear FITTING ASSY, Lock roller axle, beam assembly, main landing gear | 1 | | PAOZZ PAOLD |
| 19/4 | 4G13849-105A | 11111 | BUSHING Axle beam assv. main | 1 | | PAOZZ |
| | | | (Preferred spare in lieu of) 4G13848-101A and 103A) | | | |
| 20/4 | 4G13848-105A | 11111 | BUSHING, Axle beam assy, main Ianding gear (Spares only) (Preferred spare in lieu of 4G13848-101A and-103A | 1 | | PAOZZ |
| | | | | | | |

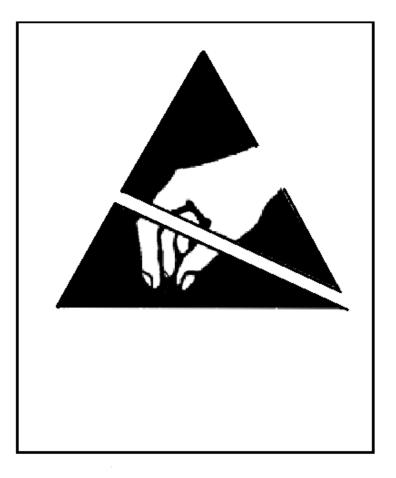
(EXAMPLE NOT TO SCALE)

FIGURE 7. Typical MPL listing. - Continued.

| FIGURE & INDEX / Sheet no. | PART Number | CAGE | DESCRIPTION | UNITS Per Assy | USEABLE ON CODE | SMR CODE |
|----------------------------------|----------------|-------|---|----------------------|-----------------------|-------------|
| 1- | | | | | | |
| 111/2 | KWB28-7 | 11111 | BEARING (97613) | 1 | | PAOZZ |
| 112/2 | 4G11018-103B | 11111 | GUDGEON, Axle main landing gear | 1 | | PAOZZ |
| 113/2 | 4G11014-109A | 11111 | STRAP, Axle, forward, axle beam assy, main landing gear | 2 | | PAOZZ |
| 114/1 | 1522 | 11111 | SEAL (00266) | 2 | | PAOZZ |
| 115/1 | 4G13085-127A | 11111 | PAD, Clamp, hydraulic route, main landing gear (PFD spare in lieu of 4G13085-11A) | 2 | | MOO |
| 116/1 | 4G14380-101A* | 11111 | PLATE, Configuration, bogie beam assy main landing gear | 1 | | MDO |
| 117/1 | 4G11014-103C | 11111 | BOGIE ASSY, Beam, main landing gear | 1 | | PAODD |
| | 4G11105-101A | 11111 | . LANDING GEAR Built up unit, main , LH AFT | 1 | D | AOO |
| | 4G11105-103A | 11111 | (PFD replacement for 4G1105-113A) . LANDING GEAR Built up unit, main RH AFT | 1 | D | A00 |
| | | | (PFD replacement for 4G1105-115A) | | | |
| 118/4 | 4G13924-101A | 11111 | PIN, Trunion master cylinder main | 2 | D | PAOZZ |
| | | | LANDING GEAR A AF66-8304 THRU AF85-0008 C AF85-0009 AND UP D AF66-8304 THRU AF70-467 AFTER TO 1C-5A-1978 AF83-1285 AND UP | | | |

(EXAMPLE NOT TO SCALE)

FIGURE 7. Typical MPL listing. - Continued.



(EXAMPLE NOT TO SCALE)

FIGURE 8. ESD Symbol

APPENDIX A

ILLUSTRATED PARTS BREAKDOWN DOCUMENT TYPE DEF-INITION (DTD) SUBSET

A.1 SCOPE

A.1.1 <u>Scope.</u> DTDs are based on rules outlined in MIL-PRF-28001 and ISO 8879. The DTD subset referenced within this appendix provides the structure and content templates of documents prepared in accordance with this detail specification. For digital copies of the DTD, Tag Description Table (TDT), and the Attribute Description Table (ADT), see paragraph A.4.1.of appendix A. This appendix is a mandatory part of this detail specification. The information herein is intended for compliance.

A.2 APPLICABLE DOCUMENTS

Not applicable

A.3 DIGITAL SUPPORT SUITE (DSS).

The DSS is comprised of the following tools for authoring and rendering the TCTO manual change

A.3.1 <u>DTD.</u> The IPB manual DTD provides the structure and content template in accordance with this appendix. To be delivered digitally, the IPB manual shall be tagged using the applicable DTD found at the Technical Manual Specifications and Standards (TMSS) activity website (see A.4).

A.3.2 <u>TDT.</u> TDT provides detailed descriptions of the elements contained in the IPB manual DTD. The TDT contains the element tagging structure, full element name, tag minimization requirements, element structure, reference elements, source paragraph, and attribute descriptions unique to the element. See A.4 for information on obtaining this file in digital format.

A.3.3 <u>ADT.</u> ATD provides detailed descriptions of the attributes contained in the IPB manual DTD. See A.4 for information on obtaining this file in digital format.

A.4 OBTAINING FILES

A.4.1 Obtaining files with a .mil address. Obtaining DSS files with a .mil address.

A.4.1.1 <u>TMSS web site</u>. DTDs, TDTs, and other files in the DSS can be accessed at the TMSS website at https://techdata.wpafb.af.mil/tmss On the web page, the "Baseline" menu option in the left pane contains three bulleted options called "Specifications", "Standards", and "Handbooks". Hover the cursor over "Specifications" and a listing of the TMSS specifications will appear. Hover over the desired specification number and another drop down list will appear that contains an entry indicating the PDF version of the specification and other entries for the associated appendices. To obtain the preferred subset DTD, select the desired appendix from the list. The following items will appear on the downloading page: The name of the specification, the appendix number and name, the current version of the DSS, buttons to download the DTD, FOSI, screen FOSI, ATD, and the TDT, and a "Download" button to download the entire DSS zip file.

A.4.1.2 <u>TMSS Community of Practice (CoP)</u>. For access to the TMSS CoP use the following web address: https://afkm.wpafb.af.mil/community/views/home.aspx?Filter=OO-LG-MC-38.

A.4.2 <u>Obtaining files without a .mil address.</u> For addresses other than .mil., information can be obtained through the Program Management Office (PMO) or (see A.4.3)

A.4.3 <u>TMSS support.</u> Please address any comments or questions relating to the DSS and/or specifications and standards to <u>SGMLSUPPORT@wpafb.af.mil</u> or by mail to Technical Manual Specifications and Standards, ESC/HGGI, 4170 Hebble Creek Road, Building 280, Door 15, Wright-Patterson AFB OH 45433-5006.

CONCLUDING MATERIAL

Custodians: Air Force - 16 Preparing activity: Air Force - 16 (Project TMSS-2011-012)

Review activities: Air Force - 10, 11, 13, 68, 85, 99

NOTE

The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil.