

TECHNICAL MANUAL

METHODS & PROCEDURES

AF TECHNICAL ORDER NUMBERING SYSTEM

PREPARED BY AFSC COMMODITY TEAM

THIS MANUAL SUPERSEDES TO 00-5-18, DATED 15 MAY 2021.

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INTRODUCTION

1 PURPOSE AND SCOPE.

This technical order (TO) describes the procedures and techniques employed to assign TO numbers to technical data used to operate, install, maintain, inspect, perform procedural functions on, and modify Air Force weapons systems and equipment. Numbering techniques are not included in this TO for TO numbering assignments made according to waivers or deviations from established procedures.

1.1 Alphabetical Listing. Chapter 42 of this TO provides an alphabetical listing of equipment names cross-referenced to appropriate TO number groups as they appear in the Air Force TO Catalog. Basic names of equipment systems and components are in all caps. Variations or breakdowns of the equipment follow in small print. This listing does not indicate the status of individual publications. The only authorized sources for determining the status and availability of individual publications are the Enhanced Technical Information Management System (ETIMS) and the Air Force catalog which is available through the AF Portal.

2 REFERENCES.

Referenced publications, forms, acronyms and definitions are located in Appendix A. The directives identified in Appendix A provide policy, guidance and references used to make TO number assignments to approved TO data.

3 RESPONSIBILITIES.

3.1 Publishing Authority. TOs are published under the authority of the Secretary of the Air Force according to AFPD 63-1/20-1, *Acquisition and Sustainment Life Cycle Management*, and AFI 63-101, same title.

3.2 AFMC Responsibility. The Air Force Materiel Command (AFMC) is responsible to Headquarters, U.S. Air Force (HQ USAF)/A4LX, for staff surveillance over TO System operations and development of system policies and procedures.

3.2.1 The HQ AFMC Directorate of Logistics (A4) is responsible for developing and coordinating Air Force TO System policy, and for implementing AFMC TO policies.

3.2.2 The Life Cycle Management Division, Sustainment Engineering Branch, HQ AFMC/A4FI, Technical Order Policy & Procedures Section is responsible for developing and coordinating AF and AFMC TO System practices and procedures.

3.2.3 Policies and procedures for requesting TO numbers are contained in AFI 63-101, Technical Orders, and in TO 00-5-3, AF Technical Order Life Cycle Management.

3.3 AFLCMC-LZPTP Responsibility. The Air Force Life Cycle Management Center-Tinker, USAF Technical Order Systems Section, AFLCMC/LZPT- Tinker is responsible for developing TO numbering procedures and assigning most TO numbers (TO 00-5-3 and AFMCI 21- 301). AFLCMC/LZPTP-Tinker will be the only office allowed to approve waivers allowing number specialist roles to be assigned to other ETIMS users. A description of special catalogues for specified TO categories is provided in Paragraph 1.1.6 and Paragraph 1.1.7.

3.4 Deviation Requirements. Requests for deviations from established TO numbering procedures, including proposals for new TO numbering patterns, must be coordinated through AFLCMC/LZPT-Tinker. When opinions differ between TO managers and the TO numbering specialists regarding the application of numbering principles, the numbering specialists will determine the TO number assignment. If a TO number assignment by AFLCMC/LZPT-Tinker is not acceptable to the TO Manager and agreement cannot be reached through further exchange of technical information, the TO Manager will refer the problem to AFMC/A4FI for review and resolution.

4 IMPROVEMENT REPORT.

Recommendations or suggestions concerning this document should be submitted by Air Force Technical Order (AFTO) Form 22, Technical Manual (TM) Change Recommendation and Reply, AFLCMC/LZPT-Tinker, 7851 Arnold St, Ste 201, Tinker AFB, OK 73145-9147, e-mail: AFLCMC/EZGTP.TO@us.af.mil.

CHAPTER 1

GENERAL INFORMATION

1.1 GENERAL.

TOs are procured from contractors or prepared in-house by Air Force activities. The Program Manager (PM) responsible for a weapon system or commodity is also responsible for TOs to support that system or item. PMs will assign TO Managers to carry out this responsibility. Only the responsible TO Manager is authorized to request TO number assignment. Only AFLCMC/LZPT-Tinker is authorized to approve and assign TO numbers for most TOs. Exceptions include nuclear weapons (NW) TOs (assigned by the Naval Surface Warfare Center Indian Head EOD Technology Division [NSWC IHEODTD]), Explosive Ordnance Disposal (EOD) TOs (assigned by Naval EOD Technology Division (NAVEODTECHDIV)); and category 33K Calibration TOs (assigned by DoD Joining Technical Coordination Group for Calibration and Measurement Technology (JTTCG-CMT), Air Force Metrology and Calibration [AFMETCAL]). Publications not authorized by TO 00-5-1, *AF Technical Order System*, will not be numbered in the TO system without prior approval by AFMC/A4FI, after coordination with AFLCMC/LZPT-Tinker.

1.1.1 TO Number Request. TO Managers complete the Request TO Number screen in ETIMS for each formal or preliminary TO (PTO), and submit them to AFLCMC/LZPT-Tinker for TO number approval.

NOTE

When a new TO number is requested, the TO Manager or Equipment Specialist (ES)/Technical Content Manager (TCM) must submit a HDRC ticket to add the Federal Stock Class (FSC), part number(s) and Commercial and Government Entity (CAGE) code of the equipment listed in the TO title into ETIMS. For TOs against components or support equipment peculiar to a weapon system, also enter the weapon system Mission/Design/Series (MDS).

1.1.2 Mil-Std. Most TOs are prepared according to military standards and performance or detail specifications which prescribe the contents of each TO type. This standardized approach facilitates the uniform assignment of descriptive TO numbers. However, there is increased emphasis on purchasing Commercial Off-The-Shelf (COTS) manuals. The lack of a standard format between COTS manuals complicates the grouping of like data into established TO numbering patterns. To maintain stability in the numbering system, AFLCMC/LZPT-Tinker and AFMC/A4FI provide guidance for TO Managers and develop, coordinate and implement new numbering patterns as required.

1.1.3 TO Assigned Groups. Numbers are assigned to group TOs according to the systems and equipment they cover (Paragraph 1.3.2), to provide sequences for filing and indexing, and furnish a means for users to identify and establish requirements for distribution of TOs. The structure of the TO number identifies a category of Air Force systems or commodities, a design or series of equipment within a system or commodity category, an equipment sub-series within an equipment series, the type of data included in the TO, and the medium on which the TO is distributed.

1.1.4 Multiple TO Numbers on One Media. Numbers are assigned on a system or end item MDS basis whenever possible. TOs containing instructions or procedures applicable to more than one major group are numbered in a general series for the particular category. If multiple TOs are included on a single distribution medium (e.g., Compact Disc-Read Only Memory [CD-ROM] or Digital Versatile Disk), a single unique number will be assigned to the medium (Paragraph 1.23).

1.1.5 TO Categories. TO categories are not numbered in a consecutive sequence. Currently, 42 categories are identified between Category 0 and Category 60 (Paragraph 1.3.2). Category 0 is assigned to the TO catalog and cross-reference table TOs. Category 00 is assigned to Methods and Procedures TOs (MPTOs). Categories 1 through 22 are assigned to airborne systems for aircraft, missiles, aerospace vehicles, and related airborne equipment and component assemblies. Exceptions are the photographic equipment in category 10 and the armament equipment in category 11. Categories 31 through 51 are assigned to Air Force ground systems and related equipment. Category 60 is assigned to EOD TOs.

TO 00-5-18

1.1.6 CSTO/CSTCTO Series Headers Numbering. All FMS numbering for CSTO/CSTCTO Series Headers will be completed using ETIMS. CSTO/CSTCTO Series Headers will begin with either a two-digit country specific code or XX for CSTO/CSTCTO Series Headers that will be utilized by multiple countries. See Table 1-1 for two-digit county specific code listing. Example of a CSTO: SR1F-15C-1 (SR is specific to Saudi Arabia) Example of multiple country CSTO: XX1F-15C-1 (XX is for more than one country) See: <https://www.samm.dsca.mil/table/table-c4t2a> for complete listing of FMS country codes.

1.1.7 TO Catalog. The Air Force TO Catalog Application lists current TOs, changes since the last publication of the Catalog and a cross- reference to equipment numbers. It includes all active TOs in Categories 0 through 51. The "XX" version of the Air Force TO Catalog is provided for FMS/SAP customers at AFSAC on line.

1.1.7.1 The Air Force Civil Engineer Center, EOD Joint Service Acquisition, Sustainment and Technology Division (AFCEC/CXE), is the AF EOD liaison office to the NSWC IHEODTD, Indian Head, MD. NSWC IHEODTD numbers Nonnuclear EOD (Category 60) TOs and are indexed as part of the Joint Service EOD Mobile Field Kit, Automatic EOD Publications System (AEODPS) software, published quarterly.

1.1.7.2 The FMS TO System Section, AFLCMC/LZPT-Tinker, Tinker AFB, OK, manages the Security Assistance TO Data System (SATODS), which provides several special Category 71 indexes that list CSTOs used only by specific FMS/SAP countries.

1.1.8 TO Number Verification. A close working relationship is needed between TO numbering specialists in AFLCMC/LZPT-Tinker and TO managers to avoid inaccurate TO number assignments. Numbering specialists must verify and approve TO numbers requested by TO managers, using information provided in ETIMS entry screens. If the information is misleading, insufficient, or in error, the numbering specialists could approve an incorrect TO number. This error could have adverse effects on anyone attempting to identify and obtain TOs to support operations and maintenance. One major impact of an incorrect TO number assignment is the sizeable funds expenditure required to correct the number, especially when not only must the TO involved be renumbered, but other technical data that contains cross-references to the incorrect TO number must be changed as well.

1.1.9 TO Numbering Information. In addition to correctly completing ETIMS screens, TO managers provide assistance to numbering specialists by suggesting TO numbers, identifying categories and equipment, and furnishing telephone and written communications that aid in categorizing specific TO data. It is important that the Equipment Specialists (ES) or Item Manager (IM) provide accurate data to the TO manager so that the TO numbering specialists has all the information necessary to assign a correct TO number. Close attention should be paid to the TO title. TO titles must be formatted according to Appendix B, Developing TO Titles.

1.2 ENHANCED TECHNICAL INFORMATION MANAGEMENT SYSTEM (ETIMS).

ETIMS is the Air Force TO management system of record. It is currently deployed Air Force wide. It is used by TO Distribution Office (TODO) accounts for TO ordering, account management, and digital TO distribution. It is also used by TO Managers for all TO number requests, indexing, modification of TO meta data, TO distribution and all TO related matters. Legacy paper TOs are printed and distributed by the Defense Logistics Agency (DLA) & Document Services TO Distribute & Print Service (TODPS).

1.3 TECHNICAL ORDER NUMBERING THEORY.

1.3.1 TO Grouping. The basic task of TO numbering specialists is to group similar TO data into categories, systems, equipment series and equipment sub-series by means of an identifying numeric or alpha-numeric TO number. The following special characters are not allowed in the TO number when uploading eTOs for deployment:

- ^, \, ', #, \$, %, *, &, +, ?, <, >, /, |, ", :

These characters prevent the uploaded files from deploying properly to the ETIMS repository. TOs and TCTO headers with these characters will not be approved.

1.3.1.1 Existing eTOs, with no matching paper TO, currently indexed with special characters not allowed, will be renumbered, removed, and redeployed.

1.3.1.2 When there is a paper TO version of the eTO, remove the not allowed special character from the WA-1 TO number so the eTO can deploy and perform the renumbering action on the paper TO at the next change of the TO.

1.3.2 TO Categories. TOs are grouped numerically by type of equipment covered by the TO Category.

| | |
|----|--|
| 0 | TO Catalog, Indexes and Cross-Reference Table |
| 00 | Methods & Procedures Technical Orders |
| 1 | Aircraft |
| 2 | Airborne Engines and Associated Equipment |
| 3 | Aircraft Propellers and Rotors |
| 4 | Aircraft Landing Gear |
| 5 | Airborne Instruments |
| 6 | Aircraft and Missile Fuel Systems |
| 7 | Airborne Engine Lubricating Systems |
| 8 | Airborne Electrical Systems |
| 9 | Aircraft and Missile Hydraulic, Pneumatic and Vacuum Systems |
| 10 | Photographic Equipment |
| 11 | Armament Equipment |
| 12 | Airborne Electronic Equipment |
| 13 | Aircraft Furnishings and In-Flight Feeding Equipment, Cargo Loading, Aerial Delivery and Recovery Equipment, Aircraft Fire Detection and Extinguishing Equipment |
| 14 | Deceleration Devices, Personal and Survival Equipment |
| 15 | Aircraft and Missile Temperature Control, Pressurizing, Air Conditioning, Heating, Ice Eliminating and Oxygen Equipment |
| 16 | Airborne Mechanical Equipment |
| 21 | Guided Missiles |
| 22 | Aerospace Vehicles |
| 31 | Ground Electronic Equipment |
| 32 | Standard and Special Tools |
| 33 | Test Equipment |
| 34 | Shop Machinery and Shop Support Equipment |
| 35 | Ground Handling, Support, Air and Missile Base Operating Equipment |
| 36 | Vehicles, Construction and Material-Handling Equipment |
| 37 | Fuel-, Oil- and Propellant-Handling Equipment |
| 38 | Non-aeronautical Engines |
| 39 | Watercraft Equipment |
| 40 | Commercial Air-Conditioning, Heating, Plumbing, Refrigerating, Ventilating and Water Treating Equipment |
| 41 | Subsistence and Food Service Equipment |
| 42 | Coating, Cleaning and Sealing Compounds and Fuels, Gases, Lubricants, Chemicals and Materials |
| 43 | Simulator and Training Devices |
| 44 | Common Hardware Equipment |
| 45 | Railroad Equipment |
| 46 | Office, Duplicating, Printing and Binding Equipment |
| 47 | Agriculture Equipment |
| 49 | Optical Instruments, Timekeeping and Navigational Equipment |
| 50 | Special Services Equipment |
| 51 | Automatic Test Systems |
| 60 | Explosive Ordnance Disposal Procedures |

1.3.3 TO Numbering Patterns. Each category of TO data has its own TO numbering pattern. Sufficient flexibility exists within the total numbering system to allow for expansion or contraction within numbering parameters, yet maintain standard application of numbering patterns within each category.

1.3.4 TO Number Groups vs Parts. TO numbers are composed of groups separated by dashes, and each group is further divided into parts. The number of parts within any group varies according to the TO data being numbered in a specific category. Each part of a group consists of one or more numeric characters or one or more alpha characters. The numbering patterns used to identify TO data in each category are outlined in Chapters 2 through 41.

1.3.5 TO Numbering Groups. A total of seven groups may be used in the TO numbering pattern (see Table 1-1). TO data is identified, in most categories, by using only the first three or four basic groups. The remaining groups are primarily used to extend the TO number to identify specific sections of sectionalized TOs; supplemental manuals; and supplement, checklist and work-card sequence numbers.

Table 1-1. Guidelines for TO Numbering

| Group | Maximum Parts in this Group | Maximum Positions | Maximum Alphanumeric Characters and Program Sequence |
|-------|-----------------------------|-------------------|--|
| 1 | 3 | 9 | NNNNAANN or AAAANNA |
| 2 | 6 | 21 | NNNNNAAAAANNNNAAAAANA or AAAANNNNNN-NAAAAANNAN |
| 3 | 3 | 10 | NNNNNAAANN or AAAANNNAA |
| 4 | 3 | 11 | NNNNNAAAANN or AAAANNNNAA |
| 5 | 3 | 7 | NNNAAAN or AAANNNA |
| 6 | 2 | 5 | NNNAA or AAANN |
| 7 | 1 | 2 | AA or NN |

1.3.6 TO Numbering Major Elements. The five major elements of information considered most essential in assigning TO numbers are discussed below:

1.3.6.1 Federal Supply Class (FSC). An FSC is assigned to Air Force stocklisted equipment by cataloging specialists. A system or equipment item that has not been assigned an FSC is non-stocklisted, and a TO number will not be assigned to the related technical data. The FSC identifies a system, sub-system, and equipment series that can be related to a TO category and equipment series. The FSC is the first four digits of the NSN. **EXAMPLES:**

1.3.6.1.1 FSC 5825 identifies ground radio navigation equipment and relates to TO numbering as follows:

31R4
 31 Ground Electronic Equipment (Category 31)
 R Radio System
 4 Navigation Equipment Series

1.3.6.1.2 FSC 5826 identifies airborne radio navigation equipment and is related to TO numbering as follows:

12R5
 12 Airborne Electronic Equipment (Category 12)
 R Radio System
 5 Navigation Equipment Series

1.3.6.2 Descriptive Nomenclature. The nomenclature provided on the ETIMS Screens supplements the FSC by further defining the system or equipment series. A combination of only the FSC and the descriptive nomenclature can, in many instances, provide the numbering specialist with a complete TO number. For example, if FSC 5826, airborne radio navigation equipment, is provided in conjunction with an equipment nomenclature reading "Maintenance Manual -- Radio Set, Type AN/ARN-24," the following TO number may be assigned:

12R5-2ARN24-2
 12 Airborne Electronic Equipment (Category 12)
 R Radio system
 5 Navigation Equipment Series

| | |
|-----|---|
| 2 | Numeric 2 indicates the Equipment has a JETDS nomenclature (Paragraph 1.19) |
| ARN | JETDS Nomenclature that indicates: A - Airborne; R - Radio; N - Navigation |
| 24 | Radio Model 24 |
| 2 | Maintenance Manual |

1.3.6.3 Functional System. The functional system furnished on the ETIMS screens is the next higher echelon of equipment or system for the equipment covered by the subject TO. The functional system identifies an equipment series if the TO being numbered covers an equipment sub-equipment series. The functional system identifies a system if the TO being numbered covers an equipment series.

1.3.6.4 Part Number. A TO number will not normally be assigned to equipment without a part number, model number or other identifier. All part numbers, model numbers or any other identifiers will be included in the TO title. If the equipment is not already listed in ETIMS then the Equipment Specialists (ES) or Item Manager (IM) must enter it using the ETIMS Maintain Equipment Screen. Data to be entered includes the weapon system application, the equipment part number, and the manufacturer/vendor CAGE code. This data is then extracted from ETIMS for the TO-Equipment number Cross-Reference section of the TO catalog.

1.3.6.5 Joint Electronics Type Designation System (JETDS) Nomenclature. Refer to Paragraph 1.19. If the JETDS (formerly "AN") nomenclature appears in the title lines of a TO, it must be reflected in the TO number. Air Force personnel request JETDS nomenclatures using a DD Form 61, *Request for Nomenclature*, submitted to the HQ AFMC Supply Operations Division, Asset Identification Branch (HQ AFMC/A4SI), Wright-Patterson AFB OH for approval. For further information concerning this system contact A4SI at DSN 787-0610.

1.4 TECHNICAL ORDER NUMBERING PROCEDURES.

TO Managers requesting TO number assignment submit ETIMS Request TO Number screen according to procedures provided in TO 00-5-3. The TO numbering specialist will comply with the procedures and guidance provided in the following paragraphs when assigning TO numbers to approved technical data.

1.4.1 DO86. Compare the Federal Stock Class (FSC), and D086, *Mission Workload Assignments System*, to determine if the requesting LCMC or PC is responsible for the indicated FSC. Go to <https://d086.wpafb.af.mil/> to view D086 information. Review the title of the FSC to help determine the appropriate TO Category.

1.4.2 Determine Category. Using the FSC and equipment nomenclature, determine the appropriate TO category, equipment series and sub-series. For numbering General TOs, see Paragraph 1.18.

1.4.3 Numbering Patterns. Once the category, series and sub-series have been determined, use the appropriate chapter of this TO for proper numbering patterns within that category.

1.4.4 Developing TO Titles. Refer to Appendix B, Developing TO Titles, for guidance in developing a TO title. A TO title is key to determining the correct TO number. TO titles will determine the type and kind of TO number assigned to a TO and to prevent confusion between similar types of TOs covering similar applications. It will also be used to determine the proper category a TO will be assigned, as well as, ensuring all segments of the number are in correct order and contain the correct data. The TO numbering specialist will be unable to assign a TO number until incorrect information has been corrected, which could delay the assigning of a TO number.

1.5 IDENTIFYING TYPES OF TECHNICAL ORDERS.

1.5.1 TO Types. Each of the various types of TOs: operations manuals, inspection and maintenance instructions, Illustrated Parts Breakdowns (IPBs), etc. is represented in a TO number by a designated type number (see Appendix C for a complete list of types of TOs). These designated numbers are standard within a category, but are not necessarily standard among categories. An example is a field maintenance manual, which is represented by "-6" in category 2, but is represented by "-2" in other categories. Numbering specialists should consult the listings of designated numbers for the appropriate category before assigning a number to represent a specific type of TO.

1.5.2 Identifying TO Type. The type of TO is identified in the last basic group of the TO number and the first part of the TO title. Normally this is the third or fourth group; however, in some categories it is necessary to identify an equipment sub-series in the TO number. In these categories, the type of TO will be identified in the fifth group.

1.6 NUMBERING RELATED TECHNICAL ORDERS.

1.6.1 Authorized Numbers. Chapters 2 through 41 include complete lists of numbers authorized to identify specific types of TOs in each TO category. The following list provides brief definitions of dedicated numbers used in all TO categories, except categories 1, 21 and 22. (Additional numbers are required in categories 1, 21, and 22 to identify distinct types of TO data.)

- 01 List of Applicable Publications (LOAP)
- 06 Work Unit Code Manuals
- 1 Operating Instructions
- 2 Organizational, Intermediate, Field Maintenance, or Service Manuals, Trouble Shooting & Repair Manual
- 3 Depot Maintenance, Overhaul, Schematic, or Wiring Diagram Manuals
- 4 Parts List, Parts Breakdown or Illustrated Parts Breakdown Manuals
- 6 Inspection Requirement Manuals
- 7 Installation and Installation Test Procedure Manuals
- 8 Test Procedures, User Manuals, Reference Manuals, Programmed Test Manuals, or Software-Related Instruction Manuals, Configuration Guide
- 9 Alignment Instruction Manuals

NOTE

- The number -5 is used to identify a wide variety of types of TOs, depending on the applicable TO category. Refer to Paragraph 1.12 for numbering abbreviated TOs and to Paragraph 1.14 for numbering TCTOs.
- The number -8 includes subsequent sequence numbers indicated as 8-1, 8-2, 8-x, etc. This sequence number is used in all categories.

1.6.2 Compatible TOs. TO data pertaining to the same specific equipment, but contained in more than one type of TO listed in subparagraph 1.9.1 above, is considered to be compatible and, therefore, is numbered together by using the same basic TO number configuration. An operations manual, a maintenance manual and a parts breakdown manual that are compatible will be numbered in the same TO number series, like those shown in the following examples:

| | |
|---------------|--------------------|
| 36A12-13-18-1 | Operations Manual |
| 36A12-13-18-2 | Maintenance Manual |
| 36A12-13-18-4 | Parts Breakdown |

1.6.3 Equipment Modifications. Equipment modifications cause changes in TO data; and new TOs are issued to reflect the changes. The new or modified TO data does not always replace existing TOs; therefore, it must be identified in the TO number series that is already established. This identification is accomplished by determining the specific type of TO to be numbered and adding 10 to the designator number (e.g., an operations manual, normally a "-1," would become a "-11"). This addition provides another sequence for numbering slightly different TO data, pertaining to the same equipment, in the same TO number series. Any subsequent operations manuals will be numbered -21, -31, -41, -51, etc. This 10-number sequence within a TO number series preserves the integrity of the -1 designated number that identifies operations manuals; and it also provides a method of grouping compatible TOs in the same sequence. This same sequence-numbering procedure will be applied to various other types of TOs as required.

1.6.4 Non-Compatible TOs. Different types of TOs that relate to the same specific equipment, but contain data that is not compatible, will be numbered with the same basic TO number, but will not be numbered in the same 10-number sequence. For example, an operating instructions manual pertaining to specific equipment and a maintenance manual pertaining to a modification of the same equipment are not compatible. The operating instructions manual will receive a basic TO number ending in -1; and the maintenance manual will receive a TO number ending in -12 (in the subsequent 10-number sequence). The same basic TO number will be used (e.g., 10E5-2-14-1 and 10E5-2-14-12).

1.6.5 Numbering Similar TO Types. Two TOs of the same type will not be numbered in the same 10-number sequence of a TO number series. An intermediate maintenance manual and a service manual (each normally numbered -2) cannot be numbered in the same 10-number sequence. One of the manuals will receive a basic TO number ending in -2 and the other will receive the same basic TO number, but will end in -12 (from the following 10-number sequence). If a TO must be

changed to make it applicable to a specific configuration of the end item to which it applies and there are two or more end item configurations to be covered, the original TO will retain its number unchanged and modified TOs will be identified by a dash number in another 10-number sequence.

1.6.6 Sectionalisation of Numbers. If a TO is too large for efficient use, it may be sectionalized by dividing it into logical equipment segments of two or more sections. Each of the sections will receive the same 10-number sequence designator for the type of TO. A dash will be added and will be followed by a consecutive serial number to identify each section (e.g., 12P6-4-14-3-1, 12P6-4-14-3-2, 12P6-4-14-3-3, 12P6-4-14-3-4). Sectionalizing is further described in Paragraph 1.11.

1.7 NUMBERING FUNCTIONALLY ORIENTED MAINTENANCE MANUALS.

Functionally oriented maintenance manuals (FOMMs) will be numbered with a -2, to designate the type of TO, as described in Paragraph 1.6 and the appropriate section for the category involved. Section numbers may be assigned according to Paragraph 1.11, if appropriate.

1.8 NUMBERING MAINTENANCE DEPENDENCY CHARTS.

Maintenance dependency charts will be numbered with a -2, like maintenance TOs.

1.9 NUMBERING CALIBRATION AND MEASUREMENT SUMMARIES TECHNICAL ORDERS.

Calibration and Measurement Summaries TOs will be numbered in the appropriate categories and TO series for the aerospace systems (aircraft, missile, communications-electronics) to which they apply. Calibration and Measurement Summaries TOs relating to general equipment, if no aerospace systems are identified, will be numbered in category 33K.

1.10 NUMBERING COMBINED TYPES OF TECHNICAL ORDERS.

For a TO that combines TO data relating to more than one type of TO, the designated number of the first type of TO identified in the title will be assigned. Thus, a TO bearing the title "Operations, Maintenance, and IPB" will be numbered "-1" because operations is the first type of TO identified in the title; a TO bearing the title "Overhaul and IPB" will be numbered "-3" because overhaul is the first type of TO identified in the title. This numbering procedure will be used with any combination of types of TOs and with CDs containing multiple TO types. When all system technical data is provided as an Interactive Electronic Technical Manual (IETM) in a relational database, the number will identify the system (e.g., "1F - 16C") and end in "-1" to signify that all operations and maintenance data is contained in the database. If the database is limited to maintenance data only, the number would end in "-2." Paragraph 1.22 specifies number suffixes to use if there are multiple TO versions published (e.g., the database and discrete TOs).

1.11 NUMBERING MULTIVOLUME (SECTIONALIZED) TECHNICAL ORDERS.

When TO data is sufficiently large and has natural divisions in tasks or equipment breakout which make several smaller manuals more usable and more manageable, a separate TO number is assigned for each volume. One example that meets this criterion is aircraft maintenance data, which contains many detailed tasks. The same procedures may be used for multiple CD sets. Flight manual performance data may be issued as a separate TO numbered and assigned a suffix dash (-) number as for multivolume TOs. Multivolume documents normally relate to the same system or equipment and are the same type of TO. Different types of TOs will not be produced as separate volumes with the same basic TO number. After numbering specialists have assigned the basic TO number and determined that a sectionalized manual is necessary, an additional group will be added to the basic TO number. This new group will identify the volume number of a multivolume TO as in the following examples:

12P3-2ALQ101-32-1

32

Maintenance Manual (Last Basic Group of TO Number)

1

First volume of a multivolume Maintenance Manual

12P6-4-14-3-4

3

Overhaul Instructions Manual (Last Basic Group of TO Number)

4

Fourth volume of a multivolume Overhaul Instructions Manual

TO 00-5-18

12P3-2ASR5-4-2

4 Illustrated Parts Breakdown (Last Basic Group of TO Number)
2 Second volume of a multivolume Illustrated Parts Breakdown Manual

1.12 NUMBERING ABBREVIATED TECHNICAL ORDERS.

Abbreviated TOs, including checklists (CL), workcards (WC), etc., are identified by adding the alpha designator to the last group of the TO number and adding a sequential number (-1, -2, -3, etc.) to identify the TO as the first, second, third, etc. in a series.

Examples: 1F-15A-2-10CL -1
31S5-2FYQ45-6WC-2

1.13 NUMBERING SUPPLEMENTAL MANUALS.

A supplemental manual does not stand alone, but must be used in conjunction with another TO. Supplemental manuals may be used to publish classified data while allowing the parent manual to remain unclassified, to publish data provided by a source other than the PM, and/or to publish data in a form other than the parent manual. Supplemental manuals differ from supplements in that they are assigned a separate TO dash number with no alpha designations. The TO identification number for supplemental manual is established by adding a serial number to the parent TO number. The first supplemental manual is -1, the second is -2, etc.

Examples: 31S5-2FYQ45-3-1 is a supplemental manual used with 31S5-2FYQ45-3.
1F-4D-34-1-1-1 is a supplemental manual used with 1F-4D-34-1-1.

1.14 NUMBERING TIME COMPLIANCE TECHNICAL ORDERS.

1.14.1 TCTO. A time compliance technical order (TCTO) contains technical instructions for the modification or inspection of a specific item of Air Force equipment, or distribution of revised CPIN items. A TCTO may also cause publication of a change or supplement to technical data already established in the TO system. A TCTO is identified by a serial number beginning with the number 501 for the first TCTO issued for the item of equipment, and its basic number indicates data that has already been numbered in the TO system. Since a TCTO may affect more than one type of manual, a type-of-manual designator is not included in the TCTO number. The TCTO serial number replaces the type-of-manual designator in the basic TO number. See TO 00-5-3.

1.14.1.1

Examples: 1F-111A-1254
16G1-148-501
21M-LGM30-1030
31P5-2MPN14-534
35A2-2-76-501

1.14.1.2 When a requirement exists to reactivate a TCTO that has been rescinded, the TCTO will be reinstated with the same TCTO number, but with a current date. The number of an inactive TCTO is never reused for a different modification or inspection.

1.14.1.3 If a program was formerly operating outside of the standard Air Force TO numbering policies/procedures, they may request a waiver to continue use of the non-standard formats and avoid the cost of converting existing TOs and TCTOs.

1.14.2 TCTO Supplement. A TCTO supplement is identified by adding an alpha suffix to the TCTO serial number; e.g., 16G1-149-501C.

1.14.3 TCTO Series Header. A TCTO series header includes only those TO number groups necessary to identify the model, type, or part number of a specific item of equipment. Separate series headers are required for each different classification of TCTO to be issued. They usually contain two or three groups.

1.14.3.1

Examples: 1F-111A [S] (Secret TCTOs)
 16G1-148
 21M-LGM30 [C] (Confidential TCTOs)
 31P5-2MPN14
 35A2-2-76

1.14.3.2 Broadly applicable series headers, such as "35A2 - Jacks," could encompass equipment managed by different program offices, and this could possibly result in multiple TO Managers issuing TCTOs against a header established by one of them.

1.14.3.3 The following are exceptions to the length of a TCTO Series Header number.

1.14.3.3.1 For a depot level supplemental FMS TO to an Air Force TO, when the supplemental TO only includes FMS part numbers and country codes for each part. These TOs will be used by Air Force assets to maintain foreign aircraft and will not be releaseable to the foreign country. Since these TOs have a very specific TO number and will only be releaseable to Air Force accounts, but will be used on foreign aircraft, special TCTO series headers will need to be created for each TO to include an XX at the end of the TCTO series header number, for example, 12P3-2ALE47-3-1 and 12P3-2ALE47-4-1 would be the supplemental TO numbers and will require FMS use only in the title. The TCTO series header will then be 12P3- 2ALE47-XX and will cover all TOs in the FMS series of the TOs and must include the TO numbers of the FMS only supplemental TOs.

1.14.3.3.2 Due to large amounts of systems being added to the Air Force where the TO number does not include a part number, but includes the system number, for example 31S9-4-122-2-WA-1, where the 122 position is associated to a system and not a part number, TCTO series headers will be required to go beyond the second and third series of number, since these TCTOs will cover several parts that make up the entire system. This will allow the TCTO to be distributed to just the users of a particular system and prevent the distribution of TCTOs to users that have different systems that fall into a series of TOs.

1.14.4 Establishing TCTO Series Header. To establish a TCTO series header, the TO Manager submits a ETIMS screen according to the DI, IAW TO 00-5-3. When it is expected that a TCTO covering more than one item of equipment will be forthcoming, a general TCTO series listing will be established at the appropriate level of generality.

1.14.4.1

Examples: 1F-1 Applicable to More Than One Fighter Aircraft
 1F-111 Applicable to More Than One Series of F-111 Aircraft
 1F-111A Applicable Only to the A Series of F-111 Aircraft

1.14.4.2 The mission-design-series (MDS) designators assigned to the B-1, H-1, and T-1 aircraft caused necessary exceptions to be made when numbering general TCTO series and general TOs for these three categories of aircraft. Since the aircraft MDS are the same as normally used for system general TCTO series listings, the number zero (0) is used in the second group of the number to designate a TCTO applying to more than one aircraft series.

1.14.4.3

Examples: 1B-0 Applicable to all bomber aircraft.
 1B-1 Applicable to all models of the B-1 aircraft.
 1B-1B Applicable to the B-1B aircraft.
 1H-0 Applicable to all helicopter aircraft.
 1H-1 Applicable to all models of the H-1 helicopter.
 1H-1H Applicable to the H-1 helicopter, model H.
 1T-0 Applicable to all trainer aircraft.
 1T-1A Applicable to the T-1 trainer, model A.

TO 00-5-18

1.14.5 Requesting TCTO Numbers. TO Managers request individual TCTO numbers through ETIMS, which automatically assigns the next consecutive serial number within the header series. ETIMS will assign the correct data code.

1.15 EMERGENCY TECHNICAL ORDER NUMBERING REQUESTS.

Timely submittal of TO numbering requests will minimize the use of emergency procedures. In the event of a work stoppage or other justified emergency, the TO Managers will use procedures in TO 00-5-3.

1.16 RENUMBERING TECHNICAL ORDERS.

TO renumbering shall be held to the minimum necessary to correct serious TO numbering errors. Renumbering will not be accomplished to align TO numbers with local sequence numbers or other cross reference identifiers. TO numbers will not be cancelled and new TO numbers assigned just for the purpose of renumbering. The responsible TO Manager will renumber a TO using the ETIMS "Manage TOs, Manager TO Detail" process after coordinating the new number with AFLCMC/LZPT-Tinker. (Coordination is not required to assign a TO supplement number, or change an FMP supplement number.) When renumbering a published TO, both the new and former TO numbers will appear in the upper right corner of the title page with the former number preceded by the word "Formerly". Both numbers will remain on the title page until the next revision, at which time only the new number will appear. Only the new TO number will appear on the individual updated pages. Unchanged pages will continue to indicate the old TO number until they are changed for a reason other than simply renumbering, or until the next TO revision.

NOTE

TOMA must contact local TO Home Office, who will coordinate with AFLCMC/LZPT-Tinker prior to renumbering a TO to ensure a proper number is being used.

1.17 ASSIGNING TECHNICAL ORDER NUMBERS TO OTHER DOD COMPONENT TECHNICAL MANUALS.

TO numbers will be assigned to other DoD component Technical Manuals (TMs) that are adopted for Air Force use according to AFI 20-118. The Army numbering patterns for TMs are described in Department of the Army Pamphlet (DA PAM) 25-30, *Consolidated Index of Army Publications and Blank Forms*. To assign appropriate Air Force TO numbers to Army TMs, research DA PAM 25-30, this TO, and other appropriate source data. Navy, Marine Corps and Defense Logistics Agency TMs are given AF TO numbers in a similar fashion.

1.17.1 Army TM Designators. Table 1-2 provides a list of the most common types of technical manual designators used for Army TMs and corresponding Air Force type of TO designators. This table is provided as an aid but should not be used to make final determination of an Air Force TO number.

Table 1-2. Army TM and Air Force Type of TO Designators

| For Army TM Numbers Ending in: | Use Air Force Type-of-TO Designators: |
|---|---------------------------------------|
| -10 -12 -13 -14 -HR (Hand Receipt) | -1, -11, -21, etc. |
| -20 -23 -24 -25 -30 -34 -35 -40 -45 | -2, -12, -22, etc. |
| -50 | -3, -13, -23, etc. |

Table 1-2. Army TM and Air Force Type of TO Designators - Continued

| | |
|---|---------------------------------------|
| For Army TM Numbers Ending in: | Use Air Force Type-of-TO Designators: |
| -L (LOAP) | -01 |
| Any of the above numbers with a P suffix. (P is not the same as &P, which does not affect the AF designator.) | -4, -14, -24, etc. |

1.18 GENERAL TECHNICAL ORDERS.

In the numbering patterns for each category described in Chapters 2 through 41, numeric characters are used in the second or third group of a TO number to identify the specific equipment covered by the TO. The distinct pattern for a category, or a system within a category, indicates whether the second or third group is used for the specific equipment identifier. The number used as a specific equipment identifier will be greater than 1.

1.18.1 General TO Numbers. If the number 1 is used in lieu of a specific equipment identifier, the TO is a general technical order (category general, system general, or equipment-series general TO). **EXCEPTION:** The pattern established for numbering TCTO series for B-1, H-1, and T-1 aircraft (Paragraph 1.14.4.2 & Paragraph 1.14.4.3) is also used for general TOs in these systems.

1.18.1.1 Category general TOs apply to more than one type of aircraft, missile, or engine or to more than one equipment system in the category.

1.18.1.2 System general TOs apply to more than one type of aircraft, missile, or engine or to more than one equipment series within the equipment system.

1.18.1.3 Equipment-series general TOs apply to more than one sub-series of equipment within the equipment-series.

| | | |
|-----------|------------------|---------------------------|
| Examples: | <u>TO Number</u> | <u>Equipment-Series</u> |
| | 9H1-1-102 | Accumulators |
| | 9H2-1-102 | Cylinders and Actuators |
| | 34C1-1-101 | Leather Cutting Machines |
| | 34F2-1-111 | Metal Finishing Machines |
| | 36A1-1-141 | Ambulances |
| | 36A2-1-1 | Commercial Fleet Vehicles |

1.18.1.4 Equipment-sub-series general TOs apply to more than one equipment within the equipment sub-series.

| | | |
|-----------|------------------|-----------------------------|
| Examples: | <u>TO Number</u> | <u>Equipment-Sub-Series</u> |
| | 34F2-2-1-111 | Grinders |
| | 34F2-3-1-121 | Hones |
| | 36A2-3-1-1-3 | Ford Vehicles |
| | 36A2-4-1-102 | GMC Vehicles |
| | 36A2-5-1-104 | Chrysler Motors Vehicles |

1.19 NUMBERING JOINT ELECTRONICS TYPE DESIGNATION SYSTEM (JETDS) TECHNICAL ORDERS.

1.19.1 JETDS Numbers. A large portion of the TOs in categories 12 and 31 cover equipment identified by JETDS equipment numbers. The JETDS (formerly AN nomenclature system) is described in MIL-STD-196, *Joint Electronics Type Designation System*.

1.19.1.1 A typical JETDS equipment number is AN/APN-167. The alphas AN indicate JETDS equipment. The A (first alpha character following the diagonal) designates the installation as piloted aircraft. The P (second alpha character following the diagonal) designates the type of equipment as radar. The N (third alpha character following the diagonal) designates the purpose of the equipment as navigational aids. The number following the dash designates a specific set of equipment. Table 1-3 provides a complete list of equipment indicators.

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1.19.1.2 A typical JETDS component number is RT-771/APN-167. The RT, in accordance with MIL-STD-196 indicates a receiver and transmitter. The 771 identifies a specific equipment component. The APN-167 (following the diagonal) indicates the component is applicable to the AN/APN-167 equipment set described above.

1.19.1.3 Identifying numbers for TOs covering JETDS equipment and components use a portion of the JETDS number in the second group of the TO number. (See examples of TO numbers in Chapter 15 and Chapter 22 .)

1.19.1.4 If a single TO is applicable to more than one JETDS equipment set or component at any level of breakdown, a JETDS general TO may be established at that level.

1.19.2 JETDS General TOs. JETDS system-general TOs apply to equipment sets in more than one kind of JETDS installation. These TOs are identified by the numeric 2 in the second group of the TO number. Examples:

- 31P5-2-137 is applicable to both fixed ground installation (indicated by the F following the diagonal in AN/FSA-4A which is identified in the title) and general ground-use (indicated by the G following the diagonal in AN/GRC-30 which is identified in the title).
- 31W4-2-121 is applicable to both general utility installation (indicated by the U following the diagonal in SB-1203/UG which is identified in the title) and water installation (indicated by the S following the diagonal in TT-23/SG which is identified in the title).

1.19.3 JETDS Installation TOs. JETDS installation-general TOs apply to equipment sets in more than one JETDS type of equipment within one installation kind. The second group of the TO number will contain a 2 followed by an alpha character that designates the installation kind. Examples:

- 31W4-2G-101 is applicable to a general, general-ground-use component C-7185/G.
- 31W4-2T-102 is applicable to a general-use, ground transportable component CU-1819/T.

1.19.4 JETDS Equipment TOs. JETDS equipment-type general TOs apply to more than one equipment purpose within one type of equipment. The second group of the TO number will contain a 2 followed by an alpha character that designates the equipment installation kind and a second alpha character that designates the type of equipment. Examples:

- 31W4-2GG-162 is applicable to a general-use component CV-2696/GG. The first G after the diagonal indicates general ground-use installation. The second alpha indicates telegraph or teletype type of equipment.
- 31W4-2TG-144 is applicable to a general-use component TH-5/TG. The T following the diagonal indicates a ground transportable installation. The G indicates the type of equipment is telegraph or teletype.

1.19.5 JETDS General Purpose TOs. JETDS purpose general TOs apply to more than one specific equipment set within one equipment purpose. The second group of the TO number will contain a 2 followed by three alpha characters that designate the installation, type of equipment, and purpose, respectively. Examples:

- 31W4-2GGC-142 is applicable to components OU-60/GGC-30 and OU-61/GGC-31.
- 31W4-2TGC-122 is applicable to equipment sets AN/TGC-27 and AN/TGC-28.

Table 1-3. Table of JETDS Equipment Indicators ¹

| Installation (1 st letter) | Type of Equipment (2 nd letter) | Purpose (3 rd letter) |
|--|--|---|
| A - Piloted aircraft B - Underwater mobile submarine D - Pilotless carrier F - Fixed Ground G - General Ground Use | A - Invisible light, heat radiation C - Carrier D - Radiac E - Laser G - Telegraph or Teletype | A - Auxiliary assembly ² B - Bombing C - Communications (receiving and transmitting) D - Direction finder reconnaissance and/or surveillance E - Ejection and/or release |

Table 1-3. Table of JETDS Equipment Indicators ¹ - Continued

| Installation (1 st letter) | Type of Equipment (2 nd letter) | Purpose (3 rd letter) |
|--|--|---|
| K - Amphibious M - Ground, mobile P - Portable S - Water T - Ground, transportable U - General Utility V - Ground, vehicular W - Water surface and underwater combination Z - Piloted and pilotless airborne vehicle combination | I - Interphone and public address J - Electromechanical or inertial wire covered K - Telemetry L - Countermeasures M - Meteorological N - Sound in air P - Radar Q - Sonar and underwater sound R - Radio S - Special types, magnetic, etc or combination of types T - Telephone V - Visual and visible light W - Armament (peculiar to armament, not otherwise covered) X - Facsimile or Television Y - Data Processing | G - Fire control, or searchlight directing H - Recording and/or reproducing (graphic meteorological and sound) K - Computing M - Maintenance and/or test assemblies (including tool) N - Navigational aids (including altimeters, beacons, compasses, racons, depth sounding, approach and landing) Q - Special, or combination of purposes R - Receiving, passive detecting S - Detecting and/or range and bearing, search T - Transmitting W - Automatic flight or remote control X - Identification and recognition Y - Surveillance (search, detect, and multiple target tracking) and control (both fire and air control) |
| <p>NOTES:</p> <p>1 - The following indicator letters, removed from Table 1-3, are not to be used for new type designation assignments: Installation: C - Air Transportable. Type of Equipment: B - Pigeon; E - Nupac; F - Photographic purpose; L - Searchlight control; P - Reproducing.</p> <p>2 - For Department Control Point Use. Not for use by contractors unless directed by procuring activity.</p> | | |

1.20 COUNTRY STANDARD TECHNICAL ORDER NUMBERS.

1.20.1 Country Standard TO. Country Standard TO (CSTO) numbers are assigned to readily identify TOs that support equipment acquired by foreign countries through the Foreign Military Sales Program. These TOs are not used by the United States Air Force (USAF), but are centrally managed by AFLCMC/LZPTC-Tinker, Tinker AFB OK, in the Security Assistance Technical Order Distribution System (SATODS) for support of the foreign customers. A CSTO may be a complete standalone publication or it may be a supplemental manual containing difference data used in conjunction with a baseline TO.

1.20.2 CSTO Designation. CSTO numbers are distinguished from USAF TO numbers by using "CSTO" in place of "TO" and with a two- position alpha prefix (country designator) that identifies the country involved. The balance of the CSTO number is established in the same manner described in this document for USAF TOs. Country designators will be compatible with country codes listed in AFMAN 23-110, Vol 9, *Security Assistance Program Procedures* and DOD Manual 5105.38-M, *Security Assistance Management Manual (SAMM)*, Appendix 4.

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1.20.3 Standalone CSTO. If the CSTO is a standalone publication used in lieu of a USAF TO, the CSTO will be identified by a country designator plus the same number as the related USAF TO. Only the acronym "CSTO" and country designator prefix in the CSTO number will distinguish between them.

NOTE

Supplemental manuals will have a title page statement reading "This TO (or CSTO) is incomplete without TO (or CSTO) (number)."

1.20.4 CSTO Country Designator. When the CSTO is supplemental to a USAF TO or to a standalone CSTO, it will be identified by a country designator prefix plus a -1 or other appropriate designation added to the TO number according to the concept described in Paragraph 1.13.

1.20.5 CSTO Component Equipment. In some instances a standalone CSTO will be for component equipment of a major design departure from any USAF equipment; therefore, it will not be related to any USAF TO.

1.20.6 CSTO Examples. Examples of CSTOs are as follows:

- Standalone CSTO - Job guide manual used by Saudi Arabia for F-15 aircraft:

SR1F-15C-2-32JG-30-3

| | |
|----|--|
| SR | Designates Saudi Arabia |
| 1 | Category 1 |
| F | Basic Mission Fighter Aircraft |
| 15 | Aircraft Production Model |
| C | Aircraft Production Series |
| 2 | Number Reserved for Maintenance Instructions |
| 32 | Landing Gear System (MIL-STD-1808, <i>System Subsystem Sub-Subsystem Numbering</i> , Chapter 32) |
| JG | Job Guide Manual |
| 30 | Subsystem and Sub-Subsystem |
| 3 | Third in a Series of Manuals |

- CSTO - Supplemental Manual to a USAF TO or to a Standalone CSTO:

VE33D7-3-181-2-1

| | |
|-----|---------------------------------------|
| VE | Designates Venezuela |
| 33 | Category 33 |
| D | Special Purpose Test Equipment |
| 7 | Electrical and Electronic |
| 3 | Computers Sub-series |
| 181 | Represents Part Number 2120300 Series |
| 2 | Maintenance Instructions |
| 1 | Supplemental Manual |

- CSTO - Supplemental to Another CSTO, (to be used with SR43D3-4-12-1-1):

SR43D3-4-12-1-1-1

| | |
|----|--|
| SR | Saudi Arabia |
| 43 | Category 43 |
| D | Training Devices |
| 3 | Flight Simulators Sub-series |
| 4 | Fighter Aircraft Simulators Sub-series |
| 12 | Represents Model F-15 Series Aircraft |

| | |
|----|---|
| 1 | Operating Instructions |
| 11 | First Section of a Sectionalized Manual |
| 1 | Supplemental to CSTO |

1.21 OPERATION AND MAINTENANCE INSTRUCTIONS IN WORK PACKAGE FORMAT.

1.21.1 Work Package Format. Operation and maintenance instructions in work package format and subordinate work package format are prepared according to MIL-PRF-87929. The complete TO, which consists of a set of work packages, is numbered according to numbering procedures for the specific equipment category.

1.21.2 Individual Work Packages. Individual work packages will be numbered by the TO Manager using the following criteria:

1.21.2.1 The number will consist of five numeric characters and an alpha prefix of WP or SWP to identify a Work Package or a Subordinate Work Package as defined in MIL-PRF-87929.

1.21.2.2 A work package will be identified in the first three numeric positions; the last two numeric positions will be zeros (e.g., WP 116 00).

1.21.2.3 A subordinate work package will be identified by using the first three positions to specify the work package and the last two positions to specify the subordinate work package (e.g., SWP 126 19).

1.21.2.4 The alphabetical index work package (as defined in MIL-M-87929) will always be the first work package in the TO (i.e., WP 001 00).

1.21.2.5 The introduction work package (as defined in MIL-PRF-87929) will always be the second work package in the TO (i.e., WP 002 00).

1.21.2.6 Other work packages will be numbered WP 003 00, WP 004 00, and so on as required.

1.22 TECHNICAL ORDER DISTRIBUTION MEDIA SUFFIX CODES.

NOTE

Detailed instructions on the use of Distribution Media Codes are listed in TO 00-5-3.

1.22.1 Different Media Types. To meet customer requirements TO Managers may offer the same technical data on two or more types of distribution media, such as paper, CD-ROM, or DVD; as well as through direct electronic access.

1.22.2 Media Suffix Codes. Distribution media suffix codes (see below) are used in index listings to identify any TO versions available in any media other than paper, and will allow users to order TO copies distributed on that medium. Index listings for non-paper versions of the TO will include the applicable distribution media suffixes followed by an index number. Media-type suffixes will not be used for paper copies. TO media-type suffix codes are:

| <u>Code</u> | <u>Medium</u> |
|-------------|--|
| CD | CD-ROM |
| WA | Electronic Access (Web Access (digital)) |
| DV | Digital Versatile Disk (DVD) |

NOTE

Distribution media suffixes appear only in the TO Index for ordering purposes. They are not placed on the TOs themselves unless they are part of the digital distribution medium's number.

1.22.3 Media Suffix Recognition. The media-type suffix code will allow sight recognition of TOs available on other-than-paper media. All media-type suffixes will carry the index number "-1," except as described below. The index number following the suffix will be used for several purposes:

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1.22.3.1 If a TO or set of TOs (Paragraph 1.23) requires more than one disk or tape, the index number will indicate individual disks/tapes in the set (i.e., disk one of three is -1, disk two of three is -2, and disk three of three is -3).

1.22.3.2 If a set of TOs contains manuals with different classifications or distribution limitations, these TOs may be segregated by disk with different index numbers assigned to the different levels of protection required.

1.22.4 Examples.

- TO 1B-52G-4-1 is a paper IPB for the B52G aircraft. A DVD containing this TO would be indexed as 1B-52G-4-1-DV-1.
- TO 12P2-2APQ120-2 is an intermediate maintenance manual for a radar indicator. A CD-ROM containing the same TO would be indexed 12P2-2APQ120-2-CD-1.
- TO 33K-1-100-CD-1 (calibration procedures) is only available on CD-ROM.
- The database for the F-22 fighter Interactive Electronic Technical Manual (IETM) will be available on-line through a WAN, and would be indexed as 1F-22A-1-WA-1, with a Catalog note on how to access it. Note that the basic TO number ends in "-1" because ALL procedures, operations and maintenance, are contained in the one database (see Paragraph 1.10).

1.23 CD-ROMS/DVDS.

If a single TO or multiple TOs will be distributed on a CD-ROM or DVD, the TOMA must establish a specific TO Number for the CD ROM or DVD distributed. These actions will ensure that users will be able to subscribe to the CD-ROM/DVD TO or collection of TOs. EXAMPLES:

- TO 1B-52H-2-CD-1 through 1B-52H-2-CD-5 would contain the Organizational Maintenance Manual Set for the B-52H, provided on a set of 5 CD-ROMs;
- TO 33D2-17-2-CD-1 would contain unclassified TOs on an Aircraft Field Test Stand provided on CD-ROM, while 33D2-17-2-CD-2 (C) would contain confidential TOs for the same equipment; and
- TO 35D-1-DV-1 would be unclassified, Distribution Statement A TOs for Miscellaneous Aircraft Loading and Servicing Equipment provided on DVD.

1.24 TECHNICAL ORDER NUMBERING FOR ASD/AIA S1000D©, INTERNATIONAL SPECIFICATION FOR TECHNICAL PUBLICATIONS UTILIZING A COMMON SOURCE DATABASE.

1.24.1 S1000D. ASD/AIA S1000D© (<http://www.s1000d.org>) contains three primary constructs that relate directly to the TO Numbering process. These constructs are the Data Module (DM), the Common Source Data Base (CSDB), and the Publication Module (PM).

1.24.1.1 The DM is a self-contained unit of data for the description, operation, identification of parts or maintenance of the product and its support equipment. The DM consists of an identification and status section and contents section, and is produced in such a form that it can be input into, and be retrieved from, a database using a defined identifier.

1.24.1.2 The CSDB is a "store" of DMs required to produce technical publications.

1.24.1.3 The PM defines the content and the structure of a publication.

1.24.2 S1000D Compliance. TO numbers shall be assigned to the CSDB and each PM when acquiring ASD/AIA S1000D-compliant TOs. TO numbers for CSDBs shall comply with the TO numbering for databases as described in this TO (Paragraph 1.10). TO numbers for PMs shall also comply with this TO, but will use the Publication Module Code as specified in ASD/AIA S1000D as part of the TO number. DMs shall not receive a TO number, but will be numbered and controlled by ASD/AIA S1000D Data Module Code.

CHAPTER 2

CATEGORY 0 - TO CATALOG AND INDEXES

2.1 GENERAL.

ETIMS is the official Air Force TO Catalog and provides an Equipment and TO number cross reference. The Air Force catalog is available through the ETIMS program to any user who can gain access to ETIMS via the Air Force Portal. Access can be gained by using either a CAC or External Certificate of Authentication (ECA). A sanitized (“XX”) version of the Catalog is made available to FMS/SAP customers.

NOTE

Nonnuclear EOD TOs (Category 60), are indexed as part of the Joint Service EOD Mobile Field Kit, Automated EOD Publications System (AEODPS) software.

2.1.1 Air Force Catalog. The Air Force catalog is available through the ETIMS program to any user who can gain access to ETIMS via the Air Force Portal. Access can be gained by using either a CAC or External Certificate of Authentication (ECA).

2.1.2 Catalog Functions. Catalog provides six main functions, Tech Order List, TO Details, New TOs, New Increments, TO History, and TO/Equipment XREF. Other functions provide information and tips to help users of the catalog.

2.2 NUMBERING PATTERNS.

The catalogues are numbered in TO Category “0,” with the numerical catalog and indexes in subgroup “-1.”

2.3 CATEGORY 0 NUMBERS.

The only active TO numbers in the Catalog Category are:

0-1-71 Consolidated Security Assistance Technical Order Index

CHAPTER 3

CATEGORY 00 - METHODS AND PROCEDURES TECHNICAL ORDERS

3.1 GENERAL.

AFMC/A4FI establishes responsibilities for preparing Category 00 Methods and Procedures TOs (MPTOs). When a TO Manager requests a new Category 00 TO number, AFLCMC/LZPTP-Tinker determines if A4UE coordination and approval have been obtained before assigning a TO number.

3.1.1 00 TO Category. Category 00 TOs contain management data or data which is related to multiple equipment categories; or data which cannot be identified with any other established category.

3.1.2 00 TO Numbering Pattern. The TO numbering pattern in Category 00 uses three basic groups. A fourth group is sometimes added to further separate MPTOs or to sectionalize by equipment subdivisions as described in the introduction. The numbering pattern is explained in Paragraph 3.2.

3.2 NUMBERING PATTERNS.

3.2.1 Group One. This group contains one part. The designator 00 identifies the TO as being an MPTO.

3.2.2 Group Two. This group contains two parts.

3.2.2.1 Part one is made up of one or more numeric characters that identify the subject matter series. The numbering series are listed in Paragraph 3.4.

3.2.2.2 Part two, when used, consists of one or more alpha characters that further breakdown the subject matter into sub-series.

3.2.3 Group Three.

3.2.3.1 This group has one or more numeric characters that identify the specific type of TO.

NOTE

MPTOs, except for support equipment general "-06" Work Unit Code manuals, do not have "types."

3.2.3.2 In some instances the numeric characters in group three are followed by one or more alpha characters that indicate a series of checklists or supplements. The following alpha characters are authorized for use in Category 00.

CL - Checklists
S - Operational Supplements
SS - Safety Supplements

3.2.3.3 In addition to the three basic groups, another group may result by volumizing, according to Paragraph 1.11, or by using an aircraft or engine type-model-series designator to identify the section.

3.3 EXAMPLES OF TECHNICAL ORDER NUMBERING PATTERNS IN CATEGORY 00.

3.3.1 Example One. A MPTO covering the use of tape for packaging:

| | |
|----------|---|
| 00-85-35 | |
| 00 | MPTO Category |
| 85 | Protective Packaging and Preservation Packaging |
| 35 | Selection and Use of Tape for Packaging |

TO 00-5-18

3.3.2 Example Two. A MPTO covering disposal of critical alloys for C135 aircraft:

00-25-113-C135

| | |
|------|--|
| 00 | MPTO Category |
| 25 | Miscellaneous TOs |
| 113 | TO on Conservation, Segregation, and Disposal of Critical Alloys and Precious Metals |
| C135 | Volume for C135 Aircraft |

3.3.3 Example Three. A MPTO on installation and operation of part number (PN) 6650 series electrical systems:

00-105A-12

| | |
|-----|---|
| 00 | MPTO Category |
| 105 | Air Installation TOs |
| A | Electrical Facilities Installation |
| 12 | Designator for Specific Manual for PN 6650 Series Equipment |

3.4 LISTING OF CATEGORY 00 NUMBERING SERIES.

| | |
|---------|--|
| 00-5 | Technical Publications Systems |
| 00-20 | Maintenance Management System |
| 00-20D | Railroad Equipment |
| 00-20F | Office Equipment |
| 00-25 | Miscellaneous TOs |
| 00-33 | Communications and Information TOs |
| 00-33A | Network/Cyberspace Support/Communications |
| 00-33B | Secured Availability |
| 00-33C | Computing Infrastructure |
| 00-33D | Data and Services |
| 00-35 | Administrative Publications |
| 00-35A | Supply |
| 00-35D | Blank Forms, Deficiency Reporting |
| 00-75 | Air Evacuation |
| 00-80 | Special TOs |
| 00-80A | Aircraft Overseas Shipping |
| 00-80C | Aircraft Battlefield Recovery Procedures |
| 00-80F | Mortuary Equipment |
| 00-80G | Public Display Procedures |
| 00-85 | Protective Packing and Preservation Packaging, General |
| 00-85A | Specific Equipment TOs |
| 00-85B | Transportation Packaging Orders |
| 00-105 | Air Installation TOs, General |
| 00-105A | Electrical Facilities |
| 00-105E | Fire Protection and Rescue |
| 00-110 | Special Weapons, Defense, and Nuclear Disposal and Decontamination |
| 00-110A | Atomic and Radiological Warfare |

CHAPTER 4

CATEGORY 1 - AIRCRAFT

4.1 GENERAL.

4.1.1 Aircraft Category 1. TO data numbered in the aircraft category includes flight and operations manuals; organizational (flight line) maintenance and overhaul instructions; inspection requirements and specified procedures performed on the various types of aircraft. TO numbers incorporate the aircraft basic Mission/Design/Series (MDS) designators specified in DOD 4120.15-L, *Model Designation of Military Aerospace Vehicles*, to group types of aircraft data together according to mission.

4.1.2 Multiple Aircraft Type. TO data pertaining to more than one type of aircraft or more than one model within a specific type of aircraft is numbered as a General TO as described in Paragraph 1.18.

4.1.3 Multiple Production of Aircraft. TO data pertaining to more than one production series of a specific aircraft model is numbered as the earliest production series. A volumized structural repair manual applicable to the F-111 aircraft production series D, E and F is numbered in the D series.

4.2 NUMBERING PATTERNS.

This paragraph describes complete numbering patterns for all Category 1 TOs, except those maintenance manuals prepared following Specification MIL-PRF-83495, *Technical Manuals - On-Equipment Maintenance Manual Set*. Numbering patterns for MIL-PRF-83495 organizational maintenance manuals are covered in Paragraph 4.4 and Paragraph 4.5.

4.2.1 Group One. In Category 1, this group has only two parts identifying the category and aircraft mission.

4.2.1.1 Part one is always the numeric 1 to identify Category 1.

4.2.1.2 Part two is an alpha character identifying the aircraft basic mission or non-standard aircraft type as outlined in AFI 16-401(I), *Designating and Naming Defense Military Aerospace Vehicles*. The following is a list of the basic mission alpha identifiers:

Table 4-1. Basic Aircraft Mission and Non-Standard Vehicle Designators

| | | |
|---|---|--|
| A | - | Attack |
| B | - | Bomber |
| C | - | Cargo/Transport |
| D | - | Unmanned Aircraft (UA) Control Segment |
| E | - | Special Electronic Installation |
| F | - | Fighter |
| G | - | Glider |
| H | - | Helicopter |
| L | - | Observation |
| P | - | Patrol |
| Q | - | Unmanned Air Vehicles (UAV) |
| R | - | Reconnaissance |
| T | - | Trainer |
| U | - | Utility |
| V | - | VTOL/STOL |
| X | - | Research |

NOTE

TOs for Observation aircraft are identified by the basic mission symbol L instead of the alpha O as identified in AFI 16-401(I). To avoid confusion with numerals, the TO system does not use alpha characters I and O. These codes for Laser, Anti-submarine, Spaceplane and Lighter-Than-Air are not used in the Air Force TO system.

4.2.2 **Group Two.** Group two contains two or three parts that incorporate the aircraft model number; the modified aircraft mission (in parentheses) if applicable; and aircraft production series if required.

4.2.2.1 Part one contains one or more numeric characters identifying the aircraft model.

4.2.2.2 If part two is an alpha character in parentheses, it identifies a modified aircraft mission. If the modified mission is not applicable, the aircraft production series identifier described in part three follows the aircraft model number. The following is a listing of modified aircraft mission identifiers outlined in AFJI 16-401:

Table 4-2. Modified Mission and Status Designators

| | | | |
|--|-------------------------------|--------------------|------------------|
| A - Attack | H - Search/Rescue/ MedEvac | Q - Drone | V - Staff |
| C - Cargo/Transport | K - Tanker | R - Reconnaissance | W - Weather |
| D - Director | L - Observation* | T - Trainer | X - Experimental |
| E - Special Electronic Installation | M - Multi-Mission | U - Utility | Y - Prototype |
| F - Fighter | P - Patrol | | |

* L used in TO System to prevent confusion of O and 0.

4.2.2.3 Part three is an alpha character indicating the aircraft production series. The first series manufactured is identified with the alpha A, the second series with the alpha B, continuing through the alphabet.

4.2.2.4 If the number is for a general aircraft TO (Paragraph 1.18), groups one and two are established using the following designators:

- 1-1 - General Aircraft
- 1-1A - General Engineering Manuals
- 1-1B - Weight and Balance
- 1-1C - Air Refueling
- 1-1H - Aircraft Battle Damage Repair
- 1-1M - Non-Nuclear Munitions Delivery

4.2.3 **Group Three.** In Category 1, group three primarily identifies the type of TO, instruction or procedure. This can be accomplished by using either one or two parts.

4.2.3.1 Part one consists of one or more numeric characters reserved to indicate a specific type of TO. The following is a list of numbers reserved to identify the TOs in Category 1.

- 01 List of Applicable Publications (LOAP)
- 06 Work Unit Code Manuals
- 07 thru -09 Reserved
- 1 Flight Manuals
- 2 Maintenance Instructions
- 3 Structural Repair, Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 5 Basic Weight Checklist and Loading Data
- 5-1 Sample Checklist Basic Weight

| | |
|-------------|---|
| -5-2 | Loading Data |
| -6 | Inspection Requirements |
| -7 | Winterization Instructions |
| -8 | Test Procedures, or Checkout Manuals |
| -9 | Cargo Loading |
| -10 | Power Package Buildup Instructions |
| -11 | Auxiliary Power Package Buildup Instructions |
| -12 | Maintenance Materiel Management Manuals |
| -13 | Weapons Loading Manuals |
| -14 | Atomic Loading and In-Flight |
| -15 | Assembly, Test, and Storage Procedures |
| -16 | Atomic Loading and In-Flight (Reserved for Nuclear Weapons) |
| -17 | Storage of Aircraft |
| -18 | Maintenance of Airborne Equipment |
| -19 | Conversion Instructions |
| -20 | Standard Practices |
| -21 | Aircraft Inventory Record Master Guides |
| -22 | Reserved |
| -23 | Corrosion Control |
| -24 | Reserved |
| -25 thru 31 | Air Crew Weapon Delivery Manuals (Reserved for Nuclear Weapons) |
| -32 | In-Flight Maintenance Manuals |
| -33 | Non-Nuclear Munitions Loading |
| -33-1 | Non-Nuclear Munitions Loading - Tactical Missions |
| -33-2 | Non-Nuclear Munitions Loading - Strategic Missions |
| -33-3 | Non-Nuclear Munitions Loading - Defense Missions |
| -33-4 | Non-Nuclear Munitions Loading - Transport Missions |
| -34 | Non-Nuclear Munitions Delivery Manuals |
| -34-1 | Non-Nuclear Munitions Delivery - Tactical Missions |
| -34-2 | Non-Nuclear Munitions Delivery - Strategic Missions |
| -34-3 | Non-Nuclear Munitions Delivery - Defense Missions |
| -34-4 | Non-Nuclear Munitions Delivery - Transport Missions |
| -35 | Non-Munitions Accessories |
| -36 | Non-Destructive Inspection Manuals |
| -37 | Calibration and Measurement |
| -38 | Aircraft Structural Integrity Program |
| -39 | Aircraft Battle Damage Repair TOs |
| -43 | Aircraft Mission Maintenance Data |
| -44 | Combat Weapon Delivery System (Shall not include imbedded data) |
| -501 | and higher-Time Compliance TOs (TCTO) |
| -100 | General |
| -113 | Critical Alloys and Precious Metals |

4.2.3.2 Part two. In some instances some of the reserved numbers listed in part one above are followed by one or more alpha characters indicating a series of checklists, workcards, supplements, and other functions. Alpha characters authorized for use in Category 1 are listed as follows (also see Paragraph 4.4.1.2):

- CF - Acceptance or Functional Check Flight Procedures
- CL - Checklists
- FP - Film Packs

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- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards
- WS - Worksheets

4.2.4 Group Four. This group consists of either one or two parts that identify a supplemental manual, identify sections of a sectionalized TO or indicate the sequence number of specific TO data in a series of inspections, supplements, or functions.

4.2.4.1 Part one contains one or more numeric characters identifying a supplemental manual, indicating the sequence number of data in a series or identifying the section number of a sectionalized TO.

NOTE

When used immediately following the number "-6WC" in Category 1, the number "-101" designates Contingency (Quick Look) Workcards.

4.2.4.2 Part two may be used, as in Paragraph 4.2.3.2, to add one or more of the alpha characters indicating a series of checklists, workcards, supplements, and other functions.

4.2.5 Group Five. If TO numbers have been extended by sectionalizing or establishing supplemental numbers, the use of group five may be necessary to complete the TO number. Group five may consist of one to two parts (used in the same manner as described in Paragraph 4.2.4) and identifies a supplemental manual or sections of a sectionalized TO or indicates the sequence number of specific TO data in a series of inspections, supplements, or functions.

4.2.6 Group Six. In some instances sectionalizing Category 1 TOs will extend the number to require using group six to complete the TO number. Group six will consist of one part made up of one or more numeric characters. Group six identifies a supplemental manual; identifies sections of a sectionalized TO; or indicates the sequence number of specific TO data in a series of inspections, supplements or functions in the same manner described in Paragraph 4.2.4.1.

4.3 EXAMPLES OF NUMBERING PATTERNS.

The following are examples of common numbering patterns for Category 1 TOs (numbering patterns for Specification MIL-PRF-83495 maintenance manuals are described in Paragraph 4.4 and 4.5).

4.3.1 Example One. Flight manual:

| | |
|----------|------------------------------------|
| 1B-52D-1 | |
| 1 | Category 1 |
| B | Basic Mission Bomber |
| 52 | Aircraft Model Number |
| D | Aircraft Production Series |
| 1 | Number Reserved for Flight Manuals |

4.3.2 Example Two. IPB:

| | |
|--------------|----------------------------------|
| 1C-135(K)A-4 | |
| 1 | Category 1 |
| C | Basic Mission Cargo/Transport |
| 135 | Aircraft Model Number |
| (K) | Modified Aircraft Mission Tanker |
| A | Aircraft Production Series |
| 4 | Number Reserved for IPBs |

4.3.3 Example Three. Inspection workcard:

1C-131A-6WC-7
 1 Category 1
 C Basic Mission Cargo/Transport
 131 Aircraft Model Number
 A Aircraft Production Series
 6 Number Reserved for Inspection Requirements
 WC Indicates Workcard Media
 7 Sequence Number of the Workcard

4.3.4 Example Four. Volumized TO:

1C-130A-2-3
 1 Category 1
 C Basic Mission Cargo/Transport
 130 Aircraft Model Number
 A Aircraft Production Series
 2 Number Reserved for Maintenance Instructions
 3 Identifies a Section Covering Hydraulic Systems.

4.3.5 Example Five. Supplemental manual:

1F-5E-1-1
 1 Category 1
 F Basic Mission Fighter
 5 Aircraft Model Number
 E Aircraft Production Series
 1 Number Reserved for Flight Manuals
 1 Identifies the First Supplemental Manual

4.3.6 Example Six. Supplemental manual to a sectionalized maintenance instruction:

1F-4C-2-14-1
 1 Category 1
 F Basic Mission Fighter
 4 Aircraft Model Number
 C Aircraft Production Series
 2 Number Reserved for Maintenance Instructions
 14 Identifies a Section for Integrated Electronic Central Radar Altimeter, Radar Beacon System, Speech Security System, ILS/VOL System
 1 Identifies the First Supplemental Manual

4.3.7 Example Seven. Safety supplement to a volumized TO:

1B-52D-33-2-2SS-1
 1 Category 1
 B Basic Mission Bomber
 52 Aircraft Model Number
 D Aircraft Production Series
 33 Number Reserved for Non-Nuclear Munitions Loading Procedures
 2 Number Reserved for Strategic Missions

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| | |
|----|--|
| 2 | Identifies a Volume Covering External Stores Munitions |
| SS | Indicates a Safety Supplement |
| 1 | Sequence Number of the Safety Supplement |

4.4 MILITARY SPECIFICATION MIL-PRF-83495 MAINTENANCE MANUALS.

Organizational maintenance manuals that conform to Specification MIL-PRF-83495 use a special numbering pattern. TO numbers assigned for these manuals shall agree with the System/Subsystem/Sub-subsystem categories listed in MIL-STD-1808. Groups one, two and three of the TO number are formed in the same manner described in Paragraph 4.2. However, groups four, five, six and seven are formed in a different manner as described below.

4.4.1 Group Four. For MIL-PRF-83495 maintenance manuals, this group consists of two parts.

NOTE

MIL-PRF-83496 states the specifications for special numbering patterns. MIL-STD-1808 is the location of the listings and definitions of each of the special numbering System/Subsystem/Sub-subsystems.

4.4.1.1 Part one contains two numeric characters that identify the chapter number in MIL-STD-1808 and the equipment system or subject matter that the TO covers. Systems designators used in group four, part one are as follows:

GENERAL

| | |
|---------------|--|
| 00 | - Aircraft-General |
| 01 through 04 | - Unassigned |
| 05 | - Aircraft-General |
| 06 | - Dimensions and Areas |
| 07 | - Lifting, Jacking and Shoring |
| 08 | - Leveling and Weighing |
| 09 | - Towing and Taxiing |
| 10 | - Parking and Mooring |
| 11 | - Placards and Markings |
| 12 | - Servicing |
| 13 | - Time Limits, Inspections, and Maintenance Checks |
| 14 | - Corrosion |
| 15 | - Non-Destructive Inspection |
| 16 | - Siting Installation (Ground Equipment Only) |
| 17 | - Preparation for Use and Shipment |
| 18 | - Weapons Instrumentation |
| 19 | - Unassigned |

AIRFRAME SYSTEMS

| | |
|----|---|
| 20 | - Unassigned |
| 21 | - Temperature Control |
| 22 | - Auto Flight |
| 23 | - Communications |
| 24 | - Electrical Power |
| 25 | - Equipment/Furnishings |
| 26 | - Fire Protection |
| 27 | - Spoilers, Drag Devices, and Variable Aerodynamic Fairings |
| 28 | - Fuel |
| 29 | - Hydraulic Power |
| 30 | - Ice and Rain Protection |
| 31 | - Indicating/Recording Systems |
| 32 | - Landing Gear |
| 33 | - Lights |

- 34 - Navigation
- 35 - Oxygen
- 36 - Pneumatic
- 37 - Vacuum
- 38 - Water/Waste
- 39 - Electrical/Electronic Components and Multifunction Units
- 40 - Standard Practices: Integrated Avionics
- 41 - Water Ballast
- 42 - Integrated Avionics Architecture
- 43 - Communications: Staff
- 44 - In-Flight Refueling: Tanker
- 45 - Central Maintenance System (CMS)
- 46 - System Integration and Display
- 47 - Liquid/Gaseous Nitrogen
- 48 - Communications/Navigation/Identification (CNI)
- 49 - Airborne Auxiliary Power

STRUCTURE

- 50 - Unassigned
- 51 - Standard Practices: Structures
- 52 - Doors
- 53 - Fuselage
- 54 - Nacelles/Pylons
- 55 - Stabilizers
- 56 - Windows and Canopies
- 57 - Wings
- 58 - Unassigned
- 59 - Unassigned

PROPELLER/ROTOR

- 60 - Standard Practices: Propeller
- 61 - Propellers/Propulsors
- 62 - Rotors
- 63 - Rotor Drives
- 64 - Tail Rotor
- 65 - Tail Rotor Drives
- 66 - Folding Blades/Pylon
- 67 - Rotors Flight Controls
- 68 - Unassigned
- 69 - Unassigned

POWER PLANT

- 70 - Standard Practices: Engine
- 71 - Power Plant
- 72 - Engine
- 72(1) - Engine: Turbine/Turboprop
- 72(2) - Engine: Reciprocating
- 73 - Engine Fuel and Control
- 74 - Engine Ignition
- 75 - Engine Air
- 76 - Engine Controls
- 77 - Engine Indicating
- 78 - Engine Exhaust
- 79 - Engine Oil
- 80 - Engine Starting

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| | | |
|------------|---|-------------------------|
| 81 | - | Turbines |
| 82 | - | Water Injection |
| 83 | - | Accessory Gearboxes |
| 84 | - | Propulsion Augmentation |
| 85 | - | Reserved |
| 86 | - | Lift System |
| 87 thru 89 | - | Unassigned |

MILITARY SYSTEMS

| | | |
|----|---|--|
| 90 | - | Roll-On Roll-Off Specialized Mission Equipment |
| 91 | - | Charts/Diagrams |
| 92 | - | Electrical Power Multiplexing |
| 93 | - | Surveillance |
| 94 | - | Weapons |
| 95 | - | Crew Escape and Safety |
| 96 | - | Missiles, Drones and Telemetry |
| 97 | - | Image Recording |
| 98 | - | Meteorological and Atmospheric Research |
| 99 | - | Electronic Warfare |

4.4.1.2 Part two consists of two alpha characters that identify the function of maintenance manuals and are used in conjunction with the chapter numbers listed in MIL-STD-1808. The following is a list of authorized alpha designators to be used with these functions:

| | | |
|----|---|--------------------------|
| FI | - | Fault Isolation Manual |
| FR | - | Fault Reporting Manual |
| GE | - | General Equipment Manual |
| GS | - | General System Manual |
| JG | - | Job Guide Manual |
| SD | - | Schematic Diagram Manual |
| WD | - | Wiring Data Manual |

4.4.1.3 Other previously authorized alpha designators remaining in use on some current TOs include the following:

| | | |
|----|---|----------------------------|
| GA | - | General Aircraft Manual |
| MS | - | Maintenance Support Manual |
| TS | - | Troubleshooting Manual |

4.4.2 Group Five. This group has one part consisting of two numeric characters. The first digit denotes the subsystem, as defined under the appropriate system in MIL-STD-1808. The second digit is assigned by the manufacturer and denotes the sub-subsystem if further breakout is required for a complex subsystem. A zero in either, or both, positions indicates there is no equipment breakout at that level.

4.4.3 Group Six. This group has only one part, consisting of one or more numeric characters, that identify the TO series number of the subsystem indicated in group five.

4.4.4 Group Seven. In the rare instances when it is used, this group has one part and consists of one or more numeric characters identifying a volume of a volumized TO or identifying a supplemental manual (Paragraph 4.5.).

4.4.5 Illustrated Parts Breakdown. When maintenance manuals are written to conform to MIL-PRF-83495, the related IPB will be numbered to indicate the system involved. Groups one, two, and three of the TO number are formed in the same manner described in Paragraph 4.2. Groups four and five are described below.

4.4.5.1 GROUP FOUR. This group consists of one part, which is the chapter number from MIL-STD-1808, indicating the system for the equipment covered.

4.4.5.2 GROUP FIVE. This group consists of one part. One or more numeric characters identify the manual series number of the system indicated in group four.

4.5 EXAMPLES OF NUMBERING PATTERNS FOR MIL-PRF-83495 MANUALS.

4.5.1 Example One. Supplemental manual applicable to F16A aircraft:

1F-16A-2-93JG-00-1-
 1
 1 Category 1
 F Basic Mission Fighter
 16 Aircraft Production Model
 A Aircraft Production Series
 2 Number Reserved for Maintenance Instructions
 93 Surveillance System (MIL-STD-1808, Chapter 93)
 JG Job Guide Manual
 00 General (No Specific Subsystem Identified)
 1 First in a Series of Manuals
 1 Identifies the First Supplemental Manual

4.5.2 Example Two. General fault reporting manual for F16B aircraft:

1F-16B-2-00FR-00-1
 1 Category 1
 F Basic Mission Fighter
 16 Aircraft Production Model
 B Aircraft Production Series
 2 Number Reserved for Maintenance Instructions
 00 General (No Specific System Identified)
 FR Fault Reporting Manual
 00 General (No Subsystem Identified)
 1 First in a Series of Manuals

4.5.3 Example Three. Job guide manual for air-conditioning system applicable to F15A aircraft:

1F-15A-2-21JG-61-2
 1 Category 1
 F Basic Mission Fighter
 15 Aircraft Production Model
 A Aircraft Production Series
 2 Number Reserved for Maintenance Instructions
 21 Air-Conditioning (MIL-STD-1808, Chapter 21)
 JG Job Guide Manual
 61 6 Indicates Temperature Control Subsystem (MIL-M-83495);
 1 Indicates the First Subsystem Identified by the Manufacturer
 2 Second in Series of Manuals

4.5.4 Example Four. Job guide manual for landing gear system applicable to F16B aircraft:

1F-16B-2-32JG-30-3
 1 Category 1
 F Basic Mission Fighter
 16 Aircraft Production Model

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| | |
|----|--|
| B | Aircraft Production Series |
| 2 | Number Reserved for Maintenance Instructions |
| 32 | Landing Gear System (MIL-STD-1808, Chapter 32) |
| JG | Job Guide Manual |
| 30 | Extension and Retraction Subsystem |
| 3 | Third in a Series of Manuals |

4.5.5 Example Five. Illustrated parts breakdown for air-conditioning system of F16A aircraft:

| | |
|---------------|--|
| 1F-16A-4-21-1 | |
| 1 | Category 1 |
| F | Basic Mission Fighter |
| 16 | Aircraft Production Model |
| A | Aircraft Production Series |
| 4 | Number Reserved for IPBs |
| 21 | Air-Conditioning System (MIL-STD-1808, Chapter 21) |
| 1 | First in a Series of Manuals |

CHAPTER 5

CATEGORY 2 - AIRBORNE ENGINES AND ASSOCIATED EQUIPMENT

5.1 GENERAL.

5.1.1 Engine Category 2. Category 2 contains TOs pertaining to four basic types of airborne engines. Numbering patterns are established primarily to identify these engine types that are: auxiliary gas turbine engines, jet engines, rocket engines and reciprocating engines. TO numbers for airborne engine associated equipment use both three and four basic groups. Other TO numbers for airborne engines use only three basic groups.

5.1.2 Multiple Engines. TO data pertaining to more than one type of engine is numbered in the category general series.

5.1.3 Multiple Engine Models. Data pertaining to more than one engine model within an engine type is numbered in the engine type general series.

5.2 NUMBERING PATTERNS.

5.2.1 Group One. This group basically has three parts that identify the category, type of engine and any associated equipment identifiers.

5.2.1.1 Part one is always the numeric 2 identifying Category 2.

5.2.1.2 Part two is an alpha character that identifies one of four types of engines, i.e., G - auxiliary gas turbine engine; J - jet engine; K - booster and rocket engine; and R - reciprocating engine. When the TO number is for associated equipment, the alpha A is added immediately following the engine type designator, i.e., GA, JA, KA, and RA.

5.2.1.3 Part three contains one or more numeric characters that identify the associated equipment series. The associated equipment series numbers are outlined in Paragraph 5.4.

5.2.2 Group Two. In group two, each engine type is further defined according to the method of propulsion. Numbering patterns used with each method of propulsion are outlined in the following examples:

5.2.2.1 Jet Engines.

5.2.2.1.1 Part one consists of one or two alpha characters that identify the type of propulsion for jet engines as follows: J - turbojet, RJ - ramjet, T - turboshaft and turboprop; and for turbofan two designators have been used: TF and F. The TF designator was used for turbofan prior to November 1972 and F has been used since MIL-STD-879A was published on 14 November 1972.

5.2.2.1.2 The second part of group two has one or more numeric characters identifying the engine model number, i.e.:

| | |
|---------|---------------------|
| 2J-F100 | |
| 2 | Category 2 |
| J | Jet Engines |
| F | Turbofan Subtype |
| 100 | Engine Model Number |

5.2.2.2 Booster and Rocket Engines.

5.2.2.2.1 Part one of group two pertaining to this type engine identifies the fuel as either LR - liquid fuel or SR - solid fuel.

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5.2.2.2.2 The second part of group two identifies the rocket engine model number, i.e.:

| | |
|---------|--------------------------|
| 2K-SR97 | |
| 2 | Category 2 |
| K | Booster or Rocket Engine |
| SR | Solid Fuel Subtype |
| 97 | Engine Model Number |

5.2.2.3 Reciprocating Engines.

5.2.2.3.1 Part one of group two pertaining to this type engine identifies the engine sub-type as L - in line; O - opposed; and R - radial.

5.2.2.3.2 The second part of group two identifies the reciprocating engine model number, i.e.:

| | |
|----------|----------------------|
| 2R-R1830 | |
| 2 | Category 2 |
| R | Reciprocating Engine |
| R | Radial Subtype |
| 1830 | Engine Model Number |

5.2.2.4 Auxiliary Gas Turbine Engines. These engines are auxiliary types including gas turbine engines; gas turbine generators; gas turbine power units; etc. Group two is composed of alpha and numeric characters identifying the equipment model number, i.e.:

| | |
|------------|-------------------------------|
| 2G-GTCP165 | |
| 2 | Category 2 |
| G | Auxiliary Gas Turbine Engines |
| GTCP | Alpha Prefix for Model Number |
| 165 | Model Number |

5.2.2.5 Associated Equipment.

5.2.2.5.1 When the TO number has only three groups, group two contains one or more numeric characters representing the model, type, or PN assigned to specific equipment.

5.2.2.5.2 When the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two and the model, type or PN is identified in group three.

5.2.3 Group Three.

5.2.3.1 When a TO number has only three basic groups, the third group of the TO number identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 2:

- 01 List of Applicable Publications (LOAP)
- 1 Operating Instructions
- 2 Service or Maintenance Instructions
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 5 Overhaul Changes or Calibration and Measurement Summary
- 6 Field Maintenance
- 7 Installation Instructions and Installation Test Procedures

- 8 Test Procedures, Checkout Manuals or Programmed Tests
- 9 Non-Destructive Inspection Manuals

5.2.3.2 In some instances the reserved numbers in the third group are followed by an alpha character or characters indicating a series of checklists, workcards and supplements. The following alpha characters are authorized for use in Category 2:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

5.2.3.3 When the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

5.2.4 Group Four. When the TO number has four basic groups, the fourth group identifies specific types of TOs as described in Paragraph 5.2.3.1, above.

5.3 CATEGORY 2 NUMBERING PATTERNS.

5.3.1 Example One. Operation manual for a gas turbine generator, model GTG 331:

| | |
|-------------|--|
| 2G-GTG331-1 | |
| 2 | Category 2 |
| G | Gas Turbine Engines |
| GTG331 | Engine Model Number |
| 1 | Number Reserved for Operating Instructions |

5.3.2 Example Two. Maintenance workcard for J-75 turbo-jet engine:

| | |
|--------------|---------------------------------------|
| 2J-J75-6WC-1 | |
| 2 | Category 2 |
| J | Jet Engines |
| J | Turbojet |
| 75 | Engine Model Number |
| 6 | Number Reserved for Field Maintenance |
| WC | Identifies Workcards |
| 1 | First in a Series of Workcards |

5.3.3 Example Three. Overhaul instructions for liquid fuel rocket engine, model LR-89:

| | |
|-----------|---|
| 2K-LR89-3 | |
| 2 | Category 2 |
| K | Rocket Engines |
| LR | Liquid Fuel |
| 89 | Rocket Engine Model Number |
| 3 | Number Reserved for Overhaul Instructions |

5.3.4 Example Four. Overhaul instructions with illustrated parts breakdown for lube oil pump assembly, PN 7453 on C124 aircraft:

| | |
|------------|------------|
| 2JA6-2-2-3 | |
| 2 | Category 2 |

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| | |
|---|---|
| J | Jet Engines |
| A | Associated Equipment |
| 6 | Power Plant Equipment Series |
| 2 | Pump Equipment Subseries |
| 2 | Identifies PN 7453 |
| 3 | Number Reserved for Overhaul Instructions |

5.3.5 Example Five. Overhaul instructions with illustrated parts breakdown for push-pull assembly PN 12375, F106 aircraft:

| | |
|-----------|---|
| 2JA8-12-3 | |
| 2 | Category 2 |
| J | Jet Engines |
| A | Associated Equipment |
| 8 | Throttle Control Series |
| 12 | Identifies PN 12375 |
| 3 | Number Reserved for Overhaul Instructions |

5.4 CATEGORY 2 NUMBERING INDICATORS.

| | |
|---------|--|
| 2 | AIRBORNE ENGINES AND ASSOCIATED EQUIPMENT |
| 2G | AUXILIARY GAS TURBINE ENGINES |
| 2GA | ASSOCIATED EQUIPMENT |
| 2GA1 | CONTROL ASSEMBLIES |
| 2J | JET ENGINES |
| 2J-F | Turbofan |
| 2J-J | Turbojet |
| 2J-RJ | Ramjet |
| 2J-T | Turboprop |
| 2J-TF | Turbofan (Use 2J-F) |
| 2JA | ASSOCIATED EQUIPMENT |
| 2JA1 | AFTERBURNER CONTROL SYSTEMS |
| 2JA2 | AIR INLETS |
| 2JA3 | TURBINE STARTERS AND PROPULSION STARTING DEVICES |
| 2JA4 | JET ENGINE BRAKING DEVICES |
| 2JA5 | GAS TURBINE AUXILIARY POWER PLANTS |
| 2JA6 | POWER PLANT ASSOCIATED EQUIPMENT |
| 2JA6-2 | Pumps |
| 2JA6-3 | Control and Governor Assemblies |
| 2JA6-4 | Gas Turbine Compressors |
| 2JA6-5 | Generators |
| 2JA7 | CAP ASSEMBLIES |
| 2JA8 | THROTTLE CONTROLS |
| 2JA9 | GRIP ASSEMBLIES |
| 2JA10 | VALVES |
| 2JA10-2 | Control |
| 2JA11 | HARNESS ASSEMBLIES |
| 2JA12 | ENGINE CONTROLS |
| 2JA13 | CONTAINERS (use 35E20) |
| 2JA14 | ENGINE DRAIN SYSTEMS |
| 2JA15 | STARTER GENERATORS |

| | |
|---------|---------------------------------------|
| 2JA16 | GEARS |
| 2JA17 | Do not use |
| 2JA18 | POWER PACKAGE QEC |
| 2K | BOOSTER AND ROCKET ENGINES |
| 2K-LR | Liquid-Type Rocket Motors |
| 2K-SR | Solid-Type Rocket Motors |
| 2K-SRM | Solid-Type Propellant Missiles |
| 2KA | ASSOCIATED EQUIPMENT |
| 2KA1 | POWER PLANT ASSOCIATED EQUIPMENT |
| 2KA1-2 | Control and Governor Assemblies |
| 2KA1-3 | Propulsion Valves |
| 2KA1-4 | Vent Adapters (Propulsion) |
| 2KA1-5 | Ejectors (Propulsion) |
| 2KA1-6 | Turbine Pumps |
| 2KA1-7 | Pack Assemblies |
| 2KA1-8 | Consoles |
| 2KA1-9 | Panel Assemblies (Propulsion) |
| 2KA1-10 | Nozzles |
| 2R | RECIPROCATING ENGINES |
| 2R-L | In-Line |
| 2R-O | Opposed |
| 2R-R | Radial |
| 2RA | ASSOCIATED EQUIPMENT |
| 2RA1 | ENGINE CONTROL SYSTEMS |
| 2RA1-2 | Automatic |
| 2RA1-3 | Manual |
| 2RA2 | ENGINE COOLING EQUIPMENT |
| 2RA2-2 | Engine Cooling and Anti-Icing Fans |
| 2RA3 | ENGINE MOUNTING SYSTEMS |
| 2RA3-2 | Engine Mounts |
| 2RA3-3 | Vibration Isolators |
| 2RA4 | TURBO AND ENGINE DRIVEN SUPERCHARGERS |
| 2RA5 | SUPERCHARGER CONTROL SYSTEMS |
| 2RA5-2 | Control Systems |
| 2RA5-3 | Actuators |
| 2RA5-4 | Regulators |
| 2RA5-5 | Governors |
| 2RA5-6 | Junction Boxes |
| 2RA5-7 | Amplifiers |
| 2RA5-8 | Motors, Waste-Gate |
| 2RA5-9 | Pressuretrols |
| 2RA5-10 | Boost Selectors |
| 2RA5-11 | Control Valves |
| 2RA5-12 | Valves, Barometric Anti-Leak |
| 2RA5-13 | Adapter Units, Turbo-Regulators |
| 2RA5-14 | Switches, Air-Pressure |
| 2RA6 | SUPERCHARGER RELATED EQUIPMENT |
| 2RA6-2 | Intercoolers |
| 2RA6-3 | Motor Assemblies |
| 2RA6-4 | Solenoids |
| 2RA6-5 | Link Assemblies |
| 2RA7 | AUXILIARY POWER PLANTS |

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| | |
|-------|-----------------------------------|
| 2RA8 | ENGINE PREHEATERS (Airborne only) |
| 2RA9 | EXHAUST ASSEMBLIES |
| 2RA10 | STARTERS (Use 2JA3) |

CHAPTER 6

CATEGORY 3 - AIRCRAFT PROPELLERS AND ROTORS

6.1 GENERAL.

6.1.1 Aircraft Propellers and Rotors Category 3. Category 3 has four major divisions: one for each of the three types of propellers and one for rotor assemblies. TO numbers for propellers use three basic groups. TO numbers for propellers associated equipment use both three and four basic groups.

6.1.2 Multiple Propeller Assemblies. TO data pertaining to more than one type of propeller assembly control is numbered in the category general series.

6.1.3 Multiple Propeller Motivations. Information pertaining to more than one propeller assembly, within one type of propeller control motivation, is numbered in the propeller control general series.

6.2 NUMBERING PATTERNS.

6.2.1 Group One. This group has three parts identifying the category, type of propeller control and equipment series.

6.2.1.1 Part one is always the numeric 3 that identifies Category 3.

6.2.1.2 Part two identifies the type of aircraft propeller control by using alpha designators, i.e., E - electrical control; H - hydraulic control; and M - mechanical control. Rotor assemblies and equipment are designated by an R identifier in part two. Aircraft propeller associated equipment is identified by adding the alpha character A after the propeller control identifier, i.e., EA, HA, and MA. Rotor assemblies do not have associated equipment identified in the TO system.

6.2.1.3 Part three of this group identifies an equipment series representing further breakout of each type of propeller, its associated equipment and rotor assemblies. A listing of the series numbers is included in Paragraph 6.4.

6.2.2 Group Two. TO numbering patterns in Category 3 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering pattern for both groups:

6.2.2.1 If only three basic groups are used in the numbering pattern, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

6.2.2.2 If the TO number contains four basic groups, the equipment series has been further divided into equipment subseries. In this case the subseries is identified with one or more numeric characters in group two and the model, type or PN is identified in group three.

6.2.3 Group Three.

6.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 3:

- 1 Operating Instructions
- 2 Service or Maintenance Instructions
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements

6.2.3.2 In some instances the reserved numbers in the third group are followed by one or more alpha characters indicating a series of checklists, workcards, and supplements. The following alpha characters are authorized for use in Category 3:

CL - Checklists

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- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

6.2.3.3 If the TO number contains four basic groups, the third group will have one or more numeric characters representing the model, type, or PN assigned to specific equipment.

6.2.4 Title Group Four. In those cases where the TO number has four basic groups, the fourth group identifies specific types of TOs as described in Paragraph 6.2.3.1 above.

6.3 EXAMPLES OF CATEGORY 3 NUMBERING PATTERNS.

6.3.1 Example One. A general manual entitled List of Props and Governors for Service Aircraft:

3-1-1
3 Category 3
1 Identifies General Instructions
1 First In a Series of General Instructions

6.3.2 Example Two. Operating instructions for a turboprop, model A6441FN-606, for the VC-131 aircraft:

3E3-5-1
3 Category 3
E Electrically Controlled Prop
3 Turbo-Electric Series
5 Number Assigned to Model A6441FN-606
1 Number Reserved for Operating Instructions

6.3.3 Example Three. An overhaul instruction for a tail rotor blade, PN 212-010-750-11, for UH-1N helicopter:

3R1-3-6-3
3 Category 3
R Rotors
1 Rotor Assembly Group Series
3 Tail Blade Subseries
6 Number Assigned to PN 212-010-750-11
3 Number Reserved for Overhaul Instructions

6.4 CATEGORY 3 TECHNICAL ORDER NUMBERING SERIES.

3 AIRCRAFT PROPELLERS AND ROTORS
3E PROPELLERS, ELECTRICALLY-CONTROLLED
3E3 TURBO-ELECTRIC
3EA ASSOCIATED EQUIPMENT
3EA1 ALTERNATORS
3EA2 BLADES, CUFFS, PLASTIC FAIRINGS
3EA3 CONTROL SYSTEMS
3EA3-2 Electric Propellers
3EA3-3 Turbo-Electric Propellers
3EA4 DEICING SYSTEMS
3EA5 GOVERNORS
3EA6 HUBS, SPINNERS, POWER UNIT ASSEMBLIES

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| 3EA7 | PROPELLER ATTACHMENT ASSEMBLIES |
| 3EA8 | SPEED REDUCERS |
| 3EA9 | RELAYS |
| 3EA10 | SYNCHRONIZERS |
| 3EA11 | TIMERS |
| 3EA12 | SPEED SETTING ASSEMBLIES |
| 3EA13 | COORDINATORS |
| 3EA14 | PANEL ASSEMBLIES |
| 3EA15 | CHANNEL ASSEMBLIES |
| 3H | PROPELLERS, HYDRAULICALLY-CONTROLLED |
| 3H1 | HYDROMATIC |
| 3H3 | CONSTANT SPEED (Use 3H1) |
| 3HA | ASSOCIATED EQUIPMENT |
| 3HA1 | BLADES AND CUFFS |
| 3HA2 | CONTROLS |
| 3HA3 | DEICING ASSEMBLIES |
| 3HA3-2 | Drum |
| 3HA4 | GOVERNORS |
| 3HA4-2 | Counterweight Oil |
| 3HA4-3 | Hydromatic |
| 3HA4-4 | Electronic |
| 3HA4-5 | Manual |
| 3HA5 | PUMPS |
| 3HA5-2 | Anti-Icing |
| 3HA5-3 | Feathering |
| 3HA5-4 | Integral Oil Control |
| 3HA6 | SPINNERS |
| 3HA7 | SYNCHRONIZERS |
| 3HA8 | TIMERS |
| 3HA9 | SWITCH ASSEMBLIES |
| 3HA10 | FILTER BOX ASSEMBLIES |
| 3HA11 | ALTERNATORS |
| 3HA12 | PANEL ASSEMBLIES |
| 3M | PROPELLERS, MECHANICALLY-CONTROLLED |
| 3M1 | CONTROLLABLE PITCH |
| 3M2 | AUTOMATIC, VARIABLE-PITCH |
| 3M3 | FIXED PITCH |
| 3MA | ASSOCIATED EQUIPMENT |
| 3MA1 | CONTROL ASSEMBLIES |
| 3R | ROTOR ASSEMBLIES AND EQUIPMENT |
| 3R1 | ROTOR ASSEMBLY GROUP |
| 3R1-2 | Main Blade |
| 3R1-3 | Tail Blade |
| 3R1-4 | Rotor Head |
| 3R1-5 | Tail Rotor |
| 3R1-6 | Main Hub Rotor |
| 3R1-7 | Forward Hub Rotor |
| 3R1-8 | Aft (Tail) Hub Rotor |
| 3R2 | CONTROLS |
| 3R2-2 | Damper |
| 3R2-3 | Limiter |
| 3R2-4 | Power Plant |

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| 3R2-5 | Swashplate |
| 3R3 | SERVO ASSEMBLIES |
| 3R4 | GEAR BOX ASSEMBLIES |
| 3R4-2 | Main (Central) |
| 3R4-3 | Intermediate |
| 3R4-4 | Tail |
| 3R4-5 | Degreasers, Pumps |
| 3R4-6 | Nose Gear Box |
| 3R4-7 | Accessory Gear Box |
| 3R5 | AZIMUTH ASSEMBLIES |
| 3R6 | SLIP RING ASSEMBLIES |
| 3R7 | TRANSMISSIONS |
| 3R7-2 | Main Rotor |
| 3R7-3 | Forward Rotor |
| 3R7-4 | Aft Transmission |
| 3R8 | CLUTCH AND FAN ASSEMBLIES |
| 3R9 | GENERATORS AND DRIVE ASSEMBLIES |
| 3R10 | BRAKE AND DRUM ASSEMBLIES |
| 3R11 | STATOR ASSEMBLIES |
| 3R12 | SHAFT AND HOUSING ASSEMBLIES |
| 3R13 | CYLINDERS |
| 3R14 | STRUT ASSEMBLIES |
| 3R15 | FREEWHEEL UNITS |
| 3R16 | COUPLING ASSEMBLIES |
| 3R17 | BLOWERS AND DUCTS |
| 3R18 | RADIATORS |
| 3R19 | MAST ASSEMBLIES |
| 3R20 | SCISSORS |
| 3R21 | HANGARS |

CHAPTER 7

CATEGORY 4 - AIRCRAFT LANDING GEAR

7.1 GENERAL.

7.1.1 Aircraft Landing Gear Category 4. Category 4 has five primary landing gear systems. These systems are divided into equipment series and some of the systems are further divided into equipment subseries within each series. The TO numbering pattern for Category 4 uses three basic groups for data identification.

7.1.2 Multiple Systems. Technical data pertaining to more than one system is numbered in the category general series.

7.1.3 Multiple Series. Information relating to more than one equipment series within a system is numbered in the system general series.

7.2 NUMBERING PATTERNS.

7.2.1 Group One. This group has three parts identifying the category, system, and equipment series within the system.

7.2.1.1 Part one is always the numeric 4 identifying Category 4.

7.2.1.2 Part two is an alpha character identifying the landing gear system, i.e., A - landing gear; B - brakes; S - struts; T - tires and tubes; and W - wheels. Associated Equipment for these systems is identified by adding the alpha A immediately following the system identifier, i.e., AA, BA, and SA. Associated Equipment is not appropriate for tires, tubes and wheels systems.

7.2.1.3 Part three contains one or more numeric characters identifying an equipment series within the system. The TO numbering series is outlined in Paragraph 7.4.

7.2.2 Group Two. Although all TO numbers in Category 4 use three basic groups, the identifiers in group two are not constant. The two distinct numbering patterns in use are described below:

7.2.2.1 For certain systems one or more numeric characters in group two represent the model, type or PN assigned to specific components. Systems for which this pattern is used are:

| | |
|-----|-----------------------------------|
| 4A | Landing Gear |
| 4AA | Landing Gear Associated Equipment |
| 4BA | Brake System Associated Equipment |
| 4S | Struts, Shock-Absorbing |
| 4SA | Struts Associated Equipment |

7.2.2.2 For other systems, group two indicates the equipment series, identified in part three of group one, has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters, and the model, type or PN is identified in group three. Systems for which this pattern is used are:

| | |
|----|-------------------------------|
| 4B | Brake System |
| 4T | Tires and Tubes, Aircraft |
| 4W | Wheels, Aircraft-Landing-Gear |

7.2.3 Group Three.

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7.2.3.1 The third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 4:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions
- 8 Test procedures, Checkout Manuals, or Programmed Tests

7.2.3.2 In some instances the reserved numbers in the third basic group are followed by one or more alpha characters indicating a series of checklists, workcards, or supplements. The following alpha characters are authorized for use in Category 4:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

7.2.3.3 When group two identifies the equipment subseries, as described in Paragraph 7.2.2.2, group three will indicate the type of TO (reference Paragraph 7.2.3.1), and must also represent the model, type or PN assigned to specific components.

7.3 EXAMPLES OF CATEGORY 4 TECHNICAL ORDER NUMBERING PATTERNS.

7.3.1 Example One. Intermediate maintenance instructions for the nose landing gear shock strut assembly, PN 2006600, on the F-16:

S2-80-2
4 Aircraft Landing Gear
S Struts, Shock-Absorbing
2 Nose Landing Gear
80 Number Assigned To Nose Strut PN 2006600
2 Number Reserved For Intermediate Maintenance

7.3.2 Example Two. Depot overhaul instructions for the skid and locked wheel detector assembly, PN 40-143, on the B-52:

BA2-6-3
4 Aircraft Landing Gear
B Brake System
A Associated Equipment
2 Skid Detectors
6 Number Assigned to Skid And Wheel Detector Assembly, PN 40-143
3 Number Reserved For Depot Overhaul Instructions

7.3.3 Example Three. Illustrated parts breakdown for the anti-skid control valve assembly, PN 39-077, 39-113, and 39-171, on the F-4:

4BA4-86-4
4 Aircraft Landing Gear
B Brake Systems
A Associated Equipment
4 Valves, Hydraulic-Brake-Control

86 Number Assigned to Anti-Skid Control Valve Assembly, PN 39-077, 39-113, and 39-171
 44 Number Reserved for Illustrated Parts Breakdown

7.4 CATEGORY 4 TO NUMBERING SERIES.

| | |
|-------|--|
| 4 | AIRCRAFT LANDING GEAR |
| 4A | LANDING GEARS |
| 4A1 | FLOAT |
| 4A2 | SKI |
| 4A3 | TRACK |
| 4A4 | GUIDE WHEEL |
| 4A5 | FLOTATION |
| 4A6 | POSITIONER |
| 4AA | ASSOCIATED EQUIPMENT |
| 4AA1 | SKI |
| 4B | BRAKE SYSTEMS |
| 4B1 | BRAKES |
| 4B1-2 | Carbon |
| 4B1-3 | Steel |
| 4BA | ASSOCIATED EQUIPMENT |
| 4BA1 | CYLINDERS |
| 4BA2 | SKID DETECTORS |
| 4BA3 | RESERVOIRS, HYDRAULIC-BRAKE |
| 4BA4 | VALVES, HYDRAULIC-BRAKE-CONTROL |
| 4BA5 | VALVES, AIR-BRAKE |
| 4BA6 | VALVES, BRAKE-DEBOOST |
| 4BA7 | LINE ASSEMBLIES |
| 4BA8 | CONTROLS |
| 4BA9 | CONTROL SHIELDS |
| 4BA10 | EXPANSION CHAMBERS |
| 4BA11 | TRANSDUCER ASSEMBLIES |
| 4S | STRUTS, SHOCK-ABSORBING |
| 4S1 | MAIN LANDING GEAR |
| 4S2 | NOSE LANDING GEAR |
| 4S3 | TAIL LANDING GEAR |
| 4S4 | OUTRIGGER LANDING GEAR |
| 4S5 | TAIL SKID LANDING GEAR |
| 4S6 | TIP PROTECTION GEAR |
| 4SA | ASSOCIATED EQUIPMENT |
| 4SA1 | DAMPERS, SHIMMY |
| 4SA2 | STEERING UNITS AND STEERING DAMPERS |
| 4SA3 | VALVES, HYDRAULIC, NOSE-WHEEL-STEERING |
| 4SA4 | BRAKE LINE INSTALLATIONS |
| 4SA5 | CONDUIT INSTALLATIONS |
| 4SA6 | BRACE ASSEMBLIES |
| 4SA7 | VALVES, PNEUMATIC |
| 4SA8 | SPRINGS |
| 4SA9 | GENERATORS |
| 4SA10 | CARTRIDGES |
| 4T | TIRES AND TUBES, AIRCRAFT |
| 4T1 | TIRES |

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| | |
|-------|--------------------------------|
| 4T2 | TUBES |
| 4W | WHEELS |
| 4W1 | MAIN |
| 4W1-2 | Split (Tie Bolt) |
| 4W1-3 | Lock Ring |
| 4W2 | TAIL |
| 4W2-2 | Type I (Smooth Contour) |
| 4W2-3 | Type II (High Pressure) |
| 4W2-4 | Type III (Low Pressure) |
| 4W2-5 | Type IV (Low Pressure) |
| 4W2-6 | Type VI (Low Profile) |
| 4W2-7 | Type VII (Extra High Pressure) |
| 4W3 | NOSE |
| 4W3-2 | Split (Tie Bolt) |
| 4W3-3 | Lock Ring |
| 4W4 | OUTRIGGER |
| 4W4-2 | Split (Tie Bolt) |
| 4W4-3 | Lock Ring |
| 4W5 | HELICOPTER |

CHAPTER 8

CATEGORY 5 - AIRBORNE INSTRUMENTS

8.1 GENERAL.

Category 5 contains seven aircraft and missile instrument systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 5 use both three and four basic groups for data identification. Numbering patterns for both groups are identified in Paragraph 8.2.

8.1.1 Airborne Instruments Category 5. TO data pertaining to more than one system is numbered in the category general series.

8.1.2 Multiple Systems. Information pertaining to more than one series within a system is numbered in the system general series.

8.2 NUMBERING PATTERNS.

8.2.1 Group One. This group has three parts identifying the category, system, and equipment series within the system.

8.2.1.1 Part one is always the numeric 5 identifying Category 5.

8.2.1.2 Part two is an alpha character identifying the instrument system, i.e., A - automatic flight control; E - engine instruments; F - flight instruments; L - liquid measuring instruments; M - electric circuit instruments; N - navigation instruments; and P - position and pressure instruments. Flight instruments is the only system that has associated equipment; it is identified by the system identifier FA.

8.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series is outlined in Paragraph 8.4.

8.2.2 Group Two. TO numbering patterns in Category 5 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

8.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific equipment.

8.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case group two identifies the equipment subseries with one or more numeric characters and the model, type or PN identified in group three.

8.2.3 Group Three.

8.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 5.

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

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8.2.3.2 In some instances the reserved numbers in the third group are followed by one or more alpha characters indicating a series of checklists, workcards, or supplements. The following alpha characters are authorized for use in Category 5.

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

8.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PNs assigned to specific component assemblies.

8.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 8.2.3.1 above.

8.3 EXAMPLES OF CATEGORY 5 NUMBERING PATTERNS.

8.3.1 Example One. An overhaul manual for a flight computer, model 562A-5M for VC-137 aircraft:

5A7-3-34-3
5 Category 5
A Automatic Flight Control System
7 Computer Series
3 Flight Control Computer Subseries
34 Identifies Model 562A-5M
3 Number Reserved for Overhaul Instructions

8.3.2 Example Two. A maintenance manual, overhaul instructions and illustrated parts breakdown for an acceleration sensor assembly, type TR-272/ASW for F-15 aircraft:

5F25-4-2
5 Category 5
F Flight Instruments
25 Sensor Unit Series
4 Identifies Type TR-272/ASW
2 Number Reserved for Maintenance Instructions

8.3.3 Example Three. Overhaul manual with parts breakdown for a liquid quantity transmitter assembly, PN EA 772-GDB, for F-105 aircraft:

5L13-3-18-3
5 Category 5
L Liquid Measuring Instruments
13 Transmitters
3 Fuel Quantity Transmitter
18 Identifies PN EA 772-GDB
3 Number Reserved for Overhaul Instructions

8.4 CATEGORY 5 NUMBERING SERIES.

5 AIRBORNE INSTRUMENTS
5A AUTOMATIC FLIGHT CONTROL SYSTEMS
5A1 SYSTEM PUBLICATIONS
5A1-2 Autopilot

| | |
|--------|-----------------------|
| 5A1-3 | Remote Flight |
| 5A1-4 | Stabilization |
| 5A1-5 | Yaw Damper |
| 5A1-6 | Inlet Control |
| 5A1-7 | Pitch Control |
| 5A1-8 | All Weather Landing |
| 5A1-9 | Attitude Reference |
| 5A2 | ADAPTERS |
| 5A2-2 | Amplifier |
| 5A2-3 | Rate Gyroscope |
| 5A2-4 | Attitude Trim |
| 5A2-5 | Phase Adapter |
| 5A2-6 | Autopilot |
| 5A2-7 | Compass |
| 5A2-8 | Flight Director |
| 5A3 | AMPLIFIERS |
| 5A4 | BOXES |
| 5A4-2 | Relay |
| 5A4-3 | Junction |
| 5A4-4 | Control |
| 5A5 | CALIBRATORS |
| 5A6 | COMPENSATORS |
| 5A6-2 | Airspeed |
| 5A6-3 | Altitude |
| 5A6-4 | Air Data Scheduler |
| 5A6-5 | Mach Trim |
| 5A7 | COMPUTERS |
| 5A7-2 | Calibration |
| 5A7-3 | Flight Control |
| 5A7-4 | Amplifier |
| 5A7-5 | Flight Director |
| 5A7-6 | Angle |
| 5A7-7 | Mach |
| 5A8 | CONTROLS |
| 5A8-2 | Amplifier |
| 5A8-3 | Angular Path |
| 5A8-4 | Differential Pressure |
| 5A8-5 | Directional Gyroscope |
| 5A8-6 | Follow up |
| 5A8-7 | Formation Stick |
| 5A8-8 | Rate Gyroscope |
| 5A8-9 | Roll and Pitch |
| 5A8-10 | Servo |
| 5A8-11 | Three-Axis Gyroscope |
| 5A8-12 | Turbo (Remote Flight) |
| 5A8-13 | Vertical Gyroscope |
| 5A8-14 | Yaw Damper |
| 5A8-15 | Altitude |
| 5A8-16 | Computer |
| 5A8-17 | Mach Hold |
| 5A8-18 | Air Data |
| 5A8-19 | Signal |

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| 5A8-20 | Stability Augmenter |
| 5A8-21 | Adapter |
| 5A8-22 | Inlet Spike Positioner |
| 5A8-23 | Variable Inlet |
| 5A8-24 | Monitor |
| 5A8-25 | Attitude Reference |
| 5A9 | CONTROLLERS |
| 5A9-2 | Flight |
| 5A9-3 | Remote Pitch |
| 5A9-4 | Turn |
| 5A9-5 | Turn and Pitch |
| 5A9-6 | Altitude |
| 5A9-7 | Power |
| 5A9-8 | Selector |
| 5A9-9 | Engaging |
| 5A10 | FILTERS |
| 5A10-2 | Oil |
| 5A10-3 | Gyroscope |
| 5A11 | GYROSCOPES |
| 5A11-2 | Rate |
| 5A11-3 | Vertical |
| 5A11-4 | Directional |
| 5A11-5 | Attitude |
| 5A11-6 | Integrating |
| 5A11-7 | Displacement |
| 5A12 | INDICATORS |
| 5A12-2 | Direction |
| 5A12-3 | Trim |
| 5A12-4 | Attitude |
| 5A12-5 | Flight |
| 5A12-6 | Distance |
| 5A12-7 | Attitude (Use 5A12-4) |
| 5A13 | PANELS AND FRAMES |
| 5A13-2 | Directional |
| 5A13-3 | Function Selector |
| 5A13-4 | Servo Cutout Switch |
| 5A13-5 | Control |
| 5A13-6 | Relay |
| 5A13-7 | Adjustment |
| 5A13-8 | Damper |
| 5A13-9 | Engage |
| 5A14 | SERVOS |
| 5A14-2 | Electromechanical |
| 5A14-3 | Hydraulic |
| 5A14-4 | Transmitter |
| 5A14-5 | Central Gyroscope Reference System |
| 5A15 | SERVO MECHANISMS |
| 5A15-2 | Drum and Bracket Assembly |
| 5A15-3 | Motor and Drive Assembly |
| 5A15-4 | Disconnect Clutch Assembly |
| 5A15-5 | Throttle |
| 5A15-6 | Disconnect |

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| 5A15-7 | Friction Release Hub Assembly |
| 5A15-8 | Altitude |
| 5A15-9 | Flight Control |
| 5A15-10 | Course Repeater |
| 5A15-11 | Positioner |
| 5A16 | STABILIZERS |
| 5A16-2 | Directional |
| 5A17 | SWITCHES |
| 5A17-2 | Differential Pressure |
| 5A17-3 | Engaging (Automatic Approach) |
| 5A17-4 | Limit |
| 5A17-5 | Selector |
| 5A17-6 | Transfer |
| 5A17-7 | Clutch |
| 5A17-8 | Interrupter |
| 5A17-9 | Solenoid |
| 5A17-10 | Scheduling |
| 5A17-11 | Force |
| 5A18 | TRANSMITTERS |
| 5A19 | VIBRATORS |
| 5A20 | MOUNTS AND RACKS |
| 5A21 | POWER SUPPLIES |
| 5A22 | SENSORS |
| 5A22-2 | Vertical |
| 5A22-3 | Angle of Attack |
| 5A22-4 | Wing Sweep |
| 5A22-5 | Airspeed |
| 5A23 | TRANSDUCERS |
| 5A23-2 | Pressure |
| 5A23-3 | Altitude |
| 5A23-4 | Pitch |
| 5A24 | ACCELEROMETERS |
| 5A24-2 | Linear and Lateral |
| 5A24-3 | Limiting |
| 5A25 | CIRCUITROLS |
| 5A25-2 | Differential |
| 5A26 | VALVES |
| 5A26-2 | Shutoff |
| 5A26-3 | Purge |
| 5A26-4 | Transfer |
| 5A26-5 | Check |
| 5A26-6 | Control |
| 5A26-7 | Selector (Do not use) |
| 5A27 | DEMODULATORS AND MODULATORS |
| 5A28 | COUPLERS |
| 5A29 | COMPARATORS (See 5A3) |
| 5A30 | POTENTIOMETERS |
| 5A31 | STOP ASSEMBLIES |
| 5A32 | UNITS |
| 5A32-2 | Gyroscope and Accelerometer |
| 5A32-3 | Reference |
| 5A32-4 | Parameter |

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| 5A32-5 | Self-Test and Monitor |
| 5A32-6 | Interface |
| 5A33 | LINKAGE ASSEMBLIES |
| 5A33-2 | Power Control |
| 5A34 | DRIVE UNITS |
| 5A35 | GENERATORS (Use Category 8) |
| 5A36 | MEMORY ASSEMBLIES (Do not use) |
| 5A37 | RELAYS (Use 8R) |
| 5A38 | SYNCHRONIZERS |
| 5A39 | CYLINDERS |
| 5A40 | DETECTORS |
| 5A41 | CONVERTERS |
| 5A42 | PLATFORMS |
| 5A43 | CLUTCH PACKS |
| 5A44 | ACTUATORS |
| 5A45 | TRANSFORMERS |
| 5A46 | PROCESSORS |
| 5A46-2 | Signal Data |
| 5A46-3 | Air Data |
| 5A47 | DISTANCE MEASURING EQUIPMENT |
| 5A48 | DESENSITIZERS |
| 5E | ENGINE AND TEMPERATURE INSTRUMENTS |
| 5E1 | SYSTEMS PUBLICATIONS |
| 5E1-2 | Engine Analyzer |
| 5E2 | ADAPTERS |
| 5E3 | AMPLIFIERS |
| 5E4 | GAUGES |
| 5E5 | GENERATORS |
| 5E5-2 | Propeller Synchronizer |
| 5E5-3 | Tachometer |
| 5E6 | INDICATORS |
| 5E6-2 | Tachometer |
| 5E6-3 | Temperature |
| 5E6-4 | Pressure (See 5P3-4) |
| 5E6-5 | Thrust |
| 5E6-6 | Torque |
| 5E6-7 | Jet Nozzle |
| 5E6-8 | Discharge (Carbon Dioxide) |
| 5E6-9 | Gas Generator |
| 5E6-10 | Cruise Guide |
| 5E6-11 | Dual |
| 5E7 | SHAFTS |
| 5E8 | SYNCHROSCOPES |
| 5E9 | COUNTERS |
| 5E10 | THERMOCOUPLES |
| 5E11 | RECORDERS |
| 5E12 | TRANSMITTERS |
| 5E13 | THERMOSTATS |
| 5E14 | THROTTLES |
| 5E15 | REGULATORS |
| 5E15-2 | Pressure |
| 5E16 | POWER UNITS |

| | |
|--------|-------------------------------|
| 5E17 | CONVERTERS |
| 5E18 | PROCESSORS |
| 5E19 | DISPLAY UNITS |
| 5E19-2 | Umbilical |
| 5E19-3 | Multi-Integrated |
| 5F | FLIGHT INSTRUMENTS |
| 5F1 | SYSTEMS |
| 5F1-2 | Flight Computer |
| 5F1-3 | Gyroscope |
| 5F1-4 | Flight Control |
| 5F1-5 | Flight Directional |
| 5F1-6 | Navigation (Use 5N) |
| 5F1-7 | Data Recording |
| 5F2 | ACCELEROMETERS |
| 5F3 | ALTIMETERS |
| 5F3-2 | Density |
| 5F3-3 | Pressure |
| 5F3-4 | Sensitive |
| 5F4 | AMPLIFIERS |
| 5F5 | COMPUTERS |
| 5F5-2 | Angle of Attack |
| 5F5-3 | True Airspeed |
| 5F5-4 | Air Data |
| 5F5-5 | Steering |
| 5F5-6 | Gyroscope Rate |
| 5F5-7 | Quadratic Arc |
| 5F5-8 | Flight Director |
| 5F5-9 | Lift |
| 5F5-10 | Stall Prevention |
| 5F5-11 | Maximum Hover Weight |
| 5F5-12 | Landing Gear |
| 5F5-13 | Flight Control |
| 5F6 | CONTROLS |
| 5F6-2 | Flight Computer |
| 5F6-3 | Vertical Gyroscope |
| 5F6-4 | Rate Gyroscope |
| 5F6-5 | Stability |
| 5F6-6 | Box Assembly |
| 5F6-7 | Inertial Navigator |
| 5F6-8 | Position |
| 5F7 | FILTERS |
| 5F7-2 | Air |
| 5F8 | INDICATORS |
| 5F8-2 | Airspeed |
| 5F8-3 | Attitude Gyroscope |
| 5F8-4 | Bank and Turn (Turn and Slip) |
| 5F8-5 | Directional Gyroscope |
| 5F8-6 | Flight Computer |
| 5F8-7 | Gyroscope Horizon |
| 5F8-8 | Machmeter |
| 5F8-9 | Rate of Climb |
| 5F8-10 | Vertical Gyroscope |

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| 5F8-11 | Pilot Directional |
| 5F8-12 | Dive and Roll |
| 5F8-13 | Horizon Approach |
| 5F8-14 | Course |
| 5F8-15 | Ground Speed |
| 5F8-16 | Horizontal Situation |
| 5F8-17 | Position |
| 5F8-18 | Tachometer |
| 5F8-19 | Angle of Attack |
| 5F8-20 | Cabin Altitude |
| 5F8-21 | Warning |
| 5F8-22 | Vertical Situation |
| 5F9 | SWITCHES |
| 5F9-2 | Selector |
| 5F10 | TRANSMITTERS |
| 5F10-2 | True Airspeed |
| 5F10-3 | Altitude |
| 5F10-4 | Angle of Attack and Rate Gyroscope |
| 5F10-5 | Accelerometer |
| 5F10-6 | Synchronizer |
| 5F10-7 | Asymmetry |
| 5F10-8 | Position |
| 5F11 | TUBES |
| 5F11-2 | Pitot Static |
| 5F11-3 | Power Venturi |
| 5F12 | TRANSDUCERS |
| 5F12-2 | Wind Direction |
| 5F12-3 | Mach Number |
| 5F12-4 | Angle of Attack |
| 5F12-5 | Lift |
| 5F12-6 | Altitude |
| 5F12-7 | Augmentor |
| 5F12-8 | Flap Position |
| 5F13 | PROBES |
| 5F13-2 | Temperature |
| 5F13-3 | Local Mach |
| 5F14 | CONVERTERS |
| 5F14-2 | Air Data |
| 5F15 | SETS |
| 5F15-2 | Accessory |
| 5F16 | TRACK KEEPERS |
| 5F17 | INSTRUMENT GUIDANCE (Do not use) |
| 5F18 | COMPENSATORS |
| 5F18-2 | Central Air Data |
| 5F19 | SHAKER ASSEMBLIES |
| 5F20 | DETECTORS |
| 5F21 | MONITORS |
| 5F22 | UNITS AND ASSEMBLIES |
| 5F23 | RECORDERS AND TAPE UNITS |
| 5F23-2 | Tape Unit |
| 5F23-3 | Recorder |
| 5F24 | INDEXERS |

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| 5F25 | SENSORS |
| 5F26 | COUNTERS |
| 5F27 | MULTIPLEXERS |
| 5F28 | CONTROLLERS |
| 5F29 | MODULES |
| 5F30 | PRINTERS |
| 5F31 | DISPLAY UNITS |
| 5FA | ASSOCIATED EQUIPMENT |
| 5FA1 | COUPLERS |
| 5FA2 | CHASSIS ASSEMBLIES |
| 5FA3 | POWER SUPPLIES |
| 5FA4 | LOGIC CARDS |
| 5L | LIQUID-LEVEL, QUANTITY, AND FLOW MEASURING INSTRUMENTS |
| 5L1 | SYSTEMS |
| 5L1-2 | Fuel Level |
| 5L1-3 | Fuel Quantity |
| 5L2 | AMPLIFIERS |
| 5L2-2 | Fuel Flowmeter |
| 5L2-3 | Fuel Quantity |
| 5L3 | BOXES |
| 5L3-2 | Control |
| 5L3-3 | Fuel Quantity |
| 5L4 | CALIBRATORS |
| 5L4-2 | Bridge |
| 5L5 | COMPENSATORS |
| 5L5-2 | Voltage |
| 5L6 | INDICATORS |
| 5L6-2 | Fuel Flow |
| 5L6-3 | Fuel Quantity |
| 5L6-4 | Liquid Level |
| 5L7 | PANELS |
| 5L7-2 | Stroke Adjustment |
| 5L7-3 | Control |
| 5L8 | MOUNTS AND RACKS |
| 5L8-2 | Bridge Calibrator |
| 5L8-3 | Power Unit |
| 5L9 | RELAYS |
| 5L9-2 | Transfer Tank Unit |
| 5L10 | SIMULATORS |
| 5L11 | SUMMATORS |
| 5L12 | SWITCHES |
| 5L12-2 | Densitometer |
| 5L12-3 | Float Operated |
| 5L12-4 | Relay and Transfer |
| 5L12-5 | Potentiometer |
| 5L13 | TRANSMITTERS |
| 5L13-2 | Fuel Flow |
| 5L13-3 | Fuel Quantity |
| 5L13-4 | Liquid Level |
| 5L14 | UNITS |
| 5L14-2 | Power |
| 5L14-3 | Tank |

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| 5L14-4 | Totalizer Bridge |
| 5L14-5 | Totalizer Assembly |
| 5L14-6 | Control |
| 5L14-7 | Sensing |
| 5L14-8 | Ratio |
| 5L15 | NETWORKS |
| 5L15-2 | Time Delay |
| 5L16 | CONTROLS |
| 5L17 | GAUGES |
| 5L18 | COMPUTERS |
| 5L19 | REGULATORS |
| 5L20 | METERS |
| 5L21 | COUNTERS |
| 5L22 | DETECTORS |
| 5L23 | CONDENSORS (CAPACITORS) |
| 5M | ELECTRICAL CIRCUIT INSTRUMENTS |
| 5M1 | METERS |
| 5M1-2 | Ammeter |
| 5M1-3 | Frequency |
| 5M1-4 | Voltmeter |
| 5M1-5 | Wattmeter |
| 5M1-6 | Steering |
| 5M1-7 | Time |
| 5M1-8 | Multimeter |
| 5M1-9 | Arbitrary Scale |
| 5M1-10 | Audio Level |
| 5M1-11 | Antenna |
| 5M1-12 | Phase (Time) |
| 5M1-13 | Velocity |
| 5M1-14 | Factor |
| 5M1-15 | Fuel Pressure |
| 5M1-16 | Galvanometer |
| 5M2 | INDICATORS |
| 5M2-2 | Control Panel |
| 5M3 | GENERATORS |
| 5M3-2 | Impulse |
| 5N | NAVIGATION INSTRUMENTS |
| 5N1 | SYSTEMS |
| 5N1-2 | Compass |
| 5N1-3 | Computer |
| 5N1-4 | Navigator Unit |
| 5N1-5 | Display |
| 5N2 | AMPLIFIERS |
| 5N2-2 | Compass |
| 5N2-3 | Electronic Control |
| 5N2-4 | Power Supply |
| 5N2-5 | Navigational Computer |
| 5N3 | COMPASSES |
| 5N3-2 | Astro |
| 5N3-3 | Magnetic (Direct Reading) |
| 5N4 | COMPENSATORS |
| 5N4-2 | Quadrantal Error |

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|--------|----------------------------|
| 5N4-3 | Synchronizer |
| 5N4-4 | Magnetic |
| 5N4-5 | Thin |
| 5N4-6 | Detector |
| 5N5 | COMPUTERS |
| 5N5-2 | Altitude Correction |
| 5N5-3 | Course and Distance |
| 5N5-4 | Dead Reckoning |
| 5N5-5 | Time and Distance |
| 5N5-6 | True Airspeed |
| 5N5-7 | Programmer |
| 5N5-8 | Latitude and Longitude |
| 5N5-9 | Wind Drift |
| 5N5-10 | Radiation |
| 5N5-11 | Tracking |
| 5N5-12 | Meteorological |
| 5N5-13 | Navigation |
| 5N5-14 | Performance |
| 5N5-15 | Ballistic |
| 5N5-16 | Flare |
| 5N5-17 | Rotation |
| 5N5-18 | Position |
| 5N5-19 | Digital |
| 5N6 | CONTROLS |
| 5N6-2 | Directional Gyroscope |
| 5N6-3 | Slaving |
| 5N6-4 | Computer |
| 5N6-5 | Stability |
| 5N6-6 | Indicator |
| 5N6-7 | Alignment |
| 5N6-8 | Compass, Control Unit |
| 5N6-9 | Navigational |
| 5N6-10 | Designator |
| 5N7 | DRIFTMETERS |
| 5N7-2 | Gyroscope Stabilized |
| 5N7-3 | Nonstabilized |
| 5N8 | INDICATORS |
| 5N8-2 | Director |
| 5N8-3 | Compass (Master Direction) |
| 5N8-4 | Compass (Repeater) |
| 5N8-5 | Course (See 12R5) |
| 5N8-6 | Radio Converter (See 12R5) |
| 5N8-7 | Radio (See 12R5) |
| 5N8-8 | Latitude and Longitude |
| 5N8-9 | Wind Direction |
| 5N8-10 | Horizontal Display |
| 5N8-11 | Vertical, Velocity |
| 5N8-12 | Analog Display |
| 5N8-13 | Digital Data |
| 5N8-14 | Drift |
| 5N8-15 | Temperature |
| 5N8-16 | Navigation Control |

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|--------|-----------------------------------|
| 5N9 | ACCELEROMETERS |
| 5N10 | SEXTANTS AND MOUNTS |
| 5N10-2 | Hand Held |
| 5N10-3 | Periscopic |
| 5N10-4 | Horizon |
| 5N10-5 | Mount, Periscopic |
| 5N10-6 | Mount, Horizon |
| 5N10-7 | Celestial |
| 5N11 | TIME PIECES |
| 5N11-2 | Clock |
| 5N11-3 | Watch |
| 5N11-4 | Chronometer |
| 5N12 | TRANSMITTERS |
| 5N12-2 | Compass |
| 5N12-3 | Wind Direction |
| 5N12-4 | Temperature |
| 5N13 | STABILIZERS |
| 5N13-2 | Binocular |
| 5N14 | PANELS |
| 5N14-2 | Display |
| 5N14-3 | Control |
| 5N14-4 | Manual Set |
| 5N15 | TRACKERS |
| 5N15-2 | Astro |
| 5N16 | UNITS |
| 5N16-2 | Power Supply |
| 5N16-3 | Inertial Measuring |
| 5N16-4 | Distribution |
| 5N17 | BOXES |
| 5N17-2 | Junction |
| 5N17-3 | Distribution |
| 5N18 | GYROSCOPES |
| 5N19 | ADAPTERS |
| 5N20 | COUPLERS |
| 5N21 | ISOLATORS |
| 5N22 | COUNTERS |
| 5N23 | DETECTORS |
| 5N24 | PLATFORMS |
| 5N25 | SELECTORS |
| 5N26 | INVERTERS |
| 5N27 | ENCODERS |
| 5N28 | MODULES |
| 5N29 | DISPLAY SETS |
| 5N30 | CONVERTERS |
| 5N31 | PROCESSORS |
| 5N32 | SIGHTS |
| 5N33 | DEHYDRATORS |
| 5N34 | MONITORS |
| 5N35 | GIMBAL ASSEMBLIES |
| 5P | POSITION AND PRESSURE INSTRUMENTS |
| 5P1 | AMPLIFIERS |
| 5P1-2 | Audio |

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|--------|-------------------------------------|
| 5P1-3 | Servo |
| 5P1-4 | Engine |
| 5P1-5 | Computer |
| 5P2 | GAUGES |
| 5P2-2 | Pressure |
| 5P2-3 | Suction |
| 5P3 | INDICATORS |
| 5P3-2 | Air Flow, Cabin Pressure |
| 5P3-3 | Position |
| 5P3-4 | Pressure |
| 5P4 | TRANSDUCERS |
| 5P4-2 | Pressure |
| 5P5 | TRANSMITTERS |
| 5P5-2 | Position |
| 5P5-3 | Pressure |
| 5P6 | PRESSURE RATIO SYSTEMS |
| 5P7 | CONTROLS |
| 5P7-2 | Pressure |
| 5P7-3 | Position |
| 5P8 | COMPENSATORS |
| 5P8-2 | Static Pressure and Angle of Attack |
| 5P9 | SELECTORS |
| 5P9-2 | Pressure |
| 5P10 | SENSORS |
| 5P10-2 | Flow |
| 5P10-3 | Pressure |

CHAPTER 9

CATEGORY 6 - AIRCRAFT AND MISSILE FUEL SYSTEMS

9.1 GENERAL.

Category 6 has six primary aircraft and missile fuel systems. These systems are divided into equipment series and further divided into equipment subseries within each equipment series. TO numbers in Category 6 will use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 9.2.

9.1.1 Aircraft and Missile Fuel Systems Category 6. TO data pertaining to more than one system is numbered in the category general series.

9.1.2 Multiple Systems. Information relating to more than one equipment series within a system is numbered in the system general series.

9.2 NUMBERING PATTERNS.

9.2.1 Group One. This group has three parts identifying the category, system and equipment series within the system.

9.2.1.1 Part one is always the numeric 6 identifying Category 6.

9.2.1.2 Part two is an alpha character which identifies the fuel system, i.e., A - air refueling; J - aircraft and missile jet engine fuel systems; K - Depot Maintenance or Overhaul Instructions; P - purging system; R - reciprocating engine fuel systems; and S - offensive systems. There is no associated equipment identified in this category.

9.2.1.3 Part three contains one or more numeric characters that identify an equipment series within a system. The TO numbering series is outlined in Paragraph 9.4.

9.2.2 Group Two. TO numbering patterns in Category 6 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

9.2.2.1 If the TO number uses only three groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

9.2.2.2 If the TO number contains four groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

9.2.3 Group Three.

9.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 6:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

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9.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, or supplements. The following alpha characters are authorized for use in Category 6:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

9.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific component assemblies.

9.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 9.2.3.1 above.

9.3 EXAMPLES OF CATEGORY 6 NUMBERING PATTERNS.

9.3.1 Example One. Overhaul instructions with parts breakdown for a fuel filter assembly, PN 52-2145-002, for H-43B helicopter:

6R2-19-3
6 Category 6
R Reciprocating Engine Fuel System
2 Filter and Strainer Series
19 Identifies PN 52-2145-002
3 Number Reserved for Overhaul Instructions

9.3.2 Example Two. Overhaul instructions for a motor operated gate valve, PN AV16V1830D for KC-135A aircraft:

6A9-2-12-3
6 Category 6
A Air Refueling System
9 Valve Series
2 Control Valve Subseries
12 Identifies PN AV16V1830D
3 Number Reserved for Overhaul Instructions

9.3.3 Example Three. Section one of two sections of overhaul instructions for main fuel control, Bendix PN 440955, on F-100 engine:

6J3-4-97-3-1
6 Category 6
J Jet and Turbojet Engine and Aircraft
3 Fuel Control Series
4 Main Fuel Control Subseries
97 Identifies Bendix PN 440955
3 Number Reserved for Overhaul Instructions
1 Identifies Section One

9.4 CATEGORY 6 NUMBERING SERIES.

6 AIRCRAFT AND MISSILE FUEL SYSTEMS
6A AIR REFUELING SYSTEMS
6A1 ACTUATORS

| | |
|--------|---|
| 6A1-2 | Hydraulic |
| 6A2 | AMPLIFIERS (Use 8D or 8A) |
| 6A3 | BOOM ASSEMBLIES |
| 6A4 | INDICATORS |
| 6A5 | NOZZLE ASSEMBLIES |
| 6A6 | RECEPTACLE ASSEMBLIES |
| 6A7 | STATIC DISCONNECTOR ASSEMBLIES |
| 6A8 | HOSE REEL ASSEMBLIES |
| 6A9 | VALVES |
| 6A9-2 | Control |
| 6A9-3 | Relief |
| 6A9-4 | Float |
| 6A9-5 | Selector |
| 6A9-6 | Check |
| 6A9-7 | Regulator |
| 6A9-8 | Shutoff |
| 6A9-9 | Adapter |
| 6A9-10 | Response |
| 6A10 | PUMPS |
| 6A10-2 | Fuel Transfer |
| 6A11 | TRANSMITTERS |
| 6A12 | RECOIL ASSEMBLIES |
| 6A13 | DRIVE UNITS |
| 6A14 | SUPPRESSOR ASSEMBLIES |
| 6A15 | COUPLINGS |
| 6A16 | BUNGEE ASSEMBLIES |
| 6A17 | ADAPTERS |
| 6A18 | PROBES |
| 6A19 | SELECTORS |
| 6A20 | CYLINDERS |
| 6A21 | DROGUES |
| 6A22 | THERMISTORS |
| 6J | AIRCRAFT AND MISSILE ENGINE FUEL SYSTEMS - TURBOJET AND TURBOPROP |
| 6J1 | AMPLIFIERS |
| 6J1-2 | Main System |
| 6J1-3 | Afterburner System |
| 6J2 | BAROMETRIC ASSEMBLIES |
| 6J3 | FUEL CONTROLS |
| 6J3-2 | Afterburner |
| 6J3-3 | Emergency |
| 6J3-4 | Main |
| 6J3-5 | Starting |
| 6J3-6 | Speed Limiter |
| 6J3-7 | Valve |
| 6J3-8 | Nozzle and Actuator |
| 6J4 | QUICK DISCONNECT COUPLINGS |
| 6J5 | FILTERS AND STRAINERS |
| 6J6 | (Not Used) |
| 6J7 | GOVERNORS |
| 6J8 | NOZZLES |
| 6J9 | PRIMER AND IGNITER ASSEMBLIES |
| 6J10 | PUMPS, FUEL AND WATER |

6J10-2 Air Driven Turbine
6J10-3 Electric Motor Driven
6J10-4 Engine Driven
6J10-5 Hydraulic Motor Operated
6J11 REGULATORS, FUEL AND WATER
6J12 SERVICING UNITS AND ADAPTERS
6J13 SWITCHES (Do Not Use)
6J14 TANKS
6J14-2 Jettisonable Type
6J14-3 Pylon
6J14-4 Fixed
6J14-5 Auxiliary
6J14-6 Ethylene Oxide (Missile)
6J14-7 Internal
6J15 VALVES, FUEL AND WATER
6J15-2 Check (See 6R9-2 also)
6J15-3 Control (See 6R9-3 also)
6J15-4 Drain (See 6R9-4 also)
6J15-5 Float (See 6R9-5 also)
6J15-6 Metering
6J15-7 Pressure Regulator (See 6R9-7)
6J15-8 Relief and Vent (See 6R9-8 also)
6J15-9 Selector (See 6R9-9 also)
6J15-10 Shutoff (See 6R9-10 also)
6J15-11 Stopcock
6J15-12 Flow Divider
6J15-13 Fuel Flow Equalizer
6J15-14 Pressurizing
6J15-15 By-Pass
6J15-16 Breakaway
6J15-17 Slide
6J15-18 Fuel Flow Interconnect
6J15-19 Screen
6J15-20 Bleed
6J15-21 Transfer
6J16 TRANSMITTERS, FUEL AND WATER
6J16-2 Pressure
6J17 COOLERS
6J17-2 Glycol, Radiator, (See 7J1-17)
6J18 CAPS, FUEL AND WATER
6J18-2 Fuel Tank
6J19 EJECTORS
6J19-2 Gun
6J19-3 Fuel
6J20 FUEL CELLS
6J20-2 Internal
6J21 LIMITERS
6J21-2 Acceleration
6J22 COOLERS (Heat Exchangers)
6J23 MISSILE PLUMBING, FUEL
6J23-2 Restrictor
6J24 HEATERS

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| 6J25 | ACCUMULATORS |
| 6J26 | DETECTORS |
| 6J27 | CYLINDERS |
| 6J28 | MANIFOLDS |
| 6J29 | ACTUATOR ASSEMBLIES |
| 6K | ROCKET ENGINE FUEL SYSTEMS |
| 6K1 | VALVES |
| 6K1-2 | Control |
| 6K1-3 | Drain |
| 6K1-4 | Shutoff |
| 6K1-5 | Relief, Vent |
| 6K1-6 | Disconnect |
| 6K2 | GENERATOR ASSEMBLIES |
| 6K2-2 | Gas |
| 6K3 | GIMBAL AND MOUNT ASSEMBLIES |
| 6K3-2 | Thrust Chamber |
| 6K4 | SWIVEL ASSEMBLIES |
| 6K4-2 | Mechanical |
| 6K5 | THRUST CHAMBER ASSEMBLIES |
| 6K5-2 | Boost Rocket |
| 6K6 | REGULATORS |
| 6K6-2 | Pressure |
| 6K7 | COUPLINGS AND DISCONNECTS |
| 6K7-2 | Couplings |
| 6K8 | PUMP ASSEMBLIES |
| 6K8-2 | Turbo |
| 6K9 | INITIATORS |
| 6K10 | NOZZLE ASSEMBLIES |
| 6K11 | ADAPTERS |
| 6K12 | ACTUATOR ASSEMBLIES |
| 6K13 | PROBE ASSEMBLIES |
| 6P | PURGING SYSTEMS |
| 6P1 | NITROGEN VALVES |
| 6P1-2 | Check Nitrogen |
| 6P1-3 | Pressure Regulating |
| 6P1-4 | Relief Nitrogen |
| 6P1-5 | Control |
| 6P1-6 | Shutoff |
| 6P2 | GENERATOR PACKAGES |
| 6P2-2 | Purge Gas |
| 6P3 | CONTROLLERS |
| 6P3-2 | Fuel Air Ratio |
| 6P4 | PUMPS |
| 6R | AIRCRAFT RECIPROCATING ENGINE FUEL SYSTEMS |
| 6R1 | CARBURETORS |
| 6R1-2 | Float |
| 6R1-3 | Injection |
| 6R1-4 | Variable Venturi |
| 6R2 | FILTERS AND STRAINERS |
| 6R3 | INJECTION SYSTEMS |
| 6R4 | FUEL INJECTION |
| 6R5 | PUMPS, FUEL- AND WATER- |

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| 6R5-2 | Electric Motor Driven |
| 6R5-3 | Engine Driven |
| 6R5-4 | Injection |
| 6R5-5 | Hand Operated |
| 6R5-6 | Hydraulic Motor Operated |
| 6R6 | REGULATORS |
| 6R6-2 | Fuel |
| 6R6-3 | Water |
| 6R7 | SWITCHES (See Category 8) |
| 6R8 | TANKS |
| 6R8-2 | Jettisonable |
| 6R9 | VALVES |
| 6R9-2 | Check |
| 6R9-3 | Control |
| 6R9-4 | Drain |
| 6R9-5 | Float |
| 6R9-6 | Metering |
| 6R9-7 | Pressure Regulating |
| 6R9-8 | Vent, Relief |
| 6R9-9 | Selector |
| 6R9-10 | Shutoff |
| 6R9-11 | Coupling, Quick-Disconnect |
| 6R9-12 | Slide |
| 6R9-13 | Swivel |
| 6R9-14 | Dump |
| 6R9-15 | Flow Divider |
| 6R9-16 | Gate |
| 6R10 | PRIMER AND IGNITER ASSEMBLIES |
| 6R11 | AMPLIFIERS |
| 6S | OFFENSIVE SYSTEMS |
| 6S1 | SYSTEMS |
| 6S2 | VALVES |
| 6S3 | CYLINDERS |
| 6S4 | CHAMBERS |

CHAPTER 10

CATEGORY 7 - AIRBORNE ENGINE LUBRICATING SYSTEMS

10.1 GENERAL.

Category 7 has only two systems relating to airborne engine lubrication. These two systems are divided into equipment series and then further divided into equipment subseries within each equipment series. TO numbers in Category 7 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 10.2.

10.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

10.1.2 Multiple Series. Information involving more than one equipment series within a system is numbered in the system general series.

10.2 NUMBERING PATTERN.

10.2.1 Group One. This group has three parts identifying the category, system and equipment series within the system.

10.2.1.1 Part one is always the numeric 7 identifying Category 7.

10.2.1.2 Part two is an alpha character that identifies the lubrication system. These alpha characters are: J - jet engine lubricating systems, or R - reciprocating engine lubricating systems. There is no associated equipment identified in this category.

10.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series is outlined in Paragraph 10.4.

10.2.2 Group Two. TO numbering patterns in Category 7 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

10.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

10.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

10.2.3 Group Three.

10.2.3.1 If the TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 7.

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements

10.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, or supplements. The following alpha characters are authorized for use in Category 7:

- CL - Checklists
- S - Operational Supplements

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SS - Safety Supplements
WC - Workcards

10.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific component assemblies.

10.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 10.2.3.1, above.

10.3 EXAMPLES OF CATEGORY 7 NUMBERING PATTERNS.

10.3.1 Example One. Depot maintenance instructions with illustrated parts breakdown for a transmission fluid cooler, PN 215-55302-1 for A7D aircraft jet engine:

7J1-65-3
7 Category 7
J Jet Engine Lubrication System
1 Cooler Series
65 Identifies PN 215-55302-1
3 Number Reserved for Depot Maintenance Instructions

10.3.2 Example Two. Checkout and service instructions for a temperature control valve, PN 154605-1-1, for C-141 aircraft jet engine:

7J6-10-10-2
7 Category 7
J Jet Engine Lubrication Systems
6 Valve Series
10 Relief Valve Subseries
10 Identifies PN 154605-1-1
2 Number Reserved for Service Instructions

10.3.3 Example Three. Overhaul instructions with illustrated parts breakdown for oil separator assembly, PN 1545-4-E for C-121C aircraft reciprocating engine:

7R6-2-13
7 Category 7
R Reciprocating Engine Lubrication System
6 Separator Series
2 Identifies PN 1545-4-E
13 Number Reserved for Overhaul Instructions

10.4 CATEGORY 7 NUMBERING SERIES.

7 AIRBORNE ENGINE LUBRICATING SYSTEMS
7J JET ENGINE LUBRICATING SYSTEMS
7J1 COOLERS
7J2 FILTERS
7J3 HEATERS
7J4 PUMPS
7J4-2 Lube, Scavenge
7J4-3 Transfer

| | |
|--------|--|
| 7J4-4 | Lubricator |
| 7J5 | REGULATORS |
| 7J5-2 | Oil Temperature |
| 7J5-3 | Pressure |
| 7J6 | VALVES |
| 7J6-2 | Check (See 7J6-8) |
| 7J6-3 | Diverter |
| 7J6-4 | Flow Divider |
| 7J6-5 | Shutoff |
| 7J6-6 | Control |
| 7J6-7 | Pressurizing |
| 7J6-8 | Check |
| 7J6-9 | Drain |
| 7J6-10 | Relief |
| 7J6-11 | Selector |
| 7J7 | THERMOSTATS |
| 7J8 | SOCKET ASSEMBLIES |
| 7J9 | AMPLIFIERS |
| 7J10 | TANKS |
| 7J11 | INDICATORS |
| 7J12 | NIPPLE ASSEMBLIES |
| 7J12-2 | Oil |
| 7J13 | TRANSDUCERS |
| 7J14 | SENSORS |
| 7J15 | FAN ASSEMBLIES |
| 7R | RECIPROCATING ENGINE LUBRICATING SYSTEMS |
| 7R1 | COOLERS |
| 7R1-3 | Oil Coolers |
| 7R2 | FILTERS |
| 7R3 | HEATERS |
| 7R4 | PUMPS, RECIPROCATING-ENGINES |
| 7R4-2 | Hydraulic Gear |
| 7R4-3 | Transfer |
| 7R5 | REGULATORS |
| 7R6 | SEPARATORS |
| 7R7 | THERMOSTATS |
| 7R8 | VALVES |
| 7R8-3 | Control |
| 7R8-5 | Drain |
| 7R8-7 | Selector |
| 7R8-8 | Sequence |
| 7R8-9 | Shutoff |
| 7R6-10 | Diverter Segregator |
| 7R8-12 | By-Pass |
| 7R9 | SOCKET ASSEMBLIES |
| 7R10 | FANS |

CHAPTER 11

CATEGORY 8 - AIRBORNE ELECTRICAL SYSTEMS

11.1 GENERAL.

Category 8 contains six airborne electrical systems. These systems are divided into equipment subseries within each equipment series. Therefore TO numbers in Category 8 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 11.2.

11.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

11.1.2 Multiple Series. Information relating to more than one equipment series within a system is numbered in the system general series.

11.2 NUMBERING PATTERNS.

11.2.1 Group One. This group has three parts identifying the category, system and equipment series within a system.

11.2.1.1 Part one is always the numeric 8 identifying Category 8.

11.2.1.2 Part two is an alpha character identifying the electrical system, i.e., A - alternating current electrical equipment; C - combination of both alternating and direct current electrical equipment; D - direct current electrical equipment; E - ignition systems; R - relays; and S - switches.

11.2.1.3 Part three contains one or more numeric characters identifying an equipment series within the system. The TO numbering series is outlined in Paragraph 11.4.

11.2.2 Group Two. Since TO numbering patterns in Category 8 use both three and four basic groups, the identifiers in group two are not constant. The following explains the numbering patterns for both groups:

11.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

11.2.2.2 If the TO number contains four basic groups, the equipment series identified in group one, part three, has been divided into equipment subseries. In this case group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

11.2.3 Group Three. .

11.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 8:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

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11.2.3.2 In some instances, the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, or supplements. The following alpha characters are authorized for use in Category 8:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

11.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific equipment and the specific types of TOs are then identified in group four.

11.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 11.2.3.1.

11.3 EXAMPLES OF CATEGORY 8 NUMBERING PATTERNS.

11.3.1 Example One. Operating and maintenance instructions with illustrated parts breakdown for an alternating current electric motor, PN 6818-1, applicable to a pump installation on C-119 aircraft:

| | |
|-------------|--|
| 8A1-15-35-1 | |
| 8 | Category 8 |
| A | Alternating Current |
| 1 | Actuator and Motor Series |
| 15 | Pump Subseries |
| 35 | Identifies PN 6818-1 |
| 1 | Number Reserved for Operating Instructions |

11.3.2 Example Two. A field maintenance instruction for a combination alternating/direct current inverter, PN F15-2M, for H-19A helicopter:

| | |
|-----------|---------------------------------------|
| 8C7-2-5-2 | |
| 8 | Category 8 |
| C | Alternating/Direct Current |
| 7 | Motor Generator (Inverter) Series |
| 2 | 1-250 Volt Ampere Subseries |
| 5 | Identifies PN F15-2M |
| 2 | Number Reserved for Field Maintenance |

11.3.3 Examples Three. Overhaul instruction with parts breakdown for a fuel float switch assembly, PN F-7860 for a B-52 aircraft:

| | |
|------------|--------------------------------------|
| 8S1-2-24-3 | |
| 8 | Category 8 |
| S | Switches |
| 1 | Float Switch Series |
| 2 | Fuel Float Switch Subseries |
| 24 | Identifies PN F-7860 |
| 3 | Number Reserved for Overhaul Manuals |

11.4 CATEGORY 8 NUMBERING SERIES.

| | |
|----|-----------------------------|
| 8 | AIRBORNE ELECTRICAL SYSTEMS |
| 8A | ALTERNATING-CURRENT |

| | |
|--------|----------------------------|
| 8A1 | ACTUATORS AND MOTORS |
| 8A1-2 | Bomb Bay Door |
| 8A1-3 | Camera Door |
| 8A1-4 | Magnetron |
| 8A1-5 | Cowl Flap and Air Plug |
| 8A1-6 | Tachometer (See 8A1-28) |
| 8A1-7 | Wing Flap, Dive Flap |
| 8A1-8 | Trim Tab, Boost |
| 8A1-9 | Oil Cooler, Inter-Cooler |
| 8A1-10 | Carburetor Air |
| 8A1-11 | Cockpit Heat and Vent |
| 8A1-12 | Anti-Ice, De-Ice |
| 8A1-13 | Engine, Prop Control |
| 8A1-14 | Valve |
| 8A1-15 | Pump |
| 8A1-16 | Radome Retract |
| 8A1-17 | Fan, Blower |
| 8A1-18 | Windshield Wiper |
| 8A1-19 | Compressor |
| 8A1-20 | Tip Tank, Jato Release |
| 8A1-21 | Fractional Horsepower |
| 8A1-22 | Integral Horsepower |
| 8A1-23 | Air Inlet Door, Screen |
| 8A1-24 | Nose Turret Empty Disposal |
| 8A1-25 | Regulating |
| 8A1-26 | Seat Control |
| 8A1-27 | Navigational |
| 8A1-28 | Generator, Tachometer |
| 8A1-29 | Heater |
| 8A1-30 | Hoist |
| 8A1-31 | Selector Door |
| 8A1-32 | Transmitter |
| 8A1-33 | Radar |
| 8A1-34 | Throttle |
| 8A1-35 | Antenna |
| 8A1-36 | Ram Air |
| 8A1-37 | Wingfold |
| 8A1-38 | Photographic Equipment |
| 8A1-39 | Switch |
| 8A1-40 | Autopilot |
| 8A1-41 | Spike Positioning |
| 8A1-42 | Pitot Tube |
| 8A1-43 | Turret Drive |
| 8A1-44 | Potentiometer |
| 8A1-45 | Training Equipment |
| 8A1-46 | Radio |
| 8A1-47 | Computer |
| 8A1-48 | Gearhead |
| 8A1-49 | Inflight Printer, Control |
| 8A1-50 | Test Set |
| 8A1-51 | Rudder |
| 8A1-52 | Transmission |

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| | |
|--------|------------------------------------|
| 8A1-53 | Stabilizer |
| 8A1-54 | Launch Gear |
| 8A1-55 | Guidance |
| 8A1-56 | Lights |
| 8A1-57 | Ammunition Booster, Gunnery |
| 8A1-58 | Cryptographic Equipment |
| 8A1-59 | TV Viewfinder |
| 8A1-60 | Launcher, Guided-Missile (See 35M) |
| 8A1-61 | Engine Temperature Control |
| 8A1-62 | Driftmeter Fairing |
| 8A1-63 | Pressurization Unit |
| 8A1-64 | Indicator |
| 8A1-65 | Amplifier |
| 8A1-66 | Fire Control |
| 8A1-67 | Controlled Line Platform |
| 8A1-68 | Escape Capsule |
| 8A1-69 | Electronic Countermeasure |
| 8A1-70 | Lights (See 8A1-56) |
| 8A1-71 | Flare Ejection |
| 8A1-72 | Servo |
| 8A1-73 | Control |
| 8A1-74 | Timer |
| 8A1-75 | Recorder |
| 8A1-76 | Ramp |
| 8A1-77 | Plumbing |
| 8A1-78 | Drive (See 8A1-43) |
| 8A1-79 | Static Line Cable |
| 8A1-80 | Air Exit Door |
| 8A1-81 | Landing Gear |
| 8A1-82 | Shaker Assembly |
| 8A1-83 | Filter |
| 8A1-84 | Linear |
| 8A2 | POWER SUPPLIES |
| 8A3 | CONTROLLERS |
| 8A3-2 | Trim Tab |
| 8A3-3 | Afterburner |
| 8A3-4 | Starter |
| 8A3-5 | Generator |
| 8A3-6 | Wing Flap |
| 8A3-7 | Flasher |
| 8A3-8 | Timer |
| 8A3-9 | Temperature |
| 8A3-10 | Oil Cooler |
| 8A3-11 | Calibration |
| 8A3-12 | Rudder |
| 8A3-13 | Frequency and Load |
| 8A3-14 | Steering |
| 8A3-15 | Air Inlet |
| 8A3-16 | Paralleling |
| 8A3-17 | Warning Device |
| 8A3-18 | Panel |
| 8A3-19 | Winch and Hoist |

| | |
|---------|---------------------------------------|
| 8A4 | CONNECTORS, PLUGS, ETC. |
| 8A4-2 | Mounting Rack and Tray |
| 8A4-3 | Contactors |
| 8A5 | DYNAMOTORS |
| 8A5-2 | 0-100 MA |
| 8A5-3 | 101-200 MA |
| 8A5-4 | 201-300 MA |
| 8A5-5 | 301-400 MA |
| 8A6 | GENERATORS (ENGINE DRIVEN) |
| 8A6-2 | 0-1 KVA |
| 8A6-3 | 2-7 KVA |
| 8A6-4 | 8-9 KVA |
| 8A6-5 | 10-15 KVA |
| 8A6-6 | 16-20 KVA |
| 8A6-7 | 21-30 KVA |
| 8A6-8 | 31-40 KVA |
| 8A6-9 | 41-60 KVA |
| 8A6-10 | 61-120 KVA |
| 8A7 | MOTOR GENERATORS (ROTARY INVERTER) |
| 8A7-2 | 0-1 AMP |
| 8A7-3 | 1-250 VA |
| 8A7-4 | 251-500 VA |
| 8A7-5 | 501-1000 VA |
| 8A7-6 | 1001-3000 VA |
| 8A8 | HEATERS AND DEFROSTERS |
| 8A8-2 | 0-500 Watts |
| 8A8-3 | 501-1000 Watts |
| 8A8-4 | 1001-2000 Watts |
| 8A9 | VIBRATORS |
| 8A9-2 | Instrument Panel |
| 8A10 | LIGHTING EQUIPMENT |
| 8A10-2 | Landing |
| 8A10-3 | Taxi |
| 8A10-4 | Inter-Aircraft |
| 8A10-5 | Fluorescent Lights, Related Equipment |
| 8A10-6 | Flasher |
| 8A10-7 | Vibrator Pack |
| 8A10-8 | Anti-Collision |
| 8A10-9 | Display |
| 8A10-10 | Warning, Dimming Control |
| 8A11 | POWER SUPPLIES (See 8A2) |
| 8A12 | STARTERS |
| 8A12-2 | Combination Inertia - Direct Crank |
| 8A12-3 | Direct Crank |
| 8A13 | STARTER GENERATORS |
| 8A13-2 | 1-100 amps |
| 8A13-3 | 101-200 amps |
| 8A13-4 | 201-300 amps |
| 8A13-5 | 301-400 amps |
| 8A14 | TRANSFORMER RECTIFIERS |
| 8A15 | WARNING DEVICES |
| 8A15-2 | Audible Signal |

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| | |
|--------|--|
| 8A15-3 | (Do not use) |
| 8A15-4 | Fuel, Water Pressure |
| 8A15-5 | Stall Warning |
| 8A16 | VOLTAGE REGULATORS |
| 8A17 | SUPPRESSOR ASSEMBLIES |
| 8A18 | EJECTORS |
| 8A19 | TRANSFORMERS |
| 8A20 | AMPLIFIERS |
| 8A21 | FANS AND BLOWERS |
| 8A22 | TRANSMITTERS |
| 8A23 | CABLES |
| 8A24 | BOXES |
| 8A24-2 | Distribution |
| 8A24-3 | Junction |
| 8A24-4 | Control |
| 8A25 | PANELS - POWER DISTRIBUTION |
| 8A26 | INDICATORS |
| 8A27 | POWER MONITORS |
| 8A28 | ELECTROMAGNETIC UNITS |
| 8C | COMBINATION ALTERNATING-AND DIRECT-CURRENT |
| 8C1 | ACTUATORS AND MOTORS |
| 8C1-2 | Bomb Door |
| 8C1-3 | Camera Door |
| 8C1-4 | Cockpit Canopy |
| 8C1-5 | Cowl Flap |
| 8C1-6 | Landing Gear |
| 8C1-7 | Wing Flap, Dive Flap |
| 8C1-8 | Trim Tab, Boost |
| 8C1-9 | Radio Set |
| 8C1-10 | Carburetor Air |
| 8C1-11 | Cockpit Heating and Ventilating |
| 8C1-12 | Anti-Ice and De-Ice |
| 8C1-13 | Engine Control |
| 8C1-14 | Valve |
| 8C1-15 | Pump |
| 8C1-16 | Radome Retract |
| 8C1-17 | Fan, Blower |
| 8C1-18 | Windshield Wiper |
| 8C1-19 | Compressor |
| 8C1-20 | Tip Tank, Jato Release |
| 8C1-21 | Fractional Horsepower Motor |
| 8C1-22 | Integral Horsepower Motor |
| 8C1-23 | Propeller Pitch and Mixture |
| 8C1-24 | Fire Detection |
| 8C1-25 | Positioning Control System |
| 8C1-26 | Temperature Control |
| 8C1-27 | Ground Cooling Door |
| 8C1-28 | Tachometer |
| 8C1-29 | Re-Entry Decoy |
| 8C1-30 | Cabin Pressure |
| 8C1-31 | Thrust Recovery |
| 8C1-32 | Winch |

| | |
|--------|------------------------------|
| 8C2 | DO NOT NUMBER IN THIS SERIES |
| 8C3 | CONTROLLERS |
| 8C3-2 | Trim Tab |
| 8C3-3 | Afterburner Control |
| 8C3-4 | Starter |
| 8C3-5 | Generator |
| 8C3-6 | Wing Flap |
| 8C3-7 | Flasher |
| 8C3-8 | Timers |
| 8C3-9 | Temperature |
| 8C3-10 | Air Inlet |
| 8C3-11 | Inverter |
| 8C3-12 | Pylon |
| 8C3-13 | Voltage |
| 8C3-14 | Panel |
| 8C3-15 | Warning Device |
| 8C3-16 | Electrical |
| 8C3-17 | Landing Gear |
| 8C3-18 | Electronic |
| 8C3-19 | Digital Electronic |
| 8C4 | CONNECTORS, PLUGS, TERMINALS |
| 8C5 | DYNAMOTORS |
| 8C5-2 | 0-100 MA |
| 8C5-3 | 101-200 MA |
| 8C5-4 | 201-300 MA |
| 8C5-5 | 301-400 MA |
| 8C5-6 | 401-1000 MA |
| 8C5-7 | 1001-2000 MA |
| 8C5-8 | 2001-3000 MA |
| 8C5-9 | 3001-4000 MA |
| 8C6 | GENERATORS |
| 8C6-2 | 200 amp DC - 1200 VA AC |
| 8C6-3 | 60 amp - 28 VA DC |
| 8C7 | MOTOR GENERATORS |
| 8C7-2 | 1-250 VA |
| 8C7-3 | 251-500 VA |
| 8C7-4 | 501-750 VA |
| 8C7-5 | 751-1000 VA |
| 8C7-6 | 1001-1500 VA |
| 8C7-7 | 1501-2500 VA |
| 8C7-8 | 2501-5000 VA |
| 8C8 | BOX ASSEMBLIES |
| 8C9 | INSTRUMENT PANEL VIBRATORS |
| 8C9-2 | 0-5 lbs |
| 8C9-3 | 6-10 lbs |
| 8C9-4 | 11-15 lbs |
| 8C9-5 | 16-20 lbs |
| 8C9-6 | 21-25 lbs |
| 8C10 | LIGHTING EQUIPMENT |
| 8C10-2 | Landing |
| 8C10-3 | Cockpit |
| 8C10-4 | Inter-Aircraft |

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| | |
|---------|--|
| 8C10-5 | Fluorescent |
| 8C10-6 | Flasher |
| 8C10-7 | Flood |
| 8C10-8 | Panels |
| 8C11 | POWER SUPPLIES |
| 8C11-2 | 110V AC Input - 300V DC Output |
| 8C11-3 | 28V DC Input - 28V AC Output |
| 8C11-4 | 115V AC Input - 275V DC Output |
| 8C11-5 | 195/210V AC Input - 24/31V DC Output |
| 8C11-6 | 28V DC Input - 115V AC Output |
| 8C11-7 | 195/210V AC Input - 28V DC 100 Amps Output |
| 8C11-8 | Converter |
| 8C12 | STARTERS |
| 8C12-2 | Inertia and Direct Crank |
| 8C12-3 | Direct Crank |
| 8C12-4 | Energizer |
| 8C13 | STARTER GENERATORS |
| 8C13-2 | 1-100 amps |
| 8C13-3 | 101-200 amps |
| 8C13-4 | 201-300 amps |
| 8C13-5 | 301-400 amps |
| 8C13-6 | Direct Current |
| 8C14 | TRANSFORMER RECTIFIERS |
| 8C14-2 | 0-25 amps |
| 8C14-3 | 26-50 amps |
| 8C14-4 | 51-100 amps |
| 8C14-5 | 0-120 amps |
| 8C14-6 | 101-200 amps |
| 8C15 | WARNING DEVICES |
| 8C15-2 | Horn |
| 8C15-3 | Bell |
| 8C15-4 | Lamp |
| 8C15-5 | Warning Unit, Vacuum |
| 8C15-6 | Fuel Pressure |
| 8C15-7 | Oil Pressure |
| 8C15-8 | Warning, Caution Panel |
| 8C15-9 | Fire Detector |
| 8C15-10 | Stall Warning |
| 8C15-11 | Audible Signal |
| 8C16 | RESISTORS |
| 8C16-2 | Powerstats, Autotransformers |
| 8C17 | AMPLIFIERS |
| 8C17-2 | Autopilot |
| 8C18 | VOLTAGE REGULATORS |
| 8C19 | BOXES |
| 8C19-2 | Distribution |
| 8C19-3 | Junction |
| 8C20 | HEATING SYSTEM |
| 8C20-2 | Electrical |
| 8C21 | PANELS |
| 8C22 | FILTER ASSEMBLIES |
| 8D | DIRECT CURRENT |

| | |
|--------|-------------------------------|
| 8D1 | ACTUATORS AND MOTORS |
| 8D1-2 | Cargo, Ramp Door |
| 8D1-3 | Camera Door |
| 8D1-4 | Cockpit Canopy |
| 8D1-5 | Cowl Flap, Air Plug |
| 8D1-6 | Landing Gear |
| 8D1-7 | Wing Flap, Dive Flap |
| 8D1-8 | Trim Tab, Boost |
| 8D1-9 | Oil Cooler, Intercooler |
| 8D1-10 | Carburetor Air |
| 8D1-11 | Cockpit Heat, Vent |
| 8D1-12 | Anti-Ice and De-Ice |
| 8D1-13 | Engine Control |
| 8D1-14 | Valve |
| 8D1-15 | Pump |
| 8D1-16 | Radome Retract |
| 8D1-17 | Fan, Blower |
| 8D1-18 | Windshield Wiper |
| 8D1-19 | Compressor |
| 8D1-20 | Tip Tank, Jato Release |
| 8D1-21 | Fractional Horsepower |
| 8D1-22 | Integral Horsepower |
| 8D1-23 | Propeller Pitch and Mixture |
| 8D1-24 | Hose Reel |
| 8D1-25 | Air Inlet Door, Scoop, Screen |
| 8D1-26 | Seat Control |
| 8D1-27 | Paratrooper, Spoiler Door |
| 8D1-28 | Rescue Door |
| 8D1-29 | Launcher Reel |
| 8D1-30 | Landing Light |
| 8D1-31 | Cargo Hook Unlatch |
| 8D1-32 | Bleed Air Supply System |
| 8D1-33 | Purge Gas Control |
| 8D1-34 | Approach Chute Door |
| 8D1-35 | Flight Refueling System |
| 8D1-36 | Hoist, Winch |
| 8D1-37 | Rescue Hatch |
| 8D1-38 | Nacelle Vent |
| 8D1-39 | Selector Door |
| 8D1-40 | Oil Cooler Door |
| 8D1-41 | Camera Hoist |
| 8D1-42 | Clutch |
| 8D1-43 | Wrench |
| 8D1-44 | Wing Heating, Venting |
| 8D1-45 | Guidance System |
| 8D1-46 | Step |
| 8D1-47 | Pitch Control |
| 8D1-48 | Hose Reel Door |
| 8D1-49 | Wing Tip Door |
| 8D1-50 | Ejection Door |
| 8D1-51 | Gun Post Door |
| 8D1-52 | Flight Refueling Pod Door |

| | |
|---------|-----------------------------------|
| 8D1-53 | Locks (See 8D1-92) |
| 8D1-54 | Tail Skid |
| 8D1-55 | Alternator Cooling Door |
| 8D1-56 | Landing Gear Door |
| 8D1-57 | Bomb Sight |
| 8D1-58 | Amplifier |
| 8D1-59 | Power Unit |
| 8D1-60 | Beacon, Anti-Collision |
| 8D1-61 | Fuel Control |
| 8D1-62 | Switch |
| 8D1-63 | Transmission |
| 8D1-64 | Flight Control |
| 8D1-65 | Intervalometer |
| 8D1-66 | Rudder Control |
| 8D1-67 | Arming System |
| 8D1-68 | Trajectory Control |
| 8D1-69 | Fire Control |
| 8D1-70 | Paratainer Door |
| 8D1-71 | Missile Surface Control |
| 8D1-72 | Antenna |
| 8D1-73 | Turret Drive |
| 8D1-74 | Governor |
| 8D1-75 | Static Line Retriever |
| 8D1-76 | Gear Case |
| 8D1-77 | Calibrator |
| 8D1-78 | Particle Sampler |
| 8D1-79 | Training Equipment |
| 8D1-80 | Trailer |
| 8D1-81 | Camera |
| 8D1-82 | Radio, Radar Equipment |
| 8D1-83 | Transducer |
| 8D1-84 | Heat Exchanger |
| 8D1-85 | Brake |
| 8D1-86 | Rotor Blade Tracking |
| 8D1-87 | Generator |
| 8D1-88 | Thermostat |
| 8D1-89 | Launch Gear |
| 8D1-90 | Shifter |
| 8D1-91 | Pylon |
| 8D1-92 | Missile Release and Lock |
| 8D1-93 | Cooling |
| 8D1-94 | Launcher, Airborne Guided-Missile |
| 8D1-95 | Chaff Dispenser |
| 8D1-96 | Starter |
| 8D1-97 | Indicator |
| 8D1-98 | Bomb Rack |
| 8D1-99 | Transmitter |
| 8D1-100 | Stick Shaker |
| 8D1-101 | Thrust Reverse |
| 8D1-102 | Lateral Control |
| 8D1-103 | Arresting Hook |
| 8D2 | BATTERIES AND CHARGERS |

| | |
|--------|---------------------------------------|
| 8D3 | CONTROLLERS |
| 8D3-2 | Trim Tab |
| 8D3-3 | Electronic |
| 8D3-4 | Afterburner |
| 8D3-5 | Starter |
| 8D3-6 | Generator |
| 8D3-7 | Interior Lighting |
| 8D3-8 | Flasher |
| 8D3-9 | Timer |
| 8D3-10 | Temperature |
| 8D3-11 | Landing Gear |
| 8D3-12 | Warning System |
| 8D3-13 | Brake System |
| 8D3-14 | Steering |
| 8D3-15 | Pressure Sensor |
| 8D3-16 | Rudder |
| 8D3-17 | Shaker |
| 8D3-18 | Panel Assembly |
| 8D3-19 | Control Box |
| 8D3-20 | Motor Control |
| 8D3-21 | Switch |
| 8D3-22 | Inverter, Synchronizer |
| 8D3-23 | Deceleration Parachute |
| 8D3-24 | Hoist |
| 8D3-25 | Counter |
| 8D3-26 | Dimming Control |
| 8D3-27 | Sight |
| 8D3-28 | Empennage (Stabilizing Tail Assembly) |
| 8D3-29 | Camera Control |
| 8D3-30 | Overhead Delivery |
| 8D3-31 | Detecting System |
| 8D3-32 | Wing Flap |
| 8D3-33 | Pitch, Roll |
| 8D3-34 | Systems |
| 8D4 | CONNECTORS, PLUGS, TERMINALS, ETC. |
| 8D4-2 | Conduit Assemblies |
| 8D4-3 | Rheostats |
| 8D4-4 | Plugs |
| 8D4-5 | Receptacles |
| 8D5 | DYNAMOTORS |
| 8D5-2 | 0-100 MA |
| 8D5-3 | 101-200 MA |
| 8D5-4 | 201-300 MA |
| 8D6 | GENERATORS, ENGINE-DRIVEN |
| 8D6-2 | 1-50 amps |
| 8D6-3 | 51-100 amps |
| 8D6-4 | 101-200 amps |
| 8D6-5 | 201-300 amps |
| 8D6-6 | 301-400 amps |
| 8D6-7 | 20 KW |
| 8D6-8 | Tachometer Generators |
| 8D7 | MOTOR GENERATORS |

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| | |
|---------|----------------------------------|
| 8D7-2 | Voltage Boosters |
| 8D8 | HEATERS AND DEFROSTERS |
| 8D8-2 | Ignition Heater |
| 8D8-3 | 501-1000 watts |
| 8D8-4 | 1001-2000 watts |
| 8D8-5 | 2001-3000 watts |
| 8D8-6 | Purging Heater |
| 8D9 | INSTRUMENT PANEL VIBRATORS |
| 8D9-2 | 0-5 pounds |
| 8D9-3 | 6-10 pounds |
| 8D9-4 | 11-15 pounds |
| 8D9-5 | 16-20 pounds |
| 8D9-6 | 21-25 pounds |
| 8D10 | LIGHTING EQUIPMENT |
| 8D10-2 | Landing |
| 8D10-3 | Cockpit |
| 8D10-4 | Inter-Aircraft |
| 8D10-5 | Fluorescent |
| 8D10-6 | Navigation |
| 8D10-7 | Panel |
| 8D10-8 | Indicator |
| 8D10-9 | Vibrator Pack |
| 8D10-10 | Clearance |
| 8D10-11 | Anti-Collision |
| 8D10-12 | Fire Control |
| 8D10-13 | Map Reading |
| 8D10-14 | Airborne Search |
| 8D11 | POWER SUPPLIES |
| 8D11-2 | Static Converter |
| 8D11-3 | Power Unit |
| 8D12 | STARTERS |
| 8D12-2 | Combination Inertia-Direct Crank |
| 8D12-3 | Direct Crank |
| 8D13 | STARTER GENERATORS |
| 8D13-2 | 1-100 amps |
| 8D13-3 | 101-200 amps |
| 8D13-4 | 201-300 amps |
| 8D13-5 | 301-400 amps |
| 8D13-6 | 401-500 amps |
| 8D13-7 | 1000 amps |
| 8D14 | TRANSFORMER RECTIFIERS |
| 8D14-2 | 0-25 amps |
| 8D14-3 | 26-50 amps |
| 8D14-4 | 51-100 amps |
| 8D14-5 | 101-150 amps |
| 8D15 | WARNING DEVICES |
| 8D15-2 | Horn |
| 8D15-3 | Bell |
| 8D15-4 | Carbon Monoxide Signal |
| 8D15-5 | Automatic |
| 8D15-6 | Signal Amplifier |
| 8D15-7 | Stall Warning - Safe Flight |

| | |
|---------|---|
| 8D15-8 | Flasher |
| 8D15-9 | Panel |
| 8D15-10 | Audible Signal |
| 8D15-11 | Trip Signal |
| 8D15-12 | Detector |
| 8D15-13 | Visual Signal |
| 8D16 | VOLTAGE REGULATORS |
| 8D17 | SOLENOIDS |
| 8D18 | FANS AND BLOWERS |
| 8D18-2 | Flying Suits |
| 8D19 | AMPLIFIERS |
| 8D19-2 | Fuel Signal |
| 8D20 | DISCONNECTS (ELECTRICAL) |
| 8D21 | SENSORS |
| 8D22 | HARNESS ASSEMBLIES |
| 8D23 | CABLE ASSEMBLIES |
| 8D24 | PANELS |
| 8D25 | JUNCTION BOX ASSEMBLIES |
| 8D26 | UNITS AND ASSEMBLIES |
| 8D27 | ELECTRICAL MODULES |
| 8E | IGNITION SYSTEMS AND COMPONENTS |
| 8E1 | TURBOJET AND TURBOPROP |
| 8E1-2 | Ignition System |
| 8E1-3 | Spark Plug Igniter |
| 8E1-4 | Ignition Timer |
| 8E1-5 | Coil |
| 8E1-6 | Cable |
| 8E1-7 | Lead, Cable Assembly |
| 8E1-8 | Exciter |
| 8E1-9 | Harness |
| 8E1-10 | Stator |
| 8E1-11 | Generator Assembly |
| 8E1-12 | Thermocouple |
| 8E2 | RECIPROCATING ENGINES |
| 8E2-2 | System |
| 8E2-3 | Coil |
| 8E2-4 | Ignition Harness |
| 8E2-5 | Magneto |
| 8E2-5-2 | 4-, 5-, and 6- Cylinder |
| 8E2-5-3 | 7- and 9- Cylinder |
| 8E2-5-4 | 12- Cylinder |
| 8E2-5-5 | 14- Cylinder |
| 8E2-5-6 | 18- Cylinder |
| 8E2-5-7 | 2- Cylinder |
| 8E2-6 | Spark Plug |
| 8E2-7 | Switch |
| 8E2-8 | Vibrator |
| 8E2-9 | Tachometer |
| 8E3 | AUXILIARY POWER UNITS |
| 8E3-2 | Exciter |
| 8E3-3 | Panel Assemblies |
| 8R | RELAYS - INCLUDING SOLENOIDS AND CONTACTORS |

| | |
|--------|--------------------------------|
| 8R1 | GENERATOR RELAYS |
| 8R1-2 | Alternating-Current |
| 8R1-3 | Direct-Current |
| 8R2 | MOTOR GENERATORS (INVERTER) |
| 8R3 | MULTIPLE APPLICATION |
| 8R4 | STARTER RELAYS |
| 8R5 | CABIN PRESSURE CONTROL SYSTEMS |
| 8R6 | FIRE CONTROL SYSTEMS |
| 8R7 | RADAR RELAYS |
| 8R7-2 | Switch |
| 8R8 | ROTARY AND SELECTOR RELAYS |
| 8R8-2 | Ignition System Rotary |
| 8R8-3 | Switch Selector |
| 8R8-4 | Function Selector |
| 8R9 | TRANSFER RELAYS |
| 8R9-2 | Fuel Quantity |
| 8R10 | METER RELAYS |
| 8R11 | CAPACITORS |
| 8RA | ASSOCIATED EQUIPMENT |
| 8RA1 | PANEL |
| 8S | SWITCHES |
| 8S1 | FLOAT |
| 8S1-2 | Fuel Float |
| 8S1-3 | Oil Level |
| 8S2 | PRESSURE |
| 8S2-2 | Fuel |
| 8S2-3 | Hydraulic, Pneumatic, Vacuum |
| 8S2-4 | Miniature |
| 8S2-5 | Oil |
| 8S2-6 | Signal |
| 8S2-7 | Wave Guide |
| 8S2-8 | Manifold |
| 8S2-9 | Airspeed |
| 8S2-10 | Thrust |
| 8S2-11 | Barometric |
| 8S2-12 | Brake |
| 8S2-13 | Depressurized |
| 8S3 | ROTARY AND SELECTOR |
| 8S3-2 | Auxiliary |
| 8S3-3 | Wing Flap System |
| 8S4 | CIRCUIT BREAKER |
| 8S4-2 | Three Phase, Four Wire Circuit |
| 8S5 | PUSH BUTTON |
| 8S5-2 | Micro |
| 8S5-3 | Manual |
| 8S6 | THERMOSTAT |
| 8S6-2 | Anticipator |
| 8S6-3 | Detector |
| 8S6-4 | Temperature Control |
| 8S6-5 | Landing Gear Control |
| 8S6-6 | Altitude Control |
| 8S6-7 | Flight Control |

| | |
|-------|------------------------|
| 8S7 | LIMIT |
| 8S8 | LEVER |
| 8S9 | RADAR |
| 8S9-2 | Electromagnetic |
| 8S9-3 | Pressure |
| 8S9-4 | Coaxial |
| 8S10 | TIMER |
| 8S11 | INERTIA (ACCELERATION) |
| 8S12 | DECELERATION |
| 8S13 | PUSH/PULL |

CHAPTER 12

CATEGORY 9 - AIRCRAFT AND MISSILE HYDRAULIC, PNEUMATIC AND VACUUM SYSTEMS

12.1 GENERAL.

Category 9 contains airborne hydraulic, pneumatic, and vacuum systems. These systems are divided into equipment series and further divided into equipment subseries within each equipment series. TO numbers in Category 9 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 12.2.

12.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

12.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

12.2 NUMBERING PATTERNS.

12.2.1 Group One. This group has three parts identifying the category, system and equipment series within a system.

12.2.1.1 Part one is always the numeric 9 that identifies Category 9.

12.2.1.2 Part two is an alpha character indicating the system, i.e., H - hydraulic systems; P - pneudraulic systems; and V - vacuum systems.

12.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. These TO numbering series are outlined in Paragraph 12.4.

12.2.2 Group Two. Since TO numbering patterns in Category 9 use both three and four basic groups, the identifiers in group two are not constant. The following explains both numbering patterns:

12.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

12.2.2.2 If the TO number contains four basic groups, the equipment series identified in group one, part three, has been divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

12.2.3 Group Three.

12.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 9:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

12.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 9:

CL - Checklists

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- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

12.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific equipment or components. When this occurs the specific types of TOs are then identified in group four.

12.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 12.2.3.1, above.

12.3 EXAMPLES OF CATEGORY 9 NUMBERING PATTERNS.

12.3.1 Example One. Overhaul instructions for a hydraulic filter for the C-135A aircraft, type G187M-68:

9H3-3-55-3

| | |
|----|---|
| 9 | Category 9 |
| H | Hydraulic System |
| 3 | Filter and Restrictor Series |
| 3 | Line Type Filter Subseries |
| 55 | Represents Type G187M-68 |
| 3 | Number Reserved for Overhaul Instructions |

12.3.2 Example Two. An illustrated parts breakdown for a pressure pump, type MA-2, for C-141A aircraft:

9P4-2-16-24

| | |
|----|---|
| 9 | Category 9 |
| P | Pneumatic Systems |
| 4 | Pump and Compressor Series |
| 2 | Pump Subseries |
| 16 | Represents Type MA-2 |
| 24 | Number Reserved for Illustrated Parts Breakdown |

12.3.3 Example Three. Illustrated parts breakdown for a vacuum shut-off valve, PN 2V-750 to be used on multiple aircraft:

9V1-3-7-4

| | |
|---|---|
| 9 | Category 9 |
| V | Vacuum Systems |
| 1 | Valve Series |
| 3 | Shutoff Valve Subseries |
| 7 | Represents PN 2V-750 |
| 4 | Number Reserved for Illustrated Parts Breakdown |

12.4 CATEGORY 9 NUMBERING SERIES.

| | |
|-------|---|
| 9 | AIRCRAFT AND MISSILE HYDRAULIC, PNEUMATIC, AND VACUUM SYSTEMS |
| 9H | HYDRAULIC SYSTEMS AND EQUIPMENT |
| 9H1 | ACCUMULATORS |
| 9H1-2 | Cylindrical |
| 9H1-3 | Spherical |
| 9H1-4 | Sustainer |

| | |
|--------|-----------------------------|
| 9H1-5 | Booster |
| 9H2 | CYLINDERS AND ACTUATORS |
| 9H2-2 | Main Landing Gear |
| 9H2-3 | Nose Landing Gear |
| 9H2-4 | Flight Surface Control |
| 9H2-5 | Auxiliary Control |
| 9H2-6 | Air Refueling |
| 9H2-7 | Engine Control |
| 9H2-8 | Missile Guidance |
| 9H3 | FILTERS AND RESTRICTORS |
| 9H3-2 | Reservoir |
| 9H3-3 | Line |
| 9H3-4 | Vent |
| 9H3-5 | Magnetic |
| 9H4 | PUMPS |
| 9H4-2 | Engine Driven |
| 9H4-3 | Electric Motor Driven |
| 9H4-4 | Hand Driven |
| 9H4-5 | Air Driven |
| 9H4-6 | Engine Oil Driven |
| 9H5 | RESERVOIRS |
| 9H5-2 | Non-Pressurized |
| 9H5-3 | Pressurized |
| 9H6 | TRANSMISSIONS |
| 9H6-2 | Reciprocating Engine Driven |
| 9H6-3 | Jet Engine Driven |
| 9H6-4 | Turbine Driven |
| 9H6-5 | Transmission Drive |
| 9H7 | POWER PACKS |
| 9H7-2 | Electric Driven |
| 9H7-3 | Turbine Driven |
| 9H8 | VALVES |
| 9H8-2 | Relief |
| 9H8-3 | Regulator |
| 9H8-4 | Shutoff |
| 9H8-5 | Shuttle |
| 9H8-6 | Check |
| 9H8-7 | Flow Equalizer |
| 9H8-8 | Restrictor |
| 9H8-9 | Sequence |
| 9H8-10 | Self-Sealing Coupling |
| 9H8-11 | By-Pass |
| 9H8-12 | Pressure Switch |
| 9H8-13 | Drain |
| 9H8-14 | Selector |
| 9H8-15 | Pressure Reducing |
| 9H8-16 | Flow Regulator |
| 9H8-17 | Isodraulic |
| 9H8-18 | Swivel |
| 9H8-19 | Pressure Damper |
| 9H8-20 | Up-Latch |
| 9H8-21 | Auto-Lock Wing Flap |

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| | |
|--------|--|
| 9H8-22 | Snubber |
| 9H8-23 | Limit |
| 9H8-24 | Constant Flow |
| 9H8-25 | Gland |
| 9H8-26 | Priority |
| 9H8-27 | Manifold Distribution |
| 9H8-28 | Metering |
| 9H8-29 | Slide |
| 9H8-30 | Control |
| 9H8-31 | Purge |
| 9H8-32 | Override |
| 9H8-33 | Transfer |
| 9H8-34 | Dump |
| 9H8-35 | Pilot |
| 9H8-36 | Fill |
| 9H8-37 | Diverter |
| 9H9 | WINDSHIELD WIPERS |
| 9H9-2 | Single |
| 9H9-3 | Dual |
| 9H10 | MOTORS |
| 9H10-2 | 1000 PSI |
| 9H10-3 | 3000 PSI |
| 9H10-4 | 2000 PSI |
| 9H10-5 | 1600 PSI |
| 9H10-6 | 4000 PSI |
| 9H11 | COUPLINGS |
| 9H12 | MODULATOR ASSEMBLIES |
| 9H13 | DAMPERS |
| 9H14 | COOLERS AND RADIATORS |
| 9H15 | STOP ASSEMBLIES |
| 9H16 | RESTRICTORS (Use 9H3) |
| 9H17 | REGULATORS |
| 9H17-2 | Pressure |
| 9H17-3 | Control |
| 9H17-4 | Power Steering |
| 9H18 | MANIFOLD ASSEMBLIES |
| 9H19 | COMPENSATOR ASSEMBLIES |
| 9H20 | SEPARATORS |
| 9H21 | STARTERS |
| 9H22 | REELING MACHINES |
| 9H23 | GENERATORS |
| 9H24 | TRANSFORMERS |
| 9H25 | EXTENSIONS |
| 9H26 | INTERCONNECTING ASSEMBLIES |
| 9H27 | CHANNEL ASSEMBLIES |
| 9H28 | DRIVES AND MECHANISMS, DIFFERENTIAL ASSEMBLIES |
| 9H29 | DISCONNECTS |
| 9P | PNEUMATIC SYSTEMS |
| 9P1 | ACCUMULATORS AND BOTTLES |
| 9P1-2 | Bottle |
| 9P1-3 | Accumulator |
| 9P2 | CYLINDERS AND ACTUATORS |

| | |
|--------|---------------------------------|
| 9P2-2 | Landing Gear |
| 9P2-3 | Auxiliary |
| 9P2-4 | Escape Hatch |
| 9P3 | DEHYDRATORS AND CHEMICAL DRYERS |
| 9P3-2 | Dehydrator |
| 9P3-3 | Chemical Dryer |
| 9P3-4 | Mechanical Moisture Separator |
| 9P4 | PUMPS AND COMPRESSORS |
| 9P4-2 | Pump |
| 9P4-3 | Compressor |
| 9P5 | VALVES |
| 9P5-2 | Relief |
| 9P5-3 | Regulator |
| 9P5-4 | Quick Disconnect |
| 9P5-5 | Shutoff |
| 9P5-6 | Filler |
| 9P5-7 | Priority |
| 9P5-8 | Pressure Reducing and Fuse |
| 9P5-9 | Selector |
| 9P5-10 | Shuttle |
| 9P5-11 | Warning Switch |
| 9P5-12 | Check |
| 9P5-13 | Restrictor |
| 9P5-14 | Control |
| 9P5-15 | By-Pass |
| 9P5-16 | Metering |
| 9P5-17 | Bleed |
| 9P5-18 | Starter |
| 9P5-19 | Gun Gas Purging |
| 9P5-20 | Pressure Operated |
| 9P5-21 | Dump |
| 9P5-22 | Sequence |
| 9P5-23 | Butterfly |
| 9P5-24 | Flow Divider |
| 9P6 | FILTERS |
| 9P6-2 | Liquid |
| 9P6-3 | Nitrogen Gas |
| 9P7 | DRIVES |
| 9P8 | COUPLINGS |
| 9P9 | HEAT EXCHANGERS |
| 9P10 | REGULATORS |
| 9P10-2 | Elevator Control Feel |
| 9P10-3 | Pneudraulic |
| 9P10-4 | Pressure |
| 9P11 | CONTROLS |
| 9P12 | MOTORS |
| 9P13 | RELAYS |
| 9P14 | RESERVOIRS |
| 9P15 | VENTILATION UNITS |
| 9V | VACUUM SYSTEMS |
| 9V1 | VALVES |
| 9V1-2 | Relief |

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| | |
|-------|-----------------------|
| 9V1-3 | Shutoff |
| 9V1-4 | Selector |
| 9V1-5 | Regulator |
| 9V2 | PUMPS |
| 9V2-2 | Engine Driven |
| 9V2-3 | Electric Motor Driven |
| 9V3 | DECOYS |
| 9V4 | FILTERS |
| 9V4-2 | Vent |

CHAPTER 13

CATEGORY 10 - PHOTOGRAPHIC EQUIPMENT

13.1 GENERAL.

Category 10 contains twelve primary photographic systems. These systems are divided into equipment series and in some instances further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 10 use both three and four groups for data identification. Numbering patterns for both groups are discussed in Paragraph 13.2.

13.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

13.1.2 Multiple Equipment. Information pertaining to more than one equipment series within a system is numbered in the system general series.

13.2 NUMBERING PATTERNS.

13.2.1 Group One. This group has three parts identifying the category, system and equipment series within each system.

13.2.1.1 Part one is always the numeric 10 identifying Category 10.

13.2.1.2 Part two is an alpha character that indicates the photographic equipment system, i.e., A - airborne cameras; B - ground cameras; C - motion picture cameras; D - projection equipment; E -processing equipment; F - microfilm equipment; G - photographic kits; H - interpretation and photogrammetric equipment; J - sensitized materials; K - radar assessing equipment; L - photographic instrumentation equipment; and M - mobile photographic laboratories.

13.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. These TO numbering series are outlined in Paragraph 13.4.

13.2.2 Group Two. Since TO numbering patterns in Category 10 use both three and four basic groups, the identifiers in group two are not constant. The following explains both numbering patterns:

13.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

13.2.2.2 If the TO number contains four basic groups, the equipment series identified in group one, part three, has been divided into equipment subseries. In this case group two identifies the equipment subseries with one or more numeric characters and the model, type or PN identified in group three.

13.2.3 Group Three.

13.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 10:

| | |
|-----|--|
| -01 | List of Applicable Publications (LOAP) |
| -06 | Work Unit Code Manuals |
| -07 | thru -09 Reserved |
| -1 | Operating Instructions |
| -2 | Service or Maintenance Manuals |
| -3 | Depot Maintenance or Overhaul Instructions |
| -4 | Illustrated Parts Breakdown |
| -6 | Inspection Requirements |
| -7 | Installation Instructions and Installation Test Procedures |
| -8 | Test Procedures, Checkout Manuals, or Programmed Tests |

13.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, or supplements. The following alpha characters are authorized for use in Category 10:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

13.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific equipment or components. When this occurs the specific types of TOs are then identified in group four.

13.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 13.2.3.1.

13.3 EXAMPLES OF CATEGORY 10 NUMBERING PATTERNS.

13.3.1 Example One. A service manual for a still picture camera, type KB-18A, for use on RF-4C aircraft:

- 10A1-6-6-2
- 10 Category 10
- A Airborne Cameras
- 1 Aircraft Camera Series
- 6 Strike Camera Subseries
- 6 Represents Type KB-18A
- 2 Number Reserved for Service Manuals

13.3.2 Example Two. Operating and service instructions for a Mark II contact printer:

- 10E8-2-19-1
- 10 Category 10
- E Processing Equipment
- 8 Printer Series
- 2 Contact Printer Subseries
- 19 Represents Type Mark II
- 1 Number Reserved for Operating Instructions

13.3.3 Example Three. Operating and maintenance instructions with illustrated parts breakdown for a mobile photo laboratory, type ES- 64A:

- 10M1-7-3-1
- 10 Category 10
- M Photographic Laboratories
- 1 Mobile Laboratory Series
- 7 Photo Interpretation Subseries
- 3 Represents Type ES-64A
- 1 Number Reserved for Operating Instructions

13.4 CATEGORY 10 NUMBERING SERIES.

| | |
|---------|---------------------------------------|
| 10 | PHOTOGRAPHIC EQUIPMENT |
| 10A | AIRBORNE CAMERAS AND EQUIPMENT |
| 10A1 | AIRCRAFT CAMERAS |
| 10A1-2 | Gun |
| 10A1-3 | Mapping |
| 10A1-4 | Radar Recording |
| 10A1-5 | Reconnaissance |
| 10A1-6 | Strike |
| 10A1-7 | Continuous Strip |
| 10A1-8 | Pair |
| 10A1-9 | Motion Picture |
| 10A1-10 | Optical |
| 10A2 | BODIES, LENS, CONES, REELS, ETC. |
| 10A2-2 | Bodies |
| 10A2-3 | Lens, Cone |
| 10A2-4 | Film Magazine |
| 10A2-5 | Reel |
| 10A2-6 | Magnetic Clutch and Brake Assembly |
| 10A3 | MOUNTS AND GYROSCOPES |
| 10A4 | VIEWFINDERS |
| 10A5 | CONTROLS |
| 10A5-2 | Film Magazine |
| 10A5-3 | Gun Camera |
| 10A5-4 | Mapping Camera |
| 10A5-5 | Radar Recording Camera |
| 10A5-6 | Reconnaissance Camera |
| 10A5-7 | Strike Camera |
| 10A5-8 | Strip Camera |
| 10A6 | CAMERA CONTROL SYSTEMS, UNIVERSAL |
| 10A6-2 | Amplifier Unit |
| 10A6-3 | Amplifier |
| 10A6-4 | Base Mounting |
| 10A6-5 | Chassis |
| 10A6-6 | Computer Unit |
| 10A6-7 | Computer |
| 10A6-8 | Control |
| 10A6-9 | Detector |
| 10A6-10 | Discriminator |
| 10A6-11 | Generator |
| 10A6-12 | Indicator |
| 10A6-13 | Intervalometer |
| 10A6-14 | Junction Box |
| 10A6-15 | Memory Delay Unit |
| 10A6-16 | Power Supply |
| 10A6-17 | Synchronizer Marker Unit |
| 10A6-18 | Pulse Shaper |
| 10A6-19 | Converter |
| 10A6-20 | Adapter |

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| 10A7 | NIGHT PHOTO EQUIPMENT |
| 10A7-2 | Lamp Assembly |
| 10A7-3 | Photoflash Cartridge Ejector |
| 10A7-4 | Detector |
| 10A8 | PHOTO NAVIGATION EQUIPMENT |
| 10A8-2 | Pilot Director |
| 10A8-3 | Control System |
| 10A8-3-2 | Servo Amplifier |
| 10A8-3-3 | Heading Error Compensator |
| 10A8-3-4 | Indicator |
| 10A8-3-5 | Drift Angle Control Box |
| 10A8-3-6 | Tripping Pulse Duration |
| 10A8-4 | Converter |
| 10A9 | RECONNAISSANCE DEVICES |
| 10A10 | DATA DISPLAY SETS |
| 10A11 | TEST EQUIPMENT (Use 33D10) |
| 10A12 | LIGHT BOXES |
| 10A13 | PHOTOMETERS |
| 10A14 | ENCODERS |
| 10A15 | COOLING UNITS |
| 10A16 | CALIBRATORS |
| 10A17 | CAMERA PODS |
| 10B | GROUND CAMERAS AND EQUIPMENT |
| 10B1 | GROUND CAMERAS |
| 10B1-2 | 16MM (Still) |
| 10B1-3 | 35MM (Still) |
| 10B1-4 | 50MM (Still) |
| 10B1-5 | 3 1/4 X 4 1/4 |
| 10B1-6 | 4 X 5 |
| 10B1-7 | 8 X 10 |
| 10B1-8 | Copying |
| 10B1-9 | Identification |
| 10B1-10 | Data Recording |
| 10B1-11 | Oscilloscope |
| 10B1-12 | Hand |
| 10B1-13 | Tracking |
| 10B2 | EXPOSURE METERS |
| 10B3 | FLASH UNITS |
| 10B4 | LIGHT ASSEMBLIES |
| 10B5 | TRIPODS |
| 10B6 | STANDS |
| 10B7 | VIEWERS |
| 10B8 | ELECTRONIC OPTICAL TRACKING SYSTEM |
| 10C | MOTION PICTURE CAMERAS AND EQUIPMENT |
| 10C1 | CAMERAS |
| 10C1-2 | 8 MM |
| 10C1-3 | 16 MM |
| 10C1-4 | 35 MM |
| 10C1-5 | Missile |
| 10C1-6 | 70 MM |
| 10C2 | CLEANERS |
| 10C3 | EDITORS AND VIEWERS |

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| 10C4 | MACHINE MEASURING EQUIPMENT |
| 10C5 | REWIND EQUIPMENT |
| 10C6 | SOUND RECORDING EQUIPMENT |
| 10C7 | SPLICERS |
| 10C8 | TRIPODS AND HEADS |
| 10C9 | FILM TITLERS |
| 10C10 | SCORING ASSEMBLIES |
| 10C11 | BODIES AND MAGAZINES |
| 10C12 | COATERS |
| 10C13 | HAND HELD CAMERAS |
| 10C14 | VIDEO SYSTEMS |
| 10D | PROJECTION EQUIPMENT |
| 10D1 | PROJECTORS |
| 10D1-2 | Motion Picture |
| 10D1-3 | Still Picture |
| 10D1-4 | Continuous Stereoscopic |
| 10D2 | POINTERS (Optical) |
| 10D3 | SCREENS |
| 10D4 | VIEWERS |
| 10D4-2 | Still Picture |
| 10D4-3 | Motion Picture |
| 10D4-4 | Stereoscopic |
| 10D5 | COMPARATORS |
| 10D5-2 | Photographic |
| 10E | PROCESSING EQUIPMENT |
| 10E1 | DEHUMIDIFIERS |
| 10E2 | DEVELOPERS AND PROCESSORS |
| 10E3 | DRYERS |
| 10E3-2 | Film |
| 10E3-3 | Print |
| 10E4 | HEATERS AND CHILLERS (WATER) |
| 10E5 | PROCESSING, EXPOSURE, TEST, AND STAMPING MACHINES |
| 10E5-2 | Continuous Processing |
| 10E5-3 | Exposure Test |
| 10E5-4 | Stamping |
| 10E6 | DRY MOUNTING PRESSES |
| 10E7 | PHOTOCOPY EQUIPMENT |
| 10E8 | PRINTERS |
| 10E8-2 | Contact (Manual) |
| 10E8-3 | Continuous |
| 10E8-4 | Projection |
| 10E9 | SINKS |
| 10E10 | STRAIGHTENERS |
| 10E11 | MIXERS |
| 10E12 | TIMERS |
| 10E12-2 | Electrical |
| 10E13 | WASHERS |
| 10E14 | WRINGERS |
| 10E15 | MIXER-DISTRIBUTORS |
| 10E16 | CHOPPERS |
| 10E17 | EASELS |
| 10E18 | LIGHT ASSEMBLIES |

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| 10E19 | CONTROLS |
| 10E20 | MECHANISMS |
| 10E21 | CODERS |
| 10E22 | SIMULATORS |
| 10E23 | REPRODUCERS |
| 10E24 | ANALYZERS |
| 10E25 | TRANSLATORS |
| 10E26 | EJECTOR SETS |
| 10E27 | METERS |
| 10E27-2 | Sensitometer |
| 10E27-3 | Densitometer |
| 10E28 | RECTIFIERS |
| 10E29 | FOCATRONS |
| 10E30 | LIGHT TABLES |
| 10E31 | SILVER RECOVERY UNITS |
| 10E32 | FILM FINISHING |
| 10E33 | PRESSURE REDUCING VALVES |
| 10E34 | DUPLICATORS |
| 10E35 | VALVES |
| 10F | MICROFILM EQUIPMENT |
| 10F1 | CAMERAS |
| 10F2 | ENLARGERS MARKING |
| 10F3 | READERS |
| 10F4 | CUTTERS |
| 10G | KITS, PHOTOGRAPHIC-EQUIPMENT |
| 10G1 | DARKROOM |
| 10G2 | DEHUMIDIFYING |
| 10G3 | DEVELOPING |
| 10G4 | DRYING |
| 10G5 | LABORATORY |
| 10G6 | LIGHTING |
| 10G7 | MIXER |
| 10G8 | NEGATIVE MARKING |
| 10G9 | COPYING AND ENLARGING |
| 10G10 | PRINTING |
| 10G11 | SINK |
| 10G12 | TEMPERATURE CONTROL |
| 10G13 | WATER SUPPLY |
| 10G14 | VECTOGRAPH |
| 10G15 | OPTIC |
| 10G16 | CARRYING AND STORAGE CASES |
| 10G17 | ADAPTER KITS |
| 10H | INTERPRETATION AND PHOTOGRAMMETRY EQUIPMENT |
| 10H1 | HEIGHT FINDERS |
| 10H2 | PHOTO INTERPRETERS |
| 10H3 | PLOTTERS |
| 10H4 | FILM PLOTTING TABLES |
| 10H5 | SKETCHMASTERS |
| 10H6 | TEMPLET SETS, SLOTTED |
| 10H7 | RECTIFIERS |
| 10H8 | PROJECTORS |
| 10H9 | INTERPRETATION EQUIPMENT |

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| 10H10 | REEL BRACKETS |
| 10H11 | ANALYTICAL SYSTEMS |
| 10J | SENSITIZED MATERIALS AND SUPPLIES |
| 10K | RADAR ASSESSING EQUIPMENT |
| 10K1 | GENERAL |
| 10K2 | PLOTTING BOARDS |
| 10L | PHOTO INSTRUMENTATION EQUIPMENT |
| 10L1 | CAMERAS |
| 10L2 | MAGAZINES |
| 10M | PHOTO LABORATORIES |
| 10M1 | MOBILE |
| 10M1-2 | Processing (Shelter) |
| 10M1-3 | Printing |
| 10M1-4 | Reproduction |
| 10M1-5 | Maintenance Shop |
| 10M1-6 | Edit, Inspection |
| 10M1-7 | Interpretation |
| 10M1-8 | Storage Facility |
| 10M1-9 | Chemical Mixing, Distribution |
| 10M1-10 | Film Titling, Cleaning |
| 10M1-11 | Film Handling Facility |
| 10M1-12 | Administration |
| 10M1-13 | Accessing-Briefing |
| 10M1-14 | Water Conditioner |
| 10M1-15 | Electronic Optical Tracking |

CHAPTER 14

CATEGORY 11 - ARMAMENT EQUIPMENT

14.1 GENERAL.

Category 11 contains thirteen armament systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore, TO numbers in Category 11 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 14.2.

NOTE

Legacy 11N TO numbering did not follow standard formatting patterns, previously numbered 11N TOs will not be re-numbered solely to match the following numbering requirements.

14.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

14.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

14.2 NUMBERING PATTERNS.

14.2.1 Group One. GROUP ONE. This group has three parts that identify the category, system and equipment series within the system.

14.2.1.1 Part one is always the numeric 11 identifying Category 11.

14.2.1.2 Part two is an alpha character identifying the armament system, i.e., A - ammunition; B - bombing systems and equipment; C - chemical warfare agents, explosives, gases and weapons; D - decontamination, impregnating and protective equipment; E - biological warfare agents; F - fire control systems and equipment; G - guidance and control systems and equipment; H - hazard detecting equipment; K - guided glide weapons; L - launchers and equipment; N - nuclear weapons and equipment; P - egress systems, explosive devices and equipment; R - missile re entry vehicles and equipment; and W - weapons and equipment. Only two of the 13 systems in Category 11 have associated equipment identified. These two systems are: launchers and equipment, and weapons and equipment. The associated equipment is identified by adding the alpha A immediately following the armament system identifier, i.e., LA and WA.

14.2.1.3 Part three contains one or more numeric characters identifying an equipment series within the system. The TO numbering series are outlined in Paragraph 14.4.

14.2.2 Group Two. TO numbering patterns in Category 11 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

14.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific equipment.

14.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

14.2.2.3 Bombing systems and fire control systems with JETDS (Joint Electronics Type Designator System) numbers or Air Force type numbers are numbered in the 11B1 and 11F1 series respectively. The type designator, in this instance, is used to form group two of the TO number. (See examples in Paragraph 4.3.4 and Paragraph 4.3.5.)

14.2.3 Group Three.

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14.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 11:

- 01 List of Applicable Publications (LOAP)
- 06 Work Unit Code Manuals
- 07 thru -09 Reserved
- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Storage, Installation and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

14.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 11:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

14.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific component assemblies.

14.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 14.2.3.1.

14.3 EXAMPLES OF CATEGORY 11 NUMBERING PATTERNS.

14.3.1 Example One. Storage procedures for cluster munitions, type CBU-30/A:

11A9-14-7
11 Category 11
A Ammunition
9 Cluster Munition Series
14 Identifies Type CBU-30/A
7 Number Reserved for Storage Instructions

14.3.2 Example Two. Operating and maintenance instructions for a smoke tank, PN 2105220:

11C15-2-7-1
11 Category 11
C Chemical Warfare Agents, Explosives, Gases and Weapons
15 Tank Series
2 Smoke Tank Subseries
7 Identifies PN 2105220
1 Number Reserved for Operating Instructions

14.3.3 Example Three. Overhaul instructions for a target position computer, PN 737511:

11F12-13-2-3

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|----|---|
| 11 | Category 11 |
| F | Fire Control Systems |
| 12 | Computer Series |
| 13 | Target Position Type Subseries |
| 2 | Identifies PN 737511 |
| 3 | Number Reserved for Overhaul Instructions |

14.3.4 Example Four. Field maintenance instructions for bombing navigation system, optical and radar, type AN/ASB-15A,B:

| | |
|----------------|--|
| 11B1-ASB15-2-3 | |
| 11 | Category 11 |
| B | Bombing Systems and Equipment |
| 1 | Bombing System Series |
| ASB15 | Identifies Type AN/ASB-15 |
| 2 | Number Reserved for Maintenance Instructions |
| 3 | Identifies the Third Section |

14.3.5 Example Five. Field maintenance instructions for fire control system, type MA-8, PN 521E747G8, G9 used on F-105 aircraft.

| | |
|-------------|--|
| 11F1-MA8-12 | |
| 11 | Category 11 |
| F | Fire Control Systems and Equipment |
| 1 | Fire Control System Series |
| MA8 | Identifies Type MA-8 |
| 12 | Number Reserved for Maintenance Instructions |

14.4 CATEGORY 11 NUMBERING SERIES.

| | |
|-------|---|
| 11 | ARMAMENT EQUIPMENT |
| 11A | MUNITIONS |
| 11A1 | BOMBS, EXPLOSIVE |
| 11A2 | BOMBS, INCENDIARY |
| 11A3 | BOMBS, PRACTICE AND LEAFLET |
| 11A4 | BOOSTERS AND BURSTERS |
| 11A5 | AERIAL MINES, NON-CLUSTERED |
| 11A6 | FINS, BOMB |
| 11A7 | FUSES, BOMB |
| 11A8 | MISCELLANEOUS GROUND MUNITIONS |
| 11A9 | CLUSTER MUNITIONS |
| 11A10 | FLARES, MARKERS, SIGNALS, AND SIMULATORS |
| 11A11 | ROCKETS AND ROCKET COMPONENTS |
| 11A12 | ADAPTERS, CLUSTER-BOMB |
| 11A13 | GUN AMMUNITION |
| 11A14 | RIOT CONTROL AND SMOKE MUNITIONS |
| 11A15 | MISSILE EXPLOSIVE COMPONENTS |
| 11A16 | COUNTERMEASURES |
| 11A17 | CARGO, PARACHUTE, AND WEAPONS RETARDATION SYSTEMS |
| 11A18 | AIRCRAFT STORES JETTISONING, AIRCRAFT STARTING, AND RELATED EXPLOSIVE DEVICES |

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| 11A19 | RIOT CONTROL AIDS |
| 11A20 | DEMOLITION MATERIAL AND DESTRUCTIVE DEVICES |
| 11A21 | DISPENSERS, FLARE |
| 11A22 | EXPLOSIVE DEVICES, TARGET DRONE, AND SPECIAL PURPOSE AIRCRAFT |
| 11A23 | IGNITERS |
| 11A24 | CARTRIDGES |
| 11B | BOMBING SYSTEMS AND EQUIPMENT |
| 11B1 | BOMBING SYSTEMS |
| 11B1-A | Type A |
| 11B1-K | Type K |
| 11B1-M | Type M |
| 11B2 | AMPLIFIERS |
| 11B2-2 | AN Type |
| 11B2-3 | V Type |
| 11B2-4 | Computer |
| 11B2-5 | Sealed |
| 11B2-6 | Servo |
| 11B2-7 | Stabilization |
| 11B2-8 | Audio Frequency |
| 11B2-9 | Electronic Control |
| 11B2-10 | Video |
| 11B2-11 | Radar Indicator Sweep |
| 11B2-12 | Intermediate Frequency |
| 11B2-13 | Current Deflection |
| 11B2-14 | Power Supply |
| 11B2-15 | Displacement |
| 11B3 | ANTENNAS |
| 11B3-2 | Radar |
| 11B3-3 | Radio |
| 11B4 | BANKS |
| 11B4-2 | Relay |
| 11B5 | BOXES |
| 11B5-2 | Control |
| 11B5-3 | Junction |
| 11B5-4 | Potentiometer |
| 11B5-5 | Relay |
| 11B5-6 | Fuse |
| 11B6 | BRACES |
| 11B6-2 | Sway |
| 11B7 | COMPARATORS |
| 11B7-2 | Type CM |
| 11B7-3 | Type GS |
| 11B7-4 | Type MA-2 |
| 11B7-5 | Type AN |
| 11B7-6 | Groundspeed and Track |
| 11B8 | COMPENSATORS |
| 11B8-2 | Transmission Error |
| 11B8-3 | Compass |
| 11B9 | COMPRESSORS |
| 11B9-2 | Air |
| 11B10 | COMPUTERS |
| 11B10-2 | Type A Bombing, Navigation |

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| 11B10-3 | Azimuth |
| 11B10-4 | Ballistic |
| 11B10-5 | Bomb Release |
| 11B10-6 | BT Type (Toss Bomb) (Use 11B10-9) |
| 11B10-7 | Electronic |
| 11B10-8 | Type K Position |
| 11B10-9 | Toss Bomb |
| 11B10-10 | Altitude |
| 11B10-11 | Missile Release Navigational |
| 11B10-12 | Range |
| 11B10-13 | Tracking |
| 11B10-14 | Air Navigation |
| 11B10-15 | Type MA-2 |
| 11B10-16 | Velocity |
| 11B10-17 | Dive Angle |
| 11B10-18 | Simulator |
| 11B10-19 | Roll Error |
| 11B10-20 | Panels and Racks |
| 11B10-21 | Terrain Clearance |
| 11B10-22 | Time |
| 11B10-23 | Flight Directional |
| 11B10-24 | Programmers |
| 11B10-25 | Data Subsystems |
| 11B11 | CONTAINERS |
| 11B11-2 | Aero |
| 11B12 | CONTROLS |
| 11B12-2 | Arming |
| 11B12-3 | Ballistics |
| 11B12-4 | Bomb Release Interval |
| 11B12-5 | Line of Sight |
| 11B12-6 | Navigation |
| 11B12-7 | Primary |
| 11B12-8 | Tracking |
| 11B12-9 | Guidance |
| 11B12-10 | Computer |
| 11B12-11 | Tuning |
| 11B12-12 | Range |
| 11B12-13 | Indicator |
| 11B12-14 | Optics |
| 11B12-15 | Radar Set Gain |
| 11B12-16 | Test |
| 11B12-17 | Remote Module |
| 11B12-18 | Intervalometer |
| 11B12-19 | Emergency Bombing |
| 11B12-20 | Type MA-2 and ASB-4 |
| 11B12-21 | Doppler Radar |
| 11B12-22 | Time |
| 11B12-23 | Heading Reference |
| 11B12-24 | Bomb Mark |
| 11B12-25 | Terrain Radar |
| 11B12-26 | Selector |

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| 11B12-27 | Calibration |
| 11B12-28 | Frequency |
| 11B12-29 | Radar Set |
| 11B12-30 | Power Supply |
| 11B13 | CONVERTERS |
| 11B13-2 | Coordinate |
| 11B13-3 | Polar |
| 11B13-4 | Signal Data |
| 11B13-5 | Speed |
| 11B13-6 | Temperature |
| 11B13-7 | Telemetry |
| 11B13-8 | Type MA-2 and ASB-4 |
| 11B14 | CORRECTORS |
| 11B14-2 | Bombsight |
| 11B15 | COUPLERS |
| 11B15-2 | Non-directional |
| 11B15-3 | Directional |
| 11B16 | COVERS |
| 11B16-2 | Bombsight |
| 11B17 | DESICCATORS |
| 11B17-2 | Type B |
| 11B17-3 | Type MA |
| 11B18 | DOPPLER DRIFT GROUP |
| 11B18-2 | AN Type |
| 11B19 | GENERATORS |
| 11B19-2 | Azimuth Mark |
| 11B19-3 | Azimuth Sweep |
| 11B19-4 | Pedestal |
| 11B19-5 | Pulse |
| 11B19-6 | Range Mark |
| 11B19-7 | Sweep |
| 11B19-8 | Sine Wave |
| 11B19-9 | Stabilization Data |
| 11B19-10 | Antenna |
| 11B19-11 | Motor (Do not use) |
| 11B19-12 | Type MA-2 and ASB-4 |
| 11B19-13 | Frequency |
| 11B19-14 | Noise |
| 11B20 | GYROSCOPES |
| 11B20-2 | Cageable |
| 11B20-3 | Non-cageable |
| 11B21 | INDICATORS |
| 11B21-2 | Cathode Ray |
| 11B21-3 | Group |
| 11B21-4 | Meter |
| 11B21-5 | Multiple |
| 11B21-6 | Position |
| 11B21-7 | Dive and Roll |
| 11B21-8 | Sight Angle |
| 11B21-9 | Checkout |
| 11B21-10 | Topographical Comparator |
| 11B21-11 | Pilot Ground Track |

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| 11B21-12 | Clearance |
| 11B21-13 | Radar Flight |
| 11B22 | INTERCONNECTING GROUP |
| 11B23 | SETS |
| 11B23-2 | Maintenance Rack |
| 11B23-3 | Radar Pressurization |
| 11B24 | MODULATORS |
| 11B25 | MOUNTINGS |
| 11B25-2 | JETDS Nomenclatured |
| 11B26 | MOUNTS |
| 11B26-2 | Sight |
| 11B28 | POWER SUPPLIES |
| 11B28-2 | Low Voltage |
| 11B28-3 | High Voltage |
| 11B28-4 | Analyzer |
| 11B28-5 | Auxiliary |
| 11B29 | RACKS |
| 11B29-2 | Amplifier |
| 11B29-3 | Bomb |
| 11B30 | RADAR ASSEMBLIES |
| 11B30-2 | JETDS Nomenclatured |
| 11B31 | RADAR SETS |
| 11B31-2 | Type AN/APS |
| 11B31-3 | Data Presentation |
| 11B31-4 | Type AN/ASB |
| 11B31-5 | Type AN/ASQ |
| 11B32 | RADIO SETS |
| 11B32-2 | JETDS Nomenclature |
| 11B33 | RECEIVERS |
| 11B33-2 | Radar |
| 11B33-3 | Radio |
| 11B34 | RECEIVER-TRANSMITTERS |
| 11B34-2 | Radar |
| 11B34-3 | Radio |
| 11B34-4 | Television |
| 11B35 | RECEPTACLES |
| 11B35-2 | Bomb Release |
| 11B36 | RECORDERS |
| 11B36-2 | Video |
| 11B36-3 | Light and Time |
| 11B36-4 | Photo |
| 11B37 | REGULATORS |
| 11B37-2 | Current |
| 11B37-3 | Voltage |
| 11B38 | RELEASES |
| 11B38-2 | Bomb Rack |
| 11B38-3 | Bomb Shackle |
| 11B39 | SELECTORS |
| 11B39-2 | Bomb Group |
| 11B39-3 | Bomb Rack |
| 11B40 | SHACKLES |
| 11B40-2 | 100- to 1600- pound Capacity |

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| 11B40-3 | 2000- to 5000- pound Capacity |
| 11B40-4 | 4000- to 9000- pound Capacity |
| 11B41 | SIGHTS |
| 11B41-2 | M Type |
| 11B41-3 | S Type |
| 11B41-4 | T Type |
| 11B41-5 | Y Type |
| 11B41-6 | MA-2 and ASB-4 |
| 11B41-7 | Illuminated |
| 11B42 | STABILIZERS |
| 11B42-2 | Periscopic Bombsight |
| 11B42-3 | Optics |
| 11B42-4 | Navigation |
| 11B43 | SYNCHRONIZERS |
| 11B43-2 | Type SN-()/APS |
| 11B43-3 | Antenna |
| 11B43-4 | Electrical |
| 11B44 | TIMERS |
| 11B44-2 | Type A |
| 11B44-3 | Time Meters |
| 11B44-4 | Bombing |
| 11B44-5 | Firing Mechanism |
| 11B45 | TRANSFORMERS |
| 11B46 | TRANSMITTERS |
| 11B46-2 | Altitude Variation, Airspeed |
| 11B46-3 | True Heading |
| 11B46-4 | Remote Compass |
| 11B46-5 | Radio |
| 11B46-6 | Antenna |
| 11B46-7 | Radar |
| 11B47 | UNITS |
| 11B47-2 | Antenna Drive |
| 11B47-3 | Filter |
| 11B47-4 | Offset |
| 11B47-5 | Phase Shift |
| 11B47-6 | Magnetron Drive |
| 11B47-7 | Stores |
| 11B47-8 | Delay |
| 11B47-9 | Stabilized |
| 11B47-10 | Navigation |
| 11B47-11 | Monitor |
| 11B47-12 | Control |
| 11B47-13 | Distribution |
| 11B47-14 | Weapons Release |
| 11B48 | VISORS |
| 11B49 | ATTACHMENTS |
| 11B49-2 | Camera |
| 11B50 | PROTECTORS |
| 11B50-2 | Electrical |
| 11B51 | NETWORKS |
| 11B51-2 | Network Assemblies |
| 11B52 | BLOWERS AND FANS |

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| 11B52-2 | Radar |
| 11B52-3 | Electrical |
| 11B53 | CALIBRATORS |
| 11B54 | RELAY ASSEMBLIES |
| 11B55 | BLANKERS |
| 11B56 | MULTIMETERS |
| 11B57 | TELESCOPES |
| 11B58 | MIRROR ASSEMBLIES |
| 11B59 | EJECTORS |
| 11B60 | ELECTRONIC GATES |
| 11B61 | PANELS |
| 11B61-2 | Control |
| 11B62 | PERISCOPES |
| 11B63 | ACCELEROMETERS |
| 11B64 | TRANSDUCER ASSEMBLIES |
| 11B65 | TRANSFORMER-RECTIFIER ASSEMBLIES |
| 11B66 | PLATFORMS |
| 11B67 | FANS (Use 11B52) |
| 11B68 | ANALYZERS |
| 11B68-2 | Polar Converter |
| 11B68-3 | Phase Shifter |
| 11B68-4 | Synchronizer |
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| 11B70 | DYNAMOTOR ASSEMBLIES |
| 11B71 | CAMERA SYSTEMS |
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| 11B72-3 | Pitch Angle |
| 11B73 | SWITCHES |
| 11B73-2 | Waveguide |
| 11B74 | DEMODULATORS |
| 11B74-2 | Altitude Control |
| 11B75 | MOTORS |
| 11B75-2 | Comparator |
| 11B75-3 | Blower |
| 11B75-4 | Drive |
| 11B75-5 | Indicator |
| 11B75-6 | Servo |
| 11B76 | CASES |
| 11B76-2 | Motor Gear |
| 11B77 | SLINGS |
| 11B78 | FRAMES |
| 11B79 | DISPLAYS |
| 11B80 | INTEGRATORS |
| 11B81 | RELEASE MECHANISMS |
| 11B82 | CHASSIS ASSEMBLIES |
| 11B83 | EVALUATORS |
| 11B84 | WAVEGUIDES |
| 11B85 | PACKAGES |
| 11B85-2 | Data |
| 11B85-3 | Camera |
| 11B85-4 | Doppler Radar |

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| 11B86 | CAMERA PACKAGES (Use 11B85-3) |
| 11B87 | CHAIN AND HOOK ASSEMBLIES |
| 11B88 | ASTROTRACKERS (Use 5N2) |
| 11B89 | ALTIMETERS |
| 11B89-2 | Radio |
| 11B90 | NETWORKS (See 11B51 also) |
| 11B90-2 | Camera |
| 11B91 | DIGITALIZERS |
| 11B91-2 | Data |
| 11B92 | FILTERS |
| 11B92-2 | Radar |
| 11B92-3 | Radio |
| 11B93 | SCANNERS |
| 11B94 | INFRARED ASSEMBLIES |
| 11B95 | ADAPTERS AND PLUG-IN UNITS |
| 11B96 | MATRIX ASSEMBLIES |
| 11C | CHEMICAL WARFARE AGENTS, EXPLOSIVES, GASES AND WEAPONS |
| 11C1 | CHEMICAL WARFARE AGENTS |
| 11C2 | CHEMICAL WARFARE BOMBS |
| 11C2-2 | Gas |
| 11C2-3 | Incendiary |
| 11C2-4 | Smoke |
| 11C3 | CHEMICAL WARFARE EXPLOSIVES |
| 11C4 | FLAME THROWERS |
| 11C4-2 | Portable |
| 11C4-3 | Mechanized |
| 11C5 | GASES |
| 11C5-2 | Blister |
| 11C5-3 | G Series |
| 11C5-4 | Mustard and Derivatives |
| 11C5-5 | Tear |
| 11C6 | GENERATORS |
| 11C6-2 | Smoke |
| 11C7 | GRENADES |
| 11C7-2 | Frangible |
| 11C7-3 | Incendiary |
| 11C7-4 | Smoke |
| 11C8 | HANDLING EQUIPMENT |
| 11C8-2 | Containers |
| 11C8-3 | Hoists |
| 11C8-4 | Kits |
| 11C8-5 | Maintenance Sets |
| 11C8-6 | Mixing, Transfer Units |
| 11C8-7 | Dispensers, Dispersers |
| 11C9 | INCENDIARIES |
| 11C9-2 | Mixing and Transfer Kits, Fuel |
| 11C9-3 | Document Destroyers |
| 11C10 | (RESERVED) |
| 11C11 | MORTARS |
| 11C12 | GENERATORS |
| 11C12-2 | Smoke |
| 11C13 | SMOKE POTS |

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| 11C14 | SMOKES |
| 11C14-2 | Screening |
| 11C15 | TANKS |
| 11C15-2 | Smoke |
| 11C15-3 | Liquid Agent Spray |
| 11C15-4 | Power Spray (Dry) |
| 11C16 | DISCHARGERS |
| 11C17 | VALVES |
| 11C18 | ACTUATOR |
| 11D | DECONTAMINATING, IMPREGNATING, AND PROTECTIVE EQUIPMENT |
| 11D1 | DECONTAMINATING EQUIPMENT |
| 11D1-2 | Delousing |
| 11D1-3 | Portable |
| 11D1-4 | Truck Mounted |
| 11D1-5 | Skid Mounted |
| 11D1-6 | Trailer Mounted |
| 11D2 | IMPREGNATING EQUIPMENT |
| 11D2-2 | Impregnites |
| 11D2-3 | Impregnating Plants |
| 11D3 | PROTECTIVE EQUIPMENT |
| 11D3-2 | Protectors |
| 11D3-3 | Shelters |
| 11E | BIOLOGICAL WARFARE AGENTS |
| 11E1 | NOT USED |
| 11E2 | BOMBS |
| 11E3 | AGENTS |
| 11F | FIRE CONTROL SYSTEMS AND EQUIPMENT |
| 11F1 | FIRE CONTROL SYSTEMS |
| 11F1-A | Type A |
| 11F1-B | Type B |
| 11F1-C | Type C |
| 11F1-E | Type E |
| 11F1-F | Type F |
| 11F1-M | Type M |
| 11F1-P | Type P |
| 11F1-T | Type T |
| 11F2 | ACCELEROMETERS |
| 11F2-2 | Lift |
| 11F2-3 | Voltage |
| 11F2-4 | Gravity Drop |
| 11F2-5 | Cageable |
| 11F3 | ADAPTERS (See 11F64 also) |
| 11F3-2 | Range Servo |
| 11F3-3 | Sight |
| 11F3-4 | Test |
| 11F3-5 | Radar |
| 11F3-6 | Detector |
| 11F4 | AMPLIFIERS |
| 11F4-2 | Audio Frequency |
| 11F4-3 | Electronic Control |
| 11F4-4 | Intermediate Frequency |
| 11F4-5 | Preamplifier |

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| 11F4-6 | Servo |
| 11F4-7 | Sight |
| 11F4-8 | Computer |
| 11F4-9 | Antenna Control |
| 11F4-10 | Synchro Signal |
| 11F4-11 | Resolver |
| 11F4-12 | Automatic Frequency |
| 11F4-13 | Deflection |
| 11F4-14 | Power Supply |
| 11F4-15 | Gyroscope |
| 11F4-16 | Steering Signal |
| 11F4-17 | Attack Display |
| 11F4-18 | Memory |
| 11F4-19 | Video |
| 11F4-20 | Oscillator Control |
| 11F4-21 | Transponder |
| 11F4-22 | Interrogator |
| 11F4-23 | Counter |
| 11F5 | ANTENNAS |
| 11F6 | ASSEMBLIES |
| 11F6-2 | Tail Section |
| 11F7 | BLOWERS |
| 11F8 | BOXES |
| 11F8-2 | Control |
| 11F8-3 | Firing |
| 11F8-4 | Junction, Interconnecting |
| 11F8-5 | Terminal |
| 11F9 | PROGRAMMERS (Use 11F97) |
| 11F10 | CENTRAL SYSTEMS |
| 11F10-2 | Computer |
| 11F10-3 | Fire Control |
| 11F10-4 | Indicator |
| 11F10-5 | Power |
| 11F10-6 | Radar |
| 11F10-7 | Servo |
| 11F10-8 | Auxiliary |
| 11F11 | COMPRESSED AIR SYSTEMS |
| 11F12 | COMPUTERS |
| 11F12-2 | Angle of Attack |
| 11F12-3 | Flight Data |
| 11F12-4 | Free Gyroscope |
| 11F12-5 | Range |
| 11F12-6 | Sight |
| 11F12-7 | Turret |
| 11F12-8 | Interceptor Fighting, Fixed |
| 11F12-9 | Air Navigation |
| 11F12-10 | Altitude |
| 11F12-11 | Gun Data |
| 11F12-12 | Terminal Box |
| 11F12-13 | Target Position |
| 11F12-14 | Analog |
| 11F12-15 | Air Data |

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| 11F12-16 | Launch |
| 11F12-17 | Toss Bomb (Use 11B10) |
| 11F12-18 | Roll Error |
| 11F12-19 | Jump Angle |
| 11F12-20 | Annunciator |
| 11F12-21 | Servo |
| 11F12-22 | Digital |
| 11F12-23 | Signal |
| 11F12-24 | Armament Control |
| 11F12-25 | Programmer |
| 11F13 | CONTROLS |
| 11F13-2 | Amplifier |
| 11F13-3 | Antenna |
| 11F13-4 | Console Switching |
| 11F13-5 | Hydraulic Range |
| 11F13-6 | Indicator |
| 11F13-7 | Range |
| 11F13-8 | Power Supply |
| 11F13-9 | Radar Set |
| 11F13-10 | Roll and Pitch |
| 11F13-11 | Intervalometer |
| 11F13-12 | Remote |
| 11F13-13 | Flight Monitor |
| 11F13-14 | Computer |
| 11F13-15 | Remote Controls (Use 11B13-12) |
| 11F13-16 | Automatic Frequency |
| 11F13-17 | Missile |
| 11F13-18 | Altitude |
| 11F13-19 | Selector |
| 11F13-20 | Receiver |
| 11F13-21 | Roll Rate |
| 11F13-22 | Rate of Turn |
| 11F13-23 | Positioning |
| 11F13-24 | Signal |
| 11F13-25 | Intercommunication |
| 11F13-26 | Radio Set |
| 11F13-27 | Alarm |
| 11F13-28 | Coder-Decoder |
| 11F13-29 | System |
| 11F13-30 | Action Range |
| 11F13-31 | Equipment Package |
| 11F13-32 | Laser |
| 11F14 | CONTROLLERS |
| 11F14-2 | Antenna |
| 11F14-3 | Gun Sight |
| 11F14-4 | Thyration |
| 11F14-5 | Altitude Differential |
| 11F14-6 | Missile |
| 11F15 | CONVERTERS AND GENERATORS |
| 11F15-2 | Frequency |
| 11F15-3 | Signal Data |
| 11F15-4 | Angle Data |

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| 11F15-5 | Auto Gain Control, Waveform |
| 11F15-6 | Static |
| 11F16 | CORDS |
| 11F17 | DESICCATORS |
| 11F17-2 | Sight |
| 11F18 | FILTERS AND REACTORS |
| 11F19 | GRIPS |
| 11F19-2 | Ranging Throttle |
| 11F20 | GYROSCOPES |
| 11F21 | HEADS |
| 11F21-2 | Radio Frequency |
| 11F21-3 | Sight |
| 11F21-4 | Optical |
| 11F22 | HORNS |
| 11F22-2 | Antenna |
| 11F23 | INDICATORS |
| 11F23-2 | Cathode Ray |
| 11F23-3 | Meter |
| 11F23-4 | Target |
| 11F24 | INDICATOR CIRCUITS |
| 11F25 | KITS |
| 11F25-2 | Mounting |
| 11F25-3 | Pressurizing |
| 11F25-4 | Suppressor |
| 11F25-5 | Harmonization |
| 11F26 | LINES |
| 11F26-2 | Delay |
| 11F26-3 | Transmission |
| 11F27 | MIXERS |
| 11F27-2 | Duplexer |
| 11F27-3 | Frequency |
| 11F28 | MODULATORS |
| 11F29 | MOTORS |
| 11F29-2 | AC Induction |
| 11F29-3 | Fractional Horsepower |
| 11F29-4 | Direct-Current |
| 11F29-5 | Hydraulic |
| 11F29-6 | Rotating |
| 11F30 | MOTOR GENERATORS |
| 11F30-2 | Amplidyne |
| 11F30-3 | Type PU |
| 11F30-4 | Transformer |
| 11F30-5 | Pulse Sweep |
| 11F30-6 | Amplifier Sweep |
| 11F30-7 | Indicator Sweep |
| 11F30-8 | Pulse Clock |
| 11F30-9 | Radar |
| 11F30-10 | Tachometer |
| 11F30-11 | Induction |
| 11F30-12 | Range Function |
| 11F31 | MOUNTINGS AND MOUNTS |
| 11F32 | PANELS |

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| 11F32-2 | Control |
| 11F32-3 | Test |
| 11F33 | POWER SUPPLIES |
| 11F33-2 | Amplifier |
| 11F33-3 | Computer |
| 11F33-4 | Indicator |
| 11F33-5 | Low Voltage |
| 11F33-6 | Type E-9 |
| 11F33-7 | Track |
| 11F33-8 | Search |
| 11F33-9 | Precision |
| 11F33-10 | High Voltage |
| 11F33-11 | Television |
| 11F33-12 | Transistor |
| 11F33-13 | Control |
| 11F33-14 | Auxiliary |
| 11F33-15 | Multiple Voltage |
| 11F33-16 | Static Voltage Regulator |
| 11F33-17 | Hydraulic |
| 11F34 | PUMPS |
| 11F35 | RADAR SETS |
| 11F35-2 | Gun Laying |
| 11F35-3 | Search, Navigation |
| 11F35-4 | Track |
| 11F36 | RECEIVER-TRANSMITTERS |
| 11F37 | REGULATORS |
| 11F37-2 | AC Voltage |
| 11F37-3 | DC Voltage |
| 11F37-4 | Flight Control |
| 11F38 | SERVOS |
| 11F38-2 | Range |
| 11F38-3 | Roll |
| 11F39 | SIGHTS |
| 11F39-2 | Automatic Computing |
| 11F39-3 | Compensating |
| 11F39-4 | Non-computing |
| 11F39-5 | Interpupillometer |
| 11F39-6 | Infrared |
| 11F39-7 | Periscope |
| 11F40 | SIGHTING STATIONS |
| 11F40-2 | Hemisphere |
| 11F40-3 | Pedestal |
| 11F40-4 | Periscopic |
| 11F40-5 | Yoke |
| 11F41 | SIMULATORS |
| 11F41-2 | Gun Sight |
| 11F42 | SYNCHRONIZERS |
| 11F43 | TEST SETS (Use 33D5) |
| 11F44 | TRANSFORMERS |
| 11F44-2 | Power |
| 11F44-3 | Pulse |
| 11F44-4 | Synchronizer |

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| 11F45 | TRANSMITTERS |
| 11F45-2 | Radar |
| 11F45-3 | Pressure |
| 11F45-4 | Radio |
| 11F45-5 | Range |
| 11F45-6 | Bearing |
| 11F46 | TURRETS |
| 11F47 | UNITS |
| 11F47-2 | Range |
| 11F47-3 | Resolver |
| 11F47-4 | Rocket Setting |
| 11F47-5 | Sight Drive |
| 11F47-6 | Sight Selector |
| 11F47-7 | Timer |
| 11F47-8 | Switching |
| 11F47-9 | Radar Indicator |
| 11F47-10 | Electronic Warning |
| 11F47-11 | Television Monitor |
| 11F47-12 | Logic Control |
| 11F47-13 | Display |
| 11F47-14 | Alignment |
| 11F47-15 | Weapons Delivery Control |
| 11F48 | VISORS |
| 11F49 | WAVEGUIDES |
| 11F50 | DETECTORS |
| 11F50-2 | Angle of Attack |
| 11F50-3 | Infrared |
| 11F50-4 | Laser |
| 11F51 | RELAY ASSEMBLIES |
| 11F52 | OSCILLATORS |
| 11F53 | SUPPRESSORS |
| 11F54 | ATTENUATORS |
| 11F55 | RACKS |
| 11F55-2 | Electrical |
| 11F55-3 | Amplifier |
| 11F55-4 | Dehydrator, Filter |
| 11F56 | POTENTIOMETERS |
| 11F56-2 | Radar Equipment |
| 11F57 | TRANSDUCERS |
| 11F57-2 | Pressure |
| 11F58 | CABINETS |
| 11F58-2 | Utility |
| 11F59 | HEATERS |
| 11F59-2 | Cabinet |
| 11F60 | POINTERS |
| 11F60-2 | Line of Sight |
| 11F61 | COLUMNS |
| 11F61-2 | Control |
| 11F62 | COMPENSATORS |
| 11F62-2 | Angle of Attack |
| 11F63 | COUPLERS |
| 11F64 | ADAPTERS (Use 11F3) |

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| 11F65 | WIND DIRECTION SETS |
| 11F66 | FIGHTER MISSILE SYSTEMS |
| 11F67 | BOOSTERS |
| 11F68 | VALVES |
| 11F69 | RECEIVERS |
| 11F70 | TUNERS |
| 11F71 | RESOLVERS |
| 11F72 | MECHANISMS |
| 11F73 | TELEVISION CAMERAS |
| 11F74 | HANDLES |
| 11F75 | TELEVISION SYSTEMS |
| 11F76 | MEMORY DEVICES |
| 11F76-2 | Register |
| 11F76-3 | Drum |
| 11F77 | ELECTRONIC CLUTTER SETS |
| 11F78 | BARORESISTOR |
| 11F79 | COMPARATORS |
| 11F80 | DUCT ASSEMBLIES |
| 11F81 | SWITCHES |
| 11F81-2 | Electronic |
| 11F81-3 | Relay |
| 11F81-4 | Radio |
| 11F81-5 | Pressure |
| 11F81-6 | Waveguide |
| 11F82 | METERS |
| 11F83 | CLUTCHES |
| 11F84 | DEMODULATORS |
| 11F85 | EVALUATORS |
| 11F86 | PHOTOGRAPHIC RECORDERS |
| 11F87 | SELECTORS |
| 11F87-2 | Target |
| 11F88 | MANIFOLDS |
| 11F89 | CODER-DECODERS |
| 11F90 | DRIVE ASSEMBLIES |
| 11F91 | ISOLATORS |
| 11F92 | BOTTLE ASSEMBLIES |
| 11F93 | TANKS |
| 11F94 | HOSES |
| 11F95 | SEALS |
| 11F96 | CARTRIDGES |
| 11F96-2 | Toss Bomb Computer |
| 11F97 | PROGRAMMERS (See 11F9 also) |
| 11F98 | DISPLAY SETS |
| 11F99 | TRACKING SETS |
| 11F100 | PLOTTING BOARDS |
| 11F101 | PROCESSORS |
| 11G | GUIDANCE AND CONTROL SYSTEMS AND EQUIPMENT |
| 11G1 | CONTROL SYSTEMS |
| 11G1-2 | System |
| 11G1-3 | Flight Control |
| 11G2 | GUIDANCE SYSTEMS |
| 11G2-2 | System |

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| 11G2-3 | Control, Technical |
| 11G2-4 | Forward Emanating |
| 11G2-5 | Midcourse |
| 11G2-6 | Nonemanating |
| 11G2-7 | Full Course |
| 11G2-8 | Mark I |
| 11G2-9 | Airborne |
| 11G2-10 | Inertial |
| 11G3 | WARHEAD TRANSPORT VEHICLE (Do not use - See 36A11) |
| 11G4 | OPTICAL-MECHANICAL ELECTRONIC |
| 11G5 | BOX ASSEMBLIES |
| 11G5-2 | Junction |
| 11G5-3 | Control |
| 11G6 | COMPUTERS |
| 11G6-2 | Digital |
| 11G6-3 | Electronic |
| 11G6-4 | Gyro |
| 11G6-5 | Velocity |
| 11G6-6 | Signal |
| 11G6-7 | Transverse |
| 11G6-8 | Elevation |
| 11G7 | CONTROLS |
| 11G7-2 | Surface |
| 11G7-3 | Arming |
| 11G7-4 | Tracker |
| 11G7-5 | Bank Angle |
| 11G7-6 | Nozzle |
| 11G7-7 | Guided Bomb |
| 11G8 | AMPLIFIERS |
| 11G8-2 | Signal |
| 11G8-3 | Control |
| 11G8-4 | Astrotracker |
| 11G8-5 | Platform |
| 11G8-6 | Digital |
| 11G8-7 | Electronic Control |
| 11G8-8 | Magnetic |
| 11G8-9 | Power |
| 11G8-10 | Servo |
| 11G8-11 | Preamplifiers |
| 11G9 | POWER SUPPLIES |
| 11G9-2 | Electrical |
| 11G9-3 | Pneumatic |
| 11G9-4 | Hydraulic |
| 11G10 | PLATFORMS |
| 11G10-2 | Scanner |
| 11G10-3 | Stable |
| 11G10-4 | Sensing |
| 11G11 | GYROSCOPES |
| 11G11-2 | Inertial |
| 11G11-3 | Vertical |
| 11G11-4 | Rate |
| 11G12 | ACTUATOR (PACKAGE) ASSEMBLIES |

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| 11G12-2 | Not Used |
| 11G12-3 | Elevon |
| 11G12-4 | Stabilizer |
| 11G12-5 | Spoiler |
| 11G13 | OPERATING MECHANISMS |
| 11G13-2 | Spoiler |
| 11G14 | INSTRUMENTS |
| 11G14-2 | Range Safety |
| 11G14-3 | Inertial |
| 11G14-4 | Accelerometer |
| 11G15 | GIMBAL ASSEMBLIES |
| 11G16 | SWITCH ASSEMBLIES |
| 11G17 | RACKS |
| 11G17-2 | Electrical |
| 11G17-3 | Electronic |
| 11G18 | PANELS |
| 11G18-2 | Electrical |
| 11G19 | CELESTIAL NAVIGATION |
| 11G19-2 | Astrotrackers |
| 11G20 | CONVERTERS |
| 11G21 | PROGRAMMERS |
| 11G22 | UNITS |
| 11G22-2 | Transfer |
| 11G22-3 | Flight Control (Use 11G1) |
| 11G22-4 | Measurement |
| 11G22-5 | Processor, Distributor |
| 11G22-6 | Regulator |
| 11G22-7 | Station Program |
| 11G23 | FANS AND BLOWERS |
| 11G23-2 | Blower |
| 11G24 | GENERATORS |
| 11G24-2 | Tracking |
| 11G24-3 | Motor |
| 11G24-4 | Pulse |
| 11G24-5 | Signal |
| 11G25 | REGULATING DEVICES |
| 11G25-2 | Voltage |
| 11G25-3 | Chronometers |
| 11G26 | RECEIVERS AND TRANSMITTERS |
| 11G26-2 | Data |
| 11G27 | SERVOS |
| 11G28 | TIMER ASSEMBLIES |
| 11G29 | REFERENCES |
| 11G29-2 | 3-Axis |
| 11G30 | RELAYS |
| 11G31 | REGISTER ASSEMBLIES |
| 11G31-2 | Servo Trim |
| 11G32 | DETECTORS |
| 11G33 | MODULE ASSEMBLIES |
| 11G34 | DISCRIMINATORS |
| 11G35 | SIGNAL CONDITIONERS |
| 11G36 | OSCILLATORS |

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| 11G37 | DISTRIBUTION ASSEMBLIES |
| 11G38 | TRANSDUCERS |
| 11G39 | CABLE ASSEMBLIES |
| 11G40 | CHASSIS ASSEMBLIES |
| 11G41 | INTERCONNECT ASSEMBLIES |
| 11G42 | CIRCUIT CARD ASSEMBLIES |
| 11G43 | TARGET DETECTING DEVICES |
| 11H | HAZARD DETECTING EQUIPMENT |
| 11H1 | BIOLOGICAL DETECTING EQUIPMENT |
| 11H2 | CHEMICAL DETECTING EQUIPMENT |
| 11H3 | MINE DETECTING EQUIPMENT |
| 11H4 | RADIOLOGICAL DETECTING EQUIPMENT |
| 11H4-2 | Radiac |
| 11H4-3 | Computer Indicator |
| 11H4-4 | Counter |
| 11H4-5 | Densitometer |
| 11H4-6 | Dosimeter |
| 11H4-7 | Meter |
| 11H4-8 | Radioactive Test Sample |
| 11H4-9 | Container |
| 11H4-10 | Vapotester |
| 11H4-11 | Monitor |
| 11H5 | INDUSTRIAL HAZARDS DETECTING EQUIPMENT |
| 11K | GUIDED GLIDE WEAPONS |
| 11K1 | AIR LAUNCHED |
| 11K2 | GUIDED BOMBS, TYPE GBU-2 |
| 11K10 | GUIDED BOMBS, TYPE GBU-10 |
| 11K15 | GUIDED BOMBS, TYPE GBU-15 |
| 11K20 | GUIDED BOMBS, TYPE GBU-20, -22, AND -24 |
| 11K25 | GUIDED BOMBS, TYPE GBU-27/B |
| 11K28 | GUIDED BOMBS, TYPE GBU-28A/B |
| 11K31 | GUIDED BOMBS, TYPE GBU-31 |
| 11K36 | GUIDED BOMBS, TYPE GBU-36 |
| 11L | LAUNCHERS AND EQUIPMENT |
| 11L1 | AIRBORNE LAUNCHERS |
| 11L1-2 | Missile |
| 11L1-3 | Rocket |
| 11L1-4 | Dispensing |
| 11L1-5 | Flare |
| 11L1-6 | Multi-Purpose |
| 11L2 | GROUND LAUNCHERS |
| 11L2-2 | Grenade |
| 11L2-3 | Missile |
| 11L2-4 | Rocket |
| 11L2-5 | Rotary |
| 11L3 | CONTROLS |
| 11L3-2 | Projector Release |
| 11L3-3 | Missile Launcher |
| 11L4 | MOUNTS |
| 11LA | ASSOCIATED EQUIPMENT |
| 11LA1 | TABLES |
| 11LA1-2 | Firing |

| | |
|-----------|--|
| 11LA2 | CYLINDERS |
| 11LA3 | HOISTS |
| 11LA4 | GENERATORS |
| 11LA5 | EJECTORS |
| 11LA6 | ROCKET RACKS |
| 11LA7 | POWER SUPPLIES |
| 11LA8 | ADAPTERS |
| 11LA9 | STATIONS |
| 11LA10 | CABLES |
| 11LA11 | CHASSIS ASSEMBLIES |
| 11LA12 | RELAY ASSEMBLIES |
| 11LA13 | SWITCHING UNITS |
| 11LA14 | LAUNCHER ROTATION TOOLS |
| 11LA15 | MISCELLANEOUS SUPPORT EQUIPMENT |
| 11N | NUCLEAR WEAPONS AND EQUIPMENT |
| 11N-1- | RESERVED |
| 11N-2- | RESERVED |
| 11N-4- | RESERVED |
| 11N-5- | RESERVED |
| 11N-20- | RESERVED |
| 11N-35- | RESERVED |
| 11N-40- | RESERVED |
| 11N-45- | RESERVED |
| 11N-50- | RESERVED |
| 11N-60- | RESERVED |
| 11N-100- | RESERVED |
| 11N-B | RESERVED |
| 11N-C | COMPLEMENTS |
| 11N-CRV | COMPLEMENTS-REENTRY VEHICLE |
| 11N-DE | RESERVED |
| 11N-H | RESERVED |
| 11N-HRV | HEADLIGHT EQUIPMENT-REENTRY VEHICLE |
| 11N-L | LAUNCHERS |
| 11N-PRV | PRACTICE REENTRY VEHICLE |
| 11N-PW | PRACTICE WARHEADS |
| 11N-RS | REENTRY SYSTEMS |
| 11N-RS12 | MK12 REENTRY SYSTEM |
| 11N-RS133 | MMIII REENTRY SYSTEM |
| 11N-RS21 | MK21 REENTRY SYSTEM |
| 11N-RV | REENTRY VEHICLES |
| 11N-RV12 | MK12 REENTRY VEHICLE |
| 11N-RV21 | MK21 REENTRY VEHICLE |
| 11N-T | RESERVED |
| 11N-TRV | TEST EQUIPMENT, REENTRY VEHICLES |
| 11N-U | RESERVED |
| 11N-UC | RESERVED |
| 11N-UW | RESERVED |
| 11P | EGRESS SYSTEMS, EXPLOSIVE DEVICES, AND EQUIPMENT |
| 11P1 | CATAPULTS |
| 11P2 | EJECTORS |
| 11P3 | INITIATORS AND TIMERS |
| 11P3-2 | Delay |

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| | |
|---------|--|
| 11P3-3 | Instant |
| 11P4 | REMOVERS (CANOPY) |
| 11P5 | SQUIBS AND BLASTING CAPS |
| 11P6 | THRUSTERS |
| 11P7 | CARTRIDGES |
| 11P8 | FIRING MECHANISMS |
| 11P9 | GENERATORS, MOTORS, ACTUATORS |
| 11P10 | RETRACTORS |
| 11P11 | BOOMS |
| 11P12 | CUTTERS AND BOLTS |
| 11P13 | TRANSMITTERS |
| 11P14 | INERTIAL REELS |
| 11P15 | DEPLOYMENT GUNS (DROGUE GUN) |
| 11P16 | FUSES |
| 11P17 | LEAD ASSEMBLIES |
| 11P18 | MANIFOLDS |
| 11P19 | EXPLOSIVE KITS |
| 11P20 | SINGLE POINT HARNESS RELEASES |
| 11P21 | SEVERANCE SYSTEMS |
| 11P22 | SEQUENCE SELECTORS |
| 11R | MISSILE RE-ENTRY VEHICLES AND EQUIPMENT (Do not use) |
| 11W | WEAPONS AND EQUIPMENT |
| 11W1 | AIRBORNE WEAPONS AND EQUIPMENT |
| 11W1-2 | Adapter |
| 11W1-3 | Booster |
| 11W1-4 | Charger |
| 11W1-5 | Chute |
| 11W1-6 | Container |
| 11W1-7 | Feeder |
| 11W1-8 | Gauge |
| 11W1-9 | Generator |
| 11W1-10 | Grip |
| 11W1-11 | Heater |
| 11W1-12 | Heavy Caliber Gun |
| 11W1-13 | Light Caliber Gun |
| 11W1-14 | Machine |
| 11W1-15 | Mount |
| 11W1-16 | Pyrotechnic |
| 11W1-17 | Solenoid |
| 11W1-18 | Switch |
| 11W1-19 | Synchronizer |
| 11W1-20 | Tool (Breech Block Unlocking) |
| 11W1-21 | Valve |
| 11W1-22 | Winder-Feeder |
| 11W1-23 | Recoil |
| 11W1-24 | Charger |
| 11W1-25 | Rack |
| 11W1-26 | Tool (Ammo Reel Loading) |
| 11W1-27 | Control |
| 11W1-28 | Gun Drive |
| 11W1-29 | Assembly |
| 11W1-30 | Counter |

| | |
|----------|---------------------------------------|
| 11W1-31 | Armament Pod |
| 11W1-32 | Armament Module |
| 11W1-33 | Armament System |
| 11W1-34 | Armament Kit |
| 11W1-35 | Drum Drive |
| 11W1-36 | Lubricator |
| 11W1-37 | Expended Case Bin |
| 11W2 | GROUND WEAPONS AND EQUIPMENT |
| 11W2-2 | Activator |
| 11W2-3 | Bayonet and Knife |
| 11W2-4 | Clinometer |
| 11W2-5 | Heavy Caliber Gun |
| 11W2-6 | Light Caliber Gun |
| 11W2-7 | Machines, Repositioning- and Linking- |
| 11W2-8 | Mount |
| 11W2-9 | Pyrotechnic |
| 11W2-10 | Quadrant |
| 11W2-11 | Self-Propelled |
| 11W2-12 | Rack |
| 11W2-13 | Sight |
| 11W2-14 | Slide Rule |
| 11W2-15 | Sniperscope |
| 11W2-16 | Solenoid |
| 11W2-17 | Adapter |
| 11W2-18 | Director |
| 11W3 | SMALL ARMS |
| 11W3-2 | Carbine |
| 11W3-3 | Pistol |
| 11W3-3-2 | .22 Caliber |
| 11W3-3-3 | .45 Caliber |
| 11W3-3-4 | 9MM |
| 11W3-4 | Revolver |
| 11W3-4-2 | .38 Caliber |
| 11W3-4-3 | .45 Caliber |
| 11W3-5 | Rifle |
| 11W3-5-2 | .22 Caliber |
| 11W3-5-3 | .30 Caliber |
| 11W3-5-4 | 7.62MM |
| 11W3-5-5 | 5.56MM |
| 11W3-6 | Shotgun |
| 11W3-6-2 | 12-Gauge |
| 11W3-6-3 | 16-Gauge |
| 11W3-7 | Submachine Gun |
| 11W3-8 | Line Throwing Gun |
| 11W3-9 | Grenade Launcher |
| 11WA | WEAPONS ASSOCIATED EQUIPMENT |
| 11WA1 | FIRING TABLES |
| 11WA1-2 | Heavy Caliber |
| 11WA1-3 | Light Caliber |
| 11WA1-4 | Mortar |
| 11WA1-5 | Rifle |
| 11WA2 | CAMOUFLAGE EQUIPMENT |

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11WA3

POWER UNIT

CHAPTER 15

CATEGORY 12 - AIRBORNE ELECTRONIC EQUIPMENT

15.1 GENERAL.

Much of the equipment covered by TOs in this category is identified under the Joint Electronics Type Designation System (JETDS). The JETDS, formerly known as the AN nomenclature system, is described in MIL-STD-196.

15.1.1 Primary Systems. Category 12 contains seven primary airborne electronic equipment systems. These systems are divided into equipment series and further divided into equipment subseries within each equipment series. TO numbers in Category 12 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 15.2.

15.1.2 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

15.1.3 Multiple Equipment. Information relating to more than one equipment series is numbered in the system general series.

15.1.4 JETDS TOs. General TOs for JETDS equipment are described in Paragraph 1.19.

15.2 NUMBERING PATTERNS.

15.2.1 Group One. This group has three parts identifying the category, system and equipment series within the system.

15.2.1.1 Part one is always the numeric 12 identifying Category 12.

15.2.1.2 Part two is an alpha character identifying the electronic system, i.e., A - synchros and resolvers; C - crystal units; M - meteorological equipment; P - radar equipment; R - radio equipment; and S - special electronic equipment.

15.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series is outlined in Paragraph 15.4.

15.2.2 Group Two. TO numbering patterns in Category 12 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following explains both numbering patterns:

15.2.2.1 If the equipment types are JETDS nomenclatured, only three basic groups are used in the TO number. The numeric 2 followed immediately by an alphameric JETDS nomenclature comprises group two.

15.2.2.2 If the equipment types are Signal Corps nomenclatured, three basic groups are used in the TO number. The numeric 3 followed immediately by an alphameric Signal Corps nomenclature comprises group two.

15.2.2.3 If the equipment types are Air Force nomenclatured, three basic groups are used in the TO number. The numeric 5 followed immediately by an alphameric AF nomenclature comprises group two.

15.2.2.4 Where the equipment types are commercially nomenclatured, four basic groups are used in the TO number and the numeric 4 is the only character in group two.

15.2.3 Group Three.

15.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 12:

-06 Work Unit Code Manuals
-07 thru -09 Reserved

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- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests
- 9 Alignment Manuals

15.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 12:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

15.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific equipment or components. When this occurs the specific types of TOs are then identified in group four.

15.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 15.2.3.1, above.

15.3 EXAMPLES OF CATEGORY 12 NUMBERING PATTERNS.

15.3.1 Example One. A service instruction manual with illustrated parts breakdown for a radiosonde receiver, model RC-1074:

12M1-4-9-2
12 Category 12
M Meteorological Equipment
1 Auxiliary Equipment Series
4 Identifies Commercial Data
9 Represents Model RC-1074
2 Number Reserved for Service Instruction

15.3.2 Example Two. Illustrated parts breakdown for a terrain following radar set, type AN/APQ-128:

12P2-2APQ128-34
12 Category 12
P Radar Equipment
2 Control Equipment Series
2 JETDS Nomenclature Equipment
APQ128 Identifies Specific Terrain Following Radar Set
34 Number Reserved for Illustrated Parts Breakdown

15.3.3 Example Three. Operating and maintenance instructions with illustrated parts breakdown for electronic counter-measure set, type QRC-128A(T):

12P3-5QRC128-1
12 Category 12
P Radar Electronic Equipment

| | |
|--------|---|
| 3 | Electronic Countermeasure Series |
| 5 | JETDS Nomenclature Equipment |
| QRC128 | Identifies Specific Electronic Countermeasure Set |
| 1 | Number Reserved for Operating Instructions |

15.3.4 Example Four. Operating and maintenance instructions and illustrated parts breakdown for an airborne radio set, type AN/ARC-59:

| | |
|---------------|--|
| 12R2-2ARC59-1 | |
| 12 | Category 12 |
| R | Radio Equipment |
| 2 | Communication Series |
| 2 | JETDS Nomenclature Equipment |
| ARC59 | Identifies a Specific Radio Set |
| 1 | Number Reserved for Operating Instructions |

15.4 CATEGORY 12 NUMBERING SERIES.

| | |
|--------|---|
| 12 | AIRBORNE-ELECTRONIC EQUIPMENT |
| 12A | SYNCHRONIZERS AND RESOLVERS |
| 12A1 | SYNCHRONIZERS |
| 12A2 | RESOLVERS |
| 12C | CRYSTAL UNITS |
| 12M | METEOROLOGICAL-ELECTRONIC EQUIPMENT, AIRBORNE |
| 12M1 | AUXILIARY EQUIPMENT |
| 12M1-2 | JETDS Nomenclature |
| 12M1-3 | Signal Corps Nomenclature |
| 12M1-4 | Commercial Nomenclature |
| 12M1-5 | AF Nomenclature |
| 12M2 | BAROMETRIC |
| 12M2-2 | JETDS Nomenclature |
| 12M2-3 | Signal Corps Nomenclature |
| 12M2-4 | Commercial Nomenclature |
| 12M2-5 | AF Nomenclature |
| 12M3 | TEMPERATURE AND HUMIDITY |
| 12M3-2 | JETDS Nomenclature |
| 12M3-3 | Signal Corps Nomenclature |
| 12M3-4 | Commercial Nomenclature |
| 12M3-5 | AF Nomenclature |
| 12M4 | WIND DIRECTION AND VELOCITY |
| 12M4-2 | JETDS Nomenclature |
| 12M4-3 | Signal Corps Nomenclature |
| 12M4-4 | Commercial Nomenclature |
| 12M4-5 | AF Nomenclature |
| 12M5 | ATMOSPHERIC RESEARCH |
| 12M5-2 | JETDS Nomenclature |
| 12M5-3 | Signal Corps Nomenclature |
| 12M5-4 | Commercial Nomenclature |
| 12M5-5 | AF Nomenclature |
| 12P | RADAR-ELECTRONIC EQUIPMENT |
| 12P1 | AUXILIARY EQUIPMENT |

| | |
|--------|--------------------------------------|
| 12P1-2 | JETDS Nomenclature |
| 12P1-3 | Signal Corps Nomenclature |
| 12P1-4 | Commercial Nomenclature |
| 12P1-5 | AF Nomenclature |
| 12P2 | CONTROLS |
| 12P2-2 | JETDS Nomenclature |
| 12P2-3 | Signal Corps Nomenclature |
| 12P2-4 | Commercial Nomenclature |
| 12P2-5 | AF Nomenclature |
| 12P3 | ELECTRONIC COUNTERMEASURES |
| 12P3-2 | JETDS Nomenclature |
| 12P3-3 | Signal Corps Nomenclature |
| 12P3-4 | Commercial Nomenclature |
| 12P3-5 | AF Nomenclature |
| 12P4 | IFF |
| 12P4-2 | JETDS Nomenclature |
| 12P4-3 | Signal Corps Nomenclature |
| 12P4-4 | Commercial Nomenclature |
| 12P4-5 | AF Nomenclature |
| 12P5 | NAVIGATION |
| 12P5-2 | JETDS Nomenclature |
| 12P5-3 | Signal Corps Nomenclature |
| 12P5-4 | Commercial Nomenclature |
| 12P5-5 | AF Nomenclature |
| 12P6 | SEARCH AND HEIGHT FINDING |
| 12P6-2 | JETDS Nomenclature |
| 12P6-3 | Signal Corps Nomenclature |
| 12P6-4 | Commercial Nomenclature |
| 12P6-5 | AF Nomenclature |
| 12R | RADIO-ELECTRONIC EQUIPMENT, AIRBORNE |
| 12R1 | AUXILIARY EQUIPMENT |
| 12R1-2 | JETDS Nomenclature |
| 12R1-3 | Signal Corps Nomenclature |
| 12R1-4 | Commercial Nomenclature |
| 12R1-5 | AF Nomenclature |
| 12R2 | COMMUNICATIONS |
| 12R2-2 | JETDS Nomenclature |
| 12R2-3 | Signal Corps Nomenclature |
| 12R2-4 | Commercial Nomenclature |
| 12R2-5 | AF Nomenclature |
| 12R3 | CONTROLS |
| 12R3-2 | JETDS Nomenclature |
| 12R3-3 | Signal Corps Nomenclature |
| 12R3-4 | Commercial Nomenclature |
| 12R3-5 | AF Nomenclature |
| 12R4 | ELECTRONIC COUNTERMEASURES |
| 12R4-2 | JETDS Nomenclature |
| 12R4-3 | Signal Corps Nomenclature |
| 12R4-4 | Commercial Nomenclature |
| 12R4-5 | AF Nomenclature |
| 12R5 | NAVIGATION |
| 12R5-2 | JETDS Nomenclature |

| | |
|---------|--------------------------------|
| 12R5-3 | Signal Corps Nomenclature |
| 12R5-4 | Commercial Nomenclature |
| 12R5-5 | AF Nomenclature |
| 12R6 | RELAY |
| 12R7 | DRONE MISSILE |
| 12S | SPECIAL-ELECTRONIC EQUIPMENT |
| 12S1 | AUXILIARY |
| 12S1-2 | JETDS Nomenclature |
| 12S1-3 | Signal Corps Nomenclature |
| 12S1-4 | Commercial Nomenclature |
| 12S1-5 | AF Nomenclature |
| 12S2 | DATA PROCESSING |
| 12S2-2 | JETDS Nomenclature |
| 12S2-3 | Signal Corps Nomenclature |
| 12S2-4 | Commercial Nomenclature |
| 12S2-5 | AF Nomenclature |
| 12S3 | LIGHT OR HEAT |
| 12S4 | MAGNETIC |
| 12S5 | RECORDING |
| 12S5-2 | JETDS Nomenclature |
| 12S5-3 | Signal Corps Nomenclature |
| 12S5-4 | Commercial Nomenclature |
| 12S5-5 | AF Nomenclature |
| 12S6 | TELEVISION |
| 12S6-2 | JETDS Nomenclature |
| 12S6-3 | Signal Corps Nomenclature |
| 12S6-4 | Commercial Nomenclature |
| 12S6-5 | AF Nomenclature |
| 12S7 | TELEMETERING |
| 12S7-2 | JETD5 Nomenclature |
| 12S7-3 | Signal Corps Nomenclature |
| 12S7-4 | Commercial Nomenclature |
| 12S7-5 | AF Nomenclature |
| 12S8 | TAPEWRITERS |
| 12S9 | MISSILE OFFENSIVE SYSTEMS |
| 12S10 | NIGHT VISION |
| 12S10-2 | JETDS Nomenclature |
| 12S10-3 | Signal Corps Nomenclature |
| 12S10-4 | Commercial Nomenclature |
| 12S10-5 | AF Nomenclature |
| 12S11 | HELMET MOUNTED CUEING SYSTEM |
| 12S11-2 | JETDS |
| 12S11-3 | Signal Corps |
| 12S11-4 | Commercial |
| 12S11-5 | AF Nomenclature |
| 12S12 | SECURE COMMUNICATION EQUIPMENT |
| 12S12-2 | JETDS Nomenclature |
| 12S12-3 | Signal Corp Nomenclature |
| 12S12-4 | Commercial Nomenclature |

CHAPTER 16

CATEGORY 13 - AIRCRAFT FURNISHINGS AND IN-FLIGHT FEEDING EQUIPMENT, CARGO LOADING, AERIAL DELIVERY AND RECOVERY EQUIPMENT, AIRCRAFT FIRE DETECTION AND EXTINGUISHING EQUIPMENT

16.1 GENERAL.

Category 13 contains five primary systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 13 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 16.2.

16.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

16.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

16.2 NUMBERING PATTERNS.

16.2.1 Group One. This group has three parts identifying the category, system and equipment series within the system.

16.2.1.1 Part one is always the numeric 13 identifying Category 13.

16.2.1.2 Part two is an alpha character identifying the system, i.e., A - aircraft furnishings; B - in-flight feeding equipment; C - cargo loading, tiedown and aerial delivery equipment; D - recovery equipment; and F - aircraft fire detection and extinguishing equipment.

16.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series is outlined in Paragraph 16.4.

16.2.2 Group Two. TO numbering patterns in Category 13 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

16.2.2.1 If the TO number uses only three basic groups, group two has one or more numeric characters representing the model, type or PN assigned to specific components.

16.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

16.2.3 Group Three.

16.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 13:

| | |
|-----|--|
| -06 | Work Unit Code Manuals |
| -07 | thru -09 Reserved |
| -1 | Operating Instructions |
| -2 | Service or Maintenance Manuals |
| -3 | Depot Maintenance or Overhaul Instructions |
| -4 | Illustrated Parts Breakdown |
| -6 | Inspection Requirements |
| -7 | Installation Instructions |

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16.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 13:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

16.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific components.

16.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 16.2.3.1, above.

16.3 EXAMPLES OF CATEGORY 13 NUMBERING PATTERNS.

16.3.1 Example One. An operation and service instruction manual for a food warming oven, model 200:

13B1-8-1
13 Category 13
B In-Flight Feeding Equipment
1 Food Warming Ovens
8 Represents Model 200
1 Number Reserved for Operating Instructions

16.3.2 Example Two. An operating and maintenance manual for a cargo restraint barrier, type HBU-8/A:

13C2-5-1
13 Category 13
C Cargo Loading Equipment
2 Cargo Tiedown Devices
5 Represents Type HBU-8/A
1 Number Reserved for Operating Instructions

16.3.3 Example Three. Overhaul instructions with illustrated parts breakdown for an aircraft fire extinguisher, PN 7720082-101:

13F3-4-13
13 Category 13
F Aircraft Fire Detecting and Extinguishing Equipment
3 Fixed Extinguishing System Series
4 Represents PN 7720082-101
13 Number Reserved for Overhaul Instructions

16.4 CATEGORY 13 NUMBERING SERIES.

13 AIRCRAFT FURNISHINGS AND IN-FLIGHT FEEDING EQUIPMENT, CARGO LOADING,
 AERIAL DELIVERY AND RECOVERY EQUIPMENT, AIRCRAFT FIRE DETECTION AND
 EXTINGUISHING EQUIPMENT
13A AIRCRAFT FURNISHINGS
13A1 BELTS, SAFETY AND SHOULDER HARNESSSES
13A2 PERSONNEL RELIEF FACILITIES
13A3 KITS, FIRST-AID

| | |
|---------|---|
| 13A4 | REELS, LOCKING, AIRCRAFT SEAT |
| 13A5 | EJECTION SEATS |
| 13A6 | ADJUSTABLE SEATS |
| 13A7 | TAIL GUNNER SEATS |
| 13A8 | EJECTION SEAT GUIDE RAILS AND TRACK ASSEMBLIES |
| 13A9 | COVERS |
| 13A9-2 | Canopy |
| 13A9-3 | Nose cap |
| 13A9-4 | Blade |
| 13A9-5 | Pod |
| 13A9-6 | Engine Shield |
| 13A10 | GUARDS AND SEALS |
| 13A10-2 | Engine |
| 13A10-3 | Escape Capsule System |
| 13A11 | ASTRODOMES |
| 13A12 | DISCONNECT ASSEMBLIES |
| 13A13 | VALVES |
| 13A14 | DEVICES |
| 13A15 | CONTAINERS |
| 13A16 | HEADREST ASSEMBLIES |
| 13A17 | STABILIZERS |
| 13A18 | STRAP ASSEMBLIES |
| 13A19 | SLIDE ASSEMBLIES |
| 13A20 | PLUMBING FIXTURES |
| 13A21 | SENSORS |
| 13A22 | COMPACTORS |
| 13A23 | TABLES |
| 13B | IN-FLIGHT FEEDING EQUIPMENT |
| 13B1 | FOOD WARMING OVENS |
| 13B2 | FOOD STORAGE UNITS |
| 13B3 | TEMPERATURE CONTROL REGULATORS |
| 13B4 | BUFFETS |
| 13B5 | REFRIGERATORS |
| 13B6 | BEVERAGE UNITS |
| 13B7 | WATER COOLERS |
| 13B8 | MOTORS AND PUMPS |
| 13C | CARGO LOADING, TIEDOWN, AND AERIAL DELIVERY EQUIPMENT |
| 13C1 | HOISTS AND CRANES |
| 13C2 | CARGO TIEDOWN DEVICES |
| 13C3 | AERIAL DELIVERY SYSTEMS |
| 13C3-2 | Monorail |
| 13C3-3 | Center Guide Rail |
| 13C3-4 | Dual Rail |
| 13C4 | CONTAINERS, AERIAL-DELIVERY |
| 13C5 | PARACHUTES, AERIAL-DELIVERY |
| 13C6 | PARACHUTES AND CARGO DISCHARGERS |
| 13C7 | AERIAL DELIVERY KITS |
| 13C7-1 | Rigging |
| 13C7-2 | Truck |
| 13C7-3 | Trailer |
| 13C7-4 | Motor |
| 13C7-5 | Welding Set |

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| | |
|---------|---------------------------------------|
| 13C7-6 | Tractor |
| 13C7-7 | Water Purification Equipment |
| 13C7-8 | Electric Tool Set |
| 13C7-9 | Shelter |
| 13C7-10 | Infantry Weapon |
| 13C7-11 | Bridge |
| 13C7-12 | Rocket System |
| 13C7-13 | Reeling Machine |
| 13C7-14 | Radio Set |
| 13C7-15 | Air Compressor |
| 13C7-16 | Weapon Carrier |
| 13C7-17 | Water Tank |
| 13C7-18 | Ammunition |
| 13C7-19 | Rations, Petroleum, Oil and Lubricant |
| 13C7-20 | Spat Gun |
| 13C7-21 | Rotary Tiller |
| 13C7-22 | Missile, Rocket |
| 13C7-23 | Beacon Light |
| 13C7-24 | Crane |
| 13C7-25 | Ambulance |
| 13C7-26 | Road Roller |
| 13C7-27 | Scraper, Grader |
| 13C7-28 | Boat |
| 13C7-29 | Wrecker |
| 13C7-30 | Army Aircraft (Use 13C7-51) |
| 13C7-31 | Bucket Loader |
| 13C7-32 | Rocket Launcher, Platform |
| 13C7-33 | Mixer |
| 13C7-34 | Medical Supply |
| 13C7-35 | Warhead |
| 13C7-36 | Instrument |
| 13C7-37 | Container |
| 13C7-38 | Transporter |
| 13C7-39 | Bulk Materiel |
| 13C7-40 | Generator Set |
| 13C7-41 | Bath Unit |
| 13C7-42 | Anti-Tank Weapon |
| 13C7-43 | Test Set |
| 13C7-44 | Amp Kit |
| 13C7-45 | M-55 Rocket (Use 13C7-22) |
| 13C7-46 | M-66 Rocket (Use 13C7-22) |
| 13C7-47 | Atomic Weapon |
| 13C7-48 | Radar Set |
| 13C7-49 | Miscellaneous Air Drop |
| 13C7-50 | Airfield Repair Kit |
| 13C7-51 | Army Aircraft |
| 13C7-52 | Platform |
| 13C7-53 | Teletypewriter |
| 13C7-54 | Forklift |
| 13C7-55 | Motorcycle |
| 13C8 | AERIAL PICK UP SYSTEMS |
| 13C9 | CARGO HOOKS |

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| 13C10 | UNLOADING KITS |
| 13C11 | REELS |
| 13C12 | WEIGHT AND BALANCE EQUIPMENT |
| 13C13 | ACTUATORS |
| 13D | RECOVERY EQUIPMENT |
| 13D1 | SPACE VEHICLES |
| 13D2 | AIR-TO-AIR RECOVERY EQUIPMENT |
| 13D3 | GROUND-TO-AIR RECOVERY EQUIPMENT |
| 13F | AIRCRAFT FIRE DETECTION AND EXTINGUISHING EQUIPMENT |
| 13F1 | FIRE DETECTOR SYSTEMS |
| 13F1-2 | Fusible Alloy Detector |
| 13F1-3 | Photoelectric |
| 13F1-4 | Thermocouple |
| 13F1-5 | Probe Detector |
| 13F1-6 | Dual Loop Thermistor |
| 13F2 | SMOKE DETECTORS |
| 13F3 | FIXED EXTINGUISHERS |
| 13F3-2 | Carbon Dioxide |
| 13F3-3 | Methyl Bromide |
| 13F3-4 | Bromochloromethane |
| 13F3-5 | Carbon Tetrachloride |
| 13F3-6 | Water |
| 13F3-7 | Bromotrifluoromethane (Halon 1301) |
| 13F4 | PORTABLE EXTINGUISHERS |
| 13F4-2 | Carbon Dioxide |
| 13F4-3 | Methyl Bromide |
| 13F4-4 | Bromochloromethane |
| 13F4-5 | Carbon Tetrachloride |
| 13F4-6 | Water |
| 13F5 | CONTROL UNITS |
| 13F6 | CONTAINERS, FIRE EXTINGUISHER BOTTLES |
| 13F7 | VALVES |
| 13F8 | RECEPTACLES |
| 13F9 | PANELS |
| 13F10 | DISCS |
| 13F11 | SOLENOIDS |
| 13F12 | REGULATORS |
| 13F13 | PROBE ASSEMBLIES |
| 13F14 | SERVICING UNITS |

CHAPTER 17

CATEGORY 14 - DECELERATION DEVICES, PERSONAL AND SURVIVAL EQUIPMENT

17.1 GENERAL.

Category 14 contains three systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 14 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 17.2.

17.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

17.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

17.2 NUMBERING PATTERNS.

17.2.1 Group One. This group has three parts identifying the category, system and equipment series within the system.

17.2.1.1 Part one is always the numeric 14 identifying Category 14.

17.2.1.2 Part two is an alpha character identifying one of the three systems, i.e., D - deceleration devices; P - personal equipment; and S - survival equipment.

17.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series are outlined in Paragraph 17.4.

17.2.2 Group Two. TO numbering patterns in Category 14 use both three and four groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

17.2.2.1 If the TO number uses only three basic groups, group two has one or more numeric characters representing the model, type or PN assigned to specific components.

17.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case group two identifies the specific equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

17.2.3 Group Three.

17.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 14:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions

17.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 14:

CL - Checklists

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- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

17.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific components.

17.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 17.2.3.1, above.

17.3 EXAMPLES OF CATEGORY 14 NUMBERING PATTERNS.

17.3.1 Example One. Inspection, maintenance and packing instructions for USAF personnel parachute, PN 811058-401:

14D1-2-1-106
14 Category 14
D Deceleration Devices
1 Parachute Series
2 Personnel Subseries
1 Represents PN 811058-401
106 Number Reserved for Inspection Requirements

17.3.2 Example Two. Operations, service and repair instructions for a high altitude helmet, type MA-2:

14P3-4-21
14 Category 14
P Personal Equipment
3 Clothing Series
4 Represents Helmet Type MA-2
21 Number Reserved for Operating Instructions

17.3.3 Example Three. Maintenance manual for seven man life raft, PN D23810-103:

14S3-6-2-2
14 Category 14
S Survival Equipment
3 Life Raft Series
6 Seven Man Series
2 Represents PN D23810-103
2 Number Reserved for Maintenance Instructions

17.4 CATEGORY 14 NUMBERING SERIES.

14 DECELERATION DEVICES, PERSONAL AND SURVIVAL EQUIPMENT
14D DECELERATION DEVICES
14D1 PARACHUTES
14D1-2 Personnel
14D1-3 Drag
14D1-4 Missile Component
14D2 AUTOMATIC RELEASE PARACHUTES
14D3 RECOVERY PARACHUTES
14D4 CARGO

| | |
|---------|------------------------------|
| 14P | PERSONAL EQUIPMENT |
| 14P1 | BAGS |
| 14P2 | BLANKETS |
| 14P3 | CLOTHING |
| 14P3-2 | Boots |
| 14P3-3 | Gloves |
| 14P3-4 | Helmet |
| 14P3-5 | Suit, Anti-Exposure |
| 14P3-6 | Suit, Pneumatic |
| 14P3-7 | Suit and Accessories, Heated |
| 14P3-8 | Suit, Flying Nonheated |
| 14P3-9 | Sun Glasses |
| 14P3-10 | Flying Jackets |
| 14P3-11 | Protective |
| 14P3-12 | Support Pads |
| 14P4 | MASKS, GAS |
| 14P5 | RESPIRATORS |
| 14P6 | ARMOR |
| 14S | SURVIVAL EQUIPMENT |
| 14S1 | KITS, EMERGENCY |
| 14S2 | PRESERVERS, (LIFE JACKETS) |
| 14S2-2 | Vest, Inflated |
| 14S2-3 | Underarm |
| 14S2-4 | Infant Floating Cot |
| 14S3 | RAFTS, LIFE |
| 14S3-2 | One Man |
| 14S3-3 | Four and Six Man |
| 14S3-4 | 20 Man |
| 14S3-5 | 25 Man |
| 14S3-6 | Seven Man |
| 14S3-7 | 46 Man |
| 14S3-8 | 12 Man |
| 14S4 | REPELLANTS-OINTMENTS |
| 14S5 | BREATHING UNITS |
| 14S6 | RESCUE SEATS |
| 14S7 | CONTAINERS (FOOD) |
| 14S8 | FLOTATION ASSEMBLIES (BAG) |
| 14S9 | SKYANCHORS (HOOKS) |
| 14S10 | LIGHTS |
| 14S11 | PUMPS |

CHAPTER 18

CATEGORY 15 - AIRCRAFT AND MISSILE TEMPERATURE CONTROL, PRESSURIZING, AIR-CONDITIONING, HEATING, ICE ELIMINATING AND OXYGEN EQUIPMENT

18.1 GENERAL.

Category 15 contains five systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore, TO numbers in Category 15 use both three and four basic groups for data identification. Numbering patterns for both groups are discussed in Paragraph 18.2.

18.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

18.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

18.2 NUMBERING PATTERNS.

18.2.1 Group One. This group has three parts which identify the category, system, and equipment series within a system.

18.2.1.1 Part one is always the numeric 15 identifying Category 15.

18.2.1.2 Part two is an alpha character identifying one of five systems, i.e., A - air conditioning and pressurizing equipment; E - ice eliminating equipment; H - cabin heating equipment; M - missile temperature control equipment; and X - aircraft oxygen systems and equipment.

18.2.1.3 Part three contains one or more numeric characters identifying an equipment series within the system. The TO numbering series are outlined in Paragraph 18.4.

18.2.2 Group Two. TO numbering patterns in Category 15 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

18.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to a specific component.

18.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

18.2.3 Group Three.

18.2.3.1 If the TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 15:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

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18.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, or supplements. The following alpha characters are authorized for use in Category 15:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

18.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to a specific component.

18.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 18.2.3.1, above.

18.3 EXAMPLES OF CATEGORY 15 NUMBERING PATTERNS.

18.3.1 Example One. Overhaul instructions for an aircraft cabin air pressure regulator, PN 102166-1:

15A1-4-13-3
15 Category 15
A Air-Conditioning and Pressurizing Equipment
1 Regulator Series
4 Air Pressure Regulator Subseries
13 Represents PN 102166-1
3 Number Reserved for Overhaul Instructions

18.3.2 Example Two. An illustrated parts breakdown for a temperature control panel, PN A14A9718:

15E3-2-17-4
15 Category 15
E Ice Eliminating Equipment
3 Control Series
2 Electric Control Subseries
17 Represents PN A14A9718
4 Number Reserved for Illustrated Parts Breakdown

18.3.3 Example Three. Overhaul instructions with parts breakdown for an oxygen breathing mask assembly, PN 249-350:

15X5-4-5-3
15 Category 15
X Aircraft Oxygen Systems and Equipment
5 Oxygen Mask Series
4 Pressure Demand Subseries
5 Represents PN 249-350
3 Number Reserved for Overhaul Instructions

18.4 CATEGORY 15 NUMBERING SERIES.

15 AIRCRAFT AND MISSILE TEMPERATURE CONTROL, PRESSURIZING, AIR-CONDITIONING, HEATING, ICE ELIMINATING, AND OXYGEN EQUIPMENT
15A AIR CONDITIONING AND PRESSURIZING EQUIPMENT
15A-2 Systems

| | |
|---------|--|
| 15A1 | REGULATORS |
| 15A1-2 | Cabin Pressure |
| 15A1-3 | Cabin Temperature |
| 15A1-4 | Air Pressure |
| 15A2 | VALVES |
| 15A2-2 | Shutoff |
| 15A2-3 | Control |
| 15A2-4 | Safety |
| 15A2-5 | Selector |
| 15A2-6 | Mixing |
| 15A2-7 | Pressure Regulator |
| 15A2-8 | Check |
| 15A2-9 | Relief |
| 15A2-10 | Spill |
| 15A2-11 | Dump |
| 15A2-12 | Filter |
| 15A2-13 | By-Pass |
| 15A2-14 | Shuttle |
| 15A2-15 | Slide |
| 15A2-16 | Modulating |
| 15A2-17 | Flood |
| 15A2-18 | Drain |
| 15A3 | REFRIGERATION AND PRESSURIZATION UNITS |
| 15A3-2 | Turbine |
| 15A3-3 | Refrigeration Package |
| 15A3-4 | Fan, Blower |
| 15A4 | INTERCOOLERS (HEAT EXCHANGERS) |
| 15A5 | TEMPERATURE SENSING DEVICES |
| 15A5-2 | Control |
| 15A5-3 | Anticipator |
| 15A5-4 | Thermostat |
| 15A5-5 | Pick-Up Assembly |
| 15A5-6 | Sensor |
| 15A5-7 | Transmitter |
| 15A6 | FILTERS |
| 15A6-2 | High Temperature |
| 15A7 | SEPARATORS |
| 15A7-2 | Air Moisture |
| 15A8 | CONTROLS |
| 15A8-2 | Limit |
| 15A8-3 | Air |
| 15A8-4 | Pressure |
| 15A8-5 | Temperature |
| 15A8-6 | Changer |
| 15A8-7 | Timer |
| 15A8-8 | Selector |
| 15A8-9 | Dive Rate |
| 15A8-10 | Turbine |
| 15A8-11 | Panels |
| 15A9 | PUMPS |
| 15A9-2 | Air Turbine |
| 15A9-3 | Centrifugal |

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| | |
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| 15A10 | LINKAGE ASSEMBLIES |
| 15A10-2 | Air-Conditioning Package Unit |
| 15A11 | SUPERCHARGERS |
| 15A11-2 | Cabin |
| 15A12 | DETECTORS |
| 15A12-2 | Air Flow |
| 15A12-3 | Ice |
| 15A13 | EJECTORS |
| 15A14 | DEHYDRATORS |
| 15A15 | VENTURI TUBES |
| 15A16 | COMPRESSORS |
| 15A17 | ABSORBERS |
| 15A18 | DEHUMIDIFIERS |
| 15A19 | TIRE INFLATION UNITS |
| 15A20 | INDICATORS |
| 15A21 | AIR OUTLETS |
| 15A22 | TRANSDUCERS |
| 15E | ICE ELIMINATING EQUIPMENT |
| 15E1 | PUMPS |
| 15E1-2 | Circulating |
| 15E1-3 | Metering |
| 15E2 | VALVES |
| 15E2-2 | Shutoff |
| 15E2-3 | Selector |
| 15E2-4 | Regulating |
| 15E2-5 | Control |
| 15E2-6 | Relief |
| 15E2-7 | Drain |
| 15E2-8 | By-Pass |
| 15E3 | CONTROLS |
| 15E3-2 | Electric |
| 15E3-3 | Manual |
| 15E3-4 | Air |
| 15E4 | SEPARATORS |
| 15E4-2 | Oil |
| 15E4-3 | Water |
| 15E5 | FILTERS |
| 15E5-2 | Fluid |
| 15E5-3 | Hot Air |
| 15E6 | RESERVOIRS (TANKS) |
| 15E6-2 | Fluid |
| 15E7 | FANS AND BLOWERS |
| 15E7-2 | Nose Radome |
| 15E7-3 | Cockpit Defogging |
| 15E8 | JOINT ASSEMBLIES |
| 15E9 | EJECTORS |
| 15H | CABIN HEATING EQUIPMENT |
| 15H1 | HEATERS |
| 15H1-2 | Combustion |
| 15H1-3 | Electric |
| 15H2 | PUMPS |
| 15H2-2 | Vane |

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| 15H2-3 | Cam |
| 15H2-4 | Air Driven |
| 15H3 | BLOWERS |
| 15H3-2 | Fan |
| 15H4 | IGNITION UNITS |
| 15H4-2 | Vibrator |
| 15H5 | VALVES |
| 15H5-2 | Control |
| 15H5-3 | Butterfly |
| 15H5-4 | Check |
| 15H6 | THERMOSTATS |
| 15H6-2 | Control |
| 15H6-3 | Anticipator |
| 15H6-4 | Fuel |
| 15H6-5 | Air |
| 15H7 | IMPELLERS |
| 15M | MISSILE TEMPERATURE CONTROL EQUIPMENT |
| 15M1 | COOLING SYSTEMS |
| 15M2 | VALVES |
| 15M2-2 | Check |
| 15M2-3 | Control |
| 15M3 | HEAT EXCHANGERS |
| 15M4 | FANS AND BLOWERS |
| 15M5 | CONTROLS |
| 15X | AIRCRAFT OXYGEN SYSTEMS AND EQUIPMENT |
| 15X1 | SUPPLY CYLINDERS |
| 15X1-2 | Low Pressure |
| 15X1-3 | High Pressure |
| 15X1-4 | Emergency Bailout |
| 15X1-5 | Cylinder, Valve Assembly |
| 15X2 | CONVERTERS, LIQUID-OXYGEN |
| 15X2-2 | 5-Liter Capacity |
| 15X2-3 | 25-Liter Capacity |
| 15X2-4 | 8-Liter Capacity |
| 15X2-5 | 20-Liter Capacity |
| 15X2-6 | 10-Liter Capacity |
| 15X2-7 | 75-Liter Capacity |
| 15X2-8 | 15-Liter Capacity |
| 15X3 | GAUGES, OXYGEN |
| 15X3-2 | Gaseous |
| 15X3-2-2 | Low Pressure |
| 15X3-2-3 | High Pressure |
| 15X3-3 | Liquid |
| 15X4 | INDICATORS |
| 15X4-2 | Gaseous Oxygen |
| 15X4-3 | Liquid Oxygen |
| 15X4-4 | Oxygen Deficiency |
| 15X4-5 | Pressure |
| 15X5 | MASKS, OXYGEN |
| 15X5-2 | Continuous Flow |
| 15X5-3 | Demand |
| 15X5-4 | Pressure Demand |

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| | |
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| 15X5-5 | Smoke |
| 15X6 | REGULATORS, OXYGEN FLOW |
| 15X6-2 | Continuous Flow |
| 15X6-3 | Demand |
| 15X6-4 | Manual Pressure Demand |
| 15X6-5 | Automatic Pressure Demand |
| 15X7 | AIRBORNE TEST EQUIPMENT (Do not use) |
| 15X8 | VALVES |
| 15X8-2 | Low Pressure |
| 15X8-3 | High Pressure |
| 15X8-4 | Pressure Reducing Release |
| 15X8-5 | Filler |
| 15X8-6 | Liquid, Buildup, Vent |
| 15X8-7 | Regulating |
| 15X8-8 | Filter |
| 15X8-9 | Check |
| 15X8-10 | Drain |
| 15X8-11 | Shutoff |
| 15X8-12 | Coupling |
| 15X9 | TRANSDUCERS |
| 15X10 | CONTROL PANELS |
| 15X11 | SURVIVAL KITS |
| 15X12 | SEAT PACKS |
| 15X13 | DISCONNECT ASSEMBLIES |
| 15X14 | TRANSMITTERS |
| 15X15 | MANIFOLDS |
| 15X16 | SWITCHES |
| 15X17 | HEAT EXCHANGERS |
| 15X18 | HOSE ASSEMBLIES |
| 15X19 | GENERATORS |
| 15X20 | METERS |
| 15X21 | VENTILATORS |
| 15X22 | SEPARATORS |
| 15X23 | CONTROLLERS |

CHAPTER 19

CATEGORY 16 - AIRBORNE MECHANICAL EQUIPMENT

19.1 GENERAL.

Category 16 contains seven mechanical systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 16 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 19.2.

19.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

19.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

19.2 NUMBERING PATTERNS.

19.2.1 Group One. This group has three parts identifying the category, system, and the equipment series within the system.

19.2.1.1 Part one is always the numeric 16 identifying Category 16.

19.2.1.2 Part two is an alpha character identifying the mechanical systems, i.e., A - actuators; C - control units; G - gear box, drive and screwjack assemblies; K - release mechanisms; L - lock and latching mechanisms; R - regulating mechanisms; and W - structural components. Associated equipment for these systems are identified by adding the alpha A immediately following the mechanical system identifier, e.g., GA.

19.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series are outlined in Paragraph 19.4.

19.2.2 Group Two. TO numbering patterns in Category 16 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

19.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific equipment.

19.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

19.2.3 Group Three.

19.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 16:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 7 Installation Instructions

19.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 16:

CL - Checklists

TO 00-5-18

- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

19.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific components.

19.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 19.2.3.1, above.

19.3 EXAMPLES OF CATEGORY 16 NUMBERING PATTERNS.

19.3.1 Example One. A maintenance manual for a control stick grip, PN 28000-7:

16C1-27-12-12
16 Category 16

1 Control Unit Series
27 Control Stick Subseries
12 Represents PN 28000-7
12 Number Reserved for Maintenance Instructions

19.3.2 Example Two. Overhaul instructions with illustrated parts breakdown for ball nut and screw assembly, PN B-1142:

16G3-2-32-3
16 Category 16
G Mechanical Gear Box, Drive and Screwjack Assemblies
3 Screwjack Mechanism Series
2 Screwjack Assembly Subseries
32 Represents PN B-1142
3 Number Reserved for Overhaul Instructions

19.3.3 Example Three. Overhaul instructions for missile pylon package, PN 223-68327:

16W6-18-3
16 Category 16
W Structural Components
6 Pylon Assembly Series
18 Represents PN 223-68327
3 Number Reserved for Overhaul Instructions

19.4 CATEGORY 16 NUMBERING SERIES.

16 AIRBORNE MECHANICAL EQUIPMENT
16A ACTUATING MECHANISMS
16A1 ACTUATORS
16A1-2 Bomb Bay Door
16A1-3 Dive Brake
16A1-4 Hoist Traversing
16A1-5 Linear
16A1-6 Main Landing Gear
16A1-7 Nacelle Cooling Door

| | |
|---------|--|
| 16A1-8 | Nose Gear |
| 16A1-9 | Rocket Door |
| 16A1-10 | Rudder Control |
| 16A1-11 | Tab Control |
| 16A1-12 | Tail Skid |
| 16A1-13 | Wing Flap |
| 16A1-14 | Auxiliary |
| 16A1-15 | Canopy Jettison |
| 16A1-16 | Dive Flap |
| 16A1-17 | Main Landing Gear Door |
| 16A1-18 | Camera Door |
| 16A1-19 | Rear Landing Gear Door |
| 16A1-20 | Windshield |
| 16A1-21 | Air Exit Door |
| 16A1-22 | Throttle Control |
| 16A1-23 | Drag Chute Door |
| 16A1-24 | Nose Landing Gear Door |
| 16C | CONTROL MECHANISMS |
| 16C1 | CONTROL UNITS |
| 16C1-2 | Tab, Aileron |
| 16C1-3 | Flap |
| 16C1-4 | Brake |
| 16C1-5 | Rudder |
| 16C1-6 | Door |
| 16C1-7 | Elevator |
| 16C1-8 | Spoiler |
| 16C1-9 | Wheel |
| 16C1-10 | Stabilizer |
| 16C1-11 | Steering |
| 16C1-12 | Landing Gear |
| 16C1-13 | Antenna |
| 16C1-14 | Valve |
| 16C1-15 | Parachute Release |
| 16C1-16 | Special Stores |
| 16C1-17 | Bombing System |
| 16C1-18 | Fuel Boom |
| 16C1-19 | Flight Simulator |
| 16C1-20 | Canopy Latch |
| 16C1-21 | Head |
| 16C1-22 | Instrument Box |
| 16C1-23 | Emergency Hydraulic Power |
| 16C1-24 | Gimbal Assembly |
| 16C1-25 | Sector Box |
| 16C1-26 | Mixer |
| 16C1-27 | Control Stick |
| 16C1-28 | Positioning Lever |
| 16C1-29 | Pod Release |
| 16C1-30 | Surface, Wing-Fold, Wing-Tip, Fold-up, Trailing Edge |
| 16C1-31 | Propeller |
| 16C1-32 | Air Inlet |
| 16C1-33 | Stairs, Ladder |
| 16G | GEAR BOX, DRIVE, AND SCREWJACK ASSEMBLIES |

| | |
|---------|---------------------------------|
| 16G1 | GEAR BOXES |
| 16G2 | DRIVE MECHANISMS |
| 16G2-2 | Angle |
| 16G2-3 | Torque |
| 16G2-4 | Bevel |
| 16G2-5 | Hexagon |
| 16G2-6 | Worm |
| 16G2-7 | Power Plant |
| 16G3 | SCREWJACK MECHANISMS |
| 16G3-2 | Screwjack Assembly |
| 16G4 | UNIVERSAL JOINTS |
| 16G5 | SHAFTS |
| 16G5-2 | Alternator |
| 16G5-3 | Disconnect Assembly |
| 16G5-4 | Torque |
| 16G5-5 | Power Transmission |
| 16G5-6 | Nozzle |
| 16GA | ASSOCIATED EQUIPMENT |
| 16GA3 | SCREWJACK MECHANISMS |
| 16GA3-2 | Limiter |
| 16GA3-3 | Plug (Do not use) |
| 16GA4 | GEAR BOXES (Do not use) |
| 16K | RELEASE MECHANISMS |
| 16K1 | RELEASE ASSEMBLIES |
| 16K1-2 | Jettison |
| 16K1-3 | Landing Gear |
| 16K1-4 | Parachute |
| 16K1-5 | Escape Hatch |
| 16K1-6 | Capsule Disconnect |
| 16K1-7 | Pod |
| 16K1-8 | Bomb Bay Rack |
| 16K1-9 | Disconnect |
| 16K1-10 | Carriage Shackle |
| 16L | LOCKING AND LATCHING MECHANISMS |
| 16L1 | LOCKING AND LATCHING |
| 16L1-2 | Drag Parachute Compartment |
| 16L1-3 | Gear |
| 16L1-4 | Door |
| 16L1-5 | Pilot's Canopy |
| 16L1-6 | Strut |
| 16L1-7 | Rudder, Stabilizer, Elevator |
| 16L1-8 | Pod |
| 16L1-9 | Arresting Hook |
| 16L1-10 | Aerial Delivery |
| 16L1-11 | Wing Flap |
| 16R | REGULATING MECHANISMS |
| 16R1 | REGULATORS |
| 16R1-2 | Cable Tension |
| 16R1-3 | Quadrant |
| 16R1-4 | Canopy Seal |
| 16R1-5 | Control Box |
| 16R1-6 | Linkage Assembly |

| | |
|--------|----------------------------------|
| 16W | STRUCTURAL COMPONENTS (AIRFRAME) |
| 16W1 | WINDOW ASSEMBLIES |
| 16W1-2 | Window |
| 16W2 | CANOPY ASSEMBLIES |
| 16W3 | DOOR ASSEMBLIES |
| 16W4 | CAPSULE ASSEMBLIES |
| 16W5 | RADOME ASSEMBLIES |
| 16W6 | PYLON ASSEMBLIES |
| 16W7 | PANEL ASSEMBLIES |
| 16W8 | CARRIAGE AND SHACKLE ASSEMBLIES |
| 16W9 | BODY ASSEMBLIES |
| 16W10 | COUNTERBALANCE ASSEMBLIES |
| 16W11 | PLATE ASSEMBLIES |
| 16W12 | SUPPORT ASSEMBLIES |
| 16W13 | SNUBBERS |
| 16W14 | DUCT ASSEMBLIES |
| 16W15 | RAIL ASSEMBLIES |
| 16W16 | CASE AND CARTRIDGE ASSEMBLIES |
| 16W17 | DASHPOT ASSEMBLIES |
| 16W18 | COUNTERPOISE ASSEMBLIES |
| 16W19 | ENGINE MOUNT ASSEMBLIES |
| 16W20 | FLARE BOXES |
| 16W21 | MISSILE SPACERS |
| 16W22 | PIN ASSEMBLIES |
| 16W23 | SEAL ASSEMBLIES |
| 16W24 | REVERSER ASSEMBLIES |
| 16W25 | BEARINGS |
| 16W26 | RACK AND MOUNT ASSEMBLIES |
| 16W27 | CONSOLES |
| 16W28 | EXHAUST VALVES |
| 16W29 | TUBES |
| 16W30 | BATTERY BOX ASSEMBLIES |
| 16W31 | NACELLE VENTILATION EJECTORS |
| 16W32 | LEADING EDGE ASSEMBLIES (WING) |
| 16W33 | ARRESTING GEAR ASSEMBLIES |
| 16W34 | TANK ASSEMBLIES |
| 16W35 | ADAPTER ASSEMBLIES |
| 16W36 | LINERS |
| 16W37 | COVERS |
| 16W38 | CONTROL COLUMN ASSEMBLIES |
| 16W39 | CONNECTING LINKS |
| 16W40 | NOSE ASSEMBLIES |
| 16W41 | PODS |
| 16W42 | GLARESHIELD ASSEMBLIES |
| 16W43 | TAILPIPE ASSEMBLIES |

CHAPTER 20

CATEGORY 21 - GUIDED MISSILES

20.1 GENERAL.

Technical data numbered in the missile category includes operations manuals, organization (on site) maintenance instructions, inspection requirements, overhaul instructions and specified procedures relating to missiles. TO numbers incorporate the missile type or mission, model and production series, which groups types of missile data accordingly.

20.1.1 Multiple Systems. Technical information pertaining to more than one type of missile is numbered in the category general series. Since the data pertains to more than one type of missile, TO numbers assigned in the category general series do not reflect the missile type, model or production series. A manual entitled, "Plating Procedures for the AIM-4 and the LGM-30" would be numbered as follows:

| | |
|-----------|--------------------------|
| 21M-1-107 | |
| 21 | Category 21 |
| M | Missile |
| 1 | Category General Series |
| 107 | Serialized Manual Number |

20.1.2 Multiple Models. TOs pertaining to more than one model of a specific type of missile are numbered in the general series of that missile type. An operational manual relating to the AIM-4 and the AIM-26 would be numbered as follows:

| | |
|-------------|---|
| 21M-AIM-101 | |
| 21 | Category 21 |
| M | Missile |
| AIM | Air Launched, Intercept Aerial, Missile |
| 101 | Serialized Manual Number |

20.1.3 Multiple Production Series. Technical information pertaining to more than one production series of a missile model is numbered in the first production series. A field checkout instruction for the AIM-4A, AIM-4D and AIM-4G would be numbered in the "A" production series.

20.1.4 Missile Timeframe. TOs for earlier guided missiles are numbered as described in Paragraph 20.2 and Paragraph 20.3. TOs for the M-X and later guided missile systems are numbered as described in Paragraph 20.4.

20.2 NUMBERING PATTERNS.

20.2.1 Group One. In Category 21, the first group has only two parts, identifying the category, and a designator indicating missiles.

20.2.1.1 Part one is always the numeric 21 identifying Category 21.

20.2.1.2 Part two is always the alpha M identifying missiles.

20.2.2 Group Two. This group can have either two or three parts. If two parts are used, the missile type and model only are identified. This normally means the TO contains general information pertaining to all production series of a specific missile type and model. In most cases, three parts are used in group three, indicating the missile type, model and production series.

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20.2.2.1 Part one is composed of three alpha characters. The first alpha character identifies the missile launch environment; the second indicates the basic mission of the missile; and the third describes the missile vehicle type. The following listing outlines these alpha designators as established by AFI 16-401 Designated and Naming Defense Military Aerospace Vehicles:

LAUNCH ENVIRONMENT

| | |
|---|-----------------|
| A | - Air |
| B | - Multiple |
| C | - Coffin |
| F | - Individual |
| G | - Runway |
| H | - Silo Stored |
| L | - Silo Launched |
| M | - Mobile |
| P | - Soft Pad |
| R | - Ship |
| U | - Underwater |

BASIC MISSION

| | |
|---|-----------------------------------|
| D | - Decoy |
| E | - Special Electronic Installation |
| G | - Surface Attack |
| I | - Intercept Aerial |
| Q | - Drone |
| T | - Training |
| U | - Underwater Attack |
| W | - Weather |

VEHICLE TYPE

| | |
|---|------------------------|
| M | - Guided Missile/Drone |
|---|------------------------|

20.2.2.2 Part two contains one or more numeric characters identifying the missile model number.

20.2.2.3 Part three is an alpha character indicating the missile production series. The first production series of a particular missile is designated with the alpha A, the second with the alpha B and continuing through the alphabet as required.

20.2.2.4 It is possible that a fourth part may be required for group two in order to identify a missile production configuration. If this becomes a requirement, the production configuration identifier (PCI) will be an alpha character immediately following the production series identifier. The alpha A is reserved to indicate USAF missile configurations and the remainder of the alphabet will be used for those configurations produced for foreign countries. Although the alpha A is reserved to identify USAF missile configurations, no specific alpha character will be associated with or reserved for missile configurations for a particular foreign country.

20.2.3 Group Three. In Category 21, the third group primarily identifies the type of inspection, instruction, or procedure. This can be accomplished by either one or two parts.

20.2.3.1 Part one consists of one or more numeric characters reserved to indicate a specific type of TO (see Appendix C for a complete list of types of TOs). The following is a list of reserved numbers authorized for use in Category 21:

| | |
|-----|--|
| -01 | List of Applicable Publications (LOAP) |
| -06 | Work Unit Code Manuals |
| -07 | thru -09 Reserved |
| -1 | Operating Instructions |
| -2 | Organizational Maintenance Manuals |

- 3 Structural Repair and Overhaul Manuals
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests
- 10 Engine Buildup Manuals
- 12 Special Maintenance Manuals
- 16 Warhead Loading
- 17 Storage of Missiles
- 18 Field Maintenance and Materials Manuals
- 21 Missile Inventory Record Master Guides
- 22 Control Manuals
- 23 Corrosion Control Manuals
- 26 Non-Destructive Inspection Manuals
- 27 Calibration and Measurement Manuals
- 33 Contractor Maintenance Data

20.2.3.2 Part two. In some instances some of the reserved numbers listed in part one, above, are followed by one or more alpha characters indicating a series of checklists, workcards, supplements, and other media. The following lists the alpha characters authorized for use in Category 21:

- CL - Checklist
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards
- WS - Worksheets

20.2.4 Group Four. This group consists of one or more numeric characters identifying sections of a sectionalized manual or indicating the series number of specific TO data in a series of inspections, supplements, or functions.

20.2.5 Group Five. When required, this group contains one or more numeric characters indicating a further sectionalization or serialization of a TO.

20.3 EXAMPLES OF CATEGORY 21 NUMBERING PATTERNS.

20.3.1 Example One. A work unit code manual for the AIM-9E missile:

| | |
|--------------|---|
| 21M-AIM9E-06 | |
| 21 | Category 21 |
| M | Missiles |
| AIM | Air Intercept Missile |
| 9 | Missile Model Number |
| E | Production Series |
| 06 | Number Reserved for Work Unit Code Manual |

20.3.2 Example Two. Inspection requirements for the AGM-12C missile:

| | |
|--------------|-----------------------|
| 21M-AGM12C-6 | |
| 21 | Category 21 |
| M | Missiles |
| AGM | Air-to-Ground Missile |
| 12 | Missile Model Number |
| C | Production Series |

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6 Number Reserved for Inspection Requirements

20.3.3 Example Three. Structural repair manual for the LGM-30A missile:

21M-LGM30A-3
21 Category 21
M Missiles
LGM Launched Ground Missiles
30 Missile Model Number
A Product Series
3 Number Reserved for Structural Repair Manuals

20.4 SHORTENED NUMBERING FOR MISSILE TECHNICAL ORDER MANUALS.

To eliminate redundancy, TO numbers for future missiles will be shortened by eliminating the M in category designator 21M and by eliminating the M in model designators such as LGM. These codes are redundant, since only missile TOs appear in Category 21.

20.4.1 Shortening TO Numbers. Using shortened TO numbers will be effective with the LGM-118A and future missile designs. Use of the former numbering practice will continue for earlier designated missiles. Existing TOs in Category 21 will not be renumbered for the sole purpose of shortening the TO numbers.

20.4.2 Example One. The following is an example of this method applied to an organizational maintenance instruction for launch facility and launch control facility environmental control system for the LGM-118A missile:

21-LG118A-2-7-4
21 Identifies Missile Category
L Silo Launch Environment
G Surface Attack Mission
118 Design Number
A Design Series
2 Maintenance Manual
7 Launch Facility and Launch Control Facility Environmental Control System
4 Designates Specific Installation

CHAPTER 21

CATEGORY 22 - AEROSPACE VEHICLES

21.1 GENERAL.

TO data numbered in this category identifies operational, organizational maintenance, inspection and procedures related to aerospace vehicles and systems. Aerospace vehicles are either manned or unmanned flight vehicles operating in the atmosphere or space environment. TO numbers incorporate the aerospace vehicle type and model or the aerospace system which identifies family groups according to mission or function.

21.1.1 Multiple Aerospace Vehicles. Information pertaining to more than one aerospace vehicle is numbered in the category general series. Numbers assigned in this section do not contain the aerospace vehicle type and model in the TO number.

21.1.2 Single Type Aerospace Vehicle. TOs pertaining to only one type of aerospace vehicle but containing information relative to more than one vehicle model within that type, will be numbered in the general series of the aerospace vehicle type.

21.1.3 Multiple Production Series Aerospace Vehicle. TO data pertaining to more than one production series of an aerospace vehicle model will be numbered in the first series, i.e., operational data applicable to the MER-6A, MER-6B and MER-6C would be numbered as 22R-MER6A-1.

21.2 NUMBERING PATTERNS.

21.2.1 Group One. With the exception of the Category 22 general series TO numbers, the first group of the TO numbering pattern for aerospace TOs consists of a numeric 22, denoting Category 22, and an alpha character identifying one of five aerospace systems, i.e., R -rockets; G - boosters; J - spacecraft; P - probes; and S - satellites.

21.2.2 Group Two. The second group of the TO number contains the aerospace vehicle type, model and production series; or an L system which is used in the aerospace program.

21.2.3 Group Three.

21.2.3.1 In this category the third group of the numbering pattern identifies the type of TOs by using a number reserved for each type (see Appendix C for a complete list of types of TOs). The following is a list of reserved numbers authorized for Category 22:

| | |
|-----|--|
| -01 | List of Applicable Publications (LOAP) |
| -06 | Work Unit Code Manuals |
| -07 | thru -09 Reserved |
| -1 | Operating Instructions |
| -2 | Maintenance Manuals |
| -3 | Structural Repair Instructions |
| -4 | Illustrated Parts Breakdown |
| -5 | Weight and Balance Manuals |
| -6 | Inspection Requirements |
| -8 | Test Procedures, Checkout Manuals, or Programmed Tests |
| -17 | Storage of Aerospace Vehicles |
| -18 | Field Maintenance of Material |

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21.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 22:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards
- WS - Worksheets

21.3 EXAMPLES OF CATEGORY 22 NUMBERING PATTERNS.

21.3.1 Example One. An operational manual for the MER-6A aerospace rocket:

| | |
|-------------|--|
| 22R-MER6A-1 | |
| 22 | Category 22 |
| R | Rockets |
| MER | Rocket Type |
| 6 | Rocket Model Number |
| A | Production Series A |
| 1 | Number Reserved for Operating Instructions |

21.3.2 Example Two. An illustrated parts breakdown for the 494L system used in the aerospace program:

| | |
|------------|---|
| 22R-494L-4 | |
| 22 | Category 22 |
| R | Rockets |
| 494L | L System identification |
| 4 | Number Reserved for Illustrated Parts Breakdown |

CHAPTER 22

CATEGORY 31 - GROUND ELECTRONIC EQUIPMENT

22.1 GENERAL.

Much of the equipment covered by TOs in this category is identified under the Joint Electronics Type Designation System (JETDS). The JETDS, which was formerly known as the AN Nomenclature System, is described in MIL-STD-196.

22.1.1 Primary Systems. Category 31 contains seven primary ground electronic equipment systems. These systems are divided into equipment series; some are further divided into equipment subseries within the equipment series. TO numbers in Category 31 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 22.2.

22.1.2 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

22.1.3 Multiple Equipment. Information relating to more than one equipment series is numbered in the system general series.

22.1.4 JETDS TOs. General TOs for JETDS equipment are described in Paragraph 1.19.

22.2 NUMBERING PATTERNS.

22.2.1 Group One. This group has three parts identifying the category, system and equipment series within a system.

22.2.1.1 Part one is always the numeric 31 identifying Category 31.

22.2.1.2 Part two is an alpha character identifying the electronic equipment system, i.e., M - meteorological equipment; P - radar equipment; R - radio equipment; S - special electronic equipment; W - wire fixed electronic equipment; X - missile ground operational equipment; and Z - systems and site equipment. Missile ground operational equipment is the only system in Category 31 that has associated equipment. Its associated equipment is identified by XA.

NOTE

Although numerous TOs are currently numbered in the 31X and 31XA series, these series will not be used for numbering new TOs. Future TOs for missile ground operational equipment will be numbered in appropriate functional equipment systems of Category 31.

22.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series is outlined in Paragraph 22.4.

22.2.2 Group Two. The several numbering patterns currently used in Category 31 are most conspicuous in the group two numbering configurations. Numbering patterns are as follows:

22.2.2.1 This paragraph covers numbering patterns for 31M, 31P, 31R, 31S and 31W systems. The numbering patterns use both three and four basic groups; therefore, the identifiers in group two are not constant.

22.2.2.1.1 If the equipment types are JETDS nomenclatured, three basic groups are used in the TO number. The numeric 2 followed immediately by an alphameric JETDS nomenclature comprises group two.

22.2.2.1.2 If the equipment types are Signal Corps nomenclatured, three basic groups are used in the TO number. The numeric 3 followed immediately by an alphameric Signal Corps nomenclature comprises group two.

22.2.2.1.3 If the equipment types are Air Force nomenclatured, three basic groups are used in the TO number. The numeric 5 followed immediately by an alphameric AF nomenclature comprises group two.

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22.2.2.1.4 If the equipment types are commercially nomenclatured (not JETDS, Signal Corps, or AF), four basic groups are used in the TO number. The numeric 4 is the only character in group two.

22.2.2.2 This paragraph covers numbering patterns for the 31X system which uses both three and four basic groups.

22.2.2.2.1 The numbering pattern for basic equipment TOs in the 31X System uses four basic groups. In this case one or more numeric characters in group two identify the equipment subseries.

22.2.2.2.2 The numbering pattern for associated equipment TOs (indicator 31XA) uses only three basic groups. In this case one or more numeric characters in group two represent the model, type or PN assigned to specific equipment.

22.2.2.3 The numbering pattern for 31Z series TOs uses three basic groups. Group two, with one or more numeric characters, identifies AFCS (formerly GEEIA) Engineering-Installation Standards or a specific system, site, facility or special project. The type of TO is identified in group three as described in Paragraph 22.2.3.1, below.

22.2.3 Group Three.

22.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 31:

- 01 List of Applicable Publications (LOAP)
- 06 Work Unit Code Manuals
- 07 thru -09 Reserved
- 1 Operating Instructions
- 2 Service or Maintenance Instructions
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 5 Command Manuals
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests
- 9 Alignment Instructions

22.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 31:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

22.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific equipment or components. When this occurs the specific type of TO is then identified in group four.

22.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 22.2.3.1.

22.3 EXAMPLES OF CATEGORY 31 NUMBERING PATTERNS.

22.3.1 Example One. Operating and maintenance instructions for timing and telephone set, type ML-110:

31M1-3ML110-1

31 Category 31

| | |
|-------|---|
| M | Meteorological Equipment |
| 1 | Auxiliary Meteorological Equipment Series |
| 3 | Identifies Signal Corps Nomenclatured Items |
| ML110 | Identifies Specific Signal Corps Nomenclatured Item |
| 1 | Number Reserved for Operating Instructions |

22.3.2 Example Two. Operating instructions with service instructions and illustrated parts breakdown for radio transmitter model TCS-4B:

| | |
|--------------|--|
| 31R2-4-153-1 | |
| 31 | Category 31 |
| R | Radio Equipment |
| 2 | Communication Series |
| 4 | Commercial Nomenclatured Items |
| 153 | Represents Model TCS-4B |
| 1 | Number Reserved for Operating Instructions |

22.3.3 Example Three. Operating and service instructions for a combat reporting center, type AN/TSQ-91:

| | |
|---------------|--|
| 31S1-2TSQ91-1 | |
| 31 | Category 31 |
| S | Special Electronic Equipment |
| 1 | Auxiliary Equipment Series |
| 2 | Identifies JETDS Nomenclatured Items |
| TSQ91 | Identifies Specific JETDS Nomenclatured Item |
| 1 | Number Reserved for Operating Instructions |

22.3.4 Example Four. Illustrated parts breakdown for missile ground checkout equipment generator PN 55-11387:

| | |
|-------------|---|
| 31X2-9-16-4 | |
| 31 | Category 31 |
| X | Missile Ground Operational Equipment |
| 2 | Checkout Equipment Series |
| 9 | Generator Subseries |
| 16 | Represents PN 55-11387 |
| 4 | Number Reserved for Illustrated Parts Breakdown |

22.3.5 Example Five. Service instructions for mobile single sideband high frequency medium power facility, communication central, type AN/TSC-40, facility 691:

| | |
|------------|--|
| 31Z3-691-2 | |
| 31 | Category 31 |
| Z | Ground Defense Systems |
| 3 | Facility Publications Series |
| 691 | Identifies Facility 691 |
| 2 | Number Reserved for Service Instructions |

22.4 CATEGORY 31 NUMBERING SERIES.

| | |
|--------|---------|
| 31C1 | CYBER |
| 31C1-1 | General |

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| | |
|----------|--|
| 31C1-2 | Fixed Based |
| 31C1-2-2 | Gateways |
| 31C1-2-3 | AFNet |
| 31C1-2-4 | Base Infrastructure |
| 31C1-2-5 | Voice |
| 31C1-3 | Tactical |
| 31C1-3-2 | Network Control Center-Deployed (NCC-D) |
| 31C1-3-3 | Integrated Communications Access Package (ICAP) |
| 31C1-3-4 | Satellite Communication (SATCOM) Terminals |
| 31C1-3-5 | Small Package Initial Communications Equipment (SPICE) |
| 31C1-4 | The Air Force Cyberspace Defense |
| 31C1-5 | Cyber Defense Analysis |
| 31C1-5-2 | Cisco |
| 31C1-5-3 | Fidelis |
| 31C1-5-4 | Power Edge |
| 31C1-6 | The Cyberspace Vulnerability Assessment/Hunter |
| 31C1-7 | The Cyber Command and Control Mission System |
| 31C1-8 | The Network Attack System |
| 31C1-9 | Cyberspace Security and Control System |
| 31C1-10 | Air Force Intranet Control |
| 31M | METEOROLOGICAL-ELECTRONIC EQUIPMENT |
| 31M-10 | AFCS Engineering - Installation (formerly GEEIA) Standards |
| 31M1 | AUXILIARY |
| 31M1-2 | JETDS Nomenclature |
| 31M1-3 | Signal Corps Nomenclature |
| 31M1-4 | Commercial Nomenclature |
| 31M1-5 | AF Nomenclature |
| 31M2 | BAROMETRIC |
| 31M2-2 | JETDS Nomenclature |
| 31M2-3 | Signal Corps Nomenclature |
| 31M3 | STATIONS |
| 31M3-2 | JETDS Nomenclature |
| 31M3-4 | Commercial Nomenclature |
| 31M3-5 | AF Nomenclature |
| 31M4 | TEMPERATURE AND HUMIDITY |
| 31M4-2 | JETDS Nomenclature |
| 31M4-3 | Signal Corps Nomenclature |
| 31M4-4 | Commercial Nomenclature |
| 31M5 | WIND DIRECTION AND VELOCITY |
| 31M5-2 | JETDS Nomenclature |
| 31M6 | CLOUD HEIGHT, DEPTH, AND DIRECTION |
| 31M6-2 | JETDS Nomenclature |
| 31M7 | TELEMETERING |
| 31M7-2 | JETDS Nomenclature |
| 31M7-4 | Commercial Nomenclature |
| 31N1 | NETWORKS |
| 31N1-1 | Network General |
| 31N1-2 | Network Management |
| 31N1-3 | Network Defense |
| 31N1-4 | Network Control Center |
| 31N1-5 | Wireless Networks |
| 31P | RADAR-ELECTRONIC EQUIPMENT |

| | |
|--------|-------------------------------|
| 31P1 | AUXILIARY |
| 31P1-2 | JETDS Nomenclature |
| 31P1-4 | Commercial Nomenclature |
| 31P2 | CONTROLS |
| 31P2-2 | JETDS Nomenclature |
| 31P2-3 | Signal Corps Nomenclature |
| 31P2-4 | Commercial Nomenclature |
| 31P3 | HEIGHT FINDING |
| 31P3-2 | JETDS Nomenclature |
| 31P3-4 | Commercial Nomenclature |
| 31P4 | IDENTIFICATION, FRIEND-OR-FOE |
| 31P4-2 | JETDS Nomenclature |
| 31P5 | NAVIGATION |
| 31P5-2 | JETDS Nomenclature |
| 31P5-4 | Commercial Nomenclature |
| 31P6 | SEARCH |
| 31P6-2 | JETDS Nomenclature |
| 31P6-3 | Signal Corps Nomenclature |
| 31P6-4 | Commercial Nomenclature |
| 31P7 | SURVEILLANCE |
| 31P7-2 | JETDS Nomenclature |
| 31P8 | COUNTERMEASURES |
| 31P8-2 | JETDS Nomenclature |
| 31P8-4 | Commercial Nomenclature |
| 31P9 | OVER-THE-HORIZON |
| 31P9-2 | JETDS Nomenclature |
| 31R | RADIO-ELECTRONIC EQUIPMENT |
| 31R1 | AUXILIARY |
| 31R1-2 | JETDS Nomenclature |
| 31R1-3 | Signal Corps Nomenclature |
| 31R1-4 | Commercial Nomenclature |
| 31R2 | COMMUNICATION |
| 31R2-2 | JETDS Nomenclature |
| 31R2-3 | Signal Corps Nomenclature |
| 31R2-4 | Commercial Nomenclature |
| 31R2-5 | AF Nomenclature |
| 31R3 | CONTROL |
| 31R3-2 | JETDS Nomenclature |
| 31R3-3 | Signal Corps Nomenclature |
| 31R3-4 | Commercial Nomenclature |
| 31R4 | NAVIGATION |
| 31R4-2 | JETDS Nomenclature |
| 31R4-3 | Signal Corps Nomenclature |
| 31R4-4 | Commercial Nomenclature |
| 31R5 | RELAY MICROWAVE |
| 31R5-2 | JETDS Nomenclature |
| 31R5-4 | Commercial Nomenclature |
| 31R6 | (Not used) |
| 31S | SPECIAL-ELECTRONIC EQUIPMENT |
| 31S1 | AUXILIARY |
| 31S1-2 | JETDS Nomenclature |
| 31S1-4 | Commercial Nomenclature |

| | |
|---------|---|
| 31S2 | FACSIMILE |
| 31S2-2 | JETDS Nomenclature |
| 31S2-4 | Commercial Nomenclature |
| 31S3 | RECORDING |
| 31S3-2 | JETDS Nomenclature |
| 31S3-3 | Signal Corps Nomenclature |
| 31S3-4 | Commercial Nomenclature |
| 31S4 | TELEVISION |
| 31S4-2 | JETDS Nomenclature |
| 31S4-4 | Commercial Nomenclature |
| 31S4-5 | AF Nomenclature |
| 31S5 | COMPUTER SYSTEMS |
| 31S5-2 | JETDS Nomenclature |
| 31S5-4 | Commercial Nomenclature |
| 31S5-5 | AF Nomenclature |
| 31S6 | COUNTERMEASURES |
| 31S6-2 | JETDS Nomenclature |
| 31S6-4 | Commercial Nomenclature |
| 31S7 | TELEMETRY |
| 31S7-2 | JETDS Nomenclature |
| 31S7-4 | Commercial Nomenclature |
| 31S8 | CONTROL |
| 31S8-2 | JETDS Nomenclature |
| 31S8-4 | Commercial Nomenclature |
| 31S9 | SPECIAL DETECTING |
| 31S9-2 | JETDS Nomenclature |
| 31S9-4 | Commercial Nomenclature |
| 31S10 | SIMULATED COHERENT RADIATION DEVICES |
| 31S10-2 | JETDS Nomenclature |
| 31S10-4 | Commercial Nomenclature |
| 31S11 | FIBER OPTIC |
| 31S11-2 | JETDS Nomenclature |
| 31S11-4 | Commercial Nomenclature |
| 31S12 | NONSTANDARD CRYPTOGRAPHIC EQUIPMENT |
| 31W | GROUND WIRE, FIXED-ELECTRONIC EQUIPMENT |
| 31W1 | AUXILIARY |
| 31W1-2 | JETDS Nomenclature |
| 31W1-3 | Signal Corps Nomenclature |
| 31W1-4 | Commercial Nomenclature |
| 31W2 | INSIDE PLANT |
| 31W2-2 | JETDS Nomenclature |
| 31W2-3 | Signal Corps Nomenclature |
| 31W2-4 | Commercial Nomenclature |
| 31W2-10 | AFCS Engineering - Installation Standards |
| 31W3 | OUTSIDE PLANT |
| 31W3-4 | Commercial Nomenclature |
| 31W3-10 | AFCS Engineering - Installation Standards |
| 31W4 | TELETYPE |
| 31W4-2 | JETDS Nomenclature |
| 31W4-4 | Commercial Nomenclature |
| 31X | MISSILE GROUND OPERATIONAL EQUIPMENT |
| 31X1 | COMMUNICATIONS |

| | |
|---------|--|
| 31X1-2 | General |
| 31X1-3 | Public Address Set |
| 31X1-4 | Connecting Station |
| 31X1-8 | Telephone Set |
| 31X1-10 | Amplifier |
| 31X1-11 | Power Unit, Chassis, Relay |
| 31X1-12 | Headset |
| 31X2 | CHECKOUT |
| 31X2-2 | Checkout Assembly |
| 31X2-3 | Console |
| 31X2-4 | Panel |
| 31X2-9 | Generator |
| 31X2-10 | Control Unit |
| 31X2-11 | Power Supply |
| 31X2-12 | Counter |
| 31X2-15 | Selector |
| 31X2-19 | Receiver |
| 31X2-20 | Monitor |
| 31X2-24 | Simulator |
| 31X2-26 | Regulator |
| 31X2-28 | Meter, Measuring Equipment |
| 31X2-29 | Rectifier |
| 31X2-30 | Relay |
| 31X2-32 | Digital Unit |
| 31X2-35 | Switching Unit |
| 31X2-36 | Cable Unit |
| 31X2-38 | Amplifier Assembly |
| 31X2-41 | Signal Source Assembly |
| 31X2-45 | Coupler Group |
| 31X2-47 | Indicator |
| 31X2-50 | Circuit Assembly |
| 31X2-55 | Exerciser |
| 31X2-56 | Adapter Unit |
| 31X2-57 | Recorder, Memory Erase Unit |
| 31X2-58 | Reproducer |
| 31X2-61 | Modulator, Demodulator |
| 31X2-62 | Insertor |
| 31X2-63 | Alignment Equipment |
| 31X2-66 | Zeroing Unit |
| 31X2-67 | Pulse Assembly |
| 31X2-68 | Reset Assembly |
| 31X2-69 | Drawer |
| 31X2-71 | Filter, Network |
| 31X2-73 | Instrument Assembly |
| 31X2-74 | Computer |
| 31X2-77 | Semiconductor Device Set |
| 31X3 | LAUNCH CONTROL AND COUNTDOWN |
| 31X3-2 | Launch Control - Countdown |
| 31X3-3 | Console, Launch Control, and Countdown |
| 31X3-6 | Countdown Relay |
| 31X3-8 | Panel |
| 31X3-10 | Control |

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| | |
|---------|--|
| 31X3-11 | Programmer |
| 31X3-12 | Monitor |
| 31X3-13 | Power Supply |
| 31X3-15 | Recorder Group, Memory Erase Unit |
| 31X3-16 | Switching Unit |
| 31X3-18 | Synchronizer |
| 31X3-23 | Multiplexer |
| 31X3-27 | Decoder |
| 31X3-28 | Printed Circuit Assembly |
| 31X3-31 | Alarm |
| 31X4 | POWER DISTRIBUTION EQUIPMENT |
| 31X4-2 | Power Distribution Unit |
| 31X4-3 | Generation and Distribution Panel |
| 31X4-5 | Control Unit |
| 31X4-8 | Electrical Cable |
| 31X7 | GROUND GUIDANCE EQUIPMENT |
| 31X7-2 | System |
| 31X7-3 | Control Assembly |
| 31X7-5 | Power Supply Assembly |
| 31X7-8 | Amplifier Assembly |
| 31X7-14 | Converter |
| 31X7-16 | Computer |
| 31X7-24 | Storage Device |
| 31X7-45 | Timing Device |
| 31X7-51 | Altimeter |
| 31X7-52 | Stabilizer |
| 31X8 | CODE PROCESSING |
| 31X8-2 | Consoles |
| 31XA | ASSOCIATED EQUIPMENT AND COMPONENTS FOR MISSILE GROUND OPERATIONAL EQUIPMENT |
| 31XA2 | INTERCONNECTING KITS |
| 31XA3 | COUPLERS |
| 31XA4 | VALVES |
| 31XA5 | SWITCHES |
| 31XA6 | MOTORS |
| 31XA7 | JUNCTION BOXES |
| 31XA9 | PUMPS |
| 31XA16 | LOAD DUCTS |
| 31Z | GROUND DEFENSE SYSTEMS |
| 31Z-10 | AFCS Engineering - Installation Standards, General |
| 31Z1 | SYSTEM TECHNICAL ORDERS |
| 31Z2 | SITE TECHNICAL ORDERS |
| 31Z3 | FACILITY TECHNICAL ORDERS |
| 31Z4 | SPECIAL COMMUNICATIONS PROJECTS |

CHAPTER 23

CATEGORY 32 - STANDARD AND SPECIAL TOOLS

23.1 GENERAL.

Category 32 contains two types of tool systems. These systems are divided into equipment series and both of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 32 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 23.2.

23.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

23.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

23.2 NUMBERING PATTERNS.

23.2.1 Group One. This group has three parts identifying the category, system and equipment series within a system.

23.2.1.1 Part one is always the numeric 32, identifying Category 32.

23.2.1.2 Part two is an alpha character identifying the system, i.e., A - special tools and B - standard tools.

23.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series is outlined in Paragraph 23.4.

23.2.2 Group Two. TO numbering patterns in Category 32 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

23.2.2.1 If the TO number uses only three basic groups, group two has one or more numeric characters representing the model, type or PN assigned to specific equipment.

23.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

23.2.3 Group Three.

23.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 32:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 7 Installation Instructions

23.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 32:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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23.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific components.

23.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 23.2.3.1, above.

23.3 EXAMPLES OF CATEGORY 32 NUMBERING PATTERNS.

23.3.1 Example One. Operating instructions with parts breakdown for a borescope, model 120011-3.

| | |
|----------|--|
| 32A2-9-1 | |
| 32 | Category 32 |
| A | Special Tools |
| 2 | Boresight Series |
| 9 | Represents Model 120011-3 |
| 1 | Number Reserved for Operating Instructions |

23.3.2 Example Two. Operating and service instructions for an actuator repair tool kit, PN 7592417P1:

| | |
|--------------|--|
| 32A20-3-46-1 | |
| 32 | Category 32 |
| A | Special Tools |
| 20 | Kit Series |
| 3 | Tool Kit Subseries |
| 46 | Represents PN 7592417P1 |
| 1 | Number Reserved for Operating Instructions |

23.3.3 Example Three. Operating instructions with illustrated parts breakdown for reversible impact wrench, model 7275:

| | |
|--------------|--|
| 32B14-4-18-1 | |
| 32 | Category 32 |
| B | Standard Tools |
| 14 | Wrench Series |
| 4 | Pneumatic Wrenches Subseries |
| 18 | Represents Model 7275 |
| 1 | Number Reserved for Operating Instructions |

23.4 CATEGORY 32 NUMBERING SERIES.

| | |
|--------|----------------------------|
| 32 | STANDARD AND SPECIAL TOOLS |
| 32A | SPECIAL TOOLS |
| 32A1 | BALANCERS |
| 32A2 | BORESIGHTS |
| 32A3 | SPLICERS |
| 32A3-2 | Cable |
| 32A4 | GUNS |
| 32A4-2 | Pressure |
| 32A4-3 | Spring Charging |
| 32A4-4 | Heat |
| 32A5 | WRENCHES |
| 32A5-2 | Torque |

| | |
|---------|--------------------------------|
| 32A5-3 | Plain |
| 32A5-4 | Extension |
| 32A5-5 | Special |
| 32A5-6 | Socket |
| 32A5-7 | Power Kit |
| 32A6 | FIXTURES |
| 32A6-2 | Heater Curing |
| 32A6-3 | Zeroing |
| 32A6-4 | Spreader |
| 32A6-5 | Initiator Simulator |
| 32A6-6 | Torque |
| 32A6-7 | Fairing Assembly |
| 32A6-8 | Adapter |
| 32A6-9 | Mold |
| 32A6-10 | Turnover |
| 32A6-11 | Rigging |
| 32A6-12 | Airseal Trimming |
| 32A6-13 | Cockpit Display |
| 32A6-14 | Power Control Linkage Assembly |
| 32A6-15 | Mounter, Demounter |
| 32A6-16 | Gluing |
| 32A6-17 | Drill |
| 32A6-18 | Clutch Run-In |
| 32A6-19 | Gauge |
| 32A6-20 | Locating, Attaching Points |
| 32A6-21 | Special Tool |
| 32A6-22 | Spoiler |
| 32A6-23 | Installer, Extractor |
| 32A6-24 | Shipping |
| 32A7 | SHARPENERS |
| 32A7-2 | Chain Saw |
| 32A8 | DIGGERS |
| 32A8-2 | Clay |
| 32A9 | TAMPERS |
| 32A9-2 | Backfill |
| 32A9-3 | Rams |
| 32A10 | BREAKERS |
| 32A10-2 | Paving |
| 32A11 | VIBRATORS |
| 32A11-2 | Concrete |
| 32A12 | LEVELING TOOLS |
| 32A12-2 | Telescopic |
| 32A12-3 | Line Level Indicator |
| 32A12-4 | Guidance System |
| 32A12-5 | Electronic |
| 32A13 | WELL DRILLERS |
| 32A13-2 | Gasoline Engine Driven |
| 32A14 | GRINDING DEVICES |
| 32A14-2 | Antenna |
| 32A15 | PROTRACTORS |
| 32A16 | SWAGERS |
| 32A17 | DETECTORS |

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| | |
|---------|--------------------------|
| 32A18 | CALIBRATORS |
| 32A19 | TEMPLATES AND GAUGES |
| 32A20 | KITS |
| 32A20-2 | Adjusting |
| 32A20-3 | Tool, Tire Inflation |
| | Assembly Kit |
| 32A20-4 | Mount |
| 32A20-5 | Rigging |
| 32A20-6 | Installation |
| 32A20-7 | Wiring |
| 32A21 | BORING TOOLS |
| 32A21-2 | Carburetor Jet |
| 32A21-3 | Auger |
| 32A21-4 | Structural Repair |
| 32A22 | TARGET ASSEMBLIES |
| 32A23 | EXTRACTORS |
| 32A24 | ROLLERS |
| 32A25 | TEST TOOLS |
| 32A26 | BRAZING TOOLS |
| 32A27 | CLAMPS |
| 32A27-2 | Guidance Set |
| 32A27-3 | Nose |
| 32A28 | EJECTORS |
| 32A28-2 | Air |
| 32A29 | CONTROL UNITS |
| 32A29-2 | Heat |
| 32A30 | GAUGES (See 32A19) |
| 32A31 | PULLERS (See 32A23 Also) |
| 32A32 | EXTRACTORS (Use 32A23) |
| 32A33 | CUTTERS |
| 32A34 | SPREADERS |
| 32A35 | PULSER |
| 32A36 | ERASING DEVICES |
| 32A37 | PROTRACTORS (Use 32A15) |
| 32A38 | SERVICE TOOLS |
| 32A39 | COUNTERS |
| 32A40 | FRONT LENGTH TOOL |
| 32A41 | REELS |
| 32B | STANDARD TOOLS |
| 32B1 | CUTTERS |
| 32B1-2 | Cable |
| 32B2 | DRILLS |
| 32B2-2 | Electric |
| 32B2-3 | Pneumatic |
| 32B3 | GAUGES |
| 32B4 | GRINDERS |
| 32B4-2 | Electric |
| 32B4-3 | Pneumatic |
| 32B5 | RIVETERS |
| 32B5-2 | Pneumatic |
| 32B5-3 | Hydraulic |
| 32B6 | HAMMERS |

| | |
|---------|-------------------------|
| 32B6-2 | Pneumatic |
| 32B6-3 | Electric |
| 32B7 | IRONS |
| 32B7-2 | Electric |
| 32B8 | PLANES |
| 32B8-2 | Hand |
| 32B8-3 | Electric |
| 32B9 | PULLERS |
| 32B10 | SANDERS |
| 32B10-2 | Electric |
| 32B10-3 | Pneumatic |
| 32B11 | SCREWDRIVERS |
| 32B11-2 | Pneumatic |
| 32B12 | SHAVERS |
| 32B12-2 | Pneumatic |
| 32B13 | SAWS |
| 32B13-2 | Electric |
| 32B13-3 | Pneumatic |
| 32B14 | WRENCHES |
| 32B14-2 | Electric |
| 32B14-3 | Hand |
| 32B14-4 | Pneumatic |
| 32B14-5 | Hydraulic |
| 32B15 | ETCHERS |
| 32B15-2 | Electric |
| 32B16 | KITS |
| 32B16-2 | Canvas Repair |
| 32B17 | DRILL ATTACHMENT |
| 32B17-2 | Cutoff and Burring Tool |
| 32B18 | REFACING TOOLS |
| 32B19 | CRIMPING TOOLS |
| 32B20 | WRAPPING TOOLS |

CHAPTER 24

CATEGORY 33 - TEST EQUIPMENT

24.1 GENERAL.

This category contains testers, test equipment and test interface equipment. Test procedures, test control and programmed test TOs are numbered with related equipment identified in the various airborne and ground component categories.

24.1.1 Multiple Series. Category 33 contains five test equipment systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 33 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 24.2.

24.1.2 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

24.1.3 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

24.2 NUMBERING PATTERNS.

24.2.1 Group One. This group has three parts that identify the category, system and equipment series within a system.

24.2.1.1 Part one is always the numeric 33 identifying Category 33.

24.2.1.2 Part two is an alpha character identifying one of five aerospace systems, i.e., A - general purpose test equipment; B - inspection test equipment; C - laboratory test equipment; D - special purpose test equipment; and K - calibration procedures. Only 33A and 33D systems have associated equipment TOs. Associated equipment for these systems is identified by adding the alpha A immediately following the system identifier, i.e., AA or DA.

24.2.1.3 Part three contains one or more numeric characters that identify an equipment series within a system. The TO numbering series is outlined in Paragraph 24.4.

24.2.2 Group Two. TO numbering patterns in Category 33 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

24.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

24.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

24.2.3 Group Three.

24.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 33:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance Manuals
- 4 Illustrated Parts Breakdown
- 5 Depot Calibration
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures

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- 8 Test Procedures, Checkout Manuals, or Programmed Tests
- 9 Alignment Instructions

24.2.3.2 In some instances the reserved numbers are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 33:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- VS - Visual Slide
- WC - Workcards

24.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PNs assigned to specific components.

24.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 24.2.3.1, above.

24.3 EXAMPLES OF CATEGORY 33 NUMBERING PATTERNS.

24.3.1 Example One. Illustrated parts breakdown for a ballistics computer test set, PN T-101235:

33D5-5-78-4
33 Category 33
D Special Purpose Test Equipment
5 Armament Equipment Series
5 Computer Subseries
78 Represents PN T-101235
4 Number Reserved for Illustrated Parts Breakdown

24.3.2 Example Two. Operating and maintenance instructions for a radar analyzer test set, type AN/APM-226:

33D7-10-23-1
33 Category 33
D Special Purpose Test Equipment
7 Electrical and Electronic Equipment Series
10 Analyzer Subseries
23 Represents Type AN/APM-226
1 Number Reserved for Operating Instructions

24.3.3 Example Three. Operating instructions for associated equipment electron tube test set, type AN/USM-31:

33AA21-2-1
33 Category 33
A General Purpose Test Equipment
A Associated Equipment
21 Tube Analyzer Series
2 Represents Type AN/USM-31
1 Number Reserved for Operating Instructions

24.3.4 Example Four. Illustrated parts breakdown for magnetic inspection unit, model H144-6AD-1:

33B2-11-14

| | |
|----|---|
| 33 | Category 33 |
| B | Inspection Test Equipment |
| 2 | Electrical Series |
| 11 | Represents Model H144-6AD-1 |
| 14 | Number Reserved for Illustrated Parts Breakdown |

24.3.5 Example Five. Service instructions for a dynamotor test set, type TS-414/U:

| | |
|--------------|---|
| 33A1-12-95-2 | |
| 33 | Category 33 |
| A | General Purpose Test Equipment |
| 1 | Electrical and Electronic Equipment Series |
| 12 | Voltage, Current and Resistance Measuring Equipment Subseries |
| 95 | Represents Type TS-414/U |
| 2 | Number Reserved for Service Instructions |

24.4 CATEGORY 33 NUMBERING SERIES.

NOTE

Technical Orders containing calibration procedures for nonstocklisted precision measuring equipment are numbered in the 33L1 category, system and series. These TOs are not listed in TO Indexes and are not distributed through the Air Force TO system. Publication and distribution are accomplished by Aerospace Guidance and Metrology Center (MLMA), Newark AFS, OH 43057-5475.

| | |
|---------|---|
| 33 | TEST EQUIPMENT |
| 33-1 | AIRFRAME |
| 33A | GENERAL PURPOSE TEST EQUIPMENT |
| 33A1 | ELECTRICAL AND ELECTRONIC |
| 33A1-2 | Amplifying |
| 33A1-3 | Combination Group Test Set |
| 33A1-4 | Field Intensity Measuring |
| 33A1-5 | Frequency Measuring |
| 33A1-6 | Impedance, Standing Wave Ratio Measuring, Noise Meter |
| 33A1-7 | Power Measuring, Audio Indicating |
| 33A1-8 | Signal Generating |
| 33A1-9 | Temperature Measuring, Thermostat |
| 33A1-10 | Time Base Measuring, Counting |
| 33A1-11 | Vibration |
| 33A1-12 | Voltage, Current, Resistance Measuring, Multimeter |
| 33A1-13 | Wave Form Measuring, Recording |
| 33A1-14 | Interference Measuring |
| 33A1-15 | Electrical Circuit Check |
| 33A1-16 | Auxiliary Power Plant |
| 33A2 | HYDRAULIC |
| 33A2-2 | Test Stand |
| 33A2-3 | Gauge |
| 33A2-4 | Valve |
| 33A2-5 | Cylinder, Actuator |
| 33A2-6 | Analyzer |
| 33A3 | MECHANICAL |
| 33A3-2 | Analyzer |

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| | |
|---------|--------------------------------------|
| 33A3-3 | Cable Tensiometer |
| 33A3-4 | Torque Tester |
| 33A3-5 | Regulator |
| 33A3-6 | Unit |
| 33A3-7 | Actuator, Screw Jack Assembly |
| 33A3-8 | Anti-Skid |
| 33A3-9 | Test Stand |
| 33A3-10 | Tachometer Generator |
| 33A3-11 | Lock and Latch Assemblies |
| 33A4 | PNEUMATIC |
| 33A4-2 | Accumulator |
| 33A4-3 | Cabin Heater |
| 33A4-4 | Cabin Leakage |
| 33A4-5 | Regulator |
| 33A4-6 | Valve |
| 33A4-7 | Leak |
| 33A4-8 | Pressurization Kit |
| 33A4-9 | Pump |
| 33A4-10 | Pneumatic Dehydrator, Chemical Dryer |
| 33A4-11 | Air Filter |
| 33A4-12 | Components |
| 33A5 | VACUUM |
| 33A5-2 | Test Stand |
| 33A6 | LIQUIDS |
| 33A6-2 | Density |
| 33A6-3 | Flow Meter |
| 33A6-4 | Pressure |
| 33A6-5 | Temperature |
| 33A6-6 | Viscosity |
| 33A6-7 | Volume |
| 33A6-8 | Analyzer |
| 33A7 | GAS |
| 33A7-2 | Density |
| 33A7-3 | Flow Meter |
| 33A7-4 | Pressure |
| 33A7-5 | Temperature |
| 33A7-6 | Volume |
| 33A7-7 | Weight |
| 33A7-8 | Analyzer |
| 33A7-9 | Monitor |
| 33A8 | SOLIDS |
| 33A8-2 | Balancing |
| 33A8-3 | Hardness |
| 33A8-4 | Tensile Strength |
| 33A8-5 | Volume |
| 33A8-6 | Weight |
| 33A9 | TIME |
| 33A9-2 | Watch Recording Device |
| 33A10 | NON-AERONAUTICAL ENGINES |
| 33AA | ASSOCIATED EQUIPMENT |
| 33AA1 | ADAPTERS |
| 33AA2 | PANELS |

| | |
|---------|-------------------------|
| 33AA3 | BLOWERS |
| 33AA4 | BOXES |
| 33AA4-2 | Attenuator |
| 33AA4-3 | Jack |
| 33AA4-4 | Junction |
| 33AA4-5 | Relay |
| 33AA4-6 | Shunt |
| 33AA5 | CORDS OR CABLES |
| 33AA6 | DECADE RESISTORS |
| 33AA7 | DUMMY LOADS |
| 33AA8 | DYNAMOTORS |
| 33AA9 | AIR SUPPLIES |
| 33AA10 | CHAMBERS |
| 33AA11 | FREQUENCY CONVERTERS |
| 33AA12 | HEADSETS |
| 33AA13 | INVERTERS |
| 33AA14 | JACKS |
| 33AA15 | MICROPHONES |
| 33AA16 | PLUGS |
| 33AA17 | POWER SUPPLIES |
| 33AA18 | PROBES |
| 33AA19 | SHUNTS AND MULTIPLIERS |
| 33AA20 | TEST ANTENNAS |
| 33AA21 | TUBE ANALYZERS |
| 33AA22 | VOLTAGE DIVIDERS |
| 33AA23 | FITTINGS |
| 33AA24 | CAPSULES |
| 33AA25 | CHARGERS |
| 33AA26 | MOTORS |
| 33AA27 | METERS (Use 33A1) |
| 33AA28 | HORNS |
| 33AA29 | COMPRESSORS (TEST) |
| 33AA30 | PUMPS |
| 33AA31 | VALVES |
| 33AA32 | BLOWERS (See 33AA3) |
| 33AA33 | AMPLIFIERS (Use 33A1-2) |
| 33AA34 | SERVOSCOPES |
| 33AA35 | TIMERS |
| 33AA36 | ATTENUATORS |
| 33AA37 | ACCELERATORS |
| 33AA38 | SYNCHRONIZERS |
| 33AA39 | DIGITAL COMPONENTS |
| 33AA40 | COUPLERS |
| 33AA41 | CONVERTERS |
| 33AA42 | COMMUTATORS |
| 33AA43 | CALIBRATION UNITS |
| 33AA44 | KEYBOARDS |
| 33AA45 | INDICATORS |
| 33AA46 | TELETYPEWRITERS |
| 33AA47 | FREQUENCY DIVIDERS |
| 33AA48 | STORAGE DISPLAY UNITS |
| 33AA49 | TRANSLATORS |

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| 33AA50 | TRANSPORT MAGNETIC TAPE |
| 33AA51 | RESISTORS |
| 33B | INSPECTION TEST EQUIPMENT |
| 33B1 | CHEMICAL |
| 33B1-2 | Penetrants |
| 33B2 | ELECTRICAL |
| 33B3 | ELECTRONIC |
| 33B3-2 | Reflectoscopes |
| 33B3-3 | X-Ray |
| 33B4 | OPTICAL |
| 33B4-2 | Inspectoscope, Borescope |
| 33B4-3 | Comparator |
| 33B4-4 | Binoculars |
| 33B4-5 | Theodolite |
| 33B4-6 | Collimator |
| 33B4-7 | Indicator |
| 33B4-8 | Calibration |
| 33B4-9 | Power Meter |
| 33B4-10 | Visual |
| 33B4-11 | Photometric |
| 33B5 | INSPECTION STANDS |
| 33B6 | X-RAY (Also see 33B3-3) |
| 33B7 | SHOP EQUIPMENT |
| 33B8 | LIGHTS AND LAMPS |
| 33C | LABORATORY TEST EQUIPMENT |
| 33C1 | ANALYTICAL AND LEAK DETECTORS |
| 33C2 | MEASUREMENT |
| 33C3 | TEMPERATURE |
| 33C4 | LABORATORY FIXTURES |
| 33D | SPECIAL PURPOSE TEST EQUIPMENT |
| 33D1 | AIRCRAFT AND MISCELLANEOUS GROUND SUPPORT EQUIPMENT |
| 33D1-2 | Bomber |
| 33D1-3 | Cargo |
| 33D1-4 | Fighter |
| 33D1-5 | Helicopter |
| 33D1-6 | Liaison |
| 33D1-7 | Trainer |
| 33D1-8 | Drone |
| 33D2 | AIRCRAFT ACCESSORIES (AIRBORNE) |
| 33D2-2 | Fire Detector System |
| 33D2-3 | Fuel System |
| 33D2-4 | Generator |
| 33D2-5 | Hydraulic System, Hydraulic Servo Actuator |
| 33D2-6 | Instrument, Crash Position Instrument |
| 33D2-7 | Landing Gear |
| 33D2-8 | Navigation System, Simulator Indexing |
| 33D2-9 | Oil System |
| 33D2-10 | Oxygen System |
| 33D2-11 | Propeller |
| 33D2-12 | Vacuum, Pneumatic System |
| 33D2-13 | Aerial Refueling |
| 33D2-14 | Cabin Heat, Vent |

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| 33D2-15 | Weight and Balance System |
| 33D2-16 | De-Icing |
| 33D2-17 | Alternator |
| 33D2-18 | Air-Conditioning |
| 33D2-19 | Warning System |
| 33D2-20 | Explosion Extinguishing |
| 33D2-21 | Loader Assembly |
| 33D2-22 | Computer |
| 33D2-23 | Brake System |
| 33D2-24 | Helium Charging System |
| 33D2-25 | Recording System and Components |
| 33D2-26 | Assessment System and Components |
| 33D2-27 | Electrical System |
| 33D2-28 | Pressurization System |
| 33D2-29 | Variable Air Inlet System |
| 33D2-30 | Pod Assembly |
| 33D2-31 | Launch Gear Assembly |
| 33D2-32 | Starter |
| 33D2-33 | Augmenter System |
| 33D2-34 | Ejection System (Canopy) |
| 33D2-35 | Stabilization System |
| 33D2-36 | Hoist Assembly |
| 33D2-37 | Aerial Delivery System |
| 33D2-38 | Guidance System |
| 33D2-39 | Environmental Control System |
| 33D2-40 | Stall Prevention System |
| 33D2-41 | All Weather Landing System |
| 33D2-42 | Cargo Loading |
| 33D2-43 | Rescue and Survival |
| 33D2-44 | Radome System |
| 33D2-45 | Egress System |
| 33D2-46 | Head-Up Display Set |
| 33D2-47 | Atmospheric Research |
| 33D3 | AUTOMATIC FLIGHT CONTROL SYSTEMS (AIRBORNE) |
| 33D3-2 | Amplifier |
| 33D3-3 | Voltage, Current |
| 33D3-4 | Control Assembly, Yaw Damper |
| 33D3-5 | Electron Tube |
| 33D3-6 | Gyroscope |
| 33D3-7 | Power Supply |
| 33D3-8 | Servo |
| 33D3-9 | System, Yaw Damper |
| 33D3-10 | Table, (Rate, Speed, Variable, Rate Gyro) |
| 33D3-11 | Ejector |
| 33D3-12 | Linkage Assembly |
| 33D3-13 | Screwjack |
| 33D3-14 | Converter |
| 33D3-15 | Actuator |
| 33D3-16 | Reactor |
| 33D3-17 | Indicator |
| 33D3-18 | Spike Position |
| 33D3-19 | Autopilot (See 33D3-9 Also) |

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|---------|-------------------------|
| 33D3-20 | Valve |
| 33D3-21 | Accelerometer |
| 33D3-22 | Drive Assembly |
| 33D3-23 | Transducer |
| 33D3-24 | Computer |
| 33D3-25 | Adapter, Fixture |
| 33D3-26 | Card Assembly |
| 33D3-27 | Relay Unit |
| 33D3-28 | Regulator |
| 33D3-29 | Starter |
| 33D3-30 | Limiter |
| 33D3-31 | Leak Test |
| 33D3-32 | Shifter |
| 33D3-33 | Rack, Panel |
| 33D3-34 | Comparator |
| 33D3-35 | Coupler |
| 33D3-36 | Module |
| 33D3-37 | Electronic Plug-In |
| 33D3-38 | Transmitter |
| 33D3-39 | Altimeter |
| 33D3-40 | Switch |
| 33D3-41 | Sensor |
| 33D4 | AIRCRAFT ENGINES |
| 33D4-2 | Reciprocating |
| 33D4-3 | Rocket |
| 33D4-4 | Ramjet |
| 33D4-5 | Pulsejet |
| 33D4-6 | Turbojet |
| 33D4-7 | Turboprop |
| 33D5 | ARMAMENT |
| 33D5-2 | Amplifier |
| 33D5-3 | Cable, Circuit |
| 33D5-4 | Compass |
| 33D5-5 | Computer |
| 33D5-6 | Calibration |
| 33D5-7 | Gyroscope |
| 33D5-8 | Radar |
| 33D5-9 | Sight |
| 33D5-10 | Turret |
| 33D5-11 | Platform |
| 33D5-12 | System |
| 33D5-13 | Table |
| 33D5-14 | Voltage, Current |
| 33D5-15 | Test Bench |
| 33D5-16 | Control |
| 33D5-17 | Dehydrator |
| 33D5-18 | Timing, Sequencing |
| 33D5-19 | Cord (Do not use) |
| 33D5-20 | Simulator |
| 33D5-21 | Panel |
| 33D5-22 | Radaltor, Evaluators |
| 33D5-23 | Power Supply |

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| 33D5-24 | Components |
| 33D5-25 | Leak Test |
| 33D5-26 | Phototube |
| 33D5-27 | Astro Tracker |
| 33D5-28 | Spring Tester |
| 33D5-29 | Squib |
| 33D5-30 | Pylon |
| 33D5-31 | Boresight |
| 33D5-32 | Indicator |
| 33D5-33 | Sensor |
| 33D5-34 | Compensator |
| 33D5-35 | Converter |
| 33D5-36 | Switch |
| 33D5-37 | Repeater |
| 33D5-38 | Generator |
| 33D5-39 | Antenna |
| 33D5-40 | Detector |
| 33D5-41 | Multiplier |
| 33D5-42 | Receiver - Transmitter |
| 33D5-43 | Display Unit |
| 33D5-44 | Gear Accuracy |
| 33D5-45 | Limiter |
| 33D5-46 | Comparator, Analyzer |
| 33D5-47 | Synchronizer |
| 33D5-48 | Drive |
| 33D5-49 | Infrared Tester |
| 33D5-50 | Tool Kit |
| 33D5-51 | Ratiometers (Use 33A1) |
| 33D5-52 | Transducer |
| 33D5-53 | Rack |
| 33D5-54 | Plug-In Assembly |
| 33D5-55 | Filter |
| 33D5-56 | Spray Tank |
| 33D5-57 | Rocket |
| 33D5-58 | Nitrogen Circulator |
| 33D5-59 | Firing Pin |
| 33D5-60 | Guided Glide Weapon |
| 33D5-61 | Destructor |
| 33D5-62 | Eluminator |
| 33D5-63 | Stores |
| 33D5-64 | Motor |
| 33D5-65 | Collimator |
| 33D5-66 | Dispenser |
| 33D5-67 | Fuze |
| 33D6 | AUTOMOTIVE |
| 33D6-2 | Brake |
| 33D6-3 | Engine |
| 33D6-4 | Headlight |
| 33D6-5 | Instrument |
| 33D6-6 | Wheel |
| 33D7 | ELECTRICAL AND ELECTRONIC |
| 33D7-2 | Amplifier |

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| 33D7-3 | Computer |
| 33D7-4 | Intercommunication |
| 33D7-5 | Phasing and Null Station |
| 33D7-6 | Power Supply |
| 33D7-7 | Quartz Crystal Unit |
| 33D7-8 | Simulator |
| 33D7-9 | Gyroscope, Gyroscope Platform |
| 33D7-10 | Analyzer |
| 33D7-11 | Radome |
| 33D7-12 | Data Recorder, Reader |
| 33D7-13 | Countermeasures |
| 33D7-14 | Identification, Friend-or-Foe - Radar |
| 33D7-15 | RF Head |
| 33D7-16 | Air Data System |
| 33D7-17 | Converter |
| 33D7-18 | Relay |
| 33D7-19 | Selector |
| 33D7-20 | Indicator |
| 33D7-21 | Shift Register |
| 33D7-22 | Detector, Leak Detectors |
| 33D7-23 | Servo |
| 33D7-24 | Video |
| 33D7-25 | Console |
| 33D7-26 | Teletypewriter |
| 33D7-27 | Antenna Boresight |
| 33D7-28 | Voltage, Current |
| 33D7-29 | Transmitter, Transceiver |
| 33D7-30 | Telemetry |
| 33D7-31 | Circuit |
| 33D7-32 | Pods |
| 33D7-33 | Module, Scanner Test Station |
| 33D7-34 | Tracking |
| 33D7-35 | Antenna |
| 33D7-36 | Receiver |
| 33D7-37 | Detection Radar Data Takeoff |
| 33D7-38 | System, Circuit Board |
| 33D7-39 | Scorer |
| 33D7-40 | Time Delay |
| 33D7-41 | Routing Assembly |
| 33D7-42 | Programmer |
| 33D7-43 | Rectifier |
| 33D7-44 | Radar |
| 33D7-45 | Calibration |
| 33D7-46 | Beacon |
| 33D7-47 | Control, Temperature Controllers |
| 33D7-48 | Miss Distance Measuring |
| 33D7-49 | Electronic Circuit Plug-In |
| 33D7-50 | Adapters, Interface Unit |
| 33D7-51 | Reconnaissance |
| 33D7-52 | Cylinder |
| 33D7-53 | Compressor |
| 33D7-54 | Go-No-Go |

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| 33D7-55 | Discriminator |
| 33D7-56 | Oscillator |
| 33D7-57 | Electron Tube |
| 33D7-58 | Device, Drive |
| 33D7-59 | Generator |
| 33D7-60 | Comparator |
| 33D7-61 | Unit, Auxiliary Power Unit |
| 33D7-62 | Meteorological |
| 33D7-63 | Platform, Gyroscope, Accelerometer |
| 33D7-64 | Telegraph |
| 33D7-65 | Evaluator |
| 33D7-66 | Matrix Unit |
| 33D7-67 | Anti-Aircraft Fire Control |
| 33D7-68 | Memory |
| 33D7-69 | Magnetic Drum, Disk |
| 33D7-70 | Binary |
| 33D7-71 | Radio |
| 33D7-72 | Driver |
| 33D7-73 | Target Drone |
| 33D7-74 | Refrigeration |
| 33D7-75 | Multiplexer |
| 33D7-76 | Card |
| 33D7-77 | Display |
| 33D7-78 | Interrogator |
| 33D7-79 | Motor |
| 33D7-80 | Laser |
| 33D7-81 | Readout |
| 33D7-82 | Certification |
| 33D7-83 | Buffer |
| 33D7-84 | Error Corrector |
| 33D7-85 | Cold Proof Load Tester |
| 33D7-86 | Monitor |
| 33D7-87 | Compensator |
| 33D7-88 | TV Monitor |
| 33D7-89 | Mixer |
| 33D7-90 | Assembler |
| 33D7-91 | Editor |
| 33D7-92 | PROMS (Programmable Read-Only Memory System) |
| 33D7-93 | EROMS (Eraseable Read-Only Memory System) |
| 33D7-94 | ROMS (Read-Only Memory System) |
| 33D7-95 | Blanking |
| 33D7-96 | Processor |
| 33D7-97 | EPROMS (Eraseable Programmable Read-Only Memory Systems) |
| 33D7-98 | Vessel Assembly |
| 33D7-99 | Outlet Assembly |
| 33D9 | GUIDED MISSILES |
| 33D9-2 | Fuel System |
| 33D9-3 | Guidance System |
| 33D9-4 | Hydraulic |
| 33D9-5 | Power Plant (Engine) |
| 33D9-6 | Power Supply |
| 33D9-7 | Flight Control |

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| 33D9-8 | Selector Van |
| 33D9-9 | Missile Components |
| 33D9-10 | Release Navigation Computer |
| 33D9-11 | Generator and Case Assembly |
| 33D9-12 | Hoist Support Boom |
| 33D9-13 | Payload |
| 33D9-14 | Simulator |
| 33D9-15 | Amplifier |
| 33D9-16 | Power Box |
| 33D9-17 | Control |
| 33D9-18 | Actuator, Motor |
| 33D9-19 | Adapter |
| 33D9-20 | Fuzing System |
| 33D9-21 | Oscillator |
| 33D9-22 | Gauge |
| 33D9-24 | Resolver |
| 33D9-25 | Timers |
| 33D9-26 | Ignitor |
| 33D9-27 | Targeting Tester |
| 33D9-28 | Frequency Meter |
| 33D9-29 | Indicator, Counter |
| 33D9-30 | Checkout |
| 33D9-31 | Pneumatic |
| 33D9-32 | Selector |
| 33D9-33 | Mechanical Instrument |
| 33D9-34 | Exerciser |
| 33D9-35 | Converter |
| 33D9-36 | Battery |
| 33D9-37 | Inverter |
| 33D9-38 | Circuit |
| 33D9-39 | Calibration |
| 33D9-40 | Analyzer, Dynamic Signal |
| 33D9-41 | Inspection Equipment Tester |
| 33D9-42 | Radar |
| 33D9-43 | Command |
| 33D9-44 | Beacon |
| 33D9-45 | Launch Control |
| 33D9-46 | Antenna |
| 33D9-47 | Transmitter and Receiver |
| 33D9-48 | Pack |
| 33D9-49 | Rectifier |
| 33D9-50 | Reference |
| 33D9-51 | Tape |
| 33D9-52 | Junction Box |
| 33D9-53 | Computer |
| 33D9-54 | Miscellaneous Test Set |
| 33D9-55 | Pump |
| 33D9-56 | Platform |
| 33D9-57 | Meter, Measuring |
| 33D9-58 | Generator, Controller |
| 33D9-59 | Electrical System |
| 33D9-60 | Interrogator |

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| 33D9-61 | System Tester |
| 33D9-62 | Transponder |
| 33D9-63 | Acid System |
| 33D9-64 | Re-Entry Vehicle |
| 33D9-65 | Motor Generator |
| 33D9-66 | Synchro Zeroing |
| 33D9-67 | Computer (See 33D9-53) |
| 33D9-68 | Cable |
| 33D9-69 | Jack Box |
| 33D9-70 | Density |
| 33D9-71 | Gimbal Assembly |
| 33D9-72 | Gyroscope |
| 33D9-73 | Fluid Transfer System |
| 33D9-74 | Programmer Device, Fault Isolation |
| 33D9-75 | Transducer |
| 33D9-76 | Network |
| 33D9-77 | Distributor |
| 33D9-78 | Propellant Handling |
| 33D9-79 | Auxiliary Ring |
| 33D9-80 | Hydro-Pneumatic Trailer |
| 33D9-81 | Liquid Oxygen Trailer |
| 33D9-82 | Power Distribution Trailer |
| 33D9-83 | Fault Isolation, Security System Alarm Set |
| 33D9-84 | Leakage Detector |
| 33D9-85 | Optical |
| 33D9-86 | Checkout Tray |
| 33D9-87 | Signal Conditioner |
| 33D9-88 | Relay |
| 33D9-89 | Instrumentation |
| 33D9-90 | Stabilization Filter |
| 33D9-91 | Engine (See 33D9-5) |
| 33D9-92 | Valve (See 33D9-106) |
| 33D9-93 | Thermal Resistor |
| 33D9-94 | Adjuster |
| 33D9-95 | Moisture Content Tester |
| 33D9-96 | Handler's Environment |
| 33D9-97 | Telephone |
| 33D9-98 | Servo |
| 33D9-99 | Confidence Tester |
| 33D9-100 | Message Generator, Sweep |
| 33D9-101 | Continuity Tester |
| 33D9-102 | Cannister |
| 33D9-103 | Dead Weight |
| 33D9-104 | Recording |
| 33D9-105 | Triplexer |
| 33D9-106 | Valve (See 33D9-92) |
| 33D9-107 | Verifier |
| 33D9-108 | Safety and Arming |
| 33D9-109 | Sensing Instrument |
| 33D9-110 | Injection |
| 33D9-111 | Monitor |
| 33D9-112 | Data Link |

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| 33D9-113 | Insulation |
| 33D9-114 | Rapid Firing |
| 33D9-115 | Transistorized Unit |
| 33D9-116 | Video Unit, Monitor |
| 33D9-117 | Reader (Decoder) |
| 33D9-118 | Oscilloscope (Do not use) |
| 33D9-119 | Trucks |
| 33D9-120 | Gas Systems |
| 33D9-121 | Offensive Subsystem |
| 33D9-122 | Heater, Cooler |
| 33D9-123 | Electronic Component |
| 33D9-124 | Trainer |
| 33D9-125 | Signal Generator (See 33D9-100) |
| 33D9-126 | Roofs and Erector |
| 33D9-127 | Ordnance |
| 33D9-128 | Panel, Release Control |
| 33D9-129 | Module |
| 33D9-130 | Cylinder |
| 33D9-131 | Switch |
| 33D9-132 | Sensitol Unit |
| 33D9-133 | Communication |
| 33D9-134 | Umbilical |
| 33D9-135 | Destruction System |
| 33D9-136 | Sequence Assembly |
| 33D9-137 | Alarm |
| 33D9-138 | Contamination Unit |
| 33D9-139 | Sump Tank |
| 33D9-140 | Alignment |
| 33D9-141 | Discriminator |
| 33D9-142 | Accelerometer |
| 33D9-143 | Degausser |
| 33D9-144 | Astrotracker |
| 33D9-145 | Receiver |
| 33D9-146 | Tuning Head |
| 33D9-147 | Ejector Rack |
| 33D9-148 | Common Missile Assembly |
| 33D9-149 | Missile Bit |
| 33D9-150 | Data Simulator |
| 33D10 | PHOTOGRAPHIC EQUIPMENT |
| 33D10-2 | Camera |
| 33D10-3 | Diaphragm Test Fixture |
| 33D10-4 | Ejector |
| 33D10-5 | Collimator |
| 33D10-6 | Servo Test |
| 33D10-7 | Developer, Processor |
| 33D10-8 | Magazine |
| 33D10-9 | Shutter Trip, Timer |
| 33D10-10 | Simulator |
| 33D10-11 | Spot Scanner |
| 33D10-12 | Amplifier |
| 33D10-13 | Control |
| 33D10-14 | Modulator, Demodulator |

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| 33D10-15 | Power Supply |
| 33D10-16 | Measuring, Counting |
| 33D10-17 | Mockup System |
| 33D10-18 | Oscillator |
| 33D10-19 | Indicator |
| 33D10-20 | Table |
| 33D10-21 | Gyroscope |
| 33D10-22 | Radar Recording Camera |
| 33D10-23 | Viewfinder |
| 33D10-24 | Detector |
| 33D10-25 | Photogrammetric |
| 33D10-26 | Mounting Base, Chassis |
| 33D10-27 | Mount (Use 33D10-26) |
| 33D10-28 | Analyzer |
| 33D10-29 | Switch |
| 33D10-30 | Balance Tester |
| 33D10-31 | Photo Recording Unit |
| 33D10-32 | Synchronizer |
| 33D10-33 | Converter |
| 33D10-34 | Drive Assembly |
| 33D10-35 | Photoflash |
| 33D10-36 | Calibrator |
| 33D10-37 | Photo Adapter Unit |
| 33D10-38 | Fixture |
| 33D10-39 | Cooling Unit |
| 33D10-40 | Transducer |
| 33D10-41 | Printer |
| 33D10-42 | Encoder |
| 33D10-43 | System |
| 33D10-44 | Computer |
| 33D10-45 | Cassette |
| 33D10-46 | Module |
| 33D10-47 | Infrared Photo Reconnaissance |
| 33D10-48 | Focusing Aid |
| 33D10-49 | Verifier |
| 33D11 | PHYSIOLOGICAL |
| 33D11-2 | Lie Detector |
| 33D11-3 | Stereoscopic |
| 33D11-4 | Test Chamber |
| 33D12 | TRAINING DEVICES |
| 33D12-2 | Current and Voltage |
| 33D12-3 | Recorder |
| 33D12-4 | Servo |
| 33D12-5 | System |
| 33D12-6 | Console |
| 33D12-7 | Tow Target |
| 33D13 | FLIGHT SIMULATORS |
| 33D13-2 | Bomber |
| 33D13-3 | Cargo |
| 33D13-4 | Test Rack |
| 33D13-5 | Test Cart |
| 33DA | ASSOCIATED EQUIPMENT |

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|--------|-----------------------------------|
| 33DA1 | ADAPTERS |
| 33DA2 | RELAYS |
| 33DA3 | PANEL ASSEMBLIES |
| 33DA4 | EVALUATORS |
| 33DA5 | MONITORS |
| 33DA6 | INTERROGATORS |
| 33DA7 | ENCODERS |
| 33DA8 | GENERATORS |
| 33DA9 | CONTROLS |
| 33DA10 | RF LINK |
| 33DA11 | POWER SUPPLIES |
| 33DA12 | BOARDS, MULTI-MODULE |
| 33DA13 | POWER DISTRIBUTION |
| 33DA14 | AIR- AND SELF- TEST |
| 33DA15 | MISSILE ELECTRONICS |
| 33DA16 | SERVOS |
| 33DA17 | COMPARATORS |
| 33DA18 | TIMERS (Use 33A1-10) |
| 33DA19 | PROGRAMMERS |
| 33DA20 | BOX ASSEMBLIES, REGULATOR CHASSIS |
| 33DA21 | FIXTURE ASSEMBLIES |
| 33DA22 | LOAD BANKS |
| 33DA23 | LOAD BOXES (Use 33DA22) |
| 33DA24 | REGULATORS |
| 33DA25 | BOXES |
| 33DA26 | CHARGERS |
| 33DA27 | CONVERTERS |
| 33DA28 | PNEUMATIC SYSTEMS |
| 33DA29 | AMPLIFIERS |
| 33DA30 | RECORDERS |
| 33DA31 | OSCILLOSCOPES |
| 33DA32 | DRAWERS |
| 33DA33 | CHAMBERS |
| 33DA34 | DELAY LINES |
| 33DA35 | CONSOLES |
| 33DA36 | VALVES |
| 33DA37 | ATTACHMENTS |
| 33DA38 | TRANSFORMERS AND TRANSMITTERS |
| 33DA39 | METERS AND MEASURING EQUIPMENT |
| 33DA40 | PUMPS |
| 33DA41 | ANALYZERS |
| 33DA42 | INDICATORS |
| 33DA43 | DRIVES AND GEAR ASSEMBLIES |
| 33DA44 | MEMORY UNITS |
| 33DA45 | SIMULATORS |
| 33DA46 | DETECTORS |
| 33DA47 | BLOWERS (See 35E) |
| 33DA48 | MODULATORS AND DEMODULATORS |
| 33DA49 | FILTERS |
| 33DA50 | DELAY CIRCUITS |
| 33DA51 | AIR CONDITIONING (See 35E) |
| 33DA52 | MICROWAVE |

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| 33DA53 | FREQUENCY SOURCE |
| 33DA54 | LIMIT COUNTERS |
| 33DA55 | RESOLVERS |
| 33DA56 | ANTENNA DRIVERS |
| 33DA57 | SOURCE, RADIO-FREQUENCY |
| 33DA58 | CHECKERS |
| 33DA59 | BRIDGES |
| 33DA60 | PLUG-IN ASSEMBLIES |
| 33DA61 | COMPRESSORS (See 34Y1) |
| 33DA62 | CYLINDERS |
| 33DA63 | VOLTMETERS (Use 33A1-12) |
| 33DA64 | CIRCUIT BREAKERS |
| 33DA65 | REGISTERS |
| 33DA66 | MICRO-POSITIONERS |
| 33DA67 | FANS AND BLOWERS (See 35E) |
| 33DA68 | DISC ASSEMBLIES |
| 33DA69 | PRESELECTOR ASSEMBLIES |
| 33DA70 | VERNISTATS |
| 33DA71 | SYNCHRONIZERS |
| 33DA72 | TRANSMITTERS |
| 33DA73 | DIGITIZERS |
| 33DA74 | COMMUTATORS |
| 33DA75 | GAUGES |
| 33DA76 | ACCUMULATORS |
| 33DA77 | THERMOSTATS |
| 33DA78 | LEAK TRACING DEVICES (See 33D3-31 and 33D9-84) |
| 33DA79 | PRESSURE BOXES (Use 33DA20) |
| 33DA80 | PLATE ASSEMBLIES |
| 33DA81 | MOTORS AND ACTUATORS (See 33D7-79) |
| 33DA82 | COMPUTERS (See 33D7-3) |
| 33DA83 | COMPENSATORS |
| 33DA84 | TANKS |
| 33DA85 | BENCHES |
| 33DA86 | SWITCHES |
| 33DA87 | TABLES |
| 33DA88 | THERMOMETERS, TEMPERATURE INDICATORS |
| 33DA89 | STARTERS |
| 33DA90 | RECTIFIERS |
| 33DA91 | GRAVITY TESTERS |
| 33DA92 | CALIBRATORS (See 33D7-45) |
| 33DA93 | TRANSPONDER SETS |
| 33DA94 | ALTERNATORS |
| 33DA95 | BRAKE ASSEMBLIES |
| 33DA96 | DOOR AND WINDOW ASSEMBLIES |
| 33DA97 | TRANSDUCERS AND FLOWSSENSORS |
| 33DA98 | PROBES |
| 33DA99 | HORNS |
| 33DA100 | COUPLING ASSEMBLIES |
| 33DA101 | CLEANERS (Use 34Y2) |
| 33DA102 | COOLER UNITS |
| 33DA103 | CABLE ASSEMBLIES |
| 33DA104 | TERMINALS |

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| 33DA105 | JUMPER ASSEMBLIES |
| 33DA106 | MANIFOLDS |
| 33DA107 | HOSE AND REELS |
| 33DA108 | PRINTERS |
| 33DA109 | DIVIDING HEADS |
| 33DA110 | TRANSPORTS |
| 33DA111 | PLOTTERS |
| 33DA112 | LOADERS |
| 33DA113 | TAPE HEADS |
| 33DA114 | OPTICAL UNITS |
| 33DA115 | TAPES AND TAPE COMPONENTS |
| 33DA116 | TARGETS |
| 33DA117 | POSITIONERS |
| 33DA118 | APPLICATORS |
| 33DA119 | MODULES (See 33D7-33) |
| 33DA120 | TELESCOPES |
| 33DA121 | CABINETS |
| 33DA122 | STANDARDS |
| 33DA123 | TEST KITS |
| 33DA124 | RIGGING KIT |
| 33K | CALIBRATION PROCEDURES |
| 33K1 | PRECISION MEASURING EQUIPMENT (PME), VOLTAGE, CURRENT, AND POWER |
| 33K2 | PME, IMPEDANCE |
| 33K3 | PME, FREQUENCY |
| 33K4 | PME, MICROWAVE |
| 33K5 | PME, TEMPERATURE |
| 33K6 | PME, MECHANICAL |
| 33K7 | PME, RADIAC, AND SPECIAL WEAPONS |
| 33K8 | PME, ELECTRICAL |
| 33K9 | AUTOMATIC TEST SYSTEMS |

CHAPTER 25

CATEGORY 34 - SHOP MACHINERY AND SHOP SUPPORT EQUIPMENT

25.1 GENERAL.

Category 34 contains five shop machinery and shop support equipment systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore, TO numbers in Category 34 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 25.2.

25.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

25.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

25.2 NUMBERING PATTERNS.

25.2.1 Group One. This group has three parts identifying the category, system and equipment series within a system.

25.2.1.1 Part one is always the numeric 34 identifying Category 34.

25.2.1.2 Part two is an alpha character identifying the shop machinery systems, i.e., C - cutting machines; F - finishing machines; G - forming machines; W - welding and heat treating equipment; and Y - shop support equipment.

25.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series are outlined in Paragraph 25.4.

25.2.2 Group Two. TO numbering patterns in Category 34 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

25.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

25.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

25.2.3 Group Three.

25.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 34:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

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25.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 34:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

25.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific components.

25.2.4 Group Four. When the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 25.2.3.1, above.

25.3 EXAMPLES OF CATEGORY 34 NUMBERING PATTERNS.

25.3.1 Example One. Operating instructions with parts breakdown for a drill press, model 1024:

34C2-3-12-1
34 Category 34
C Cutting Machines
2 Metal Cutting Machine Series
3 Drill Press Subseries
12 Represents Model 1024
1 Number Reserved for Operating Instructions

25.3.2 Example Two. Installation instructions for a honing machine, model 244:

34F2-3-13-7
34 Category 34
F Finishing Machines
2 Metal Finishing Series
3 Hone Subseries
13 Represents Model 244
7 Number Reserved for Installation Instructions

25.3.3 Example Three. An overhaul instruction for a low-pressure air compressor, model MS11:

34Y1-132-3
34 Category 34
Y Shop Support Equipment
1 Air Compressor Series
132 Represents Model MS11
3 Number Reserved for Overhaul Instructions

25.4 CATEGORY 34 NUMBERING SERIES.

34 SHOP MACHINERY AND SHOP SUPPORT EQUIPMENT
34C CUTTING MACHINES
34C1 LEATHER
34C2 METAL

| | |
|---------|----------------------|
| 34C2-2 | Boring |
| 34C2-3 | Drill Press |
| 34C2-4 | Lathe |
| 34C2-5 | Milling |
| 34C2-6 | Planer |
| 34C2-7 | Punch Press |
| 34C2-8 | Saw |
| 34C2-9 | Shaper |
| 34C2-10 | Shear |
| 34C2-11 | Reamer Driver |
| 34C2-12 | Threader |
| 34C2-13 | Disintegrating |
| 34C2-14 | Drum |
| 34C2-15 | Routing |
| 34C2-16 | Centering |
| 34C2-17 | Keyseater |
| 34C3 | PAPER |
| 34C3-2 | Shredder |
| 34C3-3 | Drill |
| 34C4 | WOOD |
| 34C4-2 | Jointer and Mortiser |
| 34C4-3 | Lathe (Use 34C4-8) |
| 34C4-4 | Planer |
| 34C4-5 | Router |
| 34C4-6 | Saw |
| 34C4-7 | Shaper |
| 34C4-8 | Lathe |
| 34C4-9 | Boring |
| 34C4-10 | Milling |
| 34F | FINISHING MACHINES |
| 34F1 | GLASS |
| 34F2 | METAL |
| 34F2-2 | Grinder |
| 34F2-3 | Honing |
| 34F2-4 | Sharpener |
| 34F2-5 | Lapping |
| 34F2-6 | Electroplating |
| 34F2-7 | Vibratory |
| 34F2-8 | Gear Hobbing |
| 34F3 | WOOD |
| 34F3-2 | Floor |
| 34F3-3 | Sander |
| 34F3-4 | Surfacer |
| 34G | FORMING MACHINES |
| 34G1 | METAL |
| 34G1-2 | Brakes |
| 34G1-3 | Forger |
| 34G1-4 | Header |
| 34G1-5 | Press |
| 34G1-6 | Roll |
| 34G1-7 | Shaper |
| 34G1-8 | Grooving |

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|---------|-------------------------------------|
| 34G1-9 | Flaring |
| 34G1-10 | Bending |
| 34G1-11 | Coiler |
| 34G1-12 | Stamping |
| 34G1-13 | Sheet Metal |
| 34G1-14 | Wire |
| 34G2 | RUBBER AND PLASTICS |
| 34W | WELDING AND HEAT TREATING EQUIPMENT |
| 34W1 | FURNACES, INCINERATORS |
| 34W2 | OVENS AND DEHYDRATORS |
| 34W3 | SOLDERING POTS |
| 34W4 | WELDERS |
| 34W5 | EXHAUSTERS |
| 34W6 | FORGES |
| 34W7 | SOLDERING IRON |
| 34W8 | REGULATORS |
| 34W9 | CHAMBERS |
| 34Y | SHOP SUPPORT EQUIPMENT |
| 34Y1 | AIR COMPRESSORS, PUMPS |
| 34Y2 | CLEANERS |
| 34Y3 | DEGREASERS |
| 34Y4 | PAINT SPRAY EQUIPMENT |
| 34Y4-2 | Booth |
| 34Y4-3 | Sprayer |
| 34Y4-4 | Rejuvenator |
| 34Y4-5 | Spray Gun |
| 34Y4-6 | Paint Mixer |
| 34Y5 | PUMPS |
| 34Y5-2 | Water |
| 34Y5-3 | Vacuum |
| 34Y5-4 | Air |
| 34Y5-5 | Oil |
| 34Y5-6 | Hand |
| 34Y5-7 | Liquid |
| 34Y6 | RIVETING MACHINES |
| 34Y7 | SEWING MACHINES |
| 34Y8 | TANKS |
| 34Y8-2 | Dipping |
| 34Y9 | TIRE REPAIR EQUIPMENT |
| 34Y9-2 | Tire Spreader |
| 34Y9-3 | Vulcanizer |
| 34Y9-4 | Recapping Machine |
| 34Y9-5 | Tire Press |
| 34Y9-6 | Breaker |
| 34Y9-7 | Retreading Mold |
| 34Y9-8 | Safety Inflation Guard |
| 34Y9-9 | Reel |
| 34Y10 | WIRE MARKING MACHINES |
| 34Y11 | WRAPPING AND PACKAGING EQUIPMENT |
| 34Y11-2 | Dehydrator |
| 34Y11-3 | Nail Machine |
| 34Y11-4 | Sealer |

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|---------|-----------------------------|
| 34Y11-5 | Stitcher |
| 34Y11-6 | Tying Machine |
| 34Y11-7 | Sprayer, Protective Coating |
| 34Y12 | UNIVERSAL VALVING MACHINES |
| 34Y14 | GAS TRANSFER AND STORAGE |
| 34Y14-2 | Carbon Dioxide |
| 34Y14-3 | Oxygen |
| 34Y15 | STILLS |
| 34Y15-2 | Solvent |
| 34Y15-3 | Water |
| 34Y16 | VACUUM PUMPS (Use 34Y5) |
| 34Y17 | LUBRICATING EQUIPMENT |
| 34Y17-2 | Grease Gun |
| 34Y17-3 | Oil Gun |
| 34Y17-4 | Lubricator |
| 34Y17-5 | Pump |
| 34Y17-6 | Oil Purification Unit |
| 34Y17-7 | Gun Assembly (See 34Y31) |
| 34Y18 | WATER SEPARATORS (FILTERS) |
| 34Y19 | MOTORS |
| 34Y20 | VALVES |
| 34Y20-2 | Solenoid Operated |
| 34Y20-3 | Safety |
| 34Y20-4 | Control |
| 34Y21 | ADAPTERS |
| 34Y22 | DIMPLING MACHINES |
| 34Y23 | CLAMPS |
| 34Y23-2 | Flanging |
| 34Y24 | DRYERS |
| 34Y24-2 | Sand |
| 34Y25 | VANS |
| 34Y25-2 | Telescoping |
| 34Y25-3 | Cabinet |
| 34Y25-4 | Maintenance Shop |
| 34Y26 | STANDS |
| 34Y26-2 | Engine Stand |
| 34Y26-3 | Axle |
| 34Y27 | MAGNETIZERS |
| 34Y28 | MOTOR GENERATORS |
| 34Y29 | STAPLERS |
| 34Y30 | HOSE ASSEMBLY MACHINES |
| 34Y31 | SEALANT EQUIPMENT |
| 34Y32 | PRESSES |
| 34Y33 | CABINETS |
| 34Y34 | ALIGNING EQUIPMENT |
| 34Y34-2 | Connecting Rod Aligner |
| 34Y35 | ENGRAVING MACHINES |
| 34Y35-2 | Pantograph |
| 34Y36 | LINKING MACHINES |
| 34Y37 | DUST FREE BENCHES |
| 34Y38 | MILLING MACHINES (FOUNDRY) |
| 34Y39 | THAWING MACHINES |

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| | |
|-------|--------------------|
| 34Y40 | DESCALING MACHINES |
| 34Y41 | DRYERS |
| 34Y42 | CONTROL UNITS |
| 34Y43 | CHAMBERS |

CHAPTER 26

CATEGORY 35 - GROUND HANDLING, SUPPORT, AIR AND MISSILE BASE OPERATING EQUIPMENT

26.1 GENERAL.

Category 35 contains eight ground handling, support and operating systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 35 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 26.2.

26.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

26.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

26.2 NUMBERING PATTERNS.

26.2.1 Group One. This group has three parts identifying the category, system and equipment series within a system.

26.2.1.1 Part one is always the numeric 35 identifying category 35.

26.2.1.2 Part two is an alpha character identifying the ground handling, support or operating system, i.e., A - aircraft maintenance and inspection equipment; B - aircraft handling and weighing equipment; C - electric power supplies; D - loading and servicing equipment; E - air base utility equipment; G - aircraft ground support equipment; and M - missile erection and launching equipment. Associated equipment for these systems are identified by adding the alpha A immediately following the system identifier, e.g., AA, and CA.

26.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series are outlined in Paragraph 26.4.

26.2.2 Group Two. TO numbering patterns in Category 35 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns.

26.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

26.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

26.2.3 Group Three.

26.2.3.1 When a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 35:

| | |
|-----|--|
| -01 | List of Applicable Publications (LOAP) |
| -06 | Work Unit Code Manuals |
| -07 | thru -09 Reserved |
| -1 | Operating Instructions |
| -2 | Service or Maintenance Manuals |
| -3 | Depot Maintenance or Overhaul Instructions |
| -4 | Illustrated Parts Breakdown |

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- 5 DCSC Technical Maintenance Standards
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

26.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 35:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

26.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific components.

26.2.4 Group Four. If the TO number has four basic groups, the fourth group either identifies specific types of TOs described in Paragraph 26.2.3.1, or it identifies a sequence number when alpha characters were used in group three as described in Paragraph 26.2.3.2. Sequence numbers are described in Paragraph 1.6.2 through Paragraph 1.6.6.

26.3 EXAMPLES OF CATEGORY 35 TO NUMBERING PATTERNS.

26.3.1 Example One. Operating instructions for a regulated power supply, model LP-410A-FM:

35C1-2-462-1
35 Category 35
C Electric Power Supplies
1 System Series
2 Electrical Subseries
462 Represents Model LP-410A-FM
1 Number Reserved for Operating Instructions

26.3.2 Example Two. Illustrated parts breakdown for runway selector switch PN 3303760:

35F14-2-4
35 Category 35
F Field Lighting and Electrical Equipment
14 Switch Series
2 Represents PN 3303760
4 Number Reserved for Illustrated Parts Breakdown

26.3.3 Example Three. An overhaul instruction for compressed oxygen cylinder trailer, type AF/M32R-3:

35D3-6-27-23
35 Category 35
D Loading and Servicing Equipment
3 Truck, Dolly, and Trailer Series
6 Servicing Truck and Trailer Subseries
27 Represents Type AF/M32R-3
23 Number Reserved for Overhaul Instructions

26.4 CATEGORY 35 NUMBERING SERIES.

| | |
|---------|---|
| 35 | GROUND HANDLING, SUPPORT, AIR, AND MISSILE BASE OPERATING EQUIPMENT |
| 35A | AIRCRAFT AND MISSILE MAINTENANCE AND INSPECTION EQUIPMENT |
| 35A1 | DOCKS |
| 35A2 | JACKS |
| 35A2-2 | Aircraft |
| 35A2-3 | Automotive |
| 35A2-4 | General Purpose |
| 35A2-5 | Special Purpose |
| 35A3 | LADDERS AND STAIRCASES |
| 35A4 | STANDS |
| 35A4-2 | Adjustable |
| 35A4-3 | Nonadjustable |
| 35A4-4 | Missile Platform |
| 35A4-5 | Missile Stand |
| 35A4-6 | Blacklight Inspection (Do not use) |
| 35A4-7 | Storage |
| 35A4-8 | Drain |
| 35A5 | JACKPADS |
| 35A6 | RACKS |
| 35AA | ASSOCIATED EQUIPMENT |
| 35AA2 | JACK COMPONENTS |
| 35AA2-2 | Cylinder |
| 35AA2-3 | Pump |
| 35AA2-4 | Valve |
| 35AA3 | (Not used) |
| 35AA4 | STAND COMPONENTS |
| 35AA4-2 | Valve |
| 35AA4-3 | Cable Assembly |
| 35AA4-4 | Pump |
| 35AA4-5 | Coupling |
| 35AA4-6 | Adapter |
| 35B | AIRCRAFT AND MISSILE HANDLING AND WEIGHING EQUIPMENT |
| 35B1 | GROUND LOCK ASSEMBLIES |
| 35B2 | WEIGHING EQUIPMENT |
| 35B2-2 | Aircraft |
| 35B2-3 | Vehicle |
| 35B2-4 | Missile |
| 35B3 | SCALES |
| 35B3-2 | Balance |
| 35B3-3 | Counting |
| 35B3-4 | Platform |
| 35B4 | STEERING BARS |
| 35B5 | TOWBARS |
| 35B6 | TURNTABLES |
| 35B7 | MISSILE STANDS (Use 35A4) |
| 35B8 | SKIDS |
| 35B8-2 | Portable |
| 35B9 | CHOCK ASSEMBLIES |
| 35B10 | PRY BARS |

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|---------|---|
| 35B10-2 | Wheeled |
| 35C | ELECTRIC POWER SUPPLIES |
| 35C1 | SYSTEMS |
| 35C1-2 | Electrical - UPS |
| 35C1-3 | Combination |
| 35C1-4 | Converter |
| 35C1-5 | Voltage Regulator |
| 35C1-6 | Inverter |
| 35C1-7 | Transfer Panel |
| 35C2 | GENERATORS |
| 35C2-2 | Electric Motor Driven |
| 35C2-3 | Engine Driven |
| 35C2-4 | Missile Generator Sets (Use 35C2-3) |
| 35C3 | RECTIFIERS |
| 35C3-2 | Battery Charger |
| 35C3-3 | Power Supply |
| 35C3-4 | Magneto Charger |
| 35C4 | TURBOCHARGERS |
| 35CA | ASSOCIATED EQUIPMENT |
| 35CA1 | BOXES |
| 35CA1-2 | Control |
| 35CA1-3 | Junction |
| 35CA2 | CABINETS |
| 35CA2-2 | Distribution |
| 35CA3 | CABLES AND CABLE SYSTEMS |
| 35CA4 | CHARGERS |
| 35CA4-2 | Magnetic |
| 35CA5 | FAN ASSEMBLIES |
| 35CA6 | PANELS |
| 35CA7 | CONTROLS, OVER-VOLTAGE PROTECTION MODULES |
| 35CA8 | PUMPS |
| 35CA9 | CONTACTORS (Do not use) |
| 35CA10 | RELAYS |
| 35CA11 | DRIVES AND GEAR MOTORS |
| 35CA12 | VALVES |
| 35CA13 | CLUTCH ASSEMBLIES |
| 35CA14 | FILTERS |
| 35CA15 | HYDRAULIC MOTORS |
| 35CA16 | OIL COOLERS |
| 35CA17 | AXLE ASSEMBLIES |
| 35CA18 | MOUNTS |
| 35CA19 | SPEED REDUCERS |
| 35CA20 | STARTERS |
| 35CA21 | GOVERNORS |
| 35CA22 | PLUGS |
| 35CA23 | TURBOCHARGERS |
| 35CA24 | ALTERNATORS |
| 35CA25 | TRANSDUCERS |
| 35CA26 | STABILIZERS |
| 35CA27 | OSCILLATORS |
| 35CA28 | ADAPTERS |
| 35CA29 | MONITORS |

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| 35D | AIRCRAFT AND MISSILE LOADING AND SERVICING EQUIPMENT |
| 35D1 | CABLEWAYS |
| 35D2 | CONVEYORS |
| 35D3 | TRUCKS, DOLLIES, AND TRAILERS |
| 35D3-2 | Bomb |
| 35D3-3 | Engine, Truck Engine Transport |
| 35D3-4 | Fuselage |
| 35D3-5 | Propeller |
| 35D3-6 | Servicing Unit |
| 35D3-7 | Aircraft |
| 35D3-8 | Landing Gear |
| 35D3-9 | Lift |
| 35D3-10 | Air-Conditioning |
| 35D3-11 | Missile, Trailer Transporter-Erector |
| 35D3-12 | Antenna |
| 35D3-13 | Turret (Trailer) |
| 35D3-14 | Bomb Sight |
| 35D3-15 | Flush and Disposal |
| 35D3-16 | Wheel Change |
| 35D3-17 | Lavatory |
| 35D3-18 | Hydraulic |
| 35D3-19 | Nitrogen (See 35D3-6 also) |
| 35D3-20 | Cowling |
| 35D3-21 | Alternator Pack |
| 35D3-22 | Tow Target |
| 35D3-23 | Radar Maintenance |
| 35D3-24 | Platform |
| 35D3-25 | Missile Fuel |
| 35D3-26 | Wing |
| 35D3-27 | Fire Control System |
| 35D3-28 | Instrument |
| 35D3-29 | Missile (See 35D3-11 also) |
| 35D3-30 | Cable |
| 35D3-31 | Oil Servicing |
| 35D3-32 | Crash Removal |
| 35D3-33 | Test Equipment |
| 35D3-34 | Pod |
| 35D3-35 | Spray |
| 35D3-36 | Smoke Generator |
| 35D3-37 | Field Preflight |
| 35D3-38 | Radome |
| 35D3-39 | Chassis Assembly |
| 35D3-40 | Chaff and Decoy Rocket |
| 35D3-41 | Corrosion Control |
| 35D3-42 | Test Station Bay |
| 35D3-43 | Reel Winder |
| 35D3-44 | Infrared Unit |
| 35D3-45 | Fairlead Assembly |
| 35D3-46 | Camera |
| 35D3-47 | Seat |
| 35D4 | HOISTS |
| 35D4-2 | Electric |

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| | |
|---------|---------------------------------|
| 35D4-3 | Hydraulic |
| 35D4-4 | Mechanical |
| 35D4-5 | Pneumatic |
| 35D4-6 | Engine Driven |
| 35D4-7 | Electro-Mechanical |
| 35D5 | LIFTS |
| 35D5-2 | Electric |
| 35D5-3 | Hydraulic |
| 35D5-4 | Mechanical |
| 35D5-5 | Pneumatic |
| 35D5-6 | Remote Control |
| 35D6 | SLINGS |
| 35D6-2 | Engine, Hoisting, Handling |
| 35D6-3 | Fuselage |
| 35D6-4 | Empennage |
| 35D6-5 | Bomb |
| 35D6-6 | Missile |
| 35D6-7 | Propeller |
| 35D6-8 | Canopy |
| 35D6-9 | Turret |
| 35D6-10 | Pylon |
| 35D6-11 | Wing |
| 35D6-12 | Inertial Guidance System |
| 35D6-13 | Landing Gear |
| 35D6-14 | Crash Removal |
| 35D6-15 | Door |
| 35D6-16 | Scanner |
| 35D7 | WINCHES (See 35D4 also) |
| 35D8 | CRADLES |
| 35D8-2 | Afterburner |
| 35D8-3 | Missile |
| 35D8-4 | Boom |
| 35D8-5 | Wing Removal |
| 35D8-6 | Bomb |
| 35D8-7 | Radome |
| 35D8-8 | Antenna |
| 35D8-9 | Pod |
| 35D8-10 | Re-Entry Vehicle |
| 35D8-11 | Rocket Launcher |
| 35D8-12 | Fuselage |
| 35D8-13 | Engine Pylon |
| 35D8-14 | Ejection Seat |
| 35D8-15 | Aircraft Engine |
| 35D8-16 | Miscellaneous |
| 35D9 | LOADING DOCKS |
| 35D10 | (Not used) |
| 35D11 | BINS |
| 35D11-2 | Cargo |
| 35D12 | STARTING EQUIPMENT |
| 35D12-2 | Gas Turbine |
| 35D12-3 | Adapters |
| 35D13 | AUXILIARY LOADING AND SERVICING |

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| 35D13-2 | Missile |
| 35D14 | BEAM ASSEMBLIES |
| 35D15 | TANKS |
| 35D15-2 | Liquid Oxygen |
| 35D16 | MANIFOLDS AND MANIFOLD KITS |
| 35D16-2 | Drain |
| 35D17 | DRYING UNITS |
| 35D18 | FILL UNITS |
| 35D19 | ADAPTERS (Use 35DA3-6) |
| 35D20 | CORD ASSEMBLIES |
| 35D20-2 | Remote Control |
| 35D21 | SPREADERS |
| 35D21-2 | Engine |
| 35D22 | PURGERS (Use 35E22-2) |
| 35D23 | REGULATORS (Use 35E23) |
| 35D24 | SIMULATORS |
| 35D24-2 | Missile |
| 35D25 | FIXTURE ASSEMBLIES |
| 35D25-2 | Missile Rigging |
| 35D25-3 | Breakaway Attachment |
| 35D25-4 | Elevon Installation and Removal |
| 35D25-5 | Torquing |
| 35D25-6 | Bolster Assembly |
| 35D25-7 | Puller Assembly |
| 35D25-8 | Handling |
| 35D25-9 | Landing Gear |
| 35D25-10 | Engine |
| 35D25-11 | Support |
| 35D25-12 | Capsule |
| 35D25-13 | Nozzle |
| 35D25-14 | Gearbox |
| 35D26 | KITS |
| 35D26-2 | Aligning Fixture |
| 35D26-3 | Tiedown |
| 35D26-4 | Rigging |
| 35D26-5 | Pressurizing |
| 35D26-6 | Leveling |
| 35D26-7 | Booster Pump |
| 35D26-8 | Nose Radome |
| 35D27 | RAMPS |
| 35D27-2 | Wheel Set |
| 35D28 | PRIMING ASSEMBLIES |
| 35D28-2 | Hydraulic Oil |
| 35D29 | CARTS |
| 35D29-2 | Missile Propellant |
| 35D29-3 | Hydraulic |
| 35D29-4 | Magnetron |
| 35D29-5 | Liquid |
| 35D29-6 | Lavatory Servicing |
| 35D29-7 | Refrigeration Servicing |
| 35D29-8 | Pneumatic |
| 35D30 | LOADERS |

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| 35D30-2 | Missile |
| 35D30-3 | Aircraft |
| 35D30-4 | Munitions |
| 35D31 | CARRIAGES |
| 35D31-2 | Re-Entry Vehicle |
| 35D31-3 | Rocket Motor |
| 35D32 | RINGS |
| 35D32-2 | Engine Roll Over |
| 35D33 | PALLETS |
| 35D33-2 | Air Cargo |
| 35D34 | PLATFORMS |
| 35D35 | GUIDES |
| 35D36 | MAN LIFT DEVICES |
| 35D37 | PROCESSORS |
| 35DA | ASSOCIATED EQUIPMENT AND COMPONENTS |
| 35DA1 | CABLEWAYS |
| 35DA2 | CONVEYORS |
| 35DA3 | TRUCKS, DOLLIES AND TRAILERS |
| 35DA3-2 | Bomb Truck |
| 35DA3-3 | Cylinder, Pump Assembly |
| 35DA3-4 | Motor, Actuator |
| 35DA3-5 | Cylinder Assembly |
| 35DA3-6 | Adapter |
| 35DA3-7 | Thermostat |
| 35DA3-8 | Blower |
| 35DA3-9 | Power Pack |
| 35DA3-10 | Cap |
| 35DA4 | CONTROLS |
| 35DA5 | RAIL ASSEMBLIES |
| 35DA6 | ACTUATORS |
| 35DA7 | INDICATOR, MISSILE POSITION AND ALIGNMENT |
| 35DA8 | VALVES |
| 35DA9 | FILTER ASSEMBLIES |
| 35DA10 | GEAR REDUCER ASSEMBLIES |
| 35DA11 | GAUGES |
| 35DA12 | METERS |
| 35DA13 | CYLINDERS (See 35DA3-3 also) |
| 35DA14 | REGULATORS |
| 35DA15 | DRIVE ASSEMBLIES |
| 35DA16 | CHASSIS |
| 35DA17 | GUIDE ASSEMBLIES |
| 35E | AIR AND MISSILE BASE UTILITY OPERATING EQUIPMENT |
| 35E1 | FIRE FIGHTING EQUIPMENT |
| 35E1-2 | Fire Extinguisher |
| 35E2 | LANDING MATS |
| 35E3 | PREFABRICATED BUILDINGS |
| 35E4 | SHELTERS |
| 35E5 | TENTS |
| 35E6 | BRIDGES |
| 35E6-2 | Pontoon |
| 35E7 | HEATERS |
| 35E7-2 | Aircraft Ground |

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| 35E7-3 | Engine and Shelter |
| 35E7-4 | Utility, Low Silhouette Heater |
| 35E7-5 | Heat Exchanger |
| 35E7-6 | Space |
| 35E7-7 | Gyro |
| 35E8 | BARRIERS |
| 35E8-2 | Runway |
| 35E8-3 | Runup Fence |
| 35E9 | AIR-CONDITIONERS AND FREEZERS |
| 35E10 | GROUND COOLERS |
| 35E11 | GROUND BLOWERS AND FANS |
| 35E12 | VENTILATORS |
| 35E13 | PUMPS |
| 35E14 | COMPRESSOR BUILDINGS |
| 35E15 | MISSILE A AND M SHOPS, MAIN GROUND AIDS PENETRATION |
| 35E16 | ERECTORS |
| 35E17 | DECONTAMINATION EQUIPMENT, DEICERS |
| 35E18 | CONTROL EQUIPMENT |
| 35E19 | CASES (See 35E20 also) |
| 35E20 | CONTAINERS, SHIPPING AND STORAGE |
| 35E20-2 | Missile, Warhead Section |
| 35E20-3 | Engine |
| 35E20-4 | Miscellaneous |
| 35E20-5 | Helicopter Blade |
| 35E20-6 | Checkout Tape |
| 35E20-7 | Optical Equipment |
| 35E20-8 | Chemical, Biological Munitions |
| 35E20-9 | Guided Glide Weapon |
| 35E20-10 | Dispenser |
| 35E20-11 | Ammunition |
| 35E21 | COVERS |
| 35E21-2 | Missile |
| 35E21-3 | Aircraft |
| 35E21-4 | Bomb |
| 35E21-5 | Camera |
| 35E21-6 | Scanner |
| 35E22 | PURGING AND CLEANING EQUIPMENT |
| 35E22-2 | Missile |
| 35E22-3 | Aircraft |
| 35E22-4 | Engine |
| 35E22-5 | Trailer |
| 35E23 | REGULATORS |
| 35E23-2 | Missile |
| 35E24 | LEAK DETECTOR |
| 35E25 | MISSILE SHIPPING EQUIPMENT |
| 35E26 | PROTECTION EQUIPMENT |
| 35E26-2 | Engine Screen, Shield |
| 35E26-3 | Personnel Screen, Shield |
| 35E26-4 | Insulation |
| 35E27 | GAS AND UNDERGROUND PIPING SYSTEMS AND COMPONENTS |
| 35E27-2 | System |
| 35E27-3 | Valve |

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| 35E28 | FILTERS AND DEHYDRATORS |
| 35E29 | CONVERTERS |
| 35E30 | WINDOWS |
| 35E31 | TANKS |
| 35E31-2 | Mixing |
| 35E31-3 | Water Storage |
| 35E32 | SWITCHES |
| 35E33 | RELOAD FACILITIES |
| 35E34 | TOWERS |
| 35E35 | SANITATION EQUIPMENT |
| 35E36 | WARNING DEVICES |
| 35EA | ASSOCIATED EQUIPMENT |
| 35EA1 | NOZZLES |
| 35EA2 | SPEED REDUCERS |
| 35EA3 | FIRE PROTECTION AND SAFETY SHELTERS |
| 35EA4 | AIR-CONDITIONING |
| 35EA4-2 | Fan, Blower |
| 35EA4-3 | Valve |
| 35EA4-4 | Compressor |
| 35EA4-5 | Field, Rotor Assembly |
| 35EA4-6 | Tachometer |
| 35EA4-7 | Adapter, Duct |
| 35EA4-8 | Pump |
| 35EA4-9 | Filler, Bleeder |
| 35EA5 | LAUNCHER SHELTER, HIGH- AND LOW-HELIUM |
| 35EA5-2 | Valve |
| 35EA5-3 | Control-Indicator Assembly |
| 35EA6 | RIM BUILDING COMPONENTS |
| 35EA7 | DECONTAMINATION SYSTEM |
| 35EA7-2 | Pump |
| 35EA7-3 | Valve |
| 35EA7-4 | Measuring, Controlling Instrument |
| 35EA8 | CONTROL BENCH UNITS |
| 35EA8-2 | Pump |
| 35EA9 | PURGING AND CLEANING EQUIPMENT |
| 35EA9-2 | Valve |
| 35EA9-3 | Indicator |
| 35F | AIR FIELD LIGHTING AND ELECTRICAL EQUIPMENT |
| 35F1 | CABINETS |
| 35F2 | CONTROL PANELS |
| 35F3 | CUBICLES |
| 35F4 | LAMP CHANGERS |
| 35F5 | LIGHTS |
| 35F5-2 | Air Traffic Control |
| 35F5-3 | Approach and Runway |
| 35F5-4 | Beacon |
| 35F5-5 | Flood |
| 35F5-6 | Lantern |
| 35F5-7 | Searchlight |
| 35F5-8 | Range |
| 35F5-9 | Flashlight |
| 35F5-10 | Marker |

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| 35F5-11 | Launch |
| 35F6 | PANELBOARDS |
| 35F7 | REFLECTORS |
| 35F8 | REGULATORS |
| 35F9 | RELAYS |
| 35F10 | SIRENS |
| 35F11 | SWITCHBOARDS |
| 35F12 | WIND INDICATORS |
| 35F13 | BATTERIES |
| 35F14 | SWITCHES |
| 35F15 | ELECTRIC MOTORS |
| 35F16 | STARTERS |
| 35F17 | FANS |
| 35F18 | ELECTRIC POWER TRANSFER CONTROLS |
| 35G | AIRCRAFT GROUND SUPPORT EQUIPMENT |
| 35G3 | SUPPORT ASSEMBLIES |
| 35G3-1 | General Support Equipment |
| 35G3-3 | Stand |
| 35G5 | KITS (HANDLING) |
| 35G5-2 | Panel and Rack |
| 35G5-4 | Gimbal Kit |
| 35M | MISSILE SUPPORT EQUIPMENT |
| 35M1 | SYSTEM TECHNICAL ORDERS |
| 35M1-2 | Fluid Distribution |
| 35M1-3 | Propellant Utilization |
| 35M1-4 | Gas Distribution |
| 35M1-5 | Silo Helium Charge |
| 35M1-6 | Monorail |
| 35M1-7 | Crib Suspension |
| 35M1-8 | Damper, Lock System |
| 35M1-9 | Personnel Access |
| 35M1-10 | Environmental Control |
| 35M2 | ERECTION EQUIPMENT |
| 35M2-2 | Mount, Erector |
| 35M2-3 | Hydraulic Pumping Unit |
| 35M2-4 | Trunnion Erector (Use 35M2-2) |
| 35M2-5 | Buffer Assembly |
| 35M2-6 | Ratchet Assembly |
| 35M3 | LAUNCHING EQUIPMENT |
| 35M3-2 | Launcher, Alignment Assembly |
| 35M3-3 | Shock Absorber |
| 35M3-4 | Indicator |
| 35M3-5 | Adapter Unit |
| 35M3-6 | Boom |
| 35M3-7 | Aligning |
| 35M3-8 | Support and Positioner |
| 35M3-9 | Pack |
| 35M3-10 | Balancer |
| 35M3-11 | Rescue |
| 35M4 | MISSILE- AND COMPONENT- HANDLING EQUIPMENT |
| 35M4-2 | Installation Fixture |
| 35M4-3 | Carrier |

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| 35M4-4 | Loader |
| 35M4-5 | Hydraulic Jack (Do not use - see 35A2) |
| 35M5 | SERVICERS |
| 35M5-2 | Hydro-Pneumatic |
| 35M5-3 | Hydraulic |
| 35M5-4 | Pneumatic |
| 35M5-5 | Electric |
| 35M6 | RING ASSEMBLY AND EQUIPMENT |
| 35M6-2 | Auxiliary Ring Assembly |
| 35M6-3 | Start Assembly |
| 35M6-4 | Filling Assembly |
| 35M6-5 | Control Assembly |
| 35M6-6 | Cable Mast |
| 35M7 | PROPELLANT SERVICING UNITS |
| 35M7-2 | Nitrogen |
| 35M7-3 | Liquid Oxygen |
| 35M7-4 | Solvent |
| 35M7-5 | Gas |
| 35M7-6 | Ammonia |
| 35M7-7 | Adapter |
| 35M7-8 | Hydraulic |
| 35M7-9 | Freon |
| 35M8 | RECHARGING UNITS |
| 35M8-2 | Nitrogen |
| 35M8-3 | Oxygen |
| 35M8-4 | Refrigerant |
| 35M9 | PRESSURIZING UNITS |
| 35M9-2 | Nitrogen |
| 35M9-3 | Canister |
| 35M10 | CONTROL UNITS |
| 35M10-2 | Nitrogen |
| 35M10-3 | Pressurization |
| 35M10-4 | Propellant |
| 35M10-5 | Temperature |
| 35M10-6 | Hydraulic, Pneumatic |
| 35M10-7 | Silo |
| 35M11 | PANELS (PROPELLANT) |
| 35M11-2 | Nitrogen |
| 35M11-3 | Liquid Oxygen |
| 35M11-4 | Ammonia |
| 35M12 | INDICATORS |
| 35M12-2 | Dew Point |
| 35M13 | REGULATORS |
| 35M13-2 | Pressure |
| 35M14 | VALVES |
| 35M14-2 | Shutoff |
| 35M14-3 | Vent, Relief |
| 35M14-4 | Regulator |
| 35M14-5 | Control |
| 35M14-6 | Selector |
| 35M14-7 | Check |
| 35M14-8 | Shuttle |

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| 35M14-9 | Relay |
| 35M15 | FILTERS AND STRAINERS |
| 35M15-2 | Hydraulic |
| 35M15-3 | Pneumatic |
| 35M15-4 | Pressure |
| 35M15-5 | Liquid Oxygen |
| 35M16 | SENSORS |
| 35M16-2 | Liquid |
| 35M16-3 | Overspeed |
| 35M17 | CYLINDERS |
| 35M17-2 | Hydraulic |
| 35M17-3 | Actuating |
| 35M17-4 | Pneumatic |
| 35M17-5 | Mechanical |
| 35M18 | MOTORS |
| 35M18-2 | Electric |
| 35M18-3 | Hydraulic |
| 35M18-4 | Pneumatic |
| 35M19 | PUMPS |
| 35M19-2 | Electric |
| 35M19-3 | Hydraulic |
| 35M19-4 | Hand |
| 35M19-5 | Pneumatic |
| 35M20 | METERS AND MEASURING EQUIPMENT |
| 35M20-2 | Meter |
| 35M20-3 | Indicator |
| 35M21 | ACCUMULATORS |
| 35M21-2 | Hydraulic |
| 35M21-3 | Pneumatic |
| 35M21-4 | Propulsion |
| 35M22 | BEARINGS |
| 35M22-2 | Flanged |
| 35M22-3 | Spherical Roller |
| 35M22-4 | Floating |
| 35M23 | BRAKES |
| 35M23-2 | Hydraulic |
| 35M24 | GAUGES |
| 35M24-2 | Pressure |
| 35M25 | SURGE AND DESURGE EQUIPMENT |
| 35M25-2 | Hydraulic |
| 35M25-3 | Pneumatic |
| 35M26 | LOCK AND RELEASE ASSEMBLIES |
| 35M27 | ACTUATORS |
| 35M27-2 | Electro-Mechanical |
| 35M27-3 | Hydraulic |
| 35M27-4 | Ballistic |
| 35M28 | DRIVES |
| 35M29 | SWITCHES |
| 35M30 | MANIFOLD ASSEMBLIES |
| 35M31 | SPEED REDUCERS (GOVERNORS) |
| 35M32 | TRANSMISSIONS |
| 35M33 | CONNECTORS |

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| 35M34 | TENSION DEVICES |
| 35M35 | ADAPTERS AND CLAMPS |
| 35M36 | TUBES |
| 35M37 | DOORS |
| 35M38 | SWIVEL AND GIMBAL ASSEMBLIES |
| 35M39 | VAPORIZERS THERMOCOUPLES |
| 35MA | ASSOCIATED EQUIPMENT |
| 35MA1 | HYDRAULIC SYSTEMS COMPONENTS |
| 35MA1-2 | Valve |
| 35MA2 | ERECTION EQUIPMENT |
| 35MA2-2 | (Not used) |
| 35MA2-3 | Hydraulic Cylinder, Accumulator |
| 35MA3 | LAUNCHING EQUIPMENT |
| 35MA3-2 | Valve (See 35M14) |
| 35MA3-3 | Hydraulic Cylinder (See 35M17) |
| 35MA3-4 | Hydraulic Accumulator (See 35M21) |
| 35MA3-5 | Motor (See 35M18) |
| 35MA3-6 | Indicator (See 35M12) |
| 35MA3-7 | Pump (See 35M19) |
| 35MA3-8 | Coupling |
| 35MA3-9 | Control (See 35M10) |
| 35MA3-10 | Brake (See 35M23) |
| 35MA3-11 | Joint Assembly |
| 35MA4 | PROPELLANT LOADING AND PRESSURIZATION |
| 35MA4-2 | Regulator (See 35M13) |
| 35MA4-3 | Valve (See 35M14) |
| 35MA4-4 | Breaker Assembly |
| 35MA4-5 | Switch (See 35M29) |
| 35MA4-6 | Indicator (See 35M12) |
| 35MA4-7 | Pressure Unit |
| 35MA4-8 | Relay |
| 35MA4-9 | Pump (See 35M19) |
| 35MA4-10 | Starter |
| 35MA4-11 | Liquid Level |
| 35MA4-12 | Gauge (See 35M24) |
| 35MA4-13 | Meter (See 35M20) |

CHAPTER 27

CATEGORY 36 - VEHICLES, CONSTRUCTION AND MATERIAL-HANDLING EQUIPMENT

27.1 GENERAL.

Category 36 contains six systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore, TO numbers in Category 36 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 27.2.

27.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

27.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

27.2 NUMBERING PATTERNS.

27.2.1 Group One. This group has three parts identifying the category, system and equipment series within a system.

27.2.1.1 Part one is always the numeric 36 identifying Category 36.

27.2.1.2 Part two is an alpha character identifying one of six systems; i.e., A - vehicles; C - construction equipment; G - gas generating equipment; M - materials handling equipment; R - ordnance equipment; and Y - vehicle, construction and material-handling equipment. Associated equipment for these systems are identified by adding the alpha A immediately following the system identifier, e.g., MA.

27.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series are outlined in Paragraph 27.4.

27.2.2 Group Two. TO numbering patterns in Category 36 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns.

27.2.2.1 If the TO number uses only three basic groups, group two will have one or more numeric characters representing the model, type or PN assigned to specific components.

27.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

27.2.3 Group Three.

27.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 36:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 5 DCSC Technical Maintenance Standards
- 6 Inspection Requirements
- 7 Installation Instructions

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27.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 36:

- CL - Checklists
- LC - Lubrication Charts
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

27.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific components.

27.2.4 Group Four. When the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 27.2.3.1, above.

27.3 EXAMPLES OF CATEGORY 36 NUMBERING PATTERNS.

27.3.1 Example One. A service manual for a low bed semi-trailer, 25 ton, type T25L-232:

36A9-2-32-2
36 Category 36
A Vehicles
9 Semi-Trailer Series
2 Cargo Type Subseries
32 Represents Type T25L-232
2 Number Reserved for Service Manuals

27.3.2 Example Two. A field maintenance manual for a portable floor crane, model HLU-145A/E:

36C3-6-4-2
36 Category 36
C Construction Equipment
3 Crane Series
6 Portable Type Subseries
4 Represents Model HLU-145A/E
2 Number Reserved for Field Maintenance Manuals

27.3.3 Example Three. Operating instructions for a fork lift, model FK-7-1:

36M2-2-82-1
36 Category 36
M Material Handling Equipment
2 Lift Series
2 Fork Lift Subseries
82 Represents Model FK-7-1
1 Number Reserved for Operating Instructions

27.4 CATEGORY 36 NUMBERING PATTERNS.

36 VEHICLES, CONSTRUCTION, AND MATERIAL-HANDLING EQUIPMENT
36A VEHICLES

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| 36A1 | AMBULANCES |
| 36A2 | COMMERCIAL FLEET |
| 36A2-2 | International |
| 36A2-3 | Ford |
| 36A2-4 | General Motors |
| 36A2-5 | Chrysler |
| 36A2-6 | American Motors |
| 36A2-7 | White Motors |
| 36A2-8 | Mack Truck, Inc. |
| 36A2-9 | VW |
| 36A2-10 | Kenworthy |
| 36A2-11 | Freightliner |
| 36A3 | BUSES |
| 36A4 | DOLLIES, TRAILERS |
| 36A5 | JEEPS |
| 36A6 | MOTORCYCLES |
| 36A7 | PASSENGER CARS |
| 36A8 | SCOOTERS |
| 36A9 | SEMITRAILERS |
| 36A9-2 | Cargo |
| 36A9-3 | Fuel Servicing |
| 36A9-4 | Laundry |
| 36A9-5 | Refrigerating |
| 36A9-6 | Shower |
| 36A9-7 | Stake and Platform |
| 36A9-8 | Van |
| 36A9-9 | Wrecking |
| 36A9-10 | Pilotless Aircraft Transport |
| 36A9-11 | Translauncher |
| 36A9-12 | Chemical Handling |
| 36A9-13 | Water Handling |
| 36A9-14 | Support Trailer |
| 36A9-15 | Mobile Personal Support Trailer |
| 36A10 | TRACTORS |
| 36A10-2 | Tracklaying |
| 36A10-3 | Wheeled |
| 36A11 | TRAILERS |
| 36A11-2 | Ammunition |
| 36A11-3 | Antenna Mount |
| 36A11-4 | Bomb |
| 36A11-5 | Cargo |
| 36A11-6 | Chemical Handling |
| 36A11-7 | Clothing Repair |
| 36A11-8 | Firefighting |
| 36A11-9 | (Not used) |
| 36A11-10 | Fuel Servicing |
| 36A11-11 | Gas Plant |
| 36A11-12 | Laundry |
| 36A11-13 | Lubrication |
| 36A11-14 | Shoe Repair |
| 36A11-15 | Shower |
| 36A11-16 | Telephone Maintenance |

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| 36A11-17 | Textile Repair |
| 36A11-18 | Utility |
| 36A11-19 | Van |
| 36A11-20 | Water Tank |
| 36A11-21 | Electronic Equipment, Enclosure Trailer |
| 36A11-22 | Photographic Equipment |
| 36A11-23 | Bolster |
| 36A11-24 | Pilotless Aircraft |
| 36A11-25 | Test Equipment |
| 36A11-26 | Water-Alcohol Tank |
| 36A11-27 | Radar Equipment, Radio Equipment |
| 36A11-28 | Heater |
| 36A11-29 | Housetrailer |
| 36A12 | TRUCKS |
| 36A12-1A | 1/4-Ton - 2-Ton |
| 36A12-1B | 2 1/2-Ton |
| 36A12-1C | 4-Ton and Over |
| 36A12-2 | Amphibian |
| 36A12-3 | Bomb Service |
| 36A12-4 | Bridge Erecting |
| 36A12-5 | Cargo |
| 36A12-6 | Carryall |
| 36A12-7 | Chemical Service |
| 36A12-8 | Crash, Fire and Rescue |
| 36A12-9 | Decontaminating |
| 36A12-10 | Dump |
| 36A12-11 | Field Lighting |
| 36A12-12 | Firefighting |
| 36A12-13 | Fuel, Oil Servicing |
| 36A12-14 | Pickup |
| 36A12-15 | Prime Mover |
| 36A12-16 | Refuse Collection |
| 36A12-17 | Shop |
| 36A12-18 | Stake and Platform |
| 36A12-19 | Telephone Maintenance |
| 36A12-20 | Weapon Carrier |
| 36A12-21 | Wrecking |
| 36A12-22 | Crane |
| 36A12-23 | Waste, Water |
| 36A12-24 | Multipurpose |
| 36A12-25 | Marker, Traffic Line |
| 36A12-26 | Liquid Nitrogen |
| 36A12-27 | Refrigerating |
| 36A13 | TRUCK TRACTORS |
| 36A14 | ARMORED |
| 36C | CONSTRUCTION EQUIPMENT |
| 36C1 | AUGERS |
| 36C1-2 | Skid Mounted |
| 36C1-3 | Tractor Mounted |
| 36C1-4 | Trailer Mounted |
| 36C1-5 | Truck Mounted |
| 36C2 | CONVEYORS |

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| 36C2-2 | Crawler Mounted |
| 36C2-3 | Self-Propelled |
| 36C2-4 | Skid Mounted |
| 36C2-5 | Wheel Mounted |
| 36C3 | CRANES |
| 36C3-2 | Crawler Mounted |
| 36C3-3 | Tractor Mounted |
| 36C3-4 | Truck Mounted |
| 36C3-5 | Wheel Mounted |
| 36C3-6 | Portable |
| 36C3-7 | Floating (Use 39B) |
| 36C4 | DERRICKS (Used on Diesel Engine) |
| 36C5 | DISTRIBUTORS |
| 36C5-2 | Bituminous Material |
| 36C5-3 | Water |
| 36C6 | DITCHERS |
| 36C7 | DRILLS |
| 36C8 | DRYERS AND DEHYDRATORS |
| 36C9 | GRADERS |
| 36C9-2 | Self-Propelled |
| 36C9-3 | Towed |
| 36C10 | HEATERS |
| 36C11 | KETTLES |
| 36C12 | LOADERS |
| 36C12-2 | Crawler Mounted |
| 36C12-3 | Wheel Mounted |
| 36C13 | CABLE LAYING EQUIPMENT |
| 36C13-2 | Lashing Machine |
| 36C13-3 | Reeling Machine |
| 36C13-4 | Cable Transporter |
| 36C14 | MIXERS |
| 36C14-2 | Bituminous Material |
| 36C14-3 | Concrete |
| 36C14-4 | Soil |
| 36C15 | PAVERS AND FINISHERS |
| 36C15-2 | Bituminous Material |
| 36C15-3 | Concrete |
| 36C16 | PIPE LAYERS |
| 36C17 | PLANTS |
| 36C17-2 | Asphalt Mixing |
| 36C17-3 | Batching |
| 36C17-4 | Concrete Mixing |
| 36C17-5 | Crushing, Screening and Washing |
| 36C17-6 | Steam Construction |
| 36C18 | PLOWS, SNOW PLOWS |
| 36C19 | PUMPS |
| 36C20 | ROLLERS |
| 36C20-2 | Self-Propelled |
| 36C20-3 | Towed |
| 36C21 | ROOTERS |
| 36C22 | SCRAPERS |
| 36C22-2 | Self-Propelled |

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| 36C22-3 | Towed |
| 36C23 | SHOVELS |
| 36C23-2 | Crawler Mounted |
| 36C23-3 | Truck Mounted |
| 36C23-4 | Wheeled |
| 36C24 | SPREADERS |
| 36C25 | SWEEPERS |
| 36C25-2 | Self-Propelled |
| 36C25-3 | Towed |
| 36C25-4 | Magnetic |
| 36C25-5 | Manually Propelled |
| 36C26 | TRACTORS |
| 36C26-2 | Crawler |
| 36C26-3 | Wheeled |
| 36C27 | TRAILERS |
| 36C28 | WAGONS |
| 36C29 | WELL DRILLERS |
| 36C30 | PILE DRIVERS |
| 36C30-2 | Telescoping |
| 36C31 | MOTORIZED COMPRESSORS |
| 36C31-2 | Wheeled |
| 36C32 | CARRIERS |
| 36C32-2 | Snow Plow |
| 36C32-3 | Crane-Shovel |
| 36C33 | COLLECTORS |
| 36C33-2 | Dust |
| 36C34 | COMPACTORS AND VIBRATORS |
| 36C34-2 | Pneumatic, Gasoline Engine Driven |
| 36C35 | CLEANING MACHINES |
| 36C36 | RIPPERS AND PAVING BREAKERS, JACKHAMMERS |
| 36C37 | EXCAVATORS |
| 36C37-2 | Multipurpose |
| 36G | GAS GENERATING EQUIPMENT |
| 36G1 | GENERATING AND CHARGING PLANTS |
| 36G1-2 | Generating Plant, Oxygen or Nitrogen |
| 36G1-3 | Hydrogen Generator |
| 36G2 | FILTER ASSEMBLIES |
| 36M | MATERIAL-HANDLING EQUIPMENT |
| 36M1 | CRANES |
| 36M1-2 | Electrically Driven |
| 36M1-3 | Engine Driven |
| 36M2 | LIFTS |
| 36M2-2 | Fork |
| 36M2-3 | Platform |
| 36M2-4 | Scoop |
| 36M3 | TRACTORS |
| 36M3-2 | Electrically Driven |
| 36M3-3 | Engine Driven |
| 36M4 | TRAILERS |
| 36M5 | TRUCKS |
| 36M5-2 | Straddle |
| 36M5-3 | Wheel Type |

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| 36M5-4 | Liftainer |
| 36M5-5 | Fixed Platform |
| 36M6 | POSITIONERS |
| 36M6-2 | Pallet |
| 36M7 | WHEELBARROWS |
| 36MA | ASSOCIATED EQUIPMENT |
| 36MA1 | STACKERS (FORK LIFT) |
| 36MA2 | ELEVATORS |
| 36R | ORDNANCE EQUIPMENT |
| 36R1 | (Not used) |
| 36R2 | ARMORED CARS |
| 36R3 | CARRIAGES |
| 36R4 | CARRIERS |
| 36R4-2 | Cargo |
| 36Y | COMPONENTS - VEHICLES, CONSTRUCTION, AND MATERIAL HANDLING EQUIPMENT |
| 36Y1 | ANGLEDZERS |
| 36Y2 | ATTACHMENTS |
| 36Y2-2 | Auger |
| 36Y2-3 | Magnet |
| 36Y2-4 | Shovel |
| 36Y2-5 | Snow Plow |
| 36Y2-6 | Sweeper |
| 36Y3 | AXLES, WHEEL ASSEMBLIES, BRAKE ASSEMBLIES |
| 36Y4 | BATTERIES AND BATTERY CABLES |
| 36Y5 | BINS |
| 36Y6 | BODIES |
| 36Y6-2 | Bus |
| 36Y6-3 | Dump |
| 36Y6-4 | Fire Truck |
| 36Y6-5 | Lift |
| 36Y6-6 | Passenger Car |
| 36Y6-7 | Refuse Collection |
| 36Y6-8 | Conveyor Delivery |
| 36Y6-9 | Ambulance |
| 36Y6-10 | Van |
| 36Y7 | BRAKES |
| 36Y8 | BUCKETS |
| 36Y9 | BULLDOZERS |
| 36Y10 | CHASSIS |
| 36Y11 | CLUTCHES |
| 36Y12 | FEEDERS |
| 36Y13 | GAUGES AND INSTRUMENTS |
| 36Y14 | GRADATION UNIT |
| 36Y15 | HEATERS |
| 36Y16 | HOISTS |
| 36Y17 | KITS |
| 36Y17-2 | Cold Starting |
| 36Y17-3 | Follow-me |
| 36Y17-4 | Hard Top Closure |
| 36Y17-5 | Personnel Heater |
| 36Y17-6 | Power Plant |

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| 36Y17-7 | Winterization |
| 36Y17-8 | Brake Control |
| 36Y17-9 | Fire Protection |
| 36Y17-10 | Conveyor |
| 36Y18 | LIGHTS |
| 36Y18-2 | Flood |
| 36Y18-3 | Instrument |
| 36Y18-4 | Clearance |
| 36Y18-5 | Vehicle |
| 36Y19 | MOTORS |
| 36Y20 | METERS |
| 36Y21 | MOWERS |
| 36Y22 | POWER CONTROL UNITS |
| 36Y23 | POWER TRAINS |
| 36Y24 | PROPORTIONERS (VARIABLE FLOW) |
| 36Y25 | PUMPS |
| 36Y26 | RADIATORS |
| 36Y27 | SAWS |
| 36Y28 | SEGREGATORS |
| 36Y29 | SHOCK ABSORBERS |
| 36Y30 | SPRINGS |
| 36Y31 | TANKS |
| 36Y31-2 | Asphalt |
| 36Y31-3 | Fuel |
| 36Y31-4 | Vehicular |
| 36Y31-5 | Water |
| 36Y32 | TIRES AND TUBES |
| 36Y32-2 | Safety Guard |
| 36Y33 | TRANSMISSIONS |
| 36Y34 | WHEELS |
| 36Y35 | WINCHES |
| 36Y36 | WINDSHIELDS |
| 36Y37 | ROPES |
| 36Y37-2 | Wire Rope |
| 36Y38 | CUBICLES |
| 36Y38-2 | Power Distribution |
| 36Y39 | TRACKS |
| 36Y39-2 | Rubber |
| 36Y40 | FILTERS |
| 36Y40-2 | Fluid |
| 36Y41 | PACKS |
| 36Y42 | BELTS AND PULLEYS |
| 36Y43 | SPACERS |
| 36Y44 | CARRIAGES |
| 36Y45 | REELS |
| 36Y46 | ACTUATORS |
| 36Y47 | CONTROLS |
| 36Y48 | BOGIES |
| 36Y49 | CYLINDER ASSEMBLIES |
| 36Y50 | VALVES |
| 36Y51 | PIPELINES (Use 37C) |
| 36Y52 | BLADES |

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|-------|-----------------------------|
| 36Y53 | BLOWERS |
| 36Y54 | SEPARATORS |
| 36Y55 | COMPRESSORS |
| 36Y56 | SHOCKS (Use 36Y29) |
| 36Y57 | LANDING JACKS |
| 36Y58 | AIR COMPRESSORS |
| 36Y59 | VEHICLE UNLOADING EQUIPMENT |
| 36Y60 | STEERING GEARS |
| 36Y61 | CARBURETORS |

CHAPTER 28

CATEGORY 37 - FUEL-, OIL- AND PROPELLANT-HANDLING EQUIPMENT

28.1 GENERAL.

Category 37 contains three fuel-, oil-, and propellant-handling systems. These systems are divided into equipment series and most of the systems are further divided into equipment subseries within each equipment series. Therefore TO numbers in Category 37 use both three and four basic groups for data identification. Numbering patterns for both forms are discussed in Paragraph 28.2.

28.1.1 Multiple Systems. TO data pertaining to more than one system is numbered in the category general series.

28.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

28.2 NUMBERING PATTERNS.

28.2.1 Group One. This group has three parts identifying the category, system and equipment series within the system.

28.2.1.1 Part one is always the numeric 37 identifying Category 37.

28.2.1.2 Part two is an alpha character identifying the oil-, fuel-, and propellant-handling systems, i.e., A - fuel and oil handling equipment; B - aircraft propellant systems; and C - propellant storage and handling equipment. Associated equipment for these systems is identified by adding the alpha A immediately following the system identifier, e.g., CA.

28.2.1.3 Part three contains one or more numeric characters identifying an equipment series within a system. The TO numbering series are outlined in Paragraph 28.4.

28.2.2 Group Two. TO numbering patterns in Category 37 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

28.2.2.1 If the TO number uses only three basic groups, group two uses one or more numeric characters representing the model, type or PN assigned to specific components.

28.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, group two identifies the equipment subseries with one or more numeric characters and the model, type or PN is identified in group three.

28.2.3 Group Three.

28.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 37:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions

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28.2.3.2 In some instances the reserved numbers in group three are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 37:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

28.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing model, type or PN assigned to specific components.

28.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 28.2.3.1, above.

28.3 EXAMPLES OF CATEGORY 37 NUMBERING PATTERNS.

28.3.1 Example One. Overhaul instructions for a fuel hose four-wheel trailer type MH-1:

- 37A2-2-2-3
- 37 Category 37
- A Fuel- and Oil- Handling Equipment
- 2 Cart Series
- 2 Hose Cart Subseries
- 2 Represents Type MH-1
- 3 Number Reserved for Overhaul Instructions

28.3.2 Example Two. An illustrated parts breakdown for a fuel and oil servicing nozzle, PN 9035:

- 37A6-2-24
- 37 Category 37
- A Fuel- and Oil- Handling Equipment
- 6 Nozzle Series
- 2 Represents PN 9035
- 24 Number Reserved for Illustrated Parts Breakdown

28.3.3 Example Three. An illustrated parts breakdown for a fuel storage tank, model TMU-4/E:

- 37C2-2-2-4
- 37 Category 37
- C Propellant Storage and Handling
- 2 Storage Facility Series
- 2 Fuel Storage Subseries
- 2 Represents Model TMU-4/E
- 4 Number Reserved for Illustrated Parts Breakdown

28.4 CATEGORY 37 NUMBERING SERIES.

- 37 FUEL-, OIL- AND PROPELLANT-HANDLING EQUIPMENT
- 37A FUEL- AND OIL- HANDLING EQUIPMENT
- 37A1 ADAPTERS
- 37A2 CARTS

| | |
|---------|--|
| 37A2-2 | Hose |
| 37A3 | CONTAINERS |
| 37A3-2 | Collapsible |
| 37A3-3 | Skid Mounted |
| 37A4 | COUPLINGS |
| 37A5 | HOSES |
| 37A6 | NOZZLES |
| 37A6-2 | Single Point |
| 37A6-3 | Automatic Shutoff |
| 37A6-4 | Over-the-Wing (Gravity) |
| 37A7 | PUMPS |
| 37A8 | SEPARATORS |
| 37A8-2 | Gasoline-Water |
| 37A9 | FUEL STORAGE, DISTRIBUTING AND DISPENSING SYSTEMS |
| 37A9-2 | Gravity Flow |
| 37A9-3 | Hydrant Fueling |
| 37A9-4 | Hydraulically Operated |
| 37A9-5 | Mechanical (Other than hydrant) |
| 37A9-6 | Fuel Dispensing Line |
| 37A9-7 | Fuel Distributing Unit |
| 37A10 | OIL STORAGE, DISTRIBUTING, AND DISPENSING SYSTEMS |
| 37A11 | REFUELING UNITS |
| 37A12 | TANKS |
| 37A13 | TRANSFER UNITS |
| 37A14 | VEHICLE FUEL AND OIL DISTRIBUTING AND DISPENSING SYSTEMS |
| 37A15 | OIL PURIFIERS |
| 37A16 | FUEL RETURN LINE ASSEMBLIES |
| 37A17 | SERVICING UNITS |
| 37A17-2 | Oil Servicing |
| 37A17-3 | Coolant Servicing |
| 37A18 | VALVES (Use 37A1) |
| 37A18-2 | Fuel Servicing |
| 37A19 | REELS |
| 37B | AIRCRAFT PROPELLANT SYSTEMS |
| 37B1 | NITRIC ACID HANDLING EQUIPMENT |
| 37C | PROPELLANT STORAGE AND HANDLING SYSTEMS |
| 37C1 | SYSTEMS |
| 37C1-2 | Acid |
| 37C1-3 | Fuel |
| 37C2 | STORAGE FACILITIES |
| 37C2-2 | Fuel |
| 37C2-3 | High Pressure Gas |
| 37C2-4 | Liquid Oxygen |
| 37C2-5 | Diesel Fuel |
| 37C2-6 | Nitrogen |
| 37C2-7 | Liquid Solvent Recovery |
| 37C2-8 | Liquid Oxygen, Nitrogen, Argon, and Air |
| 37C3 | MISSILE PROPELLANT PILE LINES |
| 37C4 | MISSILE PROPELLANT HOSE ASSEMBLIES |
| 37C5 | PUMPS |
| 37C6 | FILTERING UNITS |
| 37C7 | HEATERS |

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| | |
|---------|----------------------------------|
| 37C8 | COMPRESSORS, PROPELLANT-TRANSFER |
| 37C9 | CLEANING AND PURGING EQUIPMENT |
| 37C10 | CONNECTORS |
| 37C11 | GAUGES |
| 37CA | ASSOCIATED EQUIPMENT |
| 37CA1 | PROPELLANT TRANSFER |
| 37CA1-2 | Valve |
| 37CA1-3 | Breather Set |

CHAPTER 29

CATEGORY 38 - NON-AERONAUTICAL ENGINES

29.1 GENERAL.

Category 38 contains four systems. These systems are divided into equipment series and the equipment series are further divided into equipment subseries. TO numbers in Category 38 use both three and four basic groups in the numbering patterns discussed in Paragraph 29.2.

29.1.1 Multiple Systems. TO data pertaining to more than one system in this category is numbered in the category general series.

29.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

29.2 NUMBERING PATTERNS.

29.2.1 Group One. This group has three parts identifying the category, system and equipment series.

29.2.1.1 Part one is always the numeric 38 identifying Category 38.

29.2.1.2 Part two is an alpha character identifying the non-aeronautical engine, i.e., G - powered ground equipment engines; M - marine engines; V - vehicle engines; and X - non-aeronautical engine components and accessories.

29.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. The equipment series numbers for this category are outlined in Paragraph 29.4.

29.2.2 Group Two. TO numbering patterns in Category 38 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

29.2.2.1 If the TO number uses only three basic groups, group two will contain one or more numeric characters representing the model, type or PN assigned to specific equipment.

29.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

29.2.3 Group Three.

29.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 38:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements

29.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 38:

CL - Checklists

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LC - Lubrication Charts
S - Operational Supplements
SS - Safety Supplements
WC - Workcards

29.2.3.3 If the TO number has four basic groups, the third group contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

29.2.4 Group Four. If the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 29.2.3.1, above.

29.3 EXAMPLES OF CATEGORY 38 NUMBERING PATTERNS.

29.3.1 Example One. Illustrated parts breakdown for a diesel engine, model D-318.

38G1-24-24
38 Category 38
G Powered Ground Equipment Engines
1 Diesel Series
24 Represents Model D-318
24 Number Reserved for Illustrated Parts Breakdown

29.3.2 Example Two. Operating instructions for a Diesel marine engine, model 6DCMR-1879.

38M1-24-1
38 Category 38
M Marine Engines
1 Diesel Series
24 Represents Model 6DCMR-1879
1 Number Reserved for Operating Instructions

29.3.3 Example Three. Overhaul manual for a fuel pump, PN 1539900 series:

38X11-2-4-3
38 Category 38
X Accessories
11 Pump Series
2 Fuel Pump Subseries
4 Represents PN 1539900 Series
3 Number Reserved for Overhaul Instructions

29.4 CATEGORY 38 NUMBERING SERIES.

38 NON-AERONAUTICAL ENGINES
38G POWERED GROUND EQUIPMENT ENGINES
38G1 DIESEL
38G2 GASOLINE
38G3 JET FUEL
38M MARINE ENGINES
38M1 DIESEL
38M2 GASOLINE
38M3 STEAM

| | |
|---------|--|
| 38V | VEHICLE ENGINES |
| 38V1 | DIESEL |
| 38V2 | GASOLINE |
| 38X | NON-AERONAUTICAL ENGINE COMPONENTS AND ACCESSORIES |
| 38X1 | BEARINGS |
| 38X2 | CARBURETORS |
| 38X3 | DISTRIBUTORS |
| 38X4 | FILTERS |
| 38X4-2 | Fuel |
| 38X4-3 | Oil |
| 38X5 | GEARS |
| 38X6 | GENERATORS |
| 38X7 | GOVERNORS |
| 38X8 | HOUSINGS |
| 38X8-2 | Clutch |
| 38X9 | MAGNETOS |
| 38X10 | PULLEYS |
| 38X11 | PUMPS |
| 38X11-2 | Fuel |
| 38X11-3 | Oil |
| 38X11-4 | Water |
| 38X12 | RADIATORS |
| 38X13 | SPARK PLUGS |
| 38X14 | STARTERS |
| 38X15 | THERMOSTATS |
| 38X16 | VALVES |
| 38X17 | SHIPPING CASES |
| 38X18 | SHAFTS |
| 38X19 | BUSHINGS |
| 38X19-2 | Bronze |
| 38X20 | IGNITION SYSTEMS |
| 38X21 | REGULATORS, CURRENT AND VOLTAGE |
| 38X22 | HEATERS |
| 38X23 | SWITCHES |
| 38X24 | INJECTORS |
| 38X25 | AIR EQUIPMENT |
| 38X26 | TURBOCHARGERS |
| 38X27 | FAN DRIVES |

CHAPTER 30

CATEGORY 39 - WATERCRAFT EQUIPMENT

30.1 GENERAL.

Category 39 contains five watercraft systems. The TO numbers in this category use three basic groups for data identification. The numbering pattern is discussed in Paragraph 30.2.

30.1.1 Multiple Systems. TO data pertinent to more than one system in this category is numbered in the category general series.

30.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

30.2 NUMBERING PATTERNS.

30.2.1 Group One. The five systems that identify types of watercraft use only two parts in group one to identify the category and type of watercraft.

30.2.1.1 Part one is always the numeric 39 identifying Category 39.

30.2.1.2 Part two is a single alpha character identifying the various systems of watercraft, i.e., C - cargo boats; P - personnel boats; R - range patrol boats; and V - vessels. The one exception is the tugboat system identified with the two alpha characters TG.

30.2.2 Group Two. TO numbering pattern in Category 39 uses three basic groups. Group two has one or more numeric characters representing the model, type or PN assigned to specific components.

30.2.3 Group Three.

30.2.3.1 The third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category.

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 5 Equipment Allowance Lists
- 6 Inspection Requirements

30.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in this category.

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

30.3 EXAMPLES OF NUMBERING PATTERNS USED IN CATEGORY 39.

30.3.1 Example One. An operating and maintenance instruction for a mechanized landing craft, type LCM 8:

39C-47-1

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39 Category 39
C Cargo Boats
47 Represents Type LCM 8
1 Number Reserved for Operating Instructions

30.3.2 Example Two. Maintenance instructions for a 21-foot aluminum tow-rescue boat, type P-21:

39P-21-2
39 Category 39
P Personnel Boats
21 Represents Type P-21
2 Number Reserved for Maintenance Instructions

30.3.3 Example Three. Equipment allowance list for a 24-foot USAF rescue boat, type R-4:

39R-4-5
39 Category 39
R Range Patrol Boats
4 Represents Type R-4
5 Number Reserved for Equipment Allowance List

30.4 CATEGORY 39 NUMBERING SERIES.

39 WATERCRAFT EQUIPMENT
39C CARGO BOATS
39P PERSONNEL BOATS
39R RANGE PATROL BOATS
39TG TUGBOATS
39V VESSELS

CHAPTER 31

CATEGORY 40 - COMMERCIAL AIR-CONDITIONING, HEATING, PLUMBING, REFRIGERATING, VENTILATING AND WATER TREATING EQUIPMENT

31.1 GENERAL.

Category 40 contains six systems. These systems are divided into equipment series and most of the equipment series are further divided into equipment subseries. Therefore TO numbers in this category use both three and four basic groups for data identification. The numbering patterns for both forms are discussed in Paragraph 31.2.

31.1.1 Multiple Systems. TO data pertaining to more than one system in this category is numbered in the category general series.

31.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

31.2 NUMBERING PATTERNS.

31.2.1 Group One. This group has three parts identifying the category, system and equipment series.

31.2.1.1 Part one is always the numeric 40 identifying Category 40.

31.2.1.2 Part two is an alpha character identifying the various systems, i.e., A - air-conditioners; H - heating equipment; P - plumbing equipment; R - refrigeration equipment; V - ventilating equipment; and W - water treating equipment.

31.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. The numbering series for this category are outlined in Paragraph 31.4.

31.2.2 Group Two. TO numbering patterns in Category 40 use both three and four groups; therefore, the identifiers in group two are not constant. The following describes both numbering patterns:

31.2.2.1 If only three basic groups are used in a numbering pattern, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

31.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

31.2.3 Group Three.

31.2.3.1 If a TO number has only three basic groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions

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31.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 40:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

31.2.3.3 If the TO number contains four basic groups, the third group has one or more numeric characters representing the model, type or PN assigned to specific equipment.

31.2.4 Group Four. In those cases where the TO number contains four basic groups, the fourth group identifies specific types of TOs described in Paragraph 31.2.3.1, above.

31.3 EXAMPLES OF CATEGORY 40 NUMBERING PATTERNS.

31.3.1 Example One. Operating instructions with illustrated parts breakdown for air-conditioner, type MA-5:

| | |
|-------------|--|
| 40A1-6-10-1 | |
| 40 | Category 40 |
| A | Air-Conditioning Equipment |
| 1 | Air-Conditioner Series |
| 6 | Trailer Mounted Subseries |
| 10 | Represents Type MA-5 |
| 1 | Number Reserved for Operating Instructions |

31.3.2 Example Two. A maintenance manual for a portable shower, model M1958:

| | |
|------------|---|
| 40P1-2-2-2 | |
| 40 | Category 40 |
| P | Plumbing Equipment |
| 1 | Bath and Shower Unit Series |
| 2 | Eight Shower Head Subseries |
| 2 | Represents Model M1958 |
| 2 | Number Reserved for Maintenance Manuals |

31.4 CATEGORY 40 NUMBERING SERIES.

| | |
|--------|--|
| 40 | COMMERCIAL AIR-CONDITIONING, HEATING, PLUMBING, REFRIGERATING, VENTILATING, AND WATER TREATING EQUIPMENT |
| 40A | AIR-CONDITIONING EQUIPMENT |
| 40A1 | AIR-CONDITIONERS |
| 40A1-2 | Aircraft, Ground |
| 40A1-3 | Base Mounted |
| 40A1-4 | Self-Contained |
| 40A1-5 | Skid Mounted |
| 40A1-6 | Trailer Mounted |
| 40A1-7 | Pack |
| 40A2 | DEHUMIDIFIERS |
| 40A2-2 | Chemical |
| 40A2-3 | Mechanical |

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|--------|-------------------------|
| 40A2-4 | Electrical |
| 40A3 | COLLECTORS |
| 40A3-2 | Dust |
| 40H | HEATING EQUIPMENT |
| 40H1 | BOILERS |
| 40H2 | FURNACES |
| 40H3 | HEATERS |
| 40H3-2 | (Not used) |
| 40H3-3 | (Not used) |
| 40H3-4 | Immersion |
| 40H3-5 | Space |
| 40H3-6 | (Not used) |
| 40H3-7 | Water |
| 40P | PLUMBING EQUIPMENT |
| 40P1 | BATH AND SHOWER UNITS |
| 40P1-2 | 8-Shower Head |
| 40P1-3 | 12-Shower Head |
| 40P1-4 | 24-Shower Head |
| 40P1-5 | 32-Shower Head |
| 40P1-6 | Multi Shower Head |
| 40P2 | PUMPS |
| 40P2-2 | Centrifugal |
| 40P2-3 | Diaphragm |
| 40P2-4 | Helical Rotor |
| 40P2-5 | Pneumatic |
| 40P2-6 | Reciprocating |
| 40P2-7 | Rotary |
| 40P2-8 | Turbine |
| 40P2-9 | Steam Driven |
| 40R | REFRIGERATING EQUIPMENT |
| 40R1 | COMPRESSORS |
| 40R2 | CONDENSING UNITS |
| 40R3 | COOLERS |
| 40R3-2 | Aircraft, Ground |
| 40R3-3 | Rivet |
| 40R3-4 | Unit |
| 40R3-5 | Water |
| 40R3-6 | Semi-Trailer Mounted |
| 40R4 | DISPLAY CASES |
| 40R5 | ICE CREAM PLANTS |
| 40R6 | ICE MAKERS |
| 40R7 | REFRIGERATORS |
| 40R7-2 | Film Processing |
| 40R7-3 | Household |
| 40R7-4 | Industrial |
| 40R7-5 | Reach-In |
| 40R7-6 | Walk-In |
| 40R8 | SODA FOUNTAIN EQUIPMENT |
| 40V | VENTILATING EQUIPMENT |
| 40V1 | BLOWERS |
| 40V2 | FANS |
| 40V2-2 | Pedestal |

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|--------|----------------------------|
| 40V2-3 | Centrifugal |
| 40V2-4 | Axial |
| 40V2-5 | Propeller |
| 40V3 | VENTILATORS |
| 40W | WATER TREATING EQUIPMENT |
| 40W1 | DEMINERALIZERS |
| 40W2 | DISTILLATION EQUIPMENT |
| 40W3 | HYPOCHLORINATION EQUIPMENT |
| 40W4 | PURIFICATION EQUIPMENT |
| 40W5 | SOFTENING EQUIPMENT |
| 40W6 | FILTERING EQUIPMENT |

CHAPTER 32

CATEGORY 41 - SUBSISTENCE AND FOOD SERVICE EQUIPMENT

32.1 GENERAL.

Category 41 contains two subsistence and food service systems. These systems are divided into equipment series and the equipment series are further divided into equipment subseries. TO numbers in category 41 use both three and four basic groups for data identification. The numbering patterns for both forms are discussed in Paragraph 32.2.

32.1.1 Multiple Systems. TO data pertaining to more than one system in this category is numbered in the category general series.

32.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

32.2 NUMBERING PATTERNS.

32.2.1 Group One. This group has three parts identifying the category, system and equipment series.

32.2.1.1 Part one is always the numeric 41 identifying Category 41.

32.2.1.2 Part two is an alpha character identifying the two systems in the category, i.e., A - subsistence; and B - food service equipment.

32.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. The series for this category are outlined in Paragraph 32.4.

32.2.2 Group Two. TO numbering patterns in Category 41 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering pattern for both forms:

32.2.2.1 If only three basic groups are used in a numbering pattern, group two will contain one or more numeric characters representing the model, type or PN assigned to specific equipment.

32.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

32.2.3 Group Three.

32.2.3.1 If a TO number has only three groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown

32.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 41:

- CL - Checklists
- S - Operational Supplements

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SS - Safety Supplements
WC - Workcards

32.2.3.3 If the TO number contains four basic groups, the third group will have one or more numeric characters representing the model, type or PN assigned to specific equipment.

32.2.4 Group Four. Group Four. In those cases where the TO number contains four basic groups, the fourth group identifies specific types of TOs described in Paragraph 32.2.3.1, above.

32.3 EXAMPLES OF CATEGORY 41 NUMBERING PATTERNS.

32.3.1 Example One. Illustrated parts breakdown for a food warming oven, type II, applicable to KC-135:

41B1-7-5-4
41 Category 41
B Food Service Equipment
1 Baking Equipment Series
7 Oven Subseries
5 Represents Type II
4 Number Reserved for Illustrated Parts Breakdown

32.3.2 Example Two. Operating instructions for Peters-Dalton dishwashing machine, model HWC-80:

41B2-2-2-1
41 Category 41
B Food Service Equipment
2 Cleaning and Sanitation Equipment Series
2 Dishwashing Machine Subseries
2 Represents Model HWC-80
1 Number Reserved for Operating Instructions

32.4 CATEGORY 41 NUMBERING SERIES.

41 SUBSISTENCE AND FOOD SERVICE EQUIPMENT
41A SUBSISTENCE
41A1 BEVERAGES
41A2 DAIRY PRODUCTS
41A3 DRIED FOODS
41A4 FIELD AND COMBAT RATIONS
41A5 FROZEN FOODS
41A6 MEAT AND MEAT PRODUCTS
41A7 PROCESSED FOODS
41A8 TROPICAL PLANTS
41B FOOD SERVICE EQUIPMENT
41B1 BAKING EQUIPMENT
41B1-2 Doughnut Machine
41B1-3 Dough Divider
41B1-4 Dough Mixer
41B1-5 Dough Proofer
41B1-6 Fermentation Cabinet
41B1-7 Oven
41B1-8 Sifter

| | |
|---------|-----------------------------------|
| 41B2 | CLEANING AND SANITATION EQUIPMENT |
| 41B2-2 | Dishwasher |
| 41B3 | COOKING EQUIPMENT |
| 41B3-2 | Broiler |
| 41B3-3 | Cooker |
| 41B3-4 | Fryer |
| 41B3-5 | Griddle |
| 41B3-6 | Range |
| 41B3-7 | Stove |
| 41B3-8 | Toaster |
| 41B3-9 | Warmer |
| 41B3-10 | Urn |
| 41B4 | PREPARATION EQUIPMENT |
| 41B4-2 | Grinder |
| 41B4-3 | Meat Cutter |
| 41B4-4 | Mixer |
| 41B4-5 | Peeler |
| 41B5 | TESTING AND SCREENING EQUIPMENT |

CHAPTER 33

CATEGORY 42 - COATING, CLEANING AND SEALING COMPOUNDS AND FUELS, GASES, LUBRICANTS, CHEMICALS AND MATERIALS

33.1 GENERAL.

Category 42 contains seven systems divided into equipment or material series. The series, in some instances, are further divided into material types. TO numbers in Category 42 use both three and four basic groups for data identification. The numbering patterns for both forms are discussed in Paragraph 33.2.

33.1.1 Multiple Systems. TO data pertinent to more than one system in this category is numbered in the category general series.

33.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

33.2 NUMBERING PATTERNS.

33.2.1 Group One. This group has three parts identifying the category, system and material series.

33.2.1.1 Part one is always the numeric 42 identifying Category 42.

33.2.1.2 Part two is an alpha character identifying the various systems, i.e., A - dopes, paints, and cleaning compounds; B - fuels, lubricants, oxygen, and gases; C - chemicals; D - metals, plastics, and composition materials; E - rubber materials; F - cordage, leather, and miscellaneous fabric; and L - lumber.

33.2.1.3 Part three contains one or more numeric characters identifying the material series within a system. The material series numbers for this category are outlined in Paragraph 33.4.

33.2.2 Group Two. Since TO numbering patterns in Category 42 use both three and four basic groups, the identifiers in group two are not constant. The following describes both numbering patterns:

33.2.2.1 If the TO number uses only three basic groups, group two will have a numeric character identifying all TOs as being in a single, general Model-Type-Part Number series. This is due to the general or comprehensive nature of TO data in this category.

33.2.2.2 If the TO number contains four basic groups, the equipment or material series identified in part three of group one has been further divided into subseries. In this case, group two identifies the specific material subseries with one or more numeric characters.

33.2.3 Group Three.

33.2.3.1 If the TO number has only three groups, the third group of the numbering pattern is made up of numeric characters identifying individual TOs. Specific numbers are not reserved to identify specific types of TOs as in other categories. In some instances the numeric characters are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 42.

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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33.2.3.2 If the TO number has four basic groups, the third group contains a numeric character identifying all TOs as being in a single general Model-Type-Part Number series. This is due to the general or comprehensive nature of TO data in this category.

33.2.4 **Group Four.** When the TO number has four basic groups, the fourth group is made up of numeric characters identifying individual TOs. Specific numbers are not reserved to identify specific types of TOs as in other categories. In some instances the numeric characters may be followed by one or more alpha characters described in Paragraph 33.2.3.1.

33.3 EXAMPLES OF CATEGORY 42 NUMBERING PATTERNS.

33.3.1 Example One. Manual on fluids for hydraulic equipment:

42B2-1-3
42 Category 42
B Fuels, Lubricants, Oxygen and Gases
2 Oil Series
1 General Model-Type-Part Number Series
3 Third Manual in a Series

33.3.2 Example Two. Manual on aircraft hoses:

42E1-1-1
42 Category 42
E Rubber Materials
1 Aircraft Hose Series
1 General Model-Type-Part Number Series
1 First Manual in a Series

33.3.3 Example Three. Manual on quality control of nitrogen propellant pressurizing agent:

42B7-3-1-1
42 Category 42
B Fuels, Lubricants, Oxygen, and Gases
7 High Energy Liquid Propellants
3 Propellant Pressurization
1 General Model-Type-Part Number Series
1 First Manual in a Series

33.4 CATEGORY 42 NUMBERING SERIES.

42 COATING, CLEANING, AND SEALING COMPOUNDS AND FUELS, GASES, LUBRICANTS, CHEMICALS, AND MATERIALS
42A DOPES, PAINTS, AND CLEANING COMPOUNDS
42A1 CLEANING COMPOUNDS
42A2 DOPES AND PAINTS
42A3 GLUES AND CEMENTS
42B FUELS, LUBRICANTS, OXYGEN, AND GASES
42B1 FUELS
42B2 OILS
42B3 GREASES
42B4 COMPRESSED GASES
42B5 GAS STORAGE AND SERVICING CYLINDERS

| | |
|--------|---|
| 42B6 | LIQUID OXYGEN |
| 42B7 | HIGH ENERGY LIQUID PROPELLANTS |
| 42B7-2 | JP-4 - General |
| 42B7-3 | Propellant Pressurization - General |
| 42C | CHEMICALS |
| 42C1 | ENGINE |
| 42C2 | METAL TREATMENT |
| 42D | METALS, PLASTICS, AND COMPOSITION MATERIALS |
| 42D1 | ALUMINUM ALLOYS |
| 42D2 | COMPOSITION MATERIALS |
| 42D3 | MAGNESIUM ALLOYS |
| 42D4 | PLASTICS |
| 42D5 | STEEL |
| 42E | RUBBER MATERIALS |
| 42E1 | AIRCRAFT HOSE |
| 42E2 | RUBBER SEALS AND PACKING |
| 42F | CORDAGE, LEATHER, AND MISCELLANEOUS FABRIC |
| 42L | LUMBER |

CHAPTER 34

CATEGORY 43 - SIMULATOR AND TRAINING DEVICES

34.1 GENERAL.

Category 43 contains three simulator and training systems. These systems are divided into equipment series and most of the equipment series are further divided into equipment subseries. TO numbers in Category 43 use both three and four basic groups in the numbering pattern for data identification. The numbering patterns for both forms are discussed in Paragraph 34.2.

34.1.1 Multiple Systems. TO data pertaining to more than one system in this category is numbered in the category general series.

34.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

34.2 NUMBERING PATTERNS.

34.2.1 Group One. This group has three parts identifying the category, system and equipment series.

34.2.1.1 Part one is always the numeric 43 identifying Category 43.

34.2.1.2 Part two is an alpha character identifying the simulator and training systems, i.e., D - training devices; E - training equipment; and X-components. Associated equipment for these systems are identified by adding the alpha A immediately following the system identifier, e.g., DA, EA.

34.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. The numbering series for this category is outlined in Paragraph 34.4.

34.2.2 Group Two. TO numbering patterns in Category 43 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering pattern for both forms:

34.2.2.1 If only three basic groups are used in the numbering pattern, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

34.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

34.2.3 Group Three.

34.2.3.1 If a TO number has only three groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category.

| | |
|-----|--|
| -01 | List of Applicable Publications (LOAP) |
| -06 | Work Unit Code Manuals |
| -07 | thru -09 Reserved |
| -1 | Operating Instructions |
| -2 | Service or Maintenance Manuals |
| -3 | Depot Maintenance or Overhaul Instructions |
| -4 | Illustrated Parts Breakdown |
| -6 | Inspection Requirements |

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- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests
- 9 Alignment Manuals

34.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 43:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

34.2.3.3 If the TO number contains four basic groups, the third group has one or more numeric characters representing the model, type or PN assigned to specific equipment.

34.2.4 Group Four. In those cases where the TO number has four basic groups, the fourth group identifies specific types of TOs described in Paragraph 34.2.3.1.

34.3 EXAMPLES OF CATEGORY 43 NUMBERING PATTERNS.

34.3.1 Example One. Operating instructions for a mission simulator system, F-111 aircraft:

43D3-4-11-11
43 Category 43
D Training Devices
3 Flight Simulator Series
4 Fighter Aircraft Simulator Subseries
11 Represents Model F-111 Aircraft
11 Number Reserved for Operating Instructions

34.3.2 Example Two. Operating instructions for a resident trainer and mobile training set, C-5A aircraft:

43E24-2-7-1
43 Category 43
E Training Equipment
24 Mobile Trainer Series
2 Cargo Aircraft Simulator Subseries
7 Represents Model C-5 Aircraft
1 Number Reserved for Operating Instructions

34.3.3 Example Three. Overhaul instructions with illustrated parts breakdown for a turbine outlet temperature indicator, PN D06G0015-1:

43X5-23-2-3
43 Category 43
X Simulator Components
5 Indicator Series
23 Temperature Indicator Subseries
2 Represents PN D06G0015-1
3 Number Reserved for Overhaul Instructions

34.4 CATEGORY 43 NUMBERING SERIES.

| | |
|-----------|--------------------------------|
| 43 | SIMULATOR AND TRAINING DEVICES |
| 43D | TRAINING DEVICES |
| 43D1 | BOMBING |
| 43D2 | MISSILE |
| 43D2-2 | GAM-87A (Skybolts) |
| 43D2-3 | LGM-30 (Minuteman) |
| 43D2-4 | SM-68 (Titan) |
| 43D2-5 | SM-65 (Atlas) |
| 43D2-6 | GAM-83 (AGM-12 Bullpup) |
| 43D2-7 | AGM-69A (SRAM) |
| 43D2-8 | AGM-86B |
| 43D2-9 | BGM-109G (Tomahawk) |
| 43D2-10 | LGM-118A (Peacekeeper) |
| 43D2-11 | AGM-129 |
| 43D2-12 | AGM-131A (SRAM 2) |
| 43D2-13 | RESERVED |
| 43D2-14 | AGM-65A/B (Maverick) |
| 43D3 | FLIGHT SIMULATORS |
| 43D3-2 | Bomber |
| 43D3-2-5 | B-52 |
| 43D3-2-7 | B-52 (Use 43D3-2-5) |
| 43D3-3 | Cargo |
| 43D3-3-5 | C-130 |
| 43D3-3-8 | C-135 |
| 43D3-3-10 | C-123 |
| 43D3-3-12 | C-130B (Use 43D3-3-5) |
| 43D3-3-13 | C-130E (Use 43D3-3-5) |
| 43D3-3-15 | C-5A |
| 43D3-4 | Fighter |
| 43D3-4-12 | F-15 |
| 43D3-4-13 | F117A |
| 43D3-5 | Cockpit |
| 43D3-5-3 | RB-66 |
| 43D3-5-12 | C-5 |
| 43D3-5-13 | C-130 |
| 43D3-5-15 | F-16 |
| 43D3-6 | Missile |
| 43D3-6-2 | TM-61 |
| 43D3-6-3 | SM-62 |
| 43D3-7 | VISUAL |
| 43D3-7-2 | SMK-23/F37A-T |
| 43D3-7-3 | SMK-87/F37A-T |
| 43D3-7-4 | Virtual Image |
| 43D3-7-5 | SMK-92/F37A |
| 43D3-7-6 | 117/WST |
| 43D3-8 | Attack Aircraft |
| 43D3-8-3 | A-10A |
| 43D3-9 | Helicopter |

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| 43D3-9-2 | CH-3E, HH-53C |
| 43D3-10 | Electronic Aircraft |
| 43D3-10-2 | E-3 |
| 43D3-11 | Trainer |
| 43D3-11-2 | T-46A |
| 43D4 | GUNNERY TRAINING |
| 43D4-2 | Fixed |
| 43D4-3 | Flexible |
| 43D5 | INSTRUMENT FLYING |
| 43D6 | NAVIGATION |
| 43D7 | RADIO AND RADAR |
| 43D7-2 | AN/APG |
| 43D7-3 | AN/APN |
| 43D7-4 | AN/APQ; AN/GJW |
| 43D7-5 | AN/APS |
| 43D7-6 | AN/GJW (See 43D7-4 also) |
| 43D7-7 | AN/GPN |
| 43D7-8 | AN/GPQ |
| 43D7-9 | Control |
| 43D7-10 | Telemetry |
| 43D7-11 | Countermeasures |
| 43D7-12 | AN/ASQ and AN/GSQ |
| 43D7-13 | Associated Equipment |
| 43D7-14 | Fire Control |
| 43D7-15 | Beacon Set |
| 43D7-16 | Search Radar and Detecting |
| 43D7-17 | AN/FRC |
| 43D7-18 | AN/APY |
| 43D7-19 | AN/MST |
| 43D8 | INDOCTRINATION TRAINERS AND CHAMBERS |
| 43D8-2 | Egress System |
| 43D8-3 | Indoctrination Chamber |
| 43D8-3-2 | 20-Man |
| 43D8-3-3 | 16-Man |
| 43D8-3-4 | Test Chamber |
| 43D8-3-5 | 6-Man |
| 43D8-3-6 | Recompression |
| 43D8-4 | High Altitude Helmet and Suit Training Aid |
| 43D8-5 | Night Vision |
| 43D8-6 | Missiles |
| 43D8-7 | Centrifuge |
| 43D9 | MOCK-UP AIRSPEED TRAINERS |
| 43D10 | DRIVER TRAINING |
| 43D11 | WEAPON SIMULATORS |
| 43D12 | ENGINES |
| 43D13 | TRAINERS |
| 43D13-3 | TAU Series |
| 43D13-4 | Operator (Do not use) |
| 43D14 | (Do not use) |
| 43D15 | (Do not use) |

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| 43D16 | LAUNCH CONTROL AND CHECKOUT |
| 43D16-2 | Control System |
| 43D16-3 | Launch Complex System |
| 43D16-4 | Launch Operator Trainer |
| 43D16-5 | Checkout Trainer |
| 43D16-6 | Umbilical Tower Trainer |
| 43D16-7 | Launch Enable System |
| 43D17 | GUIDANCE SYSTEM TRAINERS |
| 43D17-2 | Airborne |
| 43D17-3 | Ground |
| 43D17-4 | Computer |
| 43D17-5 | Subsystem |
| 43D18 | PROPULSION TRAINERS |
| 43D18-2 | System Trainer |
| 43D19 | FLIGHT CONTROL TRAINERS |
| 43D19-2 | System |
| 43D19-3 | Ground Support Equipment |
| 43D20 | HYDRAULIC AND PNEUMATIC SYSTEMS |
| 43D20-2 | System |
| 43D21 | STORAGE, TRANSFER AND PRESSURIZATION |
| 43D21-2 | Liquid Oxygen |
| 43D21-3 | Helium |
| 43D21-4 | Propellant |
| 43D22 | ELECTRICAL SYSTEMS |
| 43D22-2 | System |
| 43D22-3 | Power Conversion and Distribution |
| 43D22-4 | Trouble Analysis |
| 43D22-5 | Missile Safety and Arming |
| 43D23 | INSTALLATION AND TRANSPORTATION |
| 43D23-2 | Rocket and Explosive Bolt |
| 43D23-3 | Ordnance Installation |
| 43D23-4 | Engine |
| 43D23-5 | Missile Handling |
| 43D23-6 | Pylon/Installation/Missile Loading |
| 43D23-7 | Thermo-Conditioner |
| 43D23-8 | Hydraulic System |
| 43D24 | PROGRAMMERS |
| 43D24-2 | Propellant Loading |
| 43D24-3 | Propulsion Signal |
| 43D25 | TEST SET (Do not use) |
| 43D26 | PROCEDURES |
| 43D27 | ALIGNMENT TRAINERS |
| 43D28 | ANTENNA SYSTEM TRAINERS |
| 43D29 | SILO TRAINERS |
| 43D30 | AIR-CONDITIONING |
| 43D31 | LAUNCHER TRAINERS |
| 43D32 | LAUNCH SITE TRAINERS |
| 43D32-2 | Equipment |
| 43D32-3 | Operation and Maintenance |
| 43D33 | MAINTENANCE |
| 43D33-2 | Security Support Bench |
| 43D33-3 | Thermo-Conditioner |

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| 43D34 | NETWORKS |
| 43D34-2 | Sequence and Monitor |
| 43D35 | INSPECTION |
| 43D36 | SAFETY |
| 43D37 | COMMUNICATIONS |
| 43D37-2 | System |
| 43D38 | ATMOSPHERIC RESEARCH EQUIPMENT |
| 43D39 | GROUND ELECTRONIC SYSTEMS |
| 43DA | ASSOCIATED EQUIPMENT |
| 43DA1 | PRINTER MECHANISM |
| 43DA2 | RECORDERS |
| 43DA3 | ANNOUNCERS |
| 43DA4 | MAGAZINES |
| 43DA5 | DECODERS |
| 43DA6 | TOOLS |
| 43DA7 | DESICCATORS |
| 43DA8 | CYLINDERS AND NITROGEN CYLINDERS |
| 43DA9 | CARDS |
| 43DA10 | PATCHBOARDS |
| 43DA11 | AMPLIFIERS |
| 43DA12 | DRIVERS |
| 43DA13 | VISUAL SYSTEMS |
| 43DA13-2 | Monitor and Components |
| 43DA13-3 | Projector and Components |
| 43DA13-4 | Camera and Components |
| 43DA14 | AUTOMATED FLIGHT TRAINING SYSTEMS |
| 43DA14-2 | Training Set, Mission - Simulator |
| 43E | TRAINING EQUIPMENT |
| 43E1 | CARRIERS |
| 43E1-2 | Target |
| 43E1-3 | Radar |
| 43E1-4 | Electricity Demonstration |
| 43E2 | CONTROLS |
| 43E2-2 | Auto-Pilot |
| 43E2-3 | Pneumatic |
| 43E3 | KITS |
| 43E3-2 | Film Assessing |
| 43E3-3 | Radar Set Adapter |
| 43E3-4 | Radar Set Dolly |
| 43E4 | GENERATORS |
| 43E4-2 | Signal |
| 43E5 | PANELS |
| 43E6 | POWER SYSTEMS |
| 43E6-2 | Windlass |
| 43E6-3 | Power Supply |
| 43E6-4 | Rectifier |
| 43E6-5 | Engine |
| 43E6-6 | Motor Generator |
| 43E7 | RADIO AND RADAR |
| 43E7-2 | Accessory |
| 43E7-3 | Interphone System |
| 43E7-4 | Radio Range |

| | |
|-----------|--|
| 43E7-5 | Training Set |
| 43E7-6 | Signal |
| 43E7-7 | Scorer |
| 43E7-8 | Receiver |
| 43E7-9 | Amplifier |
| 43E7-10 | Converter |
| 43E8 | RECORDERS - REPRODUCERS (See 43X16 also) |
| 43E8-2 | Sound |
| 43E9 | READERS AND VISICORDERS |
| 43E10 | SIMULATORS |
| 43E10-2 | Bombsight |
| 43E10-3 | Radio, Radar |
| 43E10-4 | Line Store |
| 43E10-5 | Small Arms Fire |
| 43E10-6 | Circuit Analysis |
| 43E10-7 | Signal |
| 43E10-8 | Switch |
| 43E10-9 | Mortar |
| 43E10-10 | Antenna Assembly |
| 43E10-11 | Motion System |
| 43E10-12 | Control Tower |
| 43E11 | TARGETS |
| 43E12 | TRANSPONDER GROUPS (Interconnector) |
| 43E14 | WINDLASSES |
| 43E15 | CATAPULTS |
| 43E16 | LAUNCHERS |
| 43E17 | TOW TARGETS |
| 43E17-2 | Actuator |
| 43E17-3 | Cart |
| 43E18 | LOADING |
| 43E19 | TELEGRAPHIC |
| 43E19-2 | Code Training |
| 43E20 | REGULATORS |
| 43E20-2 | Oxygen |
| 43E20-3 | Pressure |
| 43E21 | LIQUID |
| 43E21-2 | Oxygen |
| 43E22 | CHEMICALS |
| 43E22-2 | Biological and Radiological |
| 43E23 | RESIDENT TRAINERS |
| 43E23-2 | Cargo Aircraft |
| 43E23-2-2 | C-141A |
| 43E23-2-3 | C-5A |
| 43E23-3 | FIGHTER ACFT |
| 43E23-3-4 | F-15 |
| 43E23-3-5 | F117A |
| 43E23-4 | Helicopters |
| 43E23-4-2 | HH-43 |
| 43E23-4-3 | HH-53B |
| 43E23-4-4 | TF-1F |
| 43E23-4-5 | UN-1N |
| 43E23-5 | Bomber Aircraft |

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|------------|--------------------------------|
| 43E23-5-2 | B-52 |
| 43E24 | MOBILE TRAINERS |
| 43E24-2 | Cargo Aircraft |
| 43E24-2-3 | C-135 |
| 43E24-2-4 | C-133 |
| 43E24-2-5 | EC-121 |
| 43E24-2-7 | C-5A |
| 43E24-2-8 | C-10 |
| 43E24-2-9 | C-130 |
| 43E24-2-10 | C-17 |
| 43E24-3 | Fighter Aircraft |
| 43E24-3-9 | F-15 |
| 43E24-3-10 | F-16 |
| 43E24-4 | Helicopter Aircraft |
| 43E24-4-2 | UH-1 |
| 43E24-4-3 | HH-53C |
| 43E24-5 | Bomber Aircraft |
| 43E24-5-2 | B-52 |
| 43E24-5-4 | B-1B |
| 43E24-5-5 | B-2A |
| 43E24-6 | Attack Aircraft |
| 43E24-6-4 | A-10 |
| 43E24-7 | Observation Aircraft |
| 43E24-7-2 | OV-10A |
| 43E24-8 | Trainer Aircraft |
| 43E24-8-2 | T-38 |
| 43E24-8-3 | T-46 |
| 43E24-8-11 | T-38A |
| 43E24-9 | Electronic Aircraft |
| 43E24-9-2 | E-3 |
| 43E24-9-3 | E-8 |
| 43E25 | PROJECTORS |
| 43E26 | DIGITAL COMPUTERS (Use 31S5) |
| 43E27 | WIND TUNNELS |
| 43E28 | EXPLOSIVE DISPOSAL |
| 43E29 | BOMBING SYSTEMS TRAINER |
| 43E30 | GUNSHIP SYSTEMS TRAINERS |
| 43E30-2 | C-130 |
| 43EA | ASSOCIATED EQUIPMENT (Use 43X) |
| 43X | COMPONENTS |
| 43X1 | AUTOSYNS |
| 43X2 | CABLES |
| 43X3 | DISPLAYS |
| 43X3-2 | Radar Data |
| 43X3-3 | Graphic |
| 43X3-4 | Control |
| 43X3-5 | System |
| 43X4 | FLARES |
| 43X5 | INDICATORS |
| 43X5-2 | Altimeter |
| 43X5-3 | Artificial Horizon |
| 43X5-4 | Cross Pointer |

| | |
|---------|--------------------------------|
| 43X5-5 | Directional Gyroscope |
| 43X5-6 | Landing |
| 43X5-7 | Standard Beam Approach |
| 43X5-8 | Turn and Bank |
| 43X5-9 | Single Autosyn |
| 43X5-10 | Photo Firing |
| 43X5-11 | Accelerometer |
| 43X5-12 | Attitude |
| 43X5-13 | Doppler |
| 43X5-14 | Compass |
| 43X5-15 | Altitude |
| 43X5-16 | Oxygen |
| 43X5-17 | Tachometer |
| 43X5-18 | Airspeed |
| 43X5-19 | Flap |
| 43X5-20 | Landing Gear |
| 43X5-21 | Fuel |
| 43X5-22 | Velocity |
| 43X5-23 | Temperature |
| 43X5-24 | Oil Pressure |
| 43X5-25 | Digital Angle |
| 43X5-26 | Radar Navigator |
| 43X5-27 | Groundspeed |
| 43X5-28 | Rudder Trim |
| 43X5-29 | Hydraulic Pressure |
| 43X5-30 | Torque |
| 43X5-31 | Hover |
| 43X5-32 | Engine |
| 43X5-33 | Horizontal Situation |
| 43X5-34 | Course |
| 43X6 | MAPS |
| 43X6-2 | Supersonic Radar |
| 43X7 | METERS AND MEASURING EQUIPMENT |
| 43X8 | COUNTERS AND TIMERS |
| 43X9 | PROTECTIVE BAGS |
| 43X10 | ADAPTERS |
| 43X10-2 | Universal Delivery |
| 43X10-3 | Monitor |
| 43X10-4 | Electrical |
| 43X10-5 | Installation |
| 43X11 | THERMOSTATS |
| 43X12 | REELS |
| 43X12-2 | Tow Target |
| 43X13 | LOAD SENSOR |
| 43X14 | VALVES |
| 43X15 | AMPLIFIERS |
| 43X16 | RECORDERS (See 43E8 also) |
| 43X17 | PUMPS |
| 43X17-2 | Vacuum |
| 43X17-3 | Hydraulic |
| 43X18 | SETTING DEVICES |
| 43X19 | DISCONNECT UNITS |

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| | |
|---------|--|
| 43X20 | TRAINER ATTACHMENTS |
| 43X21 | MECHANISMS AND DRIVES, DISK DRIVES |
| 43X22 | STANDS |
| 43X23 | COMPRESSORS |
| 43X24 | CYLINDERS |
| 43X25 | ACTUATORS |
| 43X26 | ACCUMULATORS |
| 43X27 | TANK ASSEMBLIES |
| 43X28 | POWER UNITS |
| 43X29 | NAVIGATION |
| 43X30 | SERVOS |
| 43X31 | PANELS |
| 43X32 | GEAR BOXES |
| 43X33 | SERVOMOTORS |
| 43X34 | LIGHT ASSEMBLIES |
| 43X35 | COMPUTERS |
| 43X36 | CONVERTERS |
| 43X37 | ALTIMETERS |
| 43X38 | UNITS |
| 43X39 | PLOTTERS |
| 43X40 | GENERATORS |
| 43X40-2 | Target |
| 43X40-3 | Sweep |
| 43X40-4 | Pulse |
| 43X40-5 | Function |
| 43X40-6 | Vector |
| 43X41 | POWER SUPPLIES |
| 43X42 | KITS |
| 43X43 | CONTROLS |
| 43X44 | DATA TERMINALS |
| 43X45 | TAPE TRANSPORTS |
| 43X46 | MONITORS |
| 43X47 | PRINTERS |
| 43X48 | READOUT UNITS |
| 43X49 | ANALYZERS |
| 43X50 | MODULES |
| 43X51 | TRANSLATORS |
| 43X52 | CARD ASSEMBLIES |
| 43X53 | VOLTAGE, CURRENT, AND RESISTANCE UNITS |
| 43X54 | TAPES AND DRUM ASSEMBLIES AND COMPONENTS |
| 43X55 | GAUGES |
| 43X56 | SYSTEMS |
| 43X57 | HUMIDIFIERS |
| 43X58 | PROJECTORS |
| 43X59 | PALLET ASSEMBLIES |

CHAPTER 35

CATEGORY 44 - COMMON HARDWARE EQUIPMENT

35.1 GENERAL.

Category 44 contains two common hardware equipment systems. These systems are divided into equipment series and the equipment series are further divided into equipment subseries. TO numbers in Category 44 use both three and four basic groups for data identification. The numbering patterns for both forms are discussed in Paragraph 35.2.

35.1.1 Multiple Systems. TO data pertaining to more than one system in this category is numbered in the category general series.

35.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

35.2 NUMBERING PATTERNS.

35.2.1 Group One. This group has three parts identifying the category, system and equipment series.

35.2.1.1 Part one is always the numeric 44 identifying Category 44.

35.2.1.2 Part two is an alpha character identifying the various hardware systems, i.e., B - bearings; and H - hardware.

35.2.1.3 Part three contains one or more numeric characters that identify the equipment series within a system. The numbering series for this category is outlined in Paragraph 35.4.

35.2.2 Group Two. TO numbering patterns in Category 44 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering pattern for both forms:

35.2.2.1 If the TO number uses only three basic groups, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

35.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

35.2.3 Group Three.

35.2.3.1 If a TO number has only three basic groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions

35.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 44:

CL - Checklists

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- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

35.2.3.3 If the TO number contains four basic groups, the third group will have one or more numeric characters representing the model, type or PN assigned to specific equipment.

35.2.4 Group Four. Group Four. In those cases where the TO number contains four basic groups, the fourth group identifies specific types of TOs defined in Paragraph 35.2.3.1.

35.3 EXAMPLES OF CATEGORY 44 NUMBERING PATTERNS.

35.3.1 Example One. A maintenance manual for anti-friction bearings:

| | |
|-----------|---|
| 44B-1-102 | |
| 44 | Category 44 |
| B | Bearings |
| 1 | System General Series |
| 102 | Number Reserved for General Series Maintenance Instructions |

35.3.2 Example Two. Overhaul instructions for an air starter coupling assembly, PN 3127-10:

| | |
|------------|---|
| 44H1-2-3-3 | |
| 44 | Category 44 |
| H | Hardware |
| 1 | Aircraft Common Hardware Series |
| 2 | Coupling Subseries |
| 3 | Represents PN 3127-10 |
| 3 | Number Reserved for Overhaul Instructions |

35.4 CATEGORY 44 NUMBERING SERIES.

| | |
|--------|---------------------------|
| 44 | COMMON HARDWARE EQUIPMENT |
| 44B | BEARINGS |
| 44H | HARDWARE |
| 44H1 | AIRCRAFT COMMON HARDWARE |
| 44H1-2 | Coupling |
| 44H1-3 | Valve |
| 44H2 | UTILITY HARDWARE |
| 44H2-2 | Washer |
| 44H2-3 | Security Hardware |
| 44H3 | AIRCRAFT HOSE CLAMPS |

CHAPTER 36

CATEGORY 45 - RAILROAD EQUIPMENT

36.1 GENERAL.

Category 45 contains two railroad equipment systems. These systems are divided into equipment series and the equipment series are further divided into equipment subseries. TO numbers in this category use both three and four basic groups for data identification. The numbering pattern for both forms are discussed in Paragraph 36.2.

36.1.1 Multiple Systems. TO data pertinent to more than one system in this category is numbered in the category general series.

36.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

36.2 NUMBERING PATTERNS.

36.2.1 Group One. This group has three parts identifying the category, system and equipment series.

36.2.1.1 Part one is always the numeric 45 identifying Category 45.

36.2.1.2 Part two is an alpha character identifying the railroad equipment systems, i.e., A - rolling stock; and E - right-of-way maintenance equipment. Associated equipment for these systems is identified by adding the alpha A immediately following the system identifier, i.e., AA or EA.

36.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. The numbering series for this category is outlined in Paragraph 36.4.

36.2.2 Group Two. TO numbering patterns in Category 45 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering pattern for both forms:

36.2.2.1 If only three basic groups are used in a numbering pattern, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

36.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries will be identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

36.2.3 Group Three.

36.2.3.1 If a TO number has only three basic groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements

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36.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards, supplements or other media. The following alpha characters are authorized for use in Category 45:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

36.2.3.3 If the TO number contains four basic groups, the third group will have one or more numeric characters representing the model, type or PN assigned to specific equipment.

36.2.4 Group Four. In those cases where the TO number contains four basic groups, the fourth group identifies specific types of TOs defined in Paragraph 36.2.3.1.

36.3 EXAMPLES OF CATEGORY 45 NUMBERING PATTERNS.

36.3.1 Example One. Operating instruction for diesel electric locomotive, model 539-S:

45A2-2-13-1
45 Category 45
A Rolling Stock
2 Locomotive Series
2 Diesel Electric Subseries
13 Represents Model 539-S
1 Number Reserved for Operating Instructions

36.3.2 Example Two. Illustrated parts breakdown for a railway diesel crane, model 825D:

45E4-2-5-4
45 Category 45
E Right-of-Way Maintenance Equipment
4 Crane Series
2 Diesel Crane Subseries
5 Represents Model 825D
4 Number Reserved for Illustrated Parts Breakdown

36.4 CATEGORY 45 NUMBERING SERIES.

45 RAILROAD EQUIPMENT
45A ROLLING STOCK
45A1 CARS
45A1-2 Box
45A1-3 Flat
45A1-4 Hospital Unit
45A1-5 Maintenance
45A1-6 Tank
45A2 LOCOMOTIVES
45A2-2 Diesel, Electric
45A2-3 Gasoline
45AA ASSOCIATED EQUIPMENT
45AA2 BRAKE EQUIPMENT

| | |
|--------|------------------------------------|
| 45E | RIGHT-OF-WAY MAINTENANCE EQUIPMENT |
| 45E1 | BRAKES |
| 45E2 | BRIDGES |
| 45E3 | COMPRESSORS |
| 45E4 | CRANES |
| 45E4-2 | Diesel |
| 45E4-3 | Gasoline |
| 45E4-4 | Steam |
| 45E5 | DERRICKS |
| 45E6 | HAMMERS |
| 45E7 | SIGNAL DEVICES |
| 45E8 | TRACKS |
| 45E9 | TRACK SHIFTERS |
| 45E10 | JACKS |
| 45E11 | WINCHES |
| 45E12 | HEATERS |
| 45E13 | TAMPERS |

CHAPTER 37

CATEGORY 46 - OFFICE, DUPLICATING, PRINTING AND BINDING EQUIPMENT

37.1 GENERAL.

Category 46 contains three systems. These systems are divided into equipment series and the equipment series are further divided into equipment subseries. TO numbers in this category use both three and four basic groups for data identification. The numbering pattern for both forms are discussed in Paragraph 37.2.

37.1.1 Multiple Systems. TO data pertinent to more than one system in this category is numbered in the category general series.

37.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

37.2 NUMBERING PATTERNS.

37.2.1 Group One. This group has three parts identifying the category, system and equipment series.

37.2.1.1 Part one is always the numeric 46 identifying Category 46.

37.2.1.2 Part two is an alpha character identifying the various systems, i.e., A - office equipment; D - duplicating equipment; and P - printing and binding equipment.

37.2.1.3 Part three contains one or more numeric characters identifying equipment series within a system. The numbering series for this category is outlined in Paragraph 37.4.

37.2.2 Group Two. TO numbering patterns in Category 46 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering patterns for both forms:

37.2.2.1 If only three basic groups are used in a numbering pattern, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

37.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

37.2.3 Group Three.

37.2.3.1 If a TO number has only three basic groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements

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37.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 46:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

37.2.3.3 If the TO number contains four basic groups, the third group will have one or more numeric characters representing the model, type or PN assigned to specific equipment.

37.2.4 Group Four. In those cases where the TO number contains four basic groups, the fourth group identifies specific types of TOs defined in Paragraph 37.2.3.1.

37.3 EXAMPLES OF CATEGORY 46 NUMBERING PATTERNS.

37.3.1 Example One. A maintenance manual for a calculator, model 9820A:

| | |
|------------|---|
| 46A1-4-5-2 | |
| 46 | Category 46 |
| A | Office Equipment |
| 1 | Machine Series |
| 4 | Calculator Subseries |
| 5 | Represents Model 9820A |
| 2 | Number Reserved for Maintenance Manuals |

37.3.2 Example Two. An operating instruction for a mimeograph duplicator, model 92:

| | |
|------------|--|
| 46D1-9-2-1 | |
| 46 | Category 46 |
| D | Duplicating Equipment |
| 1 | Machine Series |
| 9 | Stencil Subseries |
| 2 | Represents Model 92 |
| 1 | Number Reserved for Operating Instructions |

37.4 CATEGORY 46 NUMBERING SERIES.

| | |
|--------|--|
| 46 | OFFICE, DUPLICATING, PRINTING, AND BINDING EQUIPMENT |
| 46A | OFFICE EQUIPMENT |
| 46A1 | MACHINES |
| 46A1-2 | Accounting |
| 46A1-3 | Adding |
| 46A1-4 | Calculating |
| 46A1-5 | Card Recording |
| 46A2 | PANTOGRAPHES |
| 46A3 | SAFES AND LOCKERS |
| 46A4 | TYPEWRITERS |
| 46A5 | READERS |
| 46D | DUPLICATING EQUIPMENT |
| 46D1 | MACHINES |
| 46D1-2 | Addressing |

| | |
|---------|--------------------------------|
| 46D1-3 | Blue Printing |
| 46D1-4 | Embossing |
| 46D1-5 | Gelatin |
| 46D1-6 | Photographic |
| 46D1-7 | Plate |
| 46D1-8 | Spirit |
| 46D1-9 | Stencil |
| 46D1-10 | White Print |
| 46P | PRINTING AND BINDING EQUIPMENT |
| 46P1 | CUTTERS |
| 46P2 | DRILLS |
| 46P3 | FRAMES |
| 46P4 | GRAINING MACHINES |
| 46P5 | PRESSES |
| 46P6 | WHIRLERS |

CHAPTER 38

CATEGORY 47 - AGRICULTURE EQUIPMENT

38.1 GENERAL.

Category 47 contains four agriculture systems which are divided into equipment series. This category does not have a division of its equipment series into equipment subseries. Therefore the TO numbering pattern for this category will only contain three basic groups.

38.1.1 Multiple Systems. TO data pertinent to more than one system in this category is numbered in the category general series.

38.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

38.2 NUMBERING PATTERNS.

38.2.1 Group One. This group has three parts identifying the category, system and equipment series.

38.2.1.1 Part one is always the numeric 47 identifying the Category 47.

38.2.1.2 Part two is an alpha character identifying the agriculture systems, i.e., A - cultivation and soil preparation equipment; B - harvesting equipment; C - mowing equipment; D - weed and pest control. Associated equipment is identified by adding an alpha A immediately following the system identifier, e.g., AA.

38.2.1.3 Part three contains one or more numeric characters identifying equipment series within a system. The numbering series for this category is outlined in Paragraph 38.4.

38.2.2 Group Two. Inasmuch as the numbering pattern for this category has only three basic groups, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

38.2.3 Group Three.

38.2.3.1 The third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 47:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Broakdown
- 6 Inspection Requirements

38.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 47:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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38.3 EXAMPLE OF CATEGORY 47 NUMBERING PATTERNS.

38.3.1 Example One. An operating instruction for a sprayer, PN 44-10000-1:

47D1-5-1
47 Category 47
D Weed and Pest Control Equipment
1 Sprayer Series
5 Represents PN 44-10000-1
1 Number Reserved for Operating Instructions

38.4 CATEGORY 47 NUMBERING SERIES.

47 AGRICULTURE EQUIPMENT
47A CULTIVATION AND SOIL PREPARATION
47A1 CULTIVATORS
47A2 HARROWS
47A3 PLOWS
47A4 SOIL MIXERS
47B HARVESTING EQUIPMENT
47C MOWING EQUIPMENT
47C1 LAWN MOWERS
47C2 TURF MOWERS
47C3 LAWN EDGERS
47D WEED AND PEST CONTROL EQUIPMENT
47D1 SPRAYERS
47D2 WEED BURNERS

CHAPTER 39

CATEGORY 49 - OPTICAL INSTRUMENTS, TIMEKEEPING AND NAVIGATION EQUIPMENT

39.1 GENERAL.

Category 49 contains three systems that are divided into three equipment series. This category does not have a division of its equipment series into equipment subseries. Therefore the TO numbering pattern for this category will only contain three basic groups.

39.1.1 Multiple Systems. TO data pertinent to more than one system in this category is numbered in the category general series.

39.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

39.2 NUMBERING PATTERNS.

39.2.1 Group One. This group has three parts identifying the category, system and equipment series.

39.2.1.1 Part one is always the numeric 49 identifying Category 49.

39.2.1.2 Part two is an alpha character identifying the various systems, i.e., A - optical instruments; B - timekeeping equipment; and C - navigation equipment. Associated equipment for these systems are identified by adding the alpha A immediately following the system identifier, e.g., AA.

39.2.1.3 Part three contains one or more numeric characters identifying equipment series within a system. The numbering series for this category is outlined in Paragraph 39.4.

39.2.2 Group Two. Since the numbering pattern for this category uses only three basic groups, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

39.2.3 Group Three.

39.2.3.1 The third group identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in Category 49:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 5 Test Procedures
- 6 Inspection Requirements

39.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 49:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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39.3 EXAMPLES OF CATEGORY 49 NUMBERING PATTERNS.

39.3.1 Example One. An operating instruction for a navigation watch, type AN5740:

49B2-3-1
49 Category 49
B Timekeeping Equipment
2 Watch Series
3 Represents Type AN5740
1 Number Reserved for Operating Instructions

39.3.2 Example Two. Test procedures for a surveying compass, type N5334:

49C1-4-5
49 Category 49
C Navigation Equipment
1 Compass Series
4 Represents Type N5334
5 Number Reserved for Test Procedures

39.4 CATEGORY 49 NUMBERING SERIES.

49 OPTICAL INSTRUMENTS, TIMEKEEPING, AND NAVIGATION EQUIPMENT
49A OPTICAL INSTRUMENTS
49A1 BINOCULARS
49A2 MOUNTS
49A3 QUADRANTS
49A4 TELESCOPES
49A5 TRANSITS
49A6 PERISCOPES
49A7 AIMING CIRCLES
49A8 THEODOLITES
49A9 COLLIMATORS
49A10 MISSILE LAYING EQUIPMENT
49A11 CALIBRATION AND ALIGNMENT EQUIPMENT
49A12 SPOTTING SETS
49A13 MICROSCOPES
49A14 CATHEOMETER
49A15 CLINOMETERS
49A16 RANGE FINDERS
49A17 SPECTROPHOTOMETERS
49AA ASSOCIATED EQUIPMENT
49AA1 ALIDADES
49B TIMEKEEPING EQUIPMENT
49B1 CLOCKS
49B2 WATCHES
49B3 TIMERS
49C NAVIGATION EQUIPMENT
49C1 COMPASSES
49C2 INDICATORS

CHAPTER 40

CATEGORY 50 - SPECIAL SERVICES EQUIPMENT

40.1 GENERAL.

Category 50 contains four systems. These systems are divided into equipment series and the equipment series are further divided into equipment subseries. TO numbers in this category use both three and four basic groups for data identification. The numbering pattern for both forms are discussed in Paragraph 40.2.

40.1.1 Multiple Systems. TO data pertinent to more than one system in this category is numbered in the category general series.

40.1.2 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the system general series.

40.2 NUMBERING PATTERNS.

40.2.1 Group One. This group has three parts identifying the category, system and equipment series.

40.2.1.1 Part one is always the numeric 50 identifying Category 50.

40.2.1.2 Part two is an alpha character identifying the special services equipment systems, i.e., A - musical instruments; B - athletic equipment; C - sanctuary equipment; and D - laundry equipment.

40.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. The numbering series for this category is outlined in Paragraph 40.4.

40.2.2 Group Two. TO numbering patterns in Category 50 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering pattern for both forms:

40.2.2.1 If only three groups are used in a numbering pattern, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

40.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment series is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

40.2.3 Group Three.

40.2.3.1 If a TO number has only three basic groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category:

- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 3 Depot Maintenance or Overhaul Instructions
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements

40.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 50:

CL - Checklists

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- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

40.2.3.3 If the TO number contains four basic groups, the third group has one or more numeric characters representing the model, type or PN assigned to specific equipment.

40.2.4 Group Four. In those cases where the TO number contains four basic groups, the fourth group identifies specific types of TOs defined in Paragraph 40.2.3.1, above.

40.3 EXAMPLES OF CATEGORY 50 NUMBERING PATTERNS.

40.3.1 Example One. Operating instructions for an electric organ, model C-2G:

50A1-3-3-1
50 Category 50
A Musical Instruments
1 Organ Series
3 Electronic Organ Subseries
3 Represents Model C-2G
1 Number Reserved for Operating Instructions

40.3.2 Example Two. Illustrated parts breakdown for laundry unit, model ELT9T:

50D1-2-14
50 Category 50
D Laundry Equipment
1 Laundry Unit Series
2 Represents Model ELT9T
14 Number Reserved for Illustrated Parts Breakdown

40.4 CATEGORY 50 NUMBERING SERIES.

50 SPECIAL SERVICES EQUIPMENT
50A MUSICAL INSTRUMENTS
50B ATHLETIC EQUIPMENT
50C SANCTUARY EQUIPMENT
50D LAUNDRY EQUIPMENT
50D1 LAUNDRY UNITS

CHAPTER 41

CATEGORY 51 - AUTOMATIC TEST SYSTEMS

41.1 GENERAL.

Normally test procedures, test control or programmed test TOs are numbered with related equipment in the various airborne and ground component categories. However, TOs pertaining to depot level, automatic test equipment software and software instruction manuals are numbered in Category 51. Three types of automatic test equipment numbered in this category can be defined as Computer Operated Multifunction Electronic Test Stations (COMETS); General Purpose Automatic Test Systems (GPATS); and Versatile Automatic Test Equipment Systems (VATES). GPATS and VATES TOs relate test modules to Line Replaceable Units (LRUs) and Shop Replaceable Units (SRUs) of an airborne or ground system. COMETS TOs identify LRUs and SRUs with a test system. Another basic difference between these automatic systems is GPATS and VATES test software do not require computer memory banks for test operations and can only test singular Units Under Test (UUTs). COMETS test software operates with computer memory banks and has the capability to test components of several systems on one test station.

41.1.1 Primary Series. Automatic Test Equipment in Category 51 contains seven systems. These systems are divided into equipment series and some of the equipment series are further divided into equipment subseries. TO numbers in this category use both three and four basic groups for data identification. The numbering pattern for both forms are discussed in Paragraph 41.2.

41.1.2 Multiple Series. TO data pertinent to more than one system in this category is numbered in the category general series.

41.1.3 Multiple Equipment. Information relating to more than one equipment series within a system is numbered in the category general series.

41.2 NUMBERING PATTERNS.

41.2.1 Group One. This group has three parts identifying the category, system and equipment series.

41.2.1.1 Part one is always the numeric 51 identifying Category 51.

41.2.1.2 Part two is an alpha character identifying the various systems, i.e., C - computer operated multifunction electronic test stations; E - aircraft engines; N - navigation instruments; P - radar equipment; T - master hardware; and V - versatile automatic test equipment.

41.2.1.3 Part three contains one or more numeric characters identifying the equipment series within a system. The numbering series for this category is outlined in Paragraph 41.4.

41.2.2 Group Two. TO numbering patterns in Category 51 use both three and four basic groups; therefore, the identifiers in group two are not constant. The following describes the numbering pattern for both forms:

41.2.2.1 If only three basic groups are used in a numbering pattern, group two contains one or more numeric characters representing the model, type or PN assigned to specific equipment.

41.2.2.2 If the TO number contains four basic groups, the equipment series identified in part three of group one has been further divided into equipment subseries. In this case, the equipment subseries is identified with one or more numeric characters in group two, and the model, type or PN is identified in group three.

41.2.3 Group Three.

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41.2.3.1 If a TO number has only three basic groups, the third group of the numbering pattern identifies the type of TO (see Appendix C for a complete list of types of TOs). The following is a list of numbers reserved to identify specific types of TOs in this category:

- 06 Work Unit Code Manuals
- 07 thru -09 Reserved
- 1 Operating Instructions
- 2 Service or Maintenance Manuals
- 4 Illustrated Parts Breakdown
- 6 Inspection Requirements
- 7 Installation Instructions and Installation Test Procedures
- 8 Test Procedures, Checkout Manuals, or Programmed Tests

41.2.3.2 In some instances the reserved numbers listed above are followed by one or more alpha characters indicating a series of checklists, workcards or supplements. The following alpha characters are authorized for use in Category 51:

- CL - Checklists
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

41.2.3.3 If the TO number contains four basic groups, the third group has one or more numeric characters representing the model, type or PN assigned to specific equipment.

41.2.4 Group Four. In those cases where the TO number contains four basic groups, the fourth group identifies specific types of TOs defined in Paragraph 41.2.3.1.

41.3 EXAMPLES OF CATEGORY 51 NUMBERING PATTERNS.

41.3.1 Example One. Operating and maintenance instructions with parts list for a microwave shop repair unit test adapter, PN 12A11786- 1:

51C1-7-1
51 Category 51
C Computer Operated Test Station
1 Microwave SRU Test Station Series
7 Represents PN 12A11786-1
1 Number Reserved for Operating Instructions

41.3.2 Example Two. Checkout manual for TF-39-GE-1A gas turbine engine:

51E1-3-18-1
51 Category 51
E Aircraft Engine
1 Jet Engine Series
3 Represents TF-39 Model Engine
18 Number Reserved for Checkout Manuals
1 First Manual in a Series

41.3.3 Example Three. Operating and service instruction for a ratio transformer, PN 588618-401:

51T21-2-1
51 Category 51
T Master Hardware

21 Transformer Series
 2 Represents PN 588618-401
 1 Number Reserved for Operating Instructions

41.3.4 Example Four. Checkout manual for type SN-38011/APQ-113 fire control radar:

51P2-2-7-8-1
 51 Category 51
 P Radar Equipment
 2 Fire Control Radar Series
 2 AN/APQ Subseries
 7 Represents SN-38011/APQ-113
 8 Number Reserved for Checkout Manuals
 1 First Manual in a Series

41.4 CATEGORY 51 NUMBERING SERIES.

51 AUTOMATIC TEST EQUIPMENT
 51C COMPUTER OPERATED TEST STATIONS (COMETS)
 51C1 MICROWAVE SHOP REPAIR UNIT TEST STATIONS
 51C2 HIGH VOLTAGE VIDEO ANALOG MODULE TEST STATIONS
 51C3 MULTIFUNCTION ANALOG/DIGITAL MODULE TEST STATIONS
 51C4 PRECISION AC/DC ANALOG MODULE TEST STATIONS
 51C5 DIGITAL LOGIC MODULE TEST STATIONS
 51C6 AEROSPACE GROUND EQUIPMENT MODULE TEST STATIONS
 51C7 LOGIC CIRCUIT CARD ANALYZER TEST STATIONS
 51C8 HEADS UP DISPLAY CATHODE RAY TUBE ELECTRONICS TEST STATIONS
 51C9 SYSTEM TIMING UNIT SCAN CONVERTER TUBE TEST STATIONS
 51C10 DOPPLER RADAR ANTENNA CALIBRATION SYSTEM TEST STATIONS
 51C11 GENERAL RADIO GR1792D SYSTEM
 51E AIRCRAFT ENGINES
 51E1 JET ENGINES
 51E1-2 J-79
 51E1-3 TF-39
 51E1-5 J-57
 51E1-7 TF-30
 51E1-8 TF-33
 51E1-9 TF-41
 51E1-10 T-56
 51N NAVIGATION INSTRUMENTS
 51N1 NAVIGATION SYSTEMS
 51N2 INERTIAL REFERENCE UNITS
 51N3 COMPUTER DISPLAY UNITS
 51N4 ALL WEATHER LANDING SYSTEMS
 51P RADAR EQUIPMENT
 51P1 TERRAIN FOLLOWING RADAR
 51P1-2 Type AN/APQ
 51P2 FIRE CONTROL RADAR
 51P2-2 Type AN/APQ
 51P2-3 Type AN/APA
 51P2-4 Type AN/GJQ

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|--------|---|
| 51P2-5 | Type AN/AWG |
| 51P3 | IDENTIFICATION FRIEND-OR-FOE RADIO SETS |
| 51P3-2 | Type AN/APX |
| 51P4 | ULTRA HIGH FREQUENCY COMMUNICATION SETS |
| 51P4-2 | Type AN/APS |
| 51P5 | COUNTERMEASURES SETS |
| 51P5-2 | Type AN/ALR |
| 51P5-3 | Type AN/ALE |
| 51P6 | ALTIMETERS |
| 51P6-2 | Type AN/APN |
| 51P7 | INTERFERENCE BLANKER |
| 51P7-2 | Type AN/U |
| 51R | RADIO EQUIPMENT |
| 51R1 | AUTOMATIC DIRECTION FINDER |
| 51R1-2 | Type AN/ARA |
| 51R2 | TACTICAL AIR NAVIGATION |
| 51R2-2 | Type AN/ARN |
| 51R2-3 | Type AN/ARN-21C |
| 51R3 | INSTRUMENT LANDING SYSTEM RADIO RECEIVING |
| 51R3-2 | Type AN/ARN |
| 51R4 | INTERCOMMUNICATION SET |
| 51R4-2 | Type AN/AIC |
| 51T | MASTER HARDWARE |
| 51T1 | MASTER HARDWARE SYSTEMS |
| 51T2 | AMPLIFIERS |
| 51T3 | ANALYZER |
| 51T4 | CONTROLLERS |
| 51T5 | CONVERTERS |
| 51T6 | GENERATORS |
| 51T7 | INDICATORS |
| 51T8 | LOAD ASSEMBLIES |
| 51T9 | MEMORY UNITS |
| 51T10 | METERS |
| 51T11 | MONITORS |
| 51T12 | OSCILLATORS |
| 51T13 | POWER SUPPLIES |
| 51T14 | PRINTERS |
| 51T15 | READERS |
| 51T16 | READOUTS |
| 51T17 | SIMULATORS |
| 51T18 | SWITCHING UNITS |
| 51T19 | RESISTANCE UNITS |
| 51T20 | TAPE PREPARATION UNITS |
| 51T21 | TRANSFORMERS |
| 51T22 | SYNTHESIZERS |
| 51T23 | AVIONICS INTERFACE UNITS |
| 51T24 | PUNCHES |
| 51T25 | SUBSCRIBERS |
| 51T26 | ADAPTERS |
| 51T27 | ELECTRONIC CIRCUIT PLUG-IN UNITS |
| 51T28 | FLIGHT CONTROL COMPUTERS |
| 51T29 | PHOTOGRAPHY |

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|-------|------------------------------------|
| 51V | VERSATILE AUTOMATIC TEST EQUIPMENT |
| 51V1 | GUIDANCE EQUIPMENT |
| 51V2 | ADAPTERS |
| 51V3 | ANALYZERS |
| 51V4 | CONVERTERS |
| 51V5 | FREQUENCY MEASURING |
| 51V6 | MULTIMETERS |
| 51V7 | POWER SUPPLIES |
| 51V8 | VOLTMETERS |
| 51V9 | MISSION EQUIPMENT |
| 51V10 | AUXILIARY ASSEMBLIES |

CHAPTER 42

ALPHABETICAL LIST OF EQUIPMENT NAMES TO TECHNICAL ORDER NUMBER GROUPS

42.1 ALPHABETICAL LIST OF EQUIPMENT NAMES.

The following is an alphabetical list of equipment names to technical order number groups.

| | |
|---|---------|
| ABSORBERS | |
| Air-Conditioning and Pressurizing | 15A17 |
| ACCELEROMETERS | |
| Automatic Flight Control System | 5A24 |
| Bombing System | 11B63 |
| Fire Control System | 11F2 |
| Flight Instrument | 5F2 |
| Guidance and Control System | 11G14-4 |
| Navigation Instrument | 5N9 |
| Training Component Indicator | 43X5-11 |
| ACCELEROMETERS AND GYROS, COMBINED | |
| Automatic Flight Control System | 5A32-2 |
| ACCUMULATORS | |
| Aircraft or Missile Engine Fuel System | 6J25 |
| Hydraulic System, Aircraft and Missile | 9H1 |
| Missile Support | 35M21 |
| Pneumatic System, Aircraft and Missile | 9P1 |
| Training Component | 43X26 |
| ACTUATORS | |
| Air Refueling System | 6A1 |
| Airborne Mechanical | 16A1 |
| Alternating- and Direct-Current, Airborne | 8C1 |
| Alternating-Current, Airborne | 8A1 |
| Automatic Flight Control System | 5A44 |
| Direct-Current, Airborne | 8D1 |
| Egress System | 11P9 |
| Engine Fuel System | 6J29 |
| Guidance System | 11G12 |
| Hydraulic System, Aircraft and Missile | 9H2 |
| Loading and Servicing, Associated | 35DA6 |
| Missile Support | 35M27 |
| Pneumatic System, Aircraft and Missile | 9P2 |
| Rocket Engine Fuel System | 6K12 |
| Supercharger Control, Airborne-Engine | 2RA5-3 |
| Training Component | 43X25 |
| ACTUATORS AND MOTORS | |
| Airborne Electrical System | 8 |
| Alternating- and Direct-Current | 8C1 |
| Alternating-Current | 8A1 |
| Direct-Current | 8D1 |
| ADAPTER ASSEMBLIES | |

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| | |
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| Structural Component, Airframe | 16W35 |
| ADAPTER KITS | |
| Photographic | 10G17 |
| ADAPTER UNITS | |
| Bombing System | 11B95 |
| Checkout, Missile | 31X2-56 |
| Supercharger Control System | 2RA5-13 |
| ADAPTERS | |
| Air Refueling System | 6A17 |
| Automatic Flight Control System | 5A2 |
| Camera Control System | 10A6-20 |
| Cluster Bomb | 11A12 |
| Electric Power Supply | 35CA28 |
| Engine and Temperature Instrument | 5E2 |
| Fire Control System | 11F3 |
| Fuel- and Oil-Handling | 37A1 |
| Launcher | 11LA8 |
| Loading and Servicing | 35DA3-6 |
| Missile Support | 35M35 |
| Navigation Instrument | 5N19 |
| Rocket Engine Fuel System | 6K11 |
| Shop Support | 34Y21 |
| Starting | 35D12-3 |
| Training Components | 43X10 |
| Turbojet and Turboprop Aircraft and Engine Fuel System | 6J12 |
| ADMINISTRATIVE PUBLICATIONS | |
| Blank Forms | 00-35D |
| General Technical Order | 00-35 |
| Supply | 00-35A |
| AERIAL DELIVERY SYSTEMS | |
| Cargo Loading, Tiedown, and Aerial Delivery | 13C |
| Kit | 13C7 |
| Pick-up System | 13C8 |
| AEROSPACE VEHICLES | |
| Booster | 22G |
| Probe | 22P |
| Rocket | 22R |
| Satellite | 22S |
| Spacecraft | 22J |
| AFT HUB (TAIL) | |
| Rotor Assembly | 3R1-8 |
| AFTERBURNER CONTROL SYSTEMS | |
| Jet Engine | 2JA1 |
| AGENTS | |
| Chemical Warfare | 11C1 |
| AGRICULTURE EQUIPMENT | |
| Mowing | 47C |
| Weed and Pest Control | 47D |
| AIMING CIRCLES | |
| Optical Instrument | 49A7 |
| AIR COMPRESSORS | |
| Shop Support | 34Y1 |

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|--|---------|
| Vehicle Components | 36Y58 |
| AIR-CONDITIONERS | |
| Commercial | 40A1 |
| Simulator and Training | 43D30 |
| Utility Operating | 35E9 |
| Utility Operating, Associated | 35EA4 |
| AIR-CONDITIONING AND PRESSURIZING EQUIPMENT | |
| Aircraft and Missile | 15A |
| AIR-CONDITIONING, HEATING, PLUMBING, REFRIGERATING, VENTILATING AND WATER TREATING EQUIPMENT, COMMERCIAL | |
| Air-Conditioning | 40A |
| Heating | 40H |
| Plumbing | 40P |
| Refrigerating | 40R |
| Ventilating | 40V |
| Water Treating | 40W |
| AIR EQUIPMENT | |
| Engine Component, Non-aeronautical | 38X25 |
| AIR EVACUATION | |
| General Technical Order | 00-75 |
| AIR INSTALLATION | |
| Electrical Facility | 00-105A |
| Fire Protection and Rescue | 00-105E |
| General Technical Order | 00-105 |
| Harvest Eagle Water System | 00-105K |
| AIRBORNE EQUIPMENT | |
| Electronic | 12 |
| Instrument | 5 |
| Mechanical | 16 |
| Weapon | 11W |
| AIRCRAFT | |
| Attack | 1A |
| Bomber | 1B |
| Cargo/Transport | 1C |
| Fighter | 1F |
| Helicopter | 1H |
| Observation | 1L |
| Special Electronic | 1E |
| Trainer | 1T |
| Utility | 1U |
| AIRCRAFT FURNISHINGS AND IN-FLIGHT FEEDING, CARGO LOADING, AERIAL DELIVERY AND RECOVERY, AIRCRAFT FIRE DETECTION AND EXTINGUISHING EQUIPMENT | |
| Cargo Loading, Tiedown and Aerial Delivery | 13C |
| Fire Detecting and Extinguishing | 13F |
| Furnishing | 13A |
| Inflight Feeding | 13B |
| Recovery | 13D |
| AIRFRAME COMPONENTS (STRUCTURAL) | |
| Airborne Mechanical | 16W |
| AIRSPEED COMPENSATORS | |
| Automatic Flight Control | 5A6-2 |
| AIRSPEED TRAINERS | |

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|--|---------|
| Mock-up | 43D9 |
| ALARMS | |
| Launch Control and Countdown, Missile | 31X3-31 |
| ALIDADES | |
| Optical Instrument | 49AA1 |
| ALIGNMENT AND CALIBRATION EQUIPMENT | |
| Optical | 49A11 |
| ALIGNMENT ASSEMBLIES | |
| Checkout, Missile | 31X2-63 |
| ALPHABETICAL PUBLICATIONS | |
| Technical Order Index | 0-2 |
| ALTERNATING AND DIRECT CURRENT SYSTEMS | |
| Airborne Electrical | 8C |
| ALTERNATING CURRENT SYSTEMS | |
| Airborne Electrical | 8A |
| ALTERNATORS | |
| Electrical Power Supply, Associated | 35CA24 |
| Propeller, Electrical | 3EA1 |
| Propeller, Hydraulic | 3HA11 |
| ALTIMETERS | |
| Automatic Test | 51P6 |
| Bombing System | 11B89 |
| Flight Instrument | 5F3 |
| Ground Guidance, Missile | 31X7-51 |
| Training Component | 43X37 |
| ALTITUDE COMPENSATORS | |
| Automatic Flight Control System | 5A6-3 |
| AMBULANCES | |
| Aerial Delivery | 13C7-25 |
| Vehicle | 36A1 |
| AMMUNITION | |
| Aerial Delivery | 13C7-18 |
| Armament | 11A |
| Gun | 11A13 |
| AMPLIFIERS | |
| Air Refueling System (See 8A1-65 and 8D1-58) | 6A2 |
| Aircraft and Missile Engine Fuel System | 6J1 |
| Aircraft Reciprocating Engine Fuel System | 6R11 |
| Alternating- and Direct-Current | 8C17 |
| Alternating-Current | 8A20 |
| Automatic Flight Control System | 5A3 |
| Automatic Test | 51T2 |
| Bombing System | 11B2 |
| Box, Training Component | 43X15 |
| Checkout, Missile | 31X2-38 |
| Direct-Current | 8D19 |
| Electronic Camera Control | 10A6-3 |
| Engine and Temperature Instrument | 5E3 |
| Fire Control System | 11F4 |
| Flight Instrument | 5F4 |
| Ground Communications, Missile | 31X1-10 |
| Ground Guidance, Missile | 31X7 |

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| Guidance System | 11G8 |
| Jet Engine Lubricating System | 7J9 |
| Liquid-Level, Quantity, and Flow Measuring Instrument | 5L2 |
| Navigation Instrument | 5N2 |
| Position and Pressure Instrument | 5P1 |
| Supercharger Control | 2RA5-7 |
| Training Component | 43X15 |
| Training Device | 43DA11 |
| ANALYTICAL SYSTEMS | |
| Photographic | 10H11 |
| ANALYZERS | |
| Automatic Test | 51T3 |
| Bombing System | 11B68 |
| Engine and Temperature Instrument | 5E1-2 |
| Photographic Processing | 10E24 |
| Training Component | 43X49 |
| ANNOUNCER | |
| Simulator or Training Device | 43DA3 |
| ANTENNAS | |
| Bombing System | 11B3 |
| Fire Control System | 11F5 |
| ANTICIPATORS | |
| Refrigeration, Temperature-Sensing | 15A5-3 |
| ARMAMENT EQUIPMENT | |
| Bombing System | 11B |
| Chemical Warfare | 11C |
| Munitions, Bombs, Explosives | 11A |
| ARMORED VEHICLES | |
| Ordnance-Handling | 36R2 |
| Vehicle | 36A14 |
| ASSEMBLY MACHINES, HOSE | |
| Shop Support | 34Y30 |
| ASTRODOMES | |
| Aircraft | 13A11 |
| ATMOSPHERIC RESEARCH EQUIPMENT | |
| Meteorological-Electronic, Airborne | 12M5 |
| Training Device | 43D38 |
| ATOMIC AND RADIOLOGICAL WARFARE | |
| General | 00-110A |
| ATTACHMENTS | |
| Bombing System, Camera | 11B49 |
| Propeller, Electrical | 3EA7 |
| Radio Range, Training | 43E7-4 |
| Training Component | 43X20 |
| Vehicle, Construction, and Material-Handling | 36Y2 |
| ATTENUATORS | |
| Fire Control System | 11F54 |
| AUGERS | |
| Construction | 36C1 |
| AUTOMATIC TEST EQUIPMENT | |
| Aircraft Engines | 51E |
| Computer Operated Test Station (COMETS) | 51C |

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|--|--------|
| Master Hardware | 51T |
| Modular Automatic Test | 33 |
| Navigation Instrument | 51N |
| Radar | 51P |
| Radio | 51R |
| Versatile Automatic Test | 51V |
| AUTOMOBILES | |
| Vehicle | 36A7 |
| AUTOPILOT SYSTEMS | |
| Flight Control | 5A1-2 |
| AUXILIARY METEOROLOGICAL-ELECTRONIC EQUIPMENT | |
| Airborne | 12M1 |
| Ground | 31M1 |
| AUXILIARY RADAR ELECTRONIC EQUIPMENT | |
| Airborne | 12P1 |
| Ground | 31P1 |
| AUXILIARY RADIO ELECTRONIC EQUIPMENT | |
| Airborne | 12R1 |
| Ground | 31A1 |
| AUXILIARY SPECIAL ELECTRONIC EQUIPMENT | |
| Airborne | 12S1 |
| Ground | 31S1 |
| AUXILIARY WIRE FIXED ELECTRONIC EQUIPMENT | |
| Ground | 31W1 |
| AXLES | |
| Electrical Power Supply | 35CA17 |
| Vehicle, Construction and Material-Handling | 36Y3 |
| AZIMUTH ASSEMBLIES | |
| Rotor | 3R5 |
| BAKING EQUIPMENT | |
| Food Service | 41B1 |
| BALANCERS | |
| Special Tool | 32A1 |
| BAROMETRIC ASSEMBLIES | |
| Aircraft and Missile Engine Fuel System | 6J2 |
| BAROMETRIC METEOROLOGICAL-ELECTRONIC EQUIPMENT | |
| Airborne | 12M2 |
| Ground Electronic | 31M2 |
| BARORESISTOR | |
| Fire Control System | 11F78 |
| BARRIERS | |
| Runup Fence | 35E8-3 |
| Runway | 35E8-2 |
| BATH AND SHOWER UNITS | |
| Plumbing | 40P1 |
| BATTERIES | |
| Electrical Equipment, DC | 8D2 |
| Lighting and Electrical, Ground, Handling | 35F13 |
| Vehicle, Construction, and Material-Handling | 36Y4 |
| BATTERY CHARGERS | |
| Power Supply, Electrical, Ground, Handling | 35C3-2 |
| BEAM ASSEMBLIES | |

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|--|---------|
| Loading and Servicing | 35D14 |
| BEARINGS | |
| Engine, Non-aeronautical | 38X1 |
| Hardware | 44B |
| Structural Component, Airframe | 16W25 |
| BELTS AND SHOULDER HARNESSSES | |
| Aircraft Furnishing | 13A1 |
| BENCHES | |
| Dust Free, Shop Support | 34Y37 |
| BENDING MACHINES | |
| Shop Machinery, Metal-Forming | 34G1-10 |
| BEVERAGE UNITS | |
| In-Flight Feeding | 13B6 |
| BINOCULARS | |
| Optical Instrument | 49A1 |
| BINS | |
| Loading and Servicing | 35D11 |
| Vehicle, Construction, and Material-Handling | 36Y5 |
| BLADES | |
| Propeller, Electrical | 3EA2 |
| Propeller, Hydraulic | 3HA1 |
| Rotor Assembly | 3R1 |
| Vehicle, Construction, and Material-Handling Component | 36Y52 |
| BLANKERS | |
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APPENDIX A

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

A.1 LIST OF REFERENCED AND RELATED PUBLICATIONS.

| <u>Number</u> | <u>Title</u> |
|----------------------|---|
| DOD 4120.15-L | Model Designation of Military Aerospace Vehicles |
| DOD 5105.38-M | Security Assistance Management Manual (SAMM), Appdx 4 |
| AFI 16-401(I) | Designating and Naming Defense Military Aerospace Vehicles |
| AFJI 21-301 | Interservicing of Technical Manuals and Related Technology |
| AFMAN 23-110V9 | Security Assistance Program Procedures |
| AFMCI 21-301 | Air Force Materiel Command Technical Order System Implementing Policies |
| AFMCMC 406 | Oklahoma City Air Logistics Center (OC-ALC) |
| AFPD 63-1/20-1 | Acquisition and Sustainment Life Cycle Management |
| AF 63-101 | Acquisition and Sustainment Life Cycle Management |
| DA PAM 25-30 | Consolidated Index of Army Publications and Blank Forms |
| TO 00-5-1 | AF Technical Order System |
| TO 00-5-3 | AF Technical Order Life Cycle Management |
| TO 00-5-15 | Air Force Time Compliance Technical Order Process |
| MIL-STD-196 | Joint Electronics Type Designation System |
| MIL-STD-1808 | Interface Standard; System, Subsystem, Sub-Subsystem Numbering |
| MIL-PRF-83495 | Technical Manuals - On-Equipment Maintenance Manual Set |
| MIL-DTL-87929 | Technical Manuals, Operation and Maintenance Instructions in Work Package Format (For USAF Equipment) |
| ASD/AIA S1000D | International Specification for Technical Publication Utilizing a Common Source Database |
| D086 | Mission Workload Assignments System |
| Air Force TO Catalog | Accessed through AF Portal using ETIMS |

A.2 LIST OF REFERENCED AND RELATED FORMS.

| <u>Number*</u> | <u>Title</u> |
|----------------|---|
| AFTO 22 | Technical Manual (TM) Change Recommendation and Reply |
| DD 61 | Request for Nomenclature |

A.3 LIST OF ACRONYMS.

| | |
|----------|-----------------------------------|
| AAC | Air Armament Center |
| AEODPS | Automated EOD Publications System |
| AFMC | Air Force Materiel Command |
| AFLCMC | AF Life Cycle Management Center |
| AFMCI | AFMC Instruction |
| AFMETCAL | Air Force Metrology & Calibration |
| AFPD | Air Force Policy Directive |
| AFTO | Air Force Technical Order (forms) |
| ALC | Air Logistics Center |
| ARSS | Armament Systems Squadron |

| | |
|--------------|---|
| ATOS | Automated TO System |
| CAC | Common Access Card |
| CAGE | Contractor And Government Entity (Code) |
| CBSG | Combat Sustainment Group |
| CBSS | Combat Sustainment Squadron |
| CD-ROM | Compact Disk-Read-Only Memory |
| CL | Checklist |
| CONUS | Continental U.S. |
| COTS | Commercial Off-The-Shelf |
| CPIN | Computer Program Identification Number |
| CSDB | Common Source Data Base (IETM & S1000D) |
| CSTO | Country Standard TO |
| DA | Department of the Army |
| DLA | Defense Logistics Agency |
| DM | Data Module (S1000D) |
| DoD | Department of Defense |
| DVD | Digital Versatile Disk |
| EOD | Explosive Ordnance Disposal |
| ES | Equipment Specialist |
| ETIMS | Enhanced Technical Information Management System |
| ETM | Electronic Technical Manual |
| FI | Fault Isolation (Manual) (MIL-PRF-83495) |
| FMP | Flight Manuals Program |
| FMS | Foreign Military Sales |
| FOMM | Functionally-Oriented Maintenance Manuals |
| FR | Fault Reporting (Manual) (MIL-PRF-83495) |
| FSC | Federal Stock Class |
| GE | General Equipment (Manual) (MIL-PRF-83495) |
| GS | General Systems (Manual) (MIL-PRF-83495) |
| IAW | In Accordance With |
| IETM | Interactive Electronic Technical Manual |
| IM | Item Manager |
| IOS | Interim Operational Supplement |
| IPB | Illustrated Parts Breakdown |
| IPDF | Indexed Portable Document Format® (Adobe®) |
| ISS | Interim Safety Supplement |
| ITPS | Identifying Technical Publication Sheet |
| JETDS | Joint Electronics Type Designation System |
| JG | Job Guide (MIL-PRF-83495) |
| JIL | Joint Interest List (Navy) |
| MDS | Mission / Design / Series |
| MIL-DTL | Military Detail (specification) |
| MIL-PRF | Military Performance (specification) |
| MIL-STD | Military Standard |
| MMAC | Material Management Aggregate Code |
| MPTO | Methods & Procedures TO |
| MSUG | Materiel Sustainment Group |
| NSWC IHEOTDT | Naval Surface Warfare Center, Indian Head EOD Technology Division |
| NW | Nuclear Weapon |
| NWC | Nuclear Weapons Center |
| PAM | Pamphlet |
| PC | Product Center |

| | |
|-----------|--|
| PM | Program Manager |
| PM | Publication Module |
| PSN | Publication Stock Number |
| SAMM | Security Assistance Management Manual |
| SAP | Security Assistance Program |
| SATODS | Security Assistance TO Data System |
| SD | Schematic Diagram (Manual) (MIL-PRF-83495) |
| SWP | Sub-Work Package (MIL-PRF-83495) |
| TCM | Technical Content Manager |
| TCTO | Time Compliance TO |
| TM | Technical Manual |
| TO | Technical Order |
| U.S. | United States |
| UAV | Unmanned Air Vehicle |
| USAF | United States Air Force |
| VTOL/STOL | Vertical Take-Off & Landing / Short Take-Off & Landing |
| WAN | Wide Area Network |
| WC | Work Cards |
| WD | Wiring Diagram (Manual) (MIL-PRF-83495) |
| WP | Work Package (MIL-PRF-83495) |
| WUC | Work Unit Code |

APPENDIX B

DEVELOPING TO TITLES

B.1 GENERAL.

A TO title relates to the subject and content so users can recognize the applicability of the TO and tell the difference between TOs with similar applications. The TO title is used to determine the TO number Category and assign the last segment of the TO number. TCTO Series Headers use abbreviated titles containing only the Mission/Design/Series (MDS - e.g., —MODEL B-52 SERIES H) or Type/ Model/ Series (TMS - e.g., —TYPE AN/ARN131) of the systems or equipment covered. The TO Manager will enter the specific titles of individual TCTOs when requesting TCTO number assignment. When a commercial manual does not include a complete title, prepare an Identifying Technical Publication Sheet (ITPS) according to MIL-HDBK-1221, Evaluation of Commercial Off-The-Shelf (COTS) Manuals, identifying the complete, accurate TO title and any supplemental data provided.

B.2 RULES.

B.2.1 Standard Manuals. Do not enter "TECHNICAL MANUAL" as part of the TO title (included automatically by MIL-STD-38784).

B.2.2 Preliminary Manuals. Do not enter the word "PRELIMINARY" for the same reason. Preliminary status is shown by setting ETIMS "flags" during indexing.

B.2.3 Supplemental Manuals. Identify supplemental manuals in the first line of the title. Separate from the rest of the title by a space, two dashes, and a space. **Example:** SUPPLEMENTAL MANUAL.

B.2.4 TO Type. In the next part of the TO title, list the type of TO (e.g., maintenance instructions, flight manual, illustrated parts breakdown (IPB), etc.) to tell what kind of technical data is included in the TO and determine the "Group (segment) Three" (TO type) portion of the TO number. Separate the type of TO or medium from the rest of the TO title by using a space, two dashes, then a space. **Exception:** MIL-PRF-83495 TOs will be listed as shown in paragraph B.2.8, below.

B.2.4.1 Use only the types of TOs or media listed in TO 00-5-18.

B.2.4.2 Abbreviations may be used (OPR = Operation; INSTR = Instructions; MAINT = Maintenance; INTMD = Intermediate; INSP = Inspection; etc.), but must be easily translatable.

B.2.4.3 Include "INSTR" in the title of any instructional TOs. Examples:

- FLIGHT MANUAL
- OPR INSTR
- MAINT INSTR
- JOB GUIDE
- CHECKLIST
- INTMD INSTR
- INSP REQUIREMENTS

B.2.4.4 If the TO consists of a combination of types, the types are listed in the order listed in TO 00-5-18 (e.g., operating instructions (-1) first, maintenance instructions (- 2) next and parts list (PL) or IPB (-4) following).

- **Examples:**

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- OPR AND SVC INSTR
- MAINT INSTRU WITH IPB
- OVHL INSTR WITH IPB
- OPN AND SVC INSTR WITH PL

B.2.5 Level of Maintenance. The next part of the title identifies the intended level of maintenance if the TO is restricted for use at a specified level. (Note that "INTMD INSTR" as used in paragraph B.2.4.3 above is not restricted to use at the intermediate level.) Separate the intended level of maintenance from the rest of the title by using a comma and one space. *Examples:*

- MAINT INSTRU - DEPOT
- ASSEMBLY, CHECKOUT, AND MAINT INSTRU - ORG AND INTMD
- CHECKLIST - MAINT INSTR, ORG (FLT LINE)
- MAINT INSTR WITH IPB - INTMD

B.2.6 MIL-PRF-83495. For MIL-PRF-83495 organizational maintenance manuals, the type of TO or medium and the intended level of maintenance may be combined, followed by the function. Separate the type of TO and the level of maintenance from the function with a space, two dashes, and a space. Separate the function from the main part of the TO title by using a comma and a space. *Examples:*

- ORG MAINT - JOB GUIDE
- ORG MAINT - FAULT REPORTING
- ORG MAINT - GENERAL SYSTEM

B.2.7 Subject or Equipment. Enter the subject or the equipment identification in the main part of the title. List the subject of the TO, or name of the equipment and the type, series, model and part number, in that order, when these elements apply. The NSN may be shown if required. Enter the manufacturer name in parentheses following the equipment number. Do not split a type, series, model or part number between two lines. The words type, series, model or part number are not considered part of the number. *Examples:*

- IPB - HOT AIR SHUTOFF VALVE, MODEL CV-2S3.5, PN 105150-2 (STRATOS)
- OVHL INSTR WITH IPB - POWER SUPPLY, TYPE ECU-45/A, PN 28VS1006 (WAGNER)

B.2.8 Classification. List the TO title classification in parentheses following the main part of the title for classified TOs. *Examples:*

- MAINT INSTR - INTMD, COUNTER-MEASURES RECEIVER
- TYPE R-1854/ALR-46(V), PN 31-032491-02 (ITEK) (TITLE UNCL)

NOTE

The classification of the TO and title is entered into ETIMS during the indexing process, and will appear as a "U," "C" or "S" in the TO detail screen of the TO catalog. The Department of Energy classifications for nuclear weapons technical data classified as "Restricted Data" and "Formerly Restricted Data" are not currently supported in ETIMS, and must be made part of the TO title when applicable.

B.2.9 Sectionalized Manual. When a proposed TO meets the criteria for a sectionalized manual (that is, it is sufficiently large and has natural divisions in tasks or equipment breakout which make several smaller manuals more usable and more manageable), each section must be numbered and indexed individually. A separate ETIMS "Manage TM Numbering; Assign

a Publication Number" request must be submitted for each section. Each submittal lists the individual title and the relationship of each section to the group is set using the "Manage TM Index; Update an Index Entry" process, "Options; Update Index Data; Publication Association" function. The following examples show TO titles for a group of four sections, all having the same basic TO number. **Examples:**

- IPB - RECEIVER GP, TYPE OA-2504/ALD-5 (RAYTHEON)
- IPB - SIGNAL ANALYSIS, PROGRAMMER GP, TYPE OA-2505/ALD-5 (RAYTHEON)
- IPB - INDICATOR RECORDER GP, TYPE OA-2506/ALD-5 (RAYTHEON)
- IPB - ANTENNA GP, TYPE OA-2507/ALD-5 (SYLVANIA)

B.2.10 Reference Manuals. Various terms are used to describe the test procedures or operator manuals and the reference manuals which describe software-related instructions for embedded computers. These "dash eight" (-8) manuals contain documentation on how to use software programs identified in the CPIN System to check out, test or maintain computer hardware. The initiator ensures the title always identifies the specific function of the software documentation. **Examples:**

- CHECKOUT TAPE MANUAL - INDICATOR PANEL, TYPE RU-118, RADAR BOMB DIRECTING CENTRAL TYPE AN/TSQ-96 (REEVES)
- TEST PROCEDURES MANUAL - CONTROL INTERCOMMUNICATIONS SET, C-9655/A, PN 3397101 (HUGHES)

B.2.11 Special Notations. List any special notations in parentheses, such as (FORMERLY TO 12R2-4-171-2), or (THIS MANUAL INCOMPLETE WITHOUT TO 31M-2TMQ15-2), or (SA-ALC USE ONLY), or (USED WITH TO 36A11-21-2). Only notations of a permanent nature about the TO itself are listed here. See "4" below for other catalog notes. Identify commercial manuals with an entry in parentheses at the end of the title. **Example:**

- OPR INSTR - DODGE TRUCKS, MEDIUM AND HEAVY DUTY (COMMERCIAL MANUAL)

B.2.12 Contractor Data. Identify contractor data, as follows. **Example:**

- CONTRACTOR ACCEPTANCE REQUIREMENTS DOCUMENT AR30873-702

B.3 SYSTEM APPLICATION.

System application data is required both as part of the TO title and in the TO record in the ETIMS Pub Index. The data are used to provide Lists of Applicable Publications (LOAPs) and to update USAF TO Catalog TO number to Equipment number cross-reference data. The LOAPs provide an aid for selection of or familiarization with TOs for a specific system and determination of TO file requirements. The Catalog cross-reference provides the capability to determine TO coverage for a specific piece of equipment, and helps to prevent acquiring duplicate tech data between services. The capability to withdraw data by system application requires consistent adherence to the rules below.

B.3.1 Prime System Application. Using the "Manage TM Numbering; Assign a Publication Number" process, enter only applications to prime aircraft, missiles, space launch vehicles, C-E systems, and engines listed in the D086, *Mission Workload Assignments System* into the "Request Air Force Pub Number" screen, in the "Weapon System Application" field.

B.3.2 Equipment Information. In order to provide a record of application and cross-reference to equipment and commodities, enter the applicable equipment TMS, part number, etc., using the ETIMS "Perform Acquisition; Update Equipment Data" process to associate TO numbers with Equipment part numbers.

B.3.3 TCTO Series Header. Leave system application data blank when establishing a TCTO series and for General and MPTOs. Enter the data when individual TCTOs are indexed.

B.3.4 System Information. Enter system, equipment or commodity numbers as part of the TO title, as follows:

B.3.4.1 Enter the appropriate system (that is, "B-52A," "F-15A" etc.) Do not split an application title entry between title lines such as "KC" one line and "135" on the next line.

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B.3.4.2 The applicable aircraft or missile series designation must be included (DOD 4120.15-L). When entering applications of several series in the same system, include the complete listing for each series. Use a comma between applications in the same series. **Example:** Use "F-111A, F-111B, F-111D," not "F-111A, B, D." For a TO applicable to B52G and H, enter "B-52G, B-52H."

B.3.4.3 Use an asterisk (*) between systems. **Examples:** "B-52A, B-52D*KC-135A*F-102A."

B.3.4.4 When a modified mission is designated, it is considered a separate system for application entry. **Example:** Use "F15A*TF-15A," not "F/TF-15A" nor "F-15A, TF1A."

B.3.4.5 Include covered equipment and commodity TMS/part number/contractor number information as part of each applicable TO title. **Examples:** Use "MA-1A," "MD-3," "PN 324576-4," "Lockheed 458632-15."

APPENDIX C

TYPES OF TECHNICAL ORDERS

C.1 IDENTIFYING TYPES OF TECHNICAL ORDERS.

The following is a list of types of TOs.

- 01 List of Applicable Publications (LOAP)
- 06 Work Unit Code Manual
- 1 Operation Manual or Instruction Manual
 - Flight Manual (Category 1)
 - Erection Manual (Category 35)
 - Receiving at Site (Category 35)
 - Use and Storage (Category 35)
 - Aerial Delivery of Supplies & Equipment (Category 13)
 - Systems Manual
 - Shop Manual (Category 38)
 - Diagnostic Manual
 - Handling (Category 11)
 - Packaging
 - Lube Order -1LC-1
- 2 Service/Maintenance/Checkout Servicing Sheet (Except Category 2) (Organizational Maintenance)
 - Calibration & Measurement Summary (All Categories except 1, 2, or 21)
 - Shop Manuals (Category 36)
 - Winterization Equipment (Category 36)
 - Assembly, Service, or Maintenance Instruction (Category 21)
 - Assembly & Test Procedures (Category 31 {31S9})
 - Maintenance Dependency Charts (Category 31 {31S9})
 - Facility Manual (Category 31Z3)
 - Wiring Diagrams (Category 01)
 - Calibration Procedures
 - Trouble Shooting & Repair Manual
- 3 Overhaul Instruction, Circuit Diagrams or Work Specifications
 - Structural Repair (Category 1, 21, or 22)
 - Block Diagrams
 - Repair Instruction
 - Depot Maintenance
- 4 IPB/Parts Catalog
 - Parts Breakdown
 - All Turn Around Procedures
- 5 Overhaul Changes (Category 2)
 - Calibration & Measurement Summary (Category 2)
 - DCSC Tech Maintenance Standards
 - Command Manual (Category 31)
 - Basic Weight Checklist and Loading Data (Category 1)
 - Weight & Balance Manual (Category 21 or 22)
 - Engineering Standards
 - Aircraft Loading & Checkout Procedures (Category 31 {31S9})
 - Primary Standards (Category 33)

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- 6 Inspection Requirements (Except Category 2)
Field Maintenance Instruction (Category 2)
- 7 Installation Instructions
Directory Manual (Category 31)
Test and/or Programming Procedures
Winterization Instructions (Category 1)
Test and/or Checkout Procedures (Category 21)
Storage Procedures (Category 11)
- 8 Checkout Manuals, Checkout and/or Programmed Test (Program Manual)
Configuration Guide
Exterior/Interior Aircraft Markings (Category 1)
Performance Test Cards
Reference Guide or Reference Manual
Test Procedure
User's Manual
- 9 Alignment Instructions
Corrosion Control (Category 10)
Non-Destruction Inspection Manual (Category 2)
Cargo Loading (Category 1)
Disposal Manual (Category 11)
Aircraft Structural Integrity Program (Category 1)
- 10 Power Package Buildup Instruction (Category 1)
Engine Buildup Instruction (Category 21)
GEEIA Installation Standards (Category 31)
- 16 Warhead Loading (Category 21)
- 17 Storage of Missile (Category 21)
Storage of Aerospace Vehicles (Category 22)
- 18 Field Maintenance - Material (Category 21, 22)
- 21 Missile Inventory Record Mater Guide (Category 21)
- 22 Control Manual (Category 21)
- 23 Corrosion Control (Category 21)
- 26 Non-Destructive Inspection Manual (Category 21)
- 27 Calibration and Measurement Manual (Category 2)