

TO 00-5-18

TECHNICAL MANUAL

METHODS & PROCEDURES

AF TECHNICAL ORDER NUMBERING SYSTEM

(ATOS)

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CHAPTER 1

INTRODUCTION

1.1 PURPOSE AND SCOPE.

1.1.1 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.

1.1.2 Chapter 43 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 bold print. 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 Joint Computer-aided Acquisition and Logistics Support (JCALS) System Publication Index and the TO Catalog.

1.1.3 Recommendations or suggestions concerning this document should be submitted by Air Force Technical Order (AFTO) Form 22, Technical Manual (TM) Change Recommendation and Reply, or the JCALS Recommend a TM Change process to 558 CBSS/GBHCA, 7851 Arnold St Ste 201, Tinker AFB OK 73145-9147, e-mail: *reqacct@tinker.af.mil*.

1.2 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.

1.3 RESPONSIBILITIES.

1.3.1 TOs are published under the authority of the Secretary of the Air Force according to AFD 21-3.

1.3.2 The Air Force Materiel Command (AFMC) is responsible to Headquarters, U.S. Air Force (HQ USAF)/A4MM, for staff surveillance over TO System operations and development of system policies and procedures.

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

1.3.2.2 The Sustainment Engineering & Technical Data Operations/Policy Branch, Technical Order Policy & Procedures Section, HQ AFMC/A4YE, is responsible for developing and coordinating AF and AFMC TO System practices and procedures.

1.3.2.3 Policies and procedures for requesting TO numbers are contained in AFI 21-303, Technical Orders, and in TO 00-5-3, AF Technical Order Life Cycle Management.

1.3.3 The Oklahoma City Air Logistics Center (OC-ALC) USAF Technical Order Systems Section, 558 Combat Sustainment Squadron (CBSS)/GBHCA, is responsible for developing TO numbering procedures, assigning TO numbers (TO 00-5-3, AFMCI 21-301 and the JCALS Desktop Instructions [DI]). A description of special catalogues for specified TO categories is provided in paragraphs 1.4.7 and 1.4.8.

1.3.4 Requests for deviations from established TO numbering procedures, including proposals for new TO numbering patterns, must be coordinated through 558 CBSS/GBHCA. 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 GBHCA 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 HQ AFMC/A4YE for review and resolution.

1.4 GENERAL.

1.4.1 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

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assignment. Only 558 CBSS/GBHCA is authorized to approve and assign TO numbers for most TOs. Exceptions include nuclear weapons (NW) TOs (assigned by 708th Nuclear Systems Squadron (708 NSS)), Explosive Ordnance Disposal (EOD) TOs (assigned by Detachment (Det) 63, 688th Armament Systems Squadron (688 ARSS)); and category 33K Calibration TOs (assigned by Air Force Metrology and Calibration (AFMETCAL), 562 Combat Sustainment Group (CBSG/GBHA)). Publications not authorized by TO 00-5-1, *AF Technical Order System*, will not be numbered in the TO system without prior approval by HQ AFMC/A4YE.

1.4.2 TO Managers complete the TO Numbering Request Screens in JCALS for each formal or preliminary TO (PTO), and submit them to 558 CBSS/GBHCA for TO number approval. Contractors and TO Managers not on-line with JCALS may continue to use the AFTO Forms 203, *TO Numbering, Indexing and Control Record*. Instructions on completing the JCALS screens are in the JCALS DI. Procedures for completing and submitting the forms are in TO 00-5-3. The screens and form are the primary sources for establishing a record in JCALS.

NOTE

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

1.4.3 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, 558 CBSS/GBHCA and HQ AFMC/A4YE provide guidance for TO Managers and develop, coordinate and implement new numbering patterns as required.

1.4.4 Numbers are assigned to group TOs according to the systems and equipment they cover (paragraph 1.6.2), 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.

1.4.5 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 1.27).

1.4.6 TO categories are not numbered in a consecutive sequence. Currently, 42 categories are identified between Category 0 and Category 60 (paragraph 1.6.2). 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.

1.4.7 The number 71 is reserved for indexes applicable to the Security Assistance TO Program (SATOP); e.g., TO 0-1-71 is the index listing "M"-symbol ("Rescinded for AF, Retained for SAP") and "XX" (authorized to multiple countries) Country Standard TOs (CSTOs). Other Country-specific SATOP indexes are numbered using the two-letter country symbol as a prefix.

1.4.8 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 is updated weekly on the Internet (limited to "*.mil" access) and quarterly on CD-ROM (TO 0-1-CD-1). It includes all active TOs in Categories 0 through 51, except for 11N (nuclear weapons). A special, releasable "XX" version of the Air Force TO Catalog is provided for FMS/SAP customers. Other special indexes and responsibilities are as follows:

1.4.8.1 The Nuclear Weapons Product Support Center Technical Support Flight, 708 NSS, Kirtland AFB NM, is responsible for numbering, indexing and distributing Nuclear Weapons TOs. These TOs are in indexes TO 0-1-11N and TO 0-1-11N-C.

1.4.8.2 708 NSS also numbers and indexes Nuclear Weapons EOD (NW-EOD) TOs. These TOs are indexed in TO 0-1-11N.

1.4.8.3 The AF EOD Liaison Office, Det 63, 688 ARSS, Naval EOD Technology Division, Indian Head Maryland, numbers and indexes Non-Nuclear EOD (EOD) (Category 60) TOs on CD-ROM as part of the Automated EOD Publications System (AEODPS), published quarterly.

1.4.8.4 The FMS TO System Section, 558 Combat Sustainment Squadron (CBSS)/GBHCC, 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.

1.4.9 A close working relationship is needed between TO numbering specialists in 558 CBSS/GBHCA 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 JCALS entry screens or on AFTO Forms 203. 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.

1.4.10 In addition to correctly completing JCALS screens and AFTO Forms 203, 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. TO numbering specialists rely heavily on the technical competence of TO managers and associated activities located at each ALC and Product Center.

1.5 JOINT COMPUTER-AIDED ACQUISITION AND LOGISTICS SUPPORT (JCALS) AND ENHANCED TECHNICAL INFORMATION MANAGEMENT SYSTEM (ETIMS).

1.5.1 The JCALS is the Air Force TO management system of record. It is currently deployed at HQ AFMC, the ALCs and Product Centers. It will eventually be replaced by ETIMS to provide direct on-line connectivity from every base into the management system to allow TO ordering, submission of improvements, TO account status, and even on-line distribution of digital TOs to the base. JCALS (and eventually ETIMS) will enable TO Managers to establish records on each TO, assign TO numbers (with GBMUUB approval), manage TO acquisition/sustainment/stock/store/issue/distribution and input TO data into the JCALS/ETIMS Publication Index.

1.5.2 In addition to the standard TO number system described below, JCALS/ETIMS will also assign "Publication Stock Numbers (PSNs)" to each TO and TO increment as they are indexed. See paragraph 1.28 for a guide to interpreting TO PSNs.

1.6 TECHNICAL ORDER NUMBERING THEORY.

1.6.1 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.

1.6.2 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 |

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| | |
|----|--|
| 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 |

1.6.3 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.

1.6.4 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.

1.6.5 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 AAAANNAAA |
| 2 | 6 | 21 | NNNNNAAAAAANNNNNAAAANA or AAAAANNNNN-NAAAAANNNNAN |
| 3 | 3 | 10 | NNNNNAAANN or AAAAANNNAA |
| 4 | 3 | 11 | NNNNNAAAANN or AAAAANNNNAA |
| 5 | 3 | 7 | NNNAAAN or AAANNNA |
| 6 | 2 | 5 | NNNAA or AAANN |
| 7 | 1 | 2 | AA or NN |

1.6.6 The five major elements of information considered most essential in assigning TO numbers are discussed below:

1.6.6.1 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. EXAMPLES:

1.6.6.1.1 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

1.6.6.1.2 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

1.6.6.2 Descriptive Nomenclature. The nomenclature provided on the JCALS Screens or AFTO Forms 203 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 1.23)
ARN JETDS Nomenclature that indicates: A - Airborne; R - Radio; N - Navigation
24 Radio Model 24
2 Maintenance Manual

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1.6.6.3 Functional System. The functional system furnished on the JCALS screens or AFTO Form 203 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.

1.6.6.4 Part Number. A TO number will not normally be assigned to equipment without a part number, model number or other identifier. Most equipment will have a part number which is included in the TO title. If the equipment is not already listed in the JCALS database, it must be entered by the Equipment Specialist (ES) or Item Manager (IM) using JCALS "Perform Acquisition" type screens. If the ES or IM does not have access to JCALS, the data may be submitted to the TO Manager on an AFTO Form 204, *TO Numbering, Indexing and Control Record (Continuation)*, for entry into the system. 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 JCALS for the TO-Equipment number Cross-Reference section of the TO catalog.

1.6.6.5 Joint Electronics Type Designation System (JETDS - paragraph 1.23) Nomenclature. 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.

1.7 TECHNICAL ORDER NUMBERING PROCEDURES.

TO Managers requesting TO number assignment submit JCALS "Manage TM Numbering/Assign a TM Number" screens or AFTO Forms 203 according to procedures provided in the JCALS DI or 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.

1.7.1 Compare the Federal Stock Class (FSC), Material Management Aggregate Code (MMAC), and D086, *Mission Workload Assignments System*, to determine if the requesting ALC or PC is responsible for the indicated FSC or MMAC. Go to <https://www.msg.wpafb.af.mil/do86/> to view D086 information. Review the title of the FSC to help determine the appropriate TO Category.

1.7.2 Using the FSC and equipment nomenclature, determine the appropriate TO category, equipment series and sub-series. For numbering General TOs, see paragraph 1.22.

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

1.8 IDENTIFYING TYPES OF TECHNICAL ORDERS.

1.8.1 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. 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.

1.8.2 The type of TO is identified in the last basic group of the TO number. 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.

1.9 NUMBERING RELATED TECHNICAL ORDERS.

1.9.1 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 |
| -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
- 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 1.16 for numbering abbreviated TOs and to paragraph 1.18 for numbering TCTOs.

1.9.2 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 |

1.9.3 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.

1.9.4 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).

1.9.5 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.

1.9.6 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 1.14.

1.10 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 1.9 and the appropriate section for the category involved. Section numbers may be assigned according to paragraph 1.14, if appropriate.

TO 00-5-18**1.11 NUMBERING MAINTENANCE DEPENDENCY CHARTS.**

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

1.12 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.

1.13 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 1.26 specifies number suffixes to use if there are multiple TO versions published (e.g., the database and discrete TOs).

1.14 NUMBERING 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 section. 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 sectionalized TOs. Sectionalized documents normally relate to the same system or equipment and are the same type of TO. Different types of TOs will not be sectionalized together in the same serial number sequence. 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 section number of a sectionalized TO as in the following examples:

12P3-2ALQ101-32-1

32 Maintenance Manual (Last Basic Group of TO Number)
1 First Section of a Sectionalized Maintenance Manual

12P6-4-14-3-4

3 Overhaul Instructions Manual (Last Basic Group of TO Number)
4 Fourth Section of a Sectionalized Overhaul Instructions Manual

12P3-2ASR5-4-2

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

1.15 NUMBERING TECHNICAL ORDER SUPPLEMENTS, CHANGES, AND PAGE SUPPLEMENTS.**NOTE**

See TO 00-5-1 for restrictions on the use of various types of supplements.

1.15.1 Supplements. TO supplements are issued to augment or change data in the basic TO. Data in the supplement will normally be incorporated into the basic TO when the next change is issued. TO supplement numbers are assigned by the TO Managers according to established TO policy.

1.15.1.1 A routine supplement is identified by adding one or two alpha characters to the last group of the TO number; e.g., 12P3-2ALA7-3C. Unclassified routine supplements will be numbered using the alpha characters C through Z when only one alpha character is required and assigned, or the characters CC through CZ progressing to DC through DZ and so forth to ZZ when two alpha characters are required.

1.15.1.1.1 The alpha characters I and O are also not used, to prevent confusion with the numeric characters 1 and 0.

1.15.1.1.2 The alpha characters A and B, AA through AZ, and BA through BZ designate classified supplements.

NOTE

A classified, routine TO supplement will not be issued if its classification would be higher than that of the basic TO. Rather, the classified supplementing material will be issued and numbered as a supplemental manual (paragraph 1.17). This procedure is necessary to overcome special problems encountered in establishing user requirements and distributing classified TOs.

1.15.1.2 An operational supplement (ops) is identified by adding an alpha S to the last group of the TO or Flight Manual Program (FMP) Publication number. A safety supplement is identified by adding an alpha SS to the last group of the TO/Flight Manual number. A single block of sequential numbers is used to assign both operational and safety supplement numbers.

| | | |
|-----------|----------------|---------------------|
| Examples: | 1B-52G-1-1SS-1 | 1B-52G-2-34JG-1S-1 |
| | 1B-52G-1-1S-2 | 1B-52G-2-34JG-1SS-2 |
| | 1B-52G-1-1SS-3 | etc. |

1.15.1.2.1 For flight manuals (AFI 11-215), the sequence number of a safety or operational supplement is used only one time for the life of the manual. JCALS will issue supplement sequence numbers starting over with “1” after an FMP manual revision - The JCALS Incident Reporting & Tracking System (IRTS) process must be used to change the sequence number to continue from the previous series. Do NOT use the JCALS “Manage TM Numbering; Renumber a TM” process, as this would change the sequence number of the first supplement legitimately numbered “1” as well as the new supplement.

1.15.1.2.2 For other TOs, supplement sequence numbers will restart with “1” after the basic manual is revised.

1.15.1.2.3 When a supplement is replaced or superseded by another supplement, use a new supplement number.

1.15.2 Technical Order Page Supplements (TOPS). A TOPS is identified by adding the suffix “TP” to the last group of the TO number and adding a sequence number (-1, -2, -3, etc.); e.g., 00-5-189TP-1 for the first TOPS to this manual. The sequence numbers for TOPS are handled the same as sequence numbers for ops and safety supplements.

1.15.3 Identifying Technical Publications Sheets (ITPS). An ITPS is issued to identify and/or supplement a commercial or contractor publication and will be numbered as a routine supplement (paragraph 1.15.1.2). An ITPS will not be issued solely to add the TO number and date, if these were assigned prior to distribution and can be stamped or written on the manual title page.

1.15.4 MAJCOM and Base Supplements. MAJCOM and Base TO supplements are standard publications, not TOs. They will be numbered using the MAJCOM or base identifier and supplement number, followed by the TO number without the “TO” prefix.

| | |
|-----------|----------------------------------|
| Examples: | ACC Supplement 1, 00-5-1 |
| | Tinker AFB Supplement 2, 00-5-18 |

1.15.5 Changes. Changes are assigned the same number as the basic TO, with a sequence number denoting the specific change. Change sequence numbers will restart with change 1 after each TO revision. TO changes are numbered 1 through 99, A01 through A99, B01 through B99, etc. The change designator appears at the bottom of the TO title page and on each changed page in the TO, but does not become part of the TO number.

TO 00-5-18**1.16 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-2-10CL1
31S5-2FYQ45-6WC-2

1.17 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.

1.18 NUMBERING TIME COMPLIANCE TECHNICAL ORDERS.

1.18.1 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.

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

NOTE

- 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.
- 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.

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

1.18.3 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.

Examples: 1F-111A [S] (Secret TCTOs)
16G1-148
21M-LGM30 [C] (Confidential TCTOs)

31P5-2MPN14

35A2-2-76

1.18.4 To establish a TCTO series header, the TO Manager submits a JCALS screen or AFTO Form 203 according to the DI or 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.

| | | |
|-----------|---------|--|
| 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 |

1.18.4.1 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.

1.18.4.2

| | | |
|-----------|-------|---|
| 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. |

1.18.5 TO Managers request individual TCTO numbers through JCALS, which automatically assigns the next consecutive serial number within the header series. For assignment of TCTO Data Codes, see TO 00-5-15, *AF Time Compliance Technical Order Process*.

NOTE

Do NOT use the data codes provided automatically by JCALS when a TCTO number is requested. Data codes must be unique across the Air Force. JCALS will assign duplicate numbers at different sites.

1.19 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.

1.20 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 JCALS "Manage TM Numbering; Renumber a TM" process after coordinating the new number with GBMUUB. (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.

TO 00-5-18**1.21 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 AFJI 21-301. 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.

1.21.1 [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.

1.21.2 The Army technical manual number should be shown in the numbering request, IAW TO 00-5-3.

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. |
| -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. |

1.22 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.

1.22.1 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 1.18.4.1) is also used for general TOs in these systems.

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

1.22.1.2 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.

1.22.1.3 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 |

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1.22.1.4 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 |

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

1.23.1 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*.

1.23.1.1 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.

1.23.1.2 A typical JETDS component number is RT-771/APN-167. The RT, in accordance with MIL-STD-196D 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.

1.23.1.3 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.)

1.23.1.4 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.

1.23.2 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) and general ground-use (indicated by the G following the diagonal in AN/GRC-30).
- 31W4-2-121 is applicable to both general utility installation (indicated by the U following the diagonal in SB-1203/UG) and water installation (indicated by the S following the diagonal in TT-23/SG).

1.23.3 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.

1.23.4 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.

1.23.5 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 (1st letter) | Type of Equipment (2nd letter) | Purpose (3rd letter) |
|--|---|--|
| A - Piloted aircraft B - Underwater mobile submarine D - Pilotless carrier F - Fixed Ground G - General Ground Use 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 | A - Invisible light, heat radiation C - Carrier D - Radiac E - Laser G - Telegraph or Teletype I - Interphone and public address J - Electromechanical or inertial wire covered K - Telemetering 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 | A - Auxiliary assembly ² B - Bombing C - Communications (receiving and transmitting) D - Direction finder reconnaissance and/or surveillance E - Ejection and/or release 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) |
| NOTES: | | |
| <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> | | |

1.24 COUNTRY STANDARD TECHNICAL ORDER NUMBERS.

1.24.1 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 558 CBSS/GBHCC, Tinker AFB OK, in the Security Assistance Technical Order

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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.

1.24.2 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.

1.24.3 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).”

1.24.4 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 1.17.

1.24.5 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.

1.24.6 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 |

1.25 OPERATION AND MAINTENANCE INSTRUCTIONS IN WORK PACKAGE FORMAT.

1.25.1 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.

1.25.2 Individual work packages will be numbered by the TO Manager using the following criteria:

1.25.2.1 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.

1.25.2.2 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).

1.25.2.3 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).

1.25.2.4 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).

1.25.2.5 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).

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

1.26 TECHNICAL ORDER MEDIA SUFFIX CODES.

1.26.1 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.

1.26.2 Media-type 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 media-type 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 (WWW or WAN) |
| DV | Digital Versatile Disk (DVD) |
| FD | Floppy Disk |
| MF | Microfiche |
| MT | Magnetic Tape |
| VT | Video Tape/Disk |

TO 00-5-18**NOTE**

Media-type 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 medium's number.

1.26.3 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:

1.26.3.1 If a TO or set of TOs (paragraph 1.27) 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).

1.26.3.2 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.

1.26.4 Examples:

- TO 1B-52G-4-1 is a paper IPB for the B52G and B52H 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-MT-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 1.13).

1.27 DISTRIBUTION MEDIA CONTAINING MULTIPLE TECHNICAL ORDERS.

Digital media containing multiple TOs will be numbered and indexed in the TO System to facilitate management and distribution. The number will be indicative of the contents of the disk, be formatted like a TCTO-series number (paragraph 1.18), and include a media-type suffix (paragraph 1.26). 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.

1.28 PUBLICATION STOCK NUMBER (PSN).

A PSN is a 15-character number created by the JCALS system to manage each TO and TO increment. The number is based on information entered by the TO manager when the TO or increment is indexed. The PSN consists of six parts, broken out as follows:

1.28.1 The first two digits indicate the TO Category (00, 01, 21, etc.).

1.28.2 The third character will always be a "T" for Air Force TOs.

1.28.3 The fourth through ninth digits are a number assigned by JCALS to the basic TO and each revision. Each revision will have a unique number which will be assigned to every increment applicable to that revision ("family").

1.28.4 The tenth character indicates whether the increment is a basic, revision, change or TCTO (0), or a supplement (S = Safety Supplement, P = Operational Supplement, T = TOPS, and C = Routine Supplement).

1.28.5 The eleventh through thirteenth digits indicate the change or supplement number of the increment. All zeroes indicate there are no changes or supplements.

1.28.6 The fourteenth and fifteenth characters are the media code for the increment (the 15th digit is not used when the 14th digit is a letter). Examples of these codes include but are not limited to:

| | |
|----------------------------------|---|
| 06 -- Paper | M -- Microfiche |
| 10 -- 3.5" Floppy Disk (1.44 Mb) | P -- Printed Copy (interim TOs distributed via message) |
| 11 -- Digital On-Line | R -- CD-ROM |
| D -- Digital Versatile Disk | V -- Video Cassette |

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

1.29.1 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).

1.29.1.1 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.

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

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

1.29.2 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 1.13). 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.

2.1.1 There is only one Air Force TO Catalog. The catalog incorporates the Equipment and TO Number Cross-Reference formerly provided in TO 0-4-6-2. A sanitized ("XX") version of the Catalog is made available to FMS/SAP customers. The nuclear weapon and CSTO indexes are also numbered in Category 0.

NOTE

Nonnuclear EOD TOs, Category 60, are indexed on the Automated EOD Publication System (AEODPS) CD-ROM.

2.1.2 The Air Force TO Catalog Application is available on two media. The CD-ROM version, TO 0-1-CD-1, is available to all US government and contractor TO Distribution Offices. The Internet version, located at URL:<https://www.toindex.s.wpafb.af.mil/>, is restricted to DoD users with "*.mil" domain and Common Access Card (CAC).

2.1.3 Both versions of the Catalog provide five main functions: "Search TO Catalog" (information on all active TOs); "New, Updated and Rescinded TOs" (changes since the last edition); "Search TCTOs"(all active and rescinded TCTO's); "Equipment to TO Cross-Reference" (search for applicable TOs by equipment part number); and "Digital TOs" (links to TOs available on-line). 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-CD-1 | USAF Technical Order Catalog Data; |
| 0-1-11N | Numerical Indexes to Joint Nuclear Weapons Publications |
| 0-1-11N-C | Numerical Indexes to Joint Nuclear Weapons Publications - AF Supplement |
| 0-1-71 | Consolidated Security Assistance Technical Order Index |

CHAPTER 3

CATEGORY 00 - METHODS AND PROCEDURES TECHNICAL ORDERS

3.1 GENERAL.

3.1.1 HQ AFMC/A4YE establishes responsibilities for preparing Category 00 Methods and Procedures TOs (MPTOs). When a TO Manager requests a new Category 00 TO number, 558 CBSS/GBHCA determines if A4YE coordination and approval have been obtained before assigning a TO number.

3.1.2 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.

3.1.3 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 sectionalizing, according to paragraph 1.14, 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 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 |

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

TO 00-5-18

00-25-113-C135

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

3.3.3 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 |
| 00-35 | 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 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 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 1.22.

4.1.3 TO data pertaining to more than one production series of a specific aircraft model is numbered as the earliest production series. A sectionalized 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 paragraphs 4.4 and 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 |
| 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 1.22), 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 |

NOTE

The NWC, 708th Nuclear Systems Squadron has responsibility for assigning Category 1 TO numbers when the group three, part one is -16 or -25 through -31 (paragraph 1.4.6.1).

| | |
|-------------|---|
| -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 |

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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 |
| 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 paragraphs 4.4 and 4.5).

4.3.1 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 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 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 Sectionalized 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 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 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 |

TO 00-5-18**4.3.7 Safety supplement to a sectionalized 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 |
| 2 | Identifies a Section 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.

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 | - | Reserved |
| 05 | - | Time Limits/Maintenance Checks |
| 06 | - | Dimensions and Areas |
| 07 | - | Lifting, Shoring, Recovery and Transporting |
| 08 | - | Leveling and Weighing |
| 09 | - | Towing and Taxiing |
| 10 | - | Parking and Mooring |
| 11 | - | Placards and Markings |
| 12 | - | Servicing |
| 13 | - | Equipment Storage |
| 14 | - | Aircraft Loading and Off-Loading |
| 15 | - | Support Equipment |
| 16 | - | Siting Installation |
| 17 | - | Preparation for Use and Shipment |
| 18 | - | Weapons Instrumentation |
| 19 | - | Training Equipment |

AIRFRAME SYSTEMS

| | | |
|----|---|---------------------------------------|
| 20 | - | Standard Practices - Airframe Systems |
| 21 | - | Air Conditioning |
| 22 | - | Auto Flight |
| 23 | - | Communications |
| 24 | - | Electrical Power |
| 25 | - | Equipment/Furnishings |

| | | |
|----|---|--|
| 26 | - | Fire Protection |
| 27 | - | Flight Controls |
| 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 |
| 49 | - | Airborne Auxiliary Power |

STRUCTURE

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

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 | - | Reserved |
| 69 | - | Reserved |

POWER PLANT

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| | | |
|---------------|---|-----------------------------|
| 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 |
| 81 | - | Turbines |
| 82 | - | Water Injection |
| 83 | - | Accessory Gearboxes |
| 84 | - | Propulsion Augmentation |
| 85 through 90 | - | Reserved |

MILITARY SYSTEMS

| | | |
|----|---|---|
| 91 | - | Charts/Diagrams |
| 92 | - | Electrical Power Multiplexing |
| 93 | - | Surveillance |
| 94 | - | Weapon System |
| 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 section of a sectionalized TO or identifying a supplemental manual (paragraph 4.5.).

4.4.5 Illustrated Parts Breakdown. ILLUSTRATED PARTS BREAKDOWN. When maintenance manuals are written to conform to MIL-PRF-83495, the related Illustrated Parts breakdown 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 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 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 Job guide manual for air-conditioning system applicable to F15A aircraft:

| | |
|--------------------|-----------------------|
| 1F-15A-2-21JG-61-2 | |
| 1 | Category 1 |
| F | Basic Mission Fighter |

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| | |
|----|--|
| 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 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 |
| 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 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 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 TO data pertaining to more than one type of engine is numbered in the category general series.

5.1.3 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.

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 |

TO 00-5-18**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. 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 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 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 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 Overhaul instructions with illustrated parts breakdown for lube oil pump assembly, PN 7453 on C124 aircraft:

| | |
|------------|------------------------------|
| 2JA6-2-2-3 | |
| 2 | Category 2 |
| J | Jet Engines |
| A | Associated Equipment |
| 6 | Power Plant Equipment Series |
| 2 | Pump Equipment Subseries |

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| | |
|---|---|
| 2 | Identifies PN 7453 |
| 3 | Number Reserved for Overhaul Instructions |

5.3.5 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 |

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| | |
|--------|-----------------------------------|
| 2RA6-4 | Solenoids |
| 2RA6-5 | Link Assemblies |
| 2RA7 | AUXILIARY POWER PLANTS |
| 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 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 TO data pertaining to more than one type of propeller assembly control is numbered in the category general series.

6.1.3 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. 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
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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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 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 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 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 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 |
| 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 |

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| | |
|-------|---------------------------------|
| 3R2-4 | Power Plant |
| 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 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 Technical data pertaining to more than one system is numbered in the category general series.

7.1.3 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.

7.2.3.1 The third group identifies the type of TO. 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 |

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- 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 A Maintenance manual pertaining to main wheels, brakes, and tires for C-12A aircraft (general series):

4-1-102
 4 Category 4
 1 General Series
 102 Maintenance Manual General Series Number

7.3.2 Overhaul instructions with illustrated parts breakdown for a multiple disc brake, PN 2-1179-2, on a C-5A aircraft:

4B1-2-1063
 4 Category 4
 B Brakes
 1 Brake Series
 2 Disc-Type Subseries
 1063 Overhaul Instruction Series and Number Assigned to PN 2-1179-2

7.3.3 Overhaul instructions with illustrated parts breakdown for master brake cylinder PN 12550 on H-43B aircraft:

4BA1-9-13
 4 Category 4
 B Brakes
 A Associated Equipment
 1 Cylinder Series
 9 Number Assigned to PN 12550
 13 Number Reserved for Overhaul Instructions

7.3.4 Overhaul instructions for a nose gear drag brace assembly, PN 65-1390-1 on a KC-135A aircraft:

4SA6-5-3
 4 Category 4
 S Struts
 A Associated Equipment
 6 Brace Assembly Series
 5 Number Assigned to PN 65-1390-1

3 Number Reserved for Overhaul Instructions

7.3.5 Overhaul instructions with illustrated parts breakdown for main wheel assembly, PN 151522-1, used on F-101B aircraft:

4W1-7-473

| | |
|-----|--|
| 4 | Category 4 |
| W | Wheels, Landing-Gear |
| 1 | Main Wheel Series |
| 7 | Type VII (Extra High Pressure) Subseries |
| 473 | Overhaul Instruction Series and Number Assigned to PN 151522-1 |

7.4 **CATEGORY 4 TO NUMBERING SERIES.**

| | |
|-------|---------------------------------|
| 4 | AIRCRAFT LANDING GEAR |
| 4A | LANDING GEARS |
| 4A1 | FLOAT |
| 4A2 | SKI |
| 4A3 | TRACK |
| 4A4 | WHEEL |
| 4A5 | FLOTATION |
| 4A6 | POSITIONER |
| 4AA | ASSOCIATED EQUIPMENT |
| 4AA1 | SKI |
| 4B | BRAKE SYSTEMS |
| 4B1 | BRAKES |
| 4B1-2 | Disc |
| 4B1-3 | Expander Tube |
| 4B1-4 | Segmented Rotor |
| 4B1-5 | Shoe |
| 4B1-6 | Solid Rotor |
| 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 |

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| | |
|-------|--|
| 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 |
| 4T2 | TUBES |
| 4W | WHEELS |
| 4W1 | MAIN |
| 4W1-2 | Type I (Smooth Contour) |
| 4W1-3 | Type II (High Pressure) |
| 4W1-4 | Type III (Low Pressure) |
| 4W1-5 | Type IV (Extra Low Pressure) |
| 4W1-6 | Type VI (Low Profile) |
| 4W1-7 | Type VII (Extra High Pressure) |
| 4W1-8 | Type VIII (Extra High Pressure) |
| 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 | Type I (Smooth Contour) |
| 4W3-3 | Type II (High Pressure) |
| 4W3-4 | Type III (Low Pressure) |
| 4W3-5 | Type IV (Extra Low Pressure) |
| 4W3-6 | Type VI (Low Profile) |
| 4W3-7 | Type VII (Extra High Pressure) |
| 4W3-8 | Type VIII (Extra High Pressure) |
| 4W4 | OUTRIGGER |
| 4W4-2 | Type VII (Extra High Pressure) |
| 4W5 | HELICOPTER |

CHAPTER 8

CATEGORY 5 - AIRBORNE INSTRUMENTS

8.1 GENERAL.

8.1.1 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.

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

8.1.3 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. 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

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

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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 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 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 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 |

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| | |
|--------|------------------------------------|
| 5A8-19 | Signal |
| 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 |

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|---------|-------------------------------|
| 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 |
| 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 | CIRCUITS |
| 5A25-2 | Differential |
| 5A26 | VALVES |
| 5A26-2 | Shutoff |
| 5A26-3 | Purge |
| 5A26-4 | Transfer |
| 5A26-5 | Check |

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| | |
|--------|------------------------------------|
| 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 |
| 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 |

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|--------|------------------------------------|
| 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 |
| 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 |
| 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 |

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| | |
|--------|--------------------------------|
| 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 |
| 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 |
| 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 |

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| | |
|--------|----------------------------|
| 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 |
| 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 |
| 5P1-3 | Servo |

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| | |
|--------|-------------------------------------|
| 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.

9.1.1 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.

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

9.1.3 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. 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

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

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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 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 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 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 |

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| 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 | Clycol, 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 |
| 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 |

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| | |
|--------|-------------------------------|
| 6R1-3 | Injection |
| 6R1-4 | Variable Venturi |
| 6R2 | FILTERS AND STRAINERS |
| 6R3 | INJECTION SYSTEMS |
| 6R4 | FUEL INJECTION |
| 6R5 | PUMPS, FUEL- AND WATER- |
| 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.

10.1.1 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.

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

10.1.3 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. 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
- SS - Safety Supplements
- WC - Workcards

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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 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 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 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.

11.1.1 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.

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

11.1.3 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. 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

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

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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 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 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 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 |
| 8A1-35 | 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 |
| 8A1-53 | Stabilizer |
| 8A1-54 | Launch Gear |
| 8A1-55 | Guidance |

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| | |
|--------|------------------------------------|
| 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 |

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| | |
|--------|--|
| 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 |
| 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 |

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|--------|--|
| 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 |
| 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 |

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| | |
|--------|---------------------------|
| 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 |

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| | |
|--------|---------------------------------------|
| 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 |
| 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 |

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|---------|---|
| 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 |

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| | |
|-------|------------------------|
| 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.

12.1.1 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.

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

12.1.3 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. 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
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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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 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 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 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 |

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| | |
|--------|-----------------------|
| 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 |
| 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.

13.1.1 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.

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

13.1.3 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. 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 |
| -9 | Corrosion Control |

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:

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- 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 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 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 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 |
| 10A7 | NIGHT PHOTO EQUIPMENT |
| 10A7-2 | Lamp Assembly |
| 10A7-3 | Photoflash Cartridge Ejector |

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| | |
|----------|--------------------------------------|
| 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 |
| 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 |

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| | |
|---------|------------------------------|
| 10E12-2 | Electrical |
| 10E13 | WASHERS |
| 10E14 | WRINGERS |
| 10E15 | MIXER-DISTRIBUTORS |
| 10E16 | CHOPPERS |
| 10E17 | EASELS |
| 10E18 | LIGHT ASSEMBLIES |
| 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 | TEMPLATE SETS, SLOTTED |
| 10H7 | RECTIFIERS |
| 10H8 | PROJECTORS |
| 10H9 | INTERPRETATION EQUIPMENT |
| 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.

14.1.1 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

Nuclear Weapons TO Numbers (subcategory 11N) are not described here. SA-ALC/NWDT is the only organization authorized to assign 11N series TO numbers (paragraph 1.4.6.1).

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

14.1.3 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. 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; 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 paragraphs 4.3.4 and 4.3.5.)

14.2.3 GROUP THREE.

14.2.3.1 If a TO number has only three basic groups, the third group identifies the type of TO. 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 |

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- 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 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 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 Overhaul instructions for a target position computer, PN 737511:

- 11F12-13-2-3
- 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 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 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
- 11A19 RIOT CONTROL AIDS
- 11A20 DEMOLITION MATERIAL AND DESTRUCTIVE DEVICES
- 11A21 DISPENSERS, FLARE
- 11A22 EXPLOSIVE DEVICES, TARGET DRONE, AND SPECIAL PURPOSE AIRCRAFT

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| | |
|---------|-------------------------------|
| 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 |
| 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 |

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| 11B12-21 | Doppler Radar |
| 11B12-22 | Time |
| 11B12-23 | Heading Reference |
| 11B12-24 | Bomb Mark |
| 11B12-25 | Terrain Radar |
| 11B12-26 | Selector |
| 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 |

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|----------|--------------------------|
| 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 |
| 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 |

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| 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 |
| 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 |

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|----------|----------------------------------|
| 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 |
| 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 |
| 11B69 | OPTICS GROUPS |
| 11B70 | DYNAMOTOR ASSEMBLIES |
| 11B71 | CAMERA SYSTEMS |
| 11B72 | REPEATERS |

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| 11B72-2 | Radio |
| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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|----------|-----------------------------|
| 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 |
| 11F12-16 | Launch |
| 11F12-17 | Toss Bomb (Use 11B10) |
| 11F12-18 | Roll Error |
| 11F12-19 | Jump Angle |
| 11F12-20 | Annunciator |
| 11F12-21 | Servo |

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|----------|--------------------------------|
| 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 | Thyratron |
| 11F14-5 | Altitude Differential |
| 11F14-6 | Missile |
| 11F15 | CONVERTERS AND GENERATORS |
| 11F15-2 | Frequency |
| 11F15-3 | Signal Data |
| 11F15-4 | Angle Data |
| 11F15-5 | Auto Gain Control, Waveform |

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|----------|-----------------------|
| 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 |

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| 11F30-11 | Induction |
| 11F30-12 | Range Function |
| 11F31 | MOUNTINGS AND MOUNTS |
| 11F32 | PANELS |
| 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 |

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|----------|--------------------------|
| 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 |
| 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 |

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| 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) |
| 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 |
| 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 |

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| | |
|---------|-------------------------------|
| 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 |
| 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 |
| 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 |

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| | |
|---------|--|
| 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 |
| 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 |
| 11P | EGRESS SYSTEMS, EXPLOSIVE DEVICES, AND EQUIPMENT |

| | |
|---------|--|
| 11P1 | CATAPULTS |
| 11P2 | EJECTORS |
| 11P3 | INITIATORS AND TIMERS |
| 11P3-2 | Delay |
| 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 |

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| | |
|----------|---------------------------------------|
| 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 | Expend 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 |
| 11WA3 | POWER UNIT |

CHAPTER 15

CATEGORY 12 - AIRBORNE ELECTRONIC EQUIPMENT

15.1 GENERAL.

15.1.1 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-196D.

15.1.2 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.

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

15.1.4 Information relating to more than one equipment series is numbered in the system general series.

15.1.5 General TOs for JETDS equipment are described in paragraph 1.23.

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. 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 |
| -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 |

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- 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 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 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 Operating and maintenance instructions with illustrated parts breakdown for electronic countermeasure 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 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 |

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| | |
|--------|--------------------------------------|
| 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 | JETDS 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 |
| 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.

16.1.1 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.

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

16.1.3 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. 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 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 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 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 |

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| | |
|---------|---------------------------------------|
| 13C7-2 | Truck |
| 13C7-3 | Trailer |
| 13C7-4 | Motor |
| 13C7-5 | Welding Set |
| 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 |
| 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 |

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13F14

SERVICING UNITS

CHAPTER 17

CATEGORY 14 - DECELERATION DEVICES, PERSONAL AND SURVIVAL EQUIPMENT

17.1 GENERAL.

17.1.1 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.

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

17.1.3 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. 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
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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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 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 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 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.

18.1.1 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.

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

18.1.3 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. 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 |

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:

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- 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 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 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 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 |

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| | |
|---------|-------------------------------|
| 15A9-2 | Air Turbine |
| 15A9-3 | Centrifugal |
| 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 |
| 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 |

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| | |
|----------|--------------------------------------|
| 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 |
| 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.

19.1.1 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.

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

19.1.3 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. 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
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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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 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 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 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 |

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| | |
|---------|---|
| 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 |

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| | |
|-------|------------------------|
| 16W40 | NOSE ASSEMBLIES |
| 16W41 | PODS |
| 16W42 | GLARESHIELD ASSEMBLIES |

CHAPTER 20

CATEGORY 21 - GUIDED MISSILES

20.1 GENERAL.

20.1.1 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.

20.1.2 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 |

20.1.3 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 |

20.1.4 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.

20.1.5 TOs for earlier guided missiles are numbered as described in paragraphs 20.2 and 20.3. TOs for the M-X and later guided missile systems are numbered as described in paragraphs 20.4 and 20.5.

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.

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 AFR 82-1:

TO 00-5-18**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. 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 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 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 |
| 6 | Number Reserved for Inspection Requirements |

TO 00-5-18**20.3.3 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.

20.4.1 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.

20.4.2 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.

20.4.3 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.

21.1.1 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.

21.1.2 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.

21.1.3 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.

21.1.4 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. 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 |

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 |

TO 00-5-18**21.3 EXAMPLES OF CATEGORY 22 NUMBERING PATTERNS.**

21.3.1 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 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.

22.1.1 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-196D.

22.1.2 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.

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

22.1.4 Information relating to more than one equipment series is numbered in the system general series.

22.1.5 General TOs for JETDS equipment are described in paragraph 1.23.

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.

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.

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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. 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 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 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 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 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 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.**

31 GROUND-ELECTRONIC EQUIPMENT
 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

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| | |
|--------|------------------------------------|
| 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 |
| 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 |
| 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 |

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| | |
|---------|---|
| 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 | Inserter |
| 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 |
| 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 |

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| | |
|---------|--|
| 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.

23.1.1 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.

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

23.1.3 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. 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

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.

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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 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 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 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 |

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| | |
|---------|--------------------------|
| 32A16 | SWAGERS |
| 32A17 | DETECTORS |
| 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.

24.1.1 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.

24.1.2 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.

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

24.1.4 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. 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
- 8 Test Procedures, Checkout Manuals, or Programmed Tests
- 9 Alignment Instructions

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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 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 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 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 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 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 | Stand |
| 33A2-3 | Gauge |
| 33A2-4 | Valve |
| 33A2-5 | Cylinder, Actuator |
| 33A3 | MECHANICAL |
| 33A3-2 | Analyzer |
| 33A3-3 | Cable Tensiometer |
| 33A3-4 | Torque Tester |

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| 33A3-5 | Regulator |
| 33A3-6 | Unit |
| 33A3-7 | Actuator, Screw Jack Assembly |
| 33A3-8 | Anti-Skid |
| 33A3-9 | 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 | 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 |
| 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 |

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| 33AA43 | CALIBRATION UNITS |
| 33AA44 | KEYBOARDS |
| 33AA45 | INDICATORS |
| 33AA46 | TELETYPEWRITERS |
| 33AA47 | FREQUENCY DIVIDERS |
| 33AA48 | STORAGE DISPLAY UNITS |
| 33AA49 | TRANSLATORS |
| 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 |

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|---------|---|
| 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 |
| 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 |

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| 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) |
| 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 |

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|---------|------------------------|
| 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 | Radaltator, Evaluators |
| 33D5-23 | Power Supply |
| 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 |

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| 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 |
| 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 |

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|---------|------------------------------------|
| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 33D9-61 | System Tester |
| 33D9-62 | Transponder |
| 33D9-63 | Acid System |
| 33D9-64 | Re-Entry Vehicle |
| 33D9-65 | Motor Generator |

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| 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 |
| 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 |

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| 33D10-11 | Spot Scanner |
| 33D10-12 | Amplifier |
| 33D10-13 | Control |
| 33D10-14 | Modulator, Demodulator |
| 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 |
| 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 |

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| | |
|--------|--|
| 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 |
| 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 FLOWSENSORS |
| 33DA98 | PROBES |
| 33DA99 | HORNS |
| 33DA100 | COUPLING ASSEMBLIES |
| 33DA101 | CLEANERS (Use 34Y2) |
| 33DA102 | COOLER UNITS |
| 33DA103 | CABLE ASSEMBLIES |
| 33DA104 | TERMINALS |
| 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 |
| 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 |

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AUTOMATIC TEST SYSTEMS

CHAPTER 25

CATEGORY 34 - SHOP MACHINERY AND SHOP SUPPORT EQUIPMENT

25.1 GENERAL.

25.1.1 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.

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

25.1.3 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. 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

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

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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 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 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 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 |
| 34G1-9 | Flaring |

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| | |
|---------|-------------------------------------|
| 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 |
| 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 |

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| | |
|---------|----------------------------|
| 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 |
| 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.

26.1.1 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.

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

26.1.3 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. 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 |
| -5 | DCSC Technical Maintenance Standards |
| -6 | Inspection Requirements |
| -7 | Installation Instructions and Installation Test Procedures |

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-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 paragraphs 1.9.2 through 1.9.6.

26.3 EXAMPLES OF CATEGORY 35 TO NUMBERING PATTERNS.

26.3.1 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 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 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 |

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| 35CA25 | TRANSDUCERS |
| 35CA26 | STABILIZERS |
| 35CA27 | OSCILLATORS |
| 35CA28 | ADAPTERS |
| 35CA29 | MONITORS |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| 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 |

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| 35F17 | FANS |
| 35F18 | ELECTRIC POWER TRANSFER CONTROLS |
| 35G | AIRCRAFT GROUND SUPPORT EQUIPMENT |
| 35G3 | SUPPORT ASSEMBLIES |
| 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 |
| 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 |

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| 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 |
| 35M14-9 | Relay |
| 35M15 | FILTERS AND STRAINERS |
| 35M15-2 | Hydraulic |

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| 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) |

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| 35M32 | TRANSMISSIONS |
| 35M33 | CONNECTORS |
| 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.

27.1.1 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.

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

27.1.3 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. 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

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:

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- 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 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 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 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 |
| 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 |

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| | |
|----------|---|
| 36A11-16 | Telephone Maintenance |
| 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 |
| 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 |

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| | |
|---------|--|
| 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 |
| 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 |
| 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 | ANGLED OZERS |
| 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 |

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| | |
|----------|-------------------------------|
| 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 |
| 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 |
| 36Y53 | BLOWERS |
| 36Y54 | SEPARATORS |
| 36Y55 | COMPRESSORS |
| 36Y56 | SHOCKS (Use 36Y29) |
| 36Y57 | LANDING JACKS |
| 36Y58 | AIR COMPRESSORS |
| 36Y59 | VEHICLE ONLOADING EQUIPMENT |
| 36Y60 | STEERING GEARS |
| 36Y61 | CARBURETORS |

CHAPTER 28

CATEGORY 37 - FUEL-, OIL- AND PROPELLANT-HANDLING EQUIPMENT

28.1 GENERAL.

28.1.1 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.

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

28.1.3 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. 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

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

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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 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 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 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 PIPE LINES |
| 37C4 | MISSILE PROPELLANT HOSE ASSEMBLIES |
| 37C5 | PUMPS |
| 37C6 | FILTERING UNITS |
| 37C7 | HEATERS |
| 37C8 | COMPRESSORS, PROPELLANT-TRANSFER |

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| | |
|---------|--------------------------------|
| 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.

29.1.1 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.

29.1.2 TO data pertaining to more than one system in this category is numbered in the category general series.

29.1.3 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. 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
- LC - Lubrication Charts
- S - Operational Supplements
- SS - Safety Supplements
- WC - Workcards

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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 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 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 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.

30.1.1 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.

30.1.2 TO data pertinent to more than one system in this category is numbered in the category general series.

30.1.3 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. 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 An operating and maintenance instruction for a mechanized landing craft, type LCM 8:

| | |
|----------|--|
| 39C-47-1 | |
| 39 | Category 39 |
| C | Cargo Boats |
| 47 | Represents Type LCM 8 |
| 1 | Number Reserved for Operating Instructions |

TO 00-5-18**30.3.2** 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 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.

31.1.1 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.

31.1.2 TO data pertaining to more than one system in this category is numbered in the category general series.

31.1.3 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. 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

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

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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 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 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 |
| 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.

32.1.1 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.

32.1.2 TO data pertaining to more than one system in this category is numbered in the category general series.

32.1.3 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. 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
- 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.

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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 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 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.

33.1.1 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.

33.1.2 TO data pertinent to more than one system in this category is numbered in the category general series.

33.1.3 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

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. 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

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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 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 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 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.

34.1.1 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.

34.1.2 TO data pertaining to more than one system in this category is numbered in the category general series.

34.1.3 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. 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 |
| -7 | Installation Instructions and Installation Test Procedures |
| -8 | Test Procedures, Checkout Manuals, or Programmed Tests |
| -9 | Alignment Manuals |

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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. 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 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 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 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.**NOTE**

During about 1960, eight TO numbers, using five groups in the numbering pattern, were assigned in the 43D7-13 series. This was contrary to the standard practice and constitutes an exception. In the event that new TO numbers are added to extend this series, the character “2” used as the fourth group in all above mentioned eight TO numbers should be eliminated. This will change the series pattern to the standard four-group format.

| | |
|-----------|--------------------------------|
| 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) |
| 43D3-2-8 | B-57 |
| 43D3-3 | Cargo |
| 43D3-3-2 | C-97 |
| 43D3-3-3 | C-119 |
| 43D3-3-4 | C-124 |
| 43D3-3-5 | C-130 |
| 43D3-3-6 | C-131 |
| 43D3-3-7 | C-121 |
| 43D3-3-8 | C-135 |
| 43D3-3-9 | C-118 |
| 43D3-3-10 | C-123 |
| 43D3-3-11 | C-133 |
| 43D3-3-12 | C-130B (Use 43D3-3-5) |
| 43D3-3-13 | C-130E (Use 43D3-3-5) |
| 43D3-3-14 | C-141 |
| 43D3-3-15 | C-5A |
| 43D3-4 | Fighter |
| 43D3-4-2 | F-84 |
| 43D3-4-3 | F-86 |

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| 43D3-4-4 | F-89 |
| 43D3-4-5 | F-100 |
| 43D3-4-6 | F-101 |
| 43D3-4-7 | F-102 |
| 43D3-4-8 | F-106A |
| 43D3-4-9 | F-105D |
| 43D3-4-10 | F-4 |
| 43D3-4-11 | F-111 |
| 43D3-4-12 | F-15 |
| 43D3-4-13 | F117A |
| 43D3-5 | Cockpit |
| 43D3-5-2 | F-84 |
| 43D3-5-3 | RB-66 |
| 43D3-5-4 | T-33 |
| 43D3-5-5 | F-104 |
| 43D3-5-6 | F-86 |
| 43D3-5-7 | F-100 |
| 43D3-5-8 | F-105 |
| 43D3-5-9 | T-29C |
| 43D3-5-10 | F-102 |
| 43D3-5-11 | A-7D |
| 43D3-5-12 | C-5 |
| 43D3-5-13 | C-130 |
| 43D3-5-14 | C-141 |
| 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 |
| 43D3-8-2 | A-7D |
| 43D3-8-3 | A-10A |
| 43D3-9 | Helicopter |
| 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 |

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|---------|--------------------------|
| 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 |

NOTE

During about 1960, eight TO numbers, using five groups in the numbering pattern, were assigned in the 43D7-13 series. This was contrary to the standard practice and constitutes an exception. In the event that new TO numbers are added to extend this series, the character "2" used as the fourth group in all above mentioned eight To numbers should be eliminated. This will change the series pattern to the standard four-group format.

| | |
|----------|--|
| 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 |
| 43D13-2 | A/E-37A-T2, -T3, -T4, -T5, -T7 |
| 43D13-3 | TAU Series |

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|---------|--------------------------------------|
| 43D13-4 | Operator (Do not use) |
| 43D13-5 | AF 37A-T18 (Use 43D2-6) |
| 43D14 | (Do not use) |
| 43D15 | (Do not use) |
| 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 |

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|----------|-----------------------------------|
| 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 |
| 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 |

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|----------|--|
| 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 |

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|------------|-----------------------------|
| 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 |
| 43E23-3-2 | F-5A |
| 43E23-3-3 | F-4 |
| 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 |
| 43E23-5-2 | B-52 |
| 43E24 | MOBILE TRAINERS |
| 43E24-2 | Cargo Aircraft |
| 43E24-2-2 | C-141 |
| 43E24-2-3 | C-135 |
| 43E24-2-4 | C-133 |
| 43E24-2-5 | EC-121 |
| 43E24-2-6 | C-123 |
| 43E24-2-7 | C-5A |
| 43E24-2-8 | C-10 |
| 43E24-2-9 | C-130 |
| 43E24-2-10 | C-17 |
| 43E24-3 | Fighter Aircraft |
| 43E24-3-2 | F-5 |
| 43E24-3-3 | F-105 |
| 43E24-3-4 | F-111 |
| 43E24-3-5 | F-4 |
| 43E24-3-6 | F-106 |
| 43E24-3-7 | F-100 |
| 43E24-3-8 | F-101/RF-101 |
| 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 |

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| 43E24-5-2 | B-52 |
| 43E24-5-4 | B-1B |
| 43E24-5-5 | B-2A |
| 43E24-6 | Attack Aircraft |
| 43E24-6-2 | A-7 |
| 43E24-6-3 | A-37 |
| 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 |
| 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 |

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| 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 |
| 43X20 | TRAINER ATTACHMENTS |
| 43X21 | MECHANISMS AND DRIVES, DISK DRIVES |
| 43X22 | STANDS |
| 43X23 | COMPRESSORS |
| 43X24 | CYLINDERS |
| 43X25 | ACTUATORS |

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| | |
|---------|--|
| 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.

35.1.1 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.

35.1.2 TO data pertaining to more than one system in this category is numbered in the category general series.

35.1.3 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. 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
- 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.

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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 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 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.

36.1.1 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.

36.1.2 TO data pertinent to more than one system in this category is numbered in the category general series.

36.1.3 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. 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

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

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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 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 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 |

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| | |
|-------|----------------|
| 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.

37.1.1 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.

37.1.2 TO data pertinent to more than one system in this category is numbered in the category general series.

37.1.3 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. 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

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

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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 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 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 | PANTOGRAPHS |
| 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 |

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| | |
|---------|--------------------------------|
| 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.

38.1.1 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.

38.1.2 TO data pertinent to more than one system in this category is numbered in the category general series.

38.1.3 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. 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 Breakdown
- 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

38.3 EXAMPLE OF CATEGORY 47 NUMBERING PATTERNS.

38.3.1 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 |

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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.

39.1.1 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.

39.1.2 TO data pertinent to more than one system in this category is numbered in the category general series.

39.1.3 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. 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

39.3 EXAMPLES OF CATEGORY 49 NUMBERING PATTERNS.

39.3.1 An operating instruction for a navigation watch, type AN5740:

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| | |
|----------|--|
| 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 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.

40.1.1 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.

40.1.2 TO data pertinent to more than one system in this category is numbered in the category general series.

40.1.3 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. 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
- 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.

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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 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 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.

41.1.1 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.

41.1.2 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.

41.1.3 TO data pertinent to more than one system in this category is numbered in the category general series.

41.1.4 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.

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. 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 |

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- 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 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 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 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 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 |
| 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 |

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| | |
|--------|---|
| 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 |
| 51V | VERSATILE AUTOMATIC TEST EQUIPMENT |

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| | |
|------|---------------------|
| 51V1 | GUIDANCE EQUIPMENT |
| 51V2 | ADAPTERS |
| 51V3 | ANALYZERS |
| 51V4 | CONVERTERS |
| 51V5 | FREQUENCY MEASURING |
| 51V6 | MULTIMETERS |
| 51V7 | POWER SUPPLIES |
| 51V8 | VOLTMETERS |

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

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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 |
| AFJI 16-401 | Designating and Naming Defense Military Aerospace Vehicles |
| AFPD 21-3 | Technical Orders |
| AFI 21-303 | Technical Orders |
| 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) |
| JCAL S DI | Desktop Instructions (https://afkm.wpafb.af.mil/ASPs/CoP/EntryCoP.asp?Filter=OO-SC-MS-04 , under "Bookshelf") |
| 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 | (https://www.toindex-s.wpafb.af.mil/) |

A.2 LIST OF REFERENCED AND RELATED FORMS.

| <u>Number*</u> | <u>Title</u> |
|----------------|--|
| AFTO 22 | Technical Manual (TM) Change Recommendation and Reply |
| AFTO 203 | TO Numbering, Indexing and Control Record |
| AFTO 204 | TO Numbering, Indexing and Control Record (Continuation) |
| DD 61 | Request for Nomenclature |

A.3 LIST OF ACRONYMS.

| | |
|----------|-----------------------------------|
| AAC | Air Armament Center |
| AEODPS | Automated EOD Publications System |
| AFMC | Air Force Materiel Command |
| AFMCI | AFMC Instruction |
| AFMETCAL | Air Force Metrology & Calibration |
| AFPD | Air Force Policy Directive |
| AFTO | Air Force Technical Order (forms) |
| ALC | Air Logistics Center |

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| 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 |
| DI | Desktop Instructions (JCALS) |
| 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 |
| JCALs | Joint Computer-aided Acquisition and Logistics Support |
| 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 |
| NAVEODTECHDIV | Naval EOD Technology Division |
| NSS | Nuclear Systems Squadron |
| NW | Nuclear Weapon |
| NWC | Nuclear Weapons Center |
| OC-ALC | Oklahoma City Air Logistics 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 |
| TOPS | TO Page Supplement |
| 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 |

