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## MILITARY SPECIFICATION

### MANUALS, TECHNICAL, ILLUSTRATED PARTS BREAKDOWN, PREPARATION OF

This limited coordination Military specification has been prepared by the Naval Air Systems Command based upon currently available technical information, but it has not been approved for promulgation as a coordinated revision of Military Specification MIL-M-8910. It is subject to modification. However, pending its promulgation as a coordinated Military specification, it may be used in procurement.

#### 1 SCOPE

1.1 This specification covers the requirements for the preparation of Illustrated Parts Breakdown technical manuals.

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

#### 2 APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of invitation for bids or request for proposal, form a part of the specification to the extent specified herein:

##### SPECIFICATIONS

###### Military

MIL-M-5474	Manuals, Technical, General Preparation of
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##### STANDARDS

###### Military

MIL-STD-12	Abbreviations for Use on Drawings and in Technical Type Publications.
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##### PUBLICATIONS

###### Military

###### Department of Defense

H4-1 and H4-2	Cataloging Handbook, Federal Supply Code for Manufacturers
DD-441 (Attachment)	Industrial Security Manual for Safeguarding Classified Information

#### 3 REQUIREMENTS

3.1 Manner and form of preparation.—The Illustrated Parts Breakdown shall be prepared in accordance with the format of figures 1 through 25, except as modified herein. It shall be prepared in the form (reproducible copy, negatives, printed copies, etc) specified in the contract. Except as specifically provided herein, the preparation of reproducible copy shall be in accordance with MIL-M-5474. Reproducible copy prepared by electric accounting machine (EAM) is acceptable provided such copy conforms to the applicable requirements of MIL-M-5474 for preparation, correction, mechanical assembly, and reproducibility. Large Illustrated Parts Breakdowns for major end articles, such as missiles or aircraft, may be prepared in a series of separate volumes, each covering a functional system or major component of the end article; for example: VOL 1 Numerical Index, VOL 2 Structure, VOL 3 Power Plant and Fuel System, VOL 4 Hydraulic and Pneumatic Power Systems, VOL 5 Electronic System, etc. The contractor shall submit a proposed volume organization to the procuring activity for approval before proceeding.

3.1.1 Changes and revisions.—Changes and revisions to the Illustrated Parts Breakdown shall be

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furnished as required by the contract, to reflect changes, additions, and deletions, including the effect of in-service equipment changes and modifications and the effect of changes in maintenance concepts. Changes and revisions shall be prepared in accordance with MIL-M-5474.

**3.1.2 Page and paragraph numbering.**—Paragraphs of the Introduction and all pages of the Illustrated Parts Breakdown shall be numbered in accordance with MIL-M-5474.

**3.2 Arrangement.**—The Illustrated Parts Breakdown shall be arranged in the following manner, as applicable:

Table of Contents

- Section I — Introduction
- Section II — Group Assembly Parts List
- Section III — Numerical Index
- Section IV — Reference Designation Index

**3.3 Table of Contents.**—The Table of Contents shall be double column, single spaced. When applicable, lists of illustrations and tables shall also use double column format. A Table of Contents is not required when the Group Assembly Parts List (text and illustrations) is 16 pages or less in length. The Table of Contents shall list:

- a. The first page number of the Introduction.
- b. The title and page number of each illustration in the Group Assembly Parts List.
  - (1) For articles containing many components and assemblies, illustration listings may be grouped. Such groupings shall be titled, and the titles of the illustrations within the groups shall be indented. If preferred, listings may be arranged without indention in alphabetical sequence by the principal noun of the title; page numbers, accordingly, will not be in sequence.
- c. The first page number of the Numerical Index.
- d. The first page number of the Reference Designation Index (when applicable).
- e. Appropriate Government type designators (in alpha-numerical sequence); for example, C1607/ARC52, MT1477/ARC52, RT332/

ARC52, followed by applicable nomenclature and Group Assembly parts list page number.

**NOTE:** This requirement is applicable only to electronic equipment manuals containing many components to which designators have been assigned. This type designator list shall form the last part of the Table of Contents.

**3.3.1 Multi-volume manuals.**—In multi-volume Illustrated Parts Breakdowns, each volume shall contain a Table of Contents for the volume. It shall include the applicable items specified in 3.3.

**3.4 Section I—Introduction.**—The Introduction to the Illustrated Parts Breakdown shall contain the following information:

- a. Explanation of the models, marks and modifications (MK and MOD), dash numbers, series, or blocks of the article covered by the Breakdown. When the Breakdown covers articles for more than one Service and each Service has its own type, model, and serial numbers, complete identifying information on the articles for each Service shall be included.
- b. A list of Government approved equipment service changes or technical directives, the parts information of which has been incorporated into the Illustrated Parts Breakdown.
- c. Explanation of the Usable On Codes employed in the Breakdown. It shall also be explained that the absence of a code in the Usable On Code column indicates that the parts so shown are usable as replacements on all models covered by the manual. Where both space saving and greater convenience for the user will result, Usable On Code explanations may be given at the bottom of applicable pages throughout the Breakdown instead of in a master code explanation in the Introduction.
- d. A statement indicating that definitions and explanation of source, recoverability/accountability and kit codes used in the numerical index of the manual are contained in BUWEPs INSTRUCTION 4423.2.
- e. A reference to Cataloging Handbook H4-1 and H4-2, Federal Supply Code for manufacturers, for names, addresses, and codes of all manufacturers supplying items or arti-

cles not carried under the prime contractor's part numbers.

- f. Explanation of all symbols and abbreviations used in the various sections of the Breakdown.
- g. In Illustrated Parts Breakdowns in which the Group Assembly Parts List consists of more than 16 pages, an explanation of all cross-index systems employed, including an illustration showing (figures 1 and 2).
  - (1) how to find the part number or description by use of the Table of Contents and illustration.
  - (2) how to find the illustration or description of an item when its part number or reference designation is known.

- h. When spares and/or repair parts for the article or for any repairable units within the article are to be supplied in the form of kits, an explanation shall be given of the fact that kits are listed, similar to the following:

"This manual reflects the listing of repair parts kits. Certain replacement parts are stocked only in kits. Standard parts and parts having multi-application are stocked in their appropriate classes and may also be stocked in kits. Kit parts should not be ordered from separate stock to make up a kit." (Refer to 3.5.1.5.3.)

**3.4.1 Multi-volume manuals.**—In multi-volume Illustrated Parts Breakdowns, only the first volume, Numerical Index (Numerical and Reference Designation Index, if applicable) shall contain an Introduction. This shall be a complete introduction for all volumes. The Tables of Contents for all other volumes shall state, "Introduction . . . See first volume, Numerical Index (Numerical and Reference Designation Index, if applicable)."

**3.4.1.1** The first paragraph for each Group Assembly Parts List volume shall contain Usable On Code information required by 3.4c.

**3.5 Section II—Group Assembly Parts List.**—The Group Assembly Parts List is a breakdown of all systems, assemblies, and subassemblies which can be disassembled, reassembled, or replaced and are contained in the end article, together with related special support equipment as outlined in 3.5.1.1.

**3.5.1 Group Assembly Parts List contents.**—The Group Assembly Parts List shall consist of illustrations and columnar listings of parts. Parts shall be listed in order of disassembly sequence, except that

this may be modified where sequence of disassembly cannot be maintained. The manner and form of preparation shall be as specified herein. (See also figures 3 through 23.) The Group Assembly Parts List shall be divided into representative main groups, assemblies, or systems with such additions, omissions, or changes as may be required by the specific article. The first page of the main groups, assemblies, or systems shall carry the section number and appropriate titles at the top of the page. The remainder of this page shall contain text or illustrations(s), as applicable. Illustrations used shall provide a good view of the main group, assemblies, or systems; its composition, and relationship to the end article. When possible, the selection of main groups or systems shall be compatible with applicable maintenance manuals. The first illustration of the Group Assembly Parts List shall be an exploded or assembled view of the article to serve as a visual index to the group breakdown of the article. (See figures 3 through 9.) This view shall be keyed to permit reference to main group, assembly, or system illustrations, as applicable.

Examples of main groups, assemblies, or systems:

*Electronics*

1. Central Air Data Computer
2. True Mach Unit
3. True Altitude Unit
4. Temperature Sensor
5. True Air Speed and Ground Speed Indicator
6. Airstream Direction Transducer
7. Barometric and Radar Altitude Indicator
8. Air Speed and Mach Number Indicator
9. Special Support Equipment

*Airframe (arranged by systems)*

1. Power Plant and Fuel
2. Flight Control Systems
3. Hydraulic Systems
4. Electrical and Electronic Equipment
5. Cockpit Furnishings
6. Armament
7. Structure
8. Special Support Equipment

*Ordinance*

1. Guide Assembly
2. Carriage Assembly
3. Stand Assembly
4. Slip Ring Assembly
5. Train and Elevation Power Drive Assemblies

*Rail Property Installed Equipment*

1. Air Heater Assembly
2. Plumbing Installation
3. Moisture Content Measurement System
4. Remote Control and Measurement Facility
5. Safety Glass Installation
6. Instrumentation Bulkhead
7. Refrigeration Unit Facilities
8. Control and Measurement Cables
9. Junction Box
10. Terminal Box

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*Power Plant*

1. Power Section
2. Compressor
3. Accessory Drive
4. Turbine
5. Fuel System
6. Electrical System
7. Control System
8. Torquemeter
9. Reduction Gear
10. Special Support Equipment

*Airframe (alternately arranged by groups)*

1. Forward Section Fuselage
2. Aft Section Fuselage
3. Empennage
4. Left-Hand Wing
5. Right-Hand Wing
6. Center Wing Cover
7. Power Plant
8. Left-Hand Booster
9. Right-Hand Booster
10. Left-Hand Fuel Pylon
11. Right-Hand Fuel Pylon
12. Special Support Equipment

*Accessories*

1. Generator Control Section
2. Bleed Duct Section
3. Enclosure and Hourmeter Section
4. Fuel and Air Section
5. Oil and Vent Section
6. Electrical Section
7. Accessory Section
8. Turbine Section
9. Compressor Section
10. Special Support Equipment

**3.5.1.1 Special support equipment.**—Except as noted in 3.5.1.1.1, all Government approved special support equipment (refer to definition, 6.2.8) shall be listed in Section II, Group Assembly Parts List, and be treated as one main group. The special support equipment main group shall be arranged in categories, such as special and nonstandard tools,

ground handling equipment, and test equipment, with the same group headings as the Group Assembly Parts List for the system to which it applies, and shall include the special support equipment which is being furnished for the named system, assembly, etc. When the procuring activity has procured a separate Illustrated Parts Breakdown for an item of special support equipment, or has indicated that one will be procured, only the item proper shall be listed, along with reference to the identifying number of the separate Illustrated Parts Breakdown. Otherwise, a complete breakdown shall be provided for each repairable item of special support equipment.

**3.5.1.1.1** When special support equipment is procured only for depot maintenance of a contractor-furnished equipment item installed in the end article, and a separate Illustrated Parts Breakdown will be issued for that item, such depot-level special support equipment shall not be included in the end-article manual but shall be included in the manual on the installed item. In addition, the manual on the installed item shall not include special support equipment procured only for use at organizational and intermediate maintenance levels.

**3.5.1.2 Running heads.**—The running head on each page of the Group Assembly Parts List may show the name of the main group, assembly, or system of which the page is a part, in lieu of the title "Group Assembly Parts List" as prescribed by MIL-M-5474. (See figure 13.)

**3.5.1.3 Indention to show relationship.**—The Group Assembly Parts List shall be indented or coded to indicate item relationship. Actual indented lists are preferred. Use of coded indention requires procuring activity approval.

**Examples:****ACTUAL INDENTATION**

1	2	3	4	5	6	7	Description
							Article, Main group or Main assembly
.							Assembly
							(Attaching Parts)
.							Attaching parts for assembly
							-----*
.							Detail parts for assembly
.							Subassemblies
							(Attaching Parts)
.							Attaching parts for subassemblies
							-----*
.							Detail parts for subassemblies
.							Sub-subassemblies
							(Attaching Parts)
.							Attaching Parts for sub-subassemblies
							-----*
.							Detail parts for sub-subassemblies

*Not.* The nomenclature for the first entry for each separately illustrated assembly, subassembly, etc., shall begin under indentation one in the Description column.

**3.5.1.3.1 Indention spacing.**—When actual indention is used, the indention in the Description column of the Group Assembly Parts List shall be indicated by leader points or periods, one point or period to signify each indention. When the nomenclature exceeds a single-line presentation, the second or following lines shall be indented two ems or two indentions additional from the first line.

**3.5.1.4 Parts to be listed.**—The Group Assembly Parts list shall list all parts of the end article, its systems, equipment, and special support equipment capable of separate maintenance, except as otherwise specified in 3.5.1.1 and the following paragraphs.

**3.5.1.4.1 Government Furnished equipment/Government-Furnished aeronautical equipment (GFE/GFAE).**—The item proper and attaching parts only shall be listed for GFE/GFAE items which are a part of the article. Following the description, the type or model number, the specification(s) number, and the abbreviation GFE shall be shown.

**I CODED INDENTATION**

N  
D  
E  
N

**T DESCRIPTION**

1	ARTICLE, MAIN GROUP, OR MAIN ASSEMBLY
2	ASSEMBLY
	ATTACHING PARTS
2	ATTACHING PARTS FOR ASSEMBLY
	-----*
3	DETAIL PARTS FOR ASSEMBLY
3	SUBASSEMBLIES
	ATTACHING PARTS
3	ATTACHING PARTS FOR SUBASSEMBLIES
	-----*
4	DETAIL PARTS FOR SUBASSEMBLIES
4	SUB-SUBASSEMBLIES
	ATTACHING PARTS
4	ATTACHING PARTS FOR SUB-SUBASSEMBLIES
	-----*
5	DETAIL PARTS FOR SUB-SUBASSEMBLIES

**3.5.1.4.1.1** When standard part numbers have not been established for the GFE/GFAE item and all its components, the manufacturer's part number for the item shall appear in the Part Number column and the manufacturer's code (or complete name if no code has been assigned) shall follow the description. For example:

Part No.	1	2	3	4	5	6	7	Description
7044R53								ENGINE, Turbo-jet, Model J79-GE-3, GFE (94791)

**3.5.1.4.2 Contractor-Furnished equipment/Contractor-Furnished aircraft equipment (CFE/CFAE) (either manufactured by the end-article contractor or procured by him from vendors).**—When the procuring activity has procured a separate Illustrated Parts Breakdown for a CFE item which is part of the article, or has indicated that it will procure one, only the item proper, its attaching parts, and parts replaceable at Organizational and Intermediate levels of maintenance shall be listed. Otherwise, all parts shall be listed as required in 3.5.1.4.

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The listings of Organizational and Intermediate-level parts shall be preceded by the words "Partial breakdown follows", to make it clear that these are not all the detail parts of the item. Items listed as replaceable at Organizational and Intermediate levels of maintenance should not conflict with any code assigned. Exception: In Illustrated Parts Breakdowns for guided missiles and aircraft, parts replaceable at Organizational and Intermediate levels which are parts of major components shall be listed or omitted as directed by the procuring activity.

**3.5.1.4.3 Other items.**—The following types of items shall not be listed:

- a. Parts which lose their identities by being welded or joined to other pieces as a permanent unit.
- b. Items made from raw (bulk) stocks, such as lock wire, bonding braid, upholstery cloth, friction tape, etc.
- c. Structural items, such as stringers, stiffeners, skin, doublers, gussets, etc, which serve no purpose in description of parts relationship or attachment of significant procured parts. (Normally applicable to airframes only.)
- d. Commonly used hardware, such as standard rivets, screws, nuts, bolts, cotter pins, washers, etc, except that those used as attaching parts for frequently detached items shall be listed. (Normally applicable to airframes only.)

#### **3.5.1.4.4 Items requiring special attention.**

**3.5.1.4.4.1 Oversize and undersize parts.**—When oversize and undersize parts are required and furnished and they are neither interchangeable with nor within allowable production tolerances of the standard size part, they shall be identified in accordance with the contract drawing specifications and descriptive information shall be included which indicates all dimensional differences. (See figure 15.)

**3.5.1.4.4.2 Tolerances for electrical/electronic parts.**—Percentages or actual values or allowable tolerances for such items as nonmilitary standard resistors, capacitors, etc, shall be shown as a part of the description, expressed as plus and minus values. Example: EB4745 RESISTOR, Fixed, composition, 1000 ohms, +5 percent, -10 percent, 1/2 w. The noun name is adequate description for Government standard resistors, capacitors, etc.

**3.5.1.4.4.3 Undrilled or unrimmed parts.**—Design activity part numbers, in accordance with contract drawing specification requirements, shall be assigned to each part requiring drilling or trimming before installation. Notes shall be included in the Description column to indicate that such parts require drilling or trimming at time of installation. Example: 5256750 BRACKET ASSY, Hydraulic accumulator, lower. (Drill on installation.)

**3.5.1.4.4.4 Matched parts.**—Parts which would normally be individually procured, such as gears, cams, hydraulic sleeves and pistons, resistors, and vacuum tubes, but which have been machined to fit as a matched set or lapped assembly, or matched electronically to meet circuit requirements, shall be coded or annotated to indicate that the parts are not to be requisitioned separately because they are in a set and that the set of matched items or the next higher assembly must be requisitioned. (See figure 17.)

**3.5.1.4.4.5 Quick change units.**—Items comprising a quick engine change assembly, or other quick change unit used as a maintenance spare to support the article, shall be identified by the symbol "QCU" located at the far right of the last line of the Description column. Following the breakdown of the group or assembly to which the quick change unit relates, there shall be a straight-line listing of all parts required to complete the unit, including those omitted pursuant to 3.5.1.4.3 as well as adapting parts, except where the quick change unit is to be repaired only at depot level, such as electronic equipment modules. In these cases, no parts listing shall be made. In all cases, the part number and description of the quick change kit, if applicable, shall follow the breakdown of the quick change unit.

**3.5.1.4.4.6 Government standard items containing nonstandard detail parts.**—Items covered by Government standard drawings, including assembly drawings, shall be listed under the Government Standard assembly part number except when the item contains repair parts which are not designated by Government detail design drawing numbers. In such cases, the item shall be identified by the design manufacturer's part number in the Part Number column and the Government Standard part number, when known, shall be shown in the Description column. Example: 407633 GAGE, Air pressure (78239) AN5771-7A.

**3.5.1.4.4.7 Government standard parts.**—Government standard parts shall be listed by the appli-



cable MS, AN, AF, NAF, MIL, or JAN part number or specification number in the order of preference indicated in the contract drawing specifications. Complete Government numbers, including prefixes and suffixes to the basic number, shall be shown in the Part Number column.

**3.5.1.4.4.8 Altered, selected, or source controlled Government Standard, vendor, and commercial items.**—When any Government standard, vendor, or commercial item is altered or selected or is a source controlled item because of special fit, tolerance, weight, or reliability of performance, the part number of the design activity responsible for the alteration, selection, or source control shall appear in the Part Number column. Repainting, reidentifying, or other nonsignificant operations shall not be considered alterations, selections, or source controls.

**3.5.1.4.4.9 Commercial hardware.**—Commercial hardware procurable from normal commercial sources and not identifiable as Government standards shall be identified in the Part Number column by the manufacturer's part number. If a part number has not been assigned, the item shall be identified as commercial by the symbol "COML" in the Part Number column and identifying information such as dimensions, size, material, type, special features, and commercial catalog number shall be entered following the description. Such information shall be sufficiently complete to enable the procuring activity to make replacement procurements from commercial sources.

**3.5.1.4.4.10 Similar assemblies.**—If right and left, top and bottom, front and rear, or other similar or symmetrically opposite assemblies contain a majority of identical parts, the assemblies shall be combined and broken down as follows: (See figures 12 and 17.)

- a. Both assemblies shall be listed first, followed by the detail parts in disassembly order.
- b. Parts peculiar to only one assembly shall have indicated, by code, footnote, or description, the assembly of which they form a detail.
- c. Parts identical but differing in quantity per assembly shall be listed separately and be coded or explained by footnote or explained in the Description column.
- d. Parts identical and used in the same quantity shall be listed only once, and the Units Per Assembly column shall show the quantity required for one assembly only.

- e. If a sufficient number of parts are not identical to both assemblies, or if the continuity of identity cannot be maintained by combining the listings, such assemblies shall be broken down separately.

**3.1.4.4.10.1 Symmetrically opposite parts.**—Symmetrically opposite parts shall be identified in accordance with the contract drawing specifications. Symmetrically opposite parts shall be listed on separate lines.

**3.5.1.4.4.11 Articles without part numbers.**—Type and model numbers for equipment of Bureaus or Departments, such as Signal Corps, Bureau of Ships, or Bureau of Yards and Docks, shall not be listed in the Part Number column. The words "No Number" shall be inserted in the Part Number column in these cases. For example:

Part No.	1	2	3	4	5	6	7	Description
No Number								ANTENNA (Type A16 ARC)(00781)

**3.5.1.4.4.12 Vendor items.**—When vendor items are listed, the vendors' part numbers shall be entered in the Part Number column. Vendor items are those used by the contractor exactly as produced by the vendor. The last sentence in 3.5.1.4.4.8 regarding nonsignificant changes applies.

**3.5.1.4.4.12.1 Description of vendor items.**—The description of vendor items shall include information as to the type, model, or applicable Government specification and the vendor code as designated in Cataloging Handbook H4-1 and H4-2, Federal Supply Code for Manufacturers. (See figures 13 and 17.) When a manufacturer's code for the vendor is not included in H4-1 or H4-2, the name and address of the manufacturer shall be given. The method of listing the vendor information depends on the type of drawing used to procure the vendor's item by the design activity. For vendor items illustrated on a

- a. Source control drawing: the source control drawing number shall be given in the Part Number column.
- b. Specification control or envelope drawing: the vendor's part number shall be given in the Part Number column and the specification control or envelope drawing number in the Description column. For example:

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Part No.	1	2	3	4	5	6	7	Description
754386								VALVE, Pressure relief, pneumatic system, 1500 psi (20304), Douglas Spec Cont Dwg 5557771

**3.5.1.4.4.12.2 Alternate vendor items.**—Alternate vendor items used by the contractor for production installation shall be listed and identified as alternates either following the description or by symbols and footnotes on the page on which they appear. If the same vendor item appears several times in a manual it is not necessary to repeat the alternates at each listing. The alternates shall be shown following the first listing, and subsequent listings of the vendor item may reference the first listing for information on the alternates.

**3.5.1.4.4.13 Redesigned parts.**—When the design or the material of a part is changed to the extent that interchangeability or physical or functional performance is affected, the new part number assigned in accordance with the contract drawing specification shall be listed. The original part shall be omitted when not authorized for continued use. If the original part has continued application, the applicable model, block numbers, and serial numbers of the items on which the part is usable shall be indicated by the Usable On code system. Such notes as "Alternate for" or "Use until exhausted" should follow the description as applicable. (See figures 10 and 13.)

**3.5.1.4.4.14 Items requiring LOX or special cleaning.**—Following the nomenclature of a part, insert a code (and explain it in the Introduction) for parts requiring LOX or special cleaning to assist in the identification of such parts when hazardous conditions could result because of lack of this information.

**3.5.1.5 Main groups and assemblies.**—Main groups shall begin on new pages; assemblies shall begin on new pages when use of the space remaining on a page from the preceding assembly would result in poor layout.

**3.5.1.5.1 Assignment of index numbers.**—Index numbers shall be assigned to all parts having maintenance or supply significance, except as noted below. Index numbers shall be assigned to the parts listing first and then transposed to the figure, to insure that the index numbers fall in sequence in the breakdown. When the same part appears more than once in an illustration and it is necessary to list it more than once in the breakdown, it shall be assigned a different index number for each listing. No

index number shall be assigned to an assembly when all detail parts are indexed unless such assembly is also illustrated completely assembled on the illustration. To eliminate the necessity of renumbering all the index numbers that follow, parts that are added to a listing by change may be assigned suffixed numbers such as 2A, 2B, 2C, etc. This system may also be used in basic manuals (initial issues) and revisions when errors are discovered so late in preparation that renumbering of all following index numbers would delay submittal.

**3.5.1.5.1.1 Index numbers for attaching parts.**—Fastening groups used at the same location (for example, a relay attached by a multiple number of nuts, bolts, and washers) need not be individually illustrated or identified by index number. One index number assigned to the group and so indicated in the listing is sufficient. In case of attaching parts which obviously can be installed in only one manner, no index number need be assigned. (See figure 12.)

**3.5.1.5.2 Attaching parts.**—Attaching parts shall be listed immediately beneath the item to be attached and preceding any detail parts of the item. They shall be listed at the same indentation as the part they attach and shall be captioned "(Attaching Parts)". The caption "(Attaching Parts)" shall be placed one indent to the right of the part to be attached, and on the line immediately above the listing of attaching parts. The separation symbol "----\*"----" shall follow the listing of attaching parts in order to distinguish between attaching parts and subsequent listings of parts with the same indentation or detail parts of the next indentation to the right. The separation symbol shall have the same indentation as the caption "(Attaching Parts)." (See figure 10.)

**3.5.1.5.2.1 Alternate method for identifying attaching parts.**—An abbreviation may be used to follow attaching parts which will eliminate the need for separation lines. The Introduction shall explain the abbreviation. Example of the system explained in 3.5.1.5.2 and the alternate follows:

Plate (Attaching Parts)	Plate
Screw	Screw (AP)
Washer	Washer (AP)
----*----	Connector
Connector	

**3.5.1.5.3 Parts kits.**—When repair parts for the article or for repairable units within the article are to be supplied in the form of kits, a part number shall be assigned to each kit in accordance with the contract drawing specification requirements. An appro-



appropriate notation shall be inserted in the Description column, following the description of the article or unit for which the kit is supplied, of the fact that parts kit(s) are available. The kit(s) shall be placed last in the listing of parts of the unit to which it applies and at the same indentation as the unit to which it applies. Contents of the kit not previously listed in the breakdown shall be listed, indented one indentation, below the kit description. The kit components which are listed in the breakdown shall carry the appropriate kit code as part of the description. Listings of supplemental kits shall follow the listing of original kits in the same manner as prescribed herein. (See figures 10 and 13.) Separate illustrations for kits need not be shown.

**3.5.1.5.4 Markings.**—Decals, metalcalcs, and vinyl film markings are to be considered as parts. The identifying drawing number for each marking shall appear in the Part Number column. The nomenclature or title of each marking shall appear in the Description column. Markings should be illustrated but a separate readable illustration of each is not necessary; showing the location of the marking is equate.

NOTE: The type of markings for which information is required would be those that provide instructions, provide identification for a reparable assembly, would require replacement, or need to be requisitioned separately. It is not intended that a marking be listed or illustrated if: it was attached to a part or a nonreparable assembly merely to identify it, instead of having the part number stamped or etched on the part; the parts or nonreparable assemblies are stocked, stored, and issued with the marking attached thereto; the part, not the marking is replaced; the marking should not be requisitioned separately. However, if an illustration of these latter parts or nonreparable assemblies would appear to be incomplete if the marking attached thereto was omitted, then it would be proper to show, but not list, the marking.

**3.5.1.6 Figure and Index Number column.**—This column shall contain the assigned number of the illustration in which the assembly or part is shown, and the index numbers called out on the illustration. The figure number shall be separated from the index number by a hyphen or space, and need not be repeated on the same page in consecutive listing. (See figure 17.) Index numbers shall be in numerical sequence starting with 1.

**3.5.1.7 Part Number column.**—This column shall contain the part number assigned to each part

in accordance with the contract drawing specification. (Refer to 3.5.1.4.4.8 and 3.5.1.4.4.12.1 regarding altered, selected, source-controlled, and specification-controlled parts.)

### **3.5.1.8 Description column.**

**3.5.1.8.1 Item identification.**—The description of all items appearing in the Group Assembly Parts List shall consist of the nomenclature placed in the drawing title block by the design activity in accordance with the contract drawing specification. The noun name is adequate description for Government standard parts.

**3.5.1.8.2 Arrangement of wording.**—Wording shall be arranged so that the identifying noun or key word will always be the first part of the description. If the item is an assembly or installation, the word ASSEMBLY or INSTALLATION shall immediately follow the noun. This shall be followed by the balance of the modifying words included in the drawing title description. Words such as upper, lower, inner, outer, front, and rear, when they modify the part noun, shall be placed next in the description. Modifiers shall be separated by commas or when EAM equipment is used by a space or a dash. The Description column shall include the space under the seven numbered sub-columns to facilitate breakdown identification. Vendors' codes (or complete name if no code has been assigned) and references to other manuals shall follow the description. Necessary references to other figures for next higher assembly, or for a separately illustrated detail breakdown, shall be included in the Description column. (See figure 10.)

**3.5.1.8.3 Dimensions.**—When units of measurement are the same, they shall not be repeated with each dimension. Example: "1/8 by 21/32 inches". To avoid confusion, a hyphen shall be used between a whole number and a fraction. For example: "1-1/16, 2-3/32, 4-9/64". When a decimal with a value of less than 1.0 is given, a zero shall precede the decimal point. For example: 0.002 inch.

**3.5.1.8.4 Capitalization.**—The item name shall be in upper case letters. The first letter of the first word immediately following the item name shall be in upper case. The first letter of proper nouns, regardless of location, shall always be capitalized. When electric accounting machines are used, the entire description may be in upper case letters.

**3.5.1.8.5 Abbreviations.**—Abbreviations shall be held to an absolute minimum, and when used shall be limited to forms listed in MIL-STD-12, except

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that upper or lower case may be used. Other essential abbreviations if explained in the Introduction may be used, such as "AR" for As Required.

**3.5.1.8.6 Leaders.**—Leaders (a series of small points) shall be used to join the Description and the next column to the right. In descriptions comprising more than one line, leaders shall be used only on the first line, as necessary.

**3.5.1.8.7 Make-from instructions.**—When a part has been source coded MF by the procuring activity, the raw (bulk) stock from which the part is to be made will be listed. This listing will be preceded by the words "MAKE FROM".

**3.5.1.9 Units per Assembly column.**—This column shall contain the number of units required per assembly, per subassembly, and per sub-subassembly, as applicable. If more than one assembly is required, the total of such assemblies shall be shown. For detail or subassembly parts of this major assembly, the quantity required for one major assembly shall be shown. For oversize or undersize parts, the letters "AR" shall be shown in the Units per Assembly column to indicate "As Required". (See figure 15.) Where items are listed for reference purposes, the letters "REF" shall be inserted in the

Units Per Assembly column. Items referenced may show a quantity where they are listed assembled or listed in detail and then show "REF" in other appearances. In multiple-line descriptions, the quantity in the Units Per Assembly column shall be opposite the first line of the Description.

**3.5.1.10 Usable On Code column.**—This column shall contain suitable coding for assemblies and parts to indicate specific usability by serial, type, model, or series numbers on the articles for which the Breakdown is prepared. (See figure 14.) When specific usability can be shown simply, as by Mk & Mod numbers and occasional notations, use of coding is not required. (See figure 15.) However, when coding is desirable for clarity and space conservation, a coding system such as the systems shown below shall be used. When applicable, Usable On codes shall be employed to indicate that a part is usable only after, or before, incorporation of a service change or Technical Directive. The Usable On Code column will be left blank unless the applicability of a part is limited to a given portion of the articles covered by the Breakdown, and the Introduction shall contain a statement to the effect that where no Usable On Code appears, the part is applicable to all articles.

#### EXAMPLE A

Master Usable On Coding List		
Usable On Code	Model Designation	Serial Numbers
A	J-100-54	56251 to 56300
B	J-100-54	56301 to 56500
C	J-100-54	56501 to 56750
D	J-100-54	56751, 56755, 57801, 57802
E	J-100-54	56752, 56790, 57001
etc	• • • • •	• • • • •
Z	J-100-60	59251 to 59500
AA	J-100-65	57501 to 57800
AB	J-100-65	57901 to 58000
etc	• • • • •	• • • • •
BZ	J-100-95	59501 to 59575
CA	J-100-95	59501 to 59575 with Service Change 103 inc.

Each Master Usable On Coding List shall start with the upper case letter "A". If the single letters of the alphabet are not adequate for complete coding, double letters shall be used.

**NOTE** This coding system is generally suitable where extensive coding of a Breakdown is necessary.

**EXAMPLE B**

Master Usable On Coding List		
Usable On Code	Model Designation	Serial Numbers
	J-100-40, -54, -60, -65, -71, -73, -87, -95	ALL
1	J-100-40	56001 to 56250
2	J-100-54	56251 to 56800
2A	J-100-54	56251 to 56400
2B	J-100-54	56401 to 56500
2BA	J-100-54	56401 to 56425
2BB	J-100-54	56426 to 56500
2C	J-100-54	56501 to 56800
3	J-100-60	56801 to 57500
4	J-100-65	57501 to 57750
4A	J-100-65	57501 to 57600
4B	J-100-65	57601 to 57750
5	J-100-71	57751 to 58500
6	J-100-73	58501 to 59000
7	J-100-87	59001 to 59250
8	J-100-95	59251 to 59500

**NOTE.** This system is not recommended for the more complicated coding problems. Consideration should be given to Example A when a complicated coding problem is anticipated.

**3.5.2 Illustrations.**—Illustrations shall be prepared in accordance with MIL-M-5474. Each assembly and subassembly included in the Group Assembly Parts List shall be illustrated to the degree required to identify its detail parts, including attaching parts. When necessary for clarity, a location sketch shall appear on illustrations showing the location of the illustrated assembly as related to the complete article. (See figures 11 and 16.) When a number of identical parts, including attaching parts, are used in the same location, only one need be illustrated.

**3.5.2.1 Photographs and line drawings.**—Either photographs or line drawings, or some of each, may be used. Illustrations shall be exploded when necessary to identify detail parts which cannot be shown clearly by use of an assembled illustration. (See figures 11 and 16.) If disassembly relationship is either not required or can be clearly shown in an assembled view, the detail parts shall not be exploded merely to make the attaching parts visible.

**3.5.2.2 Attaching parts.**—Attaching parts shall be assigned index numbers consistent with index numbers assigned in the breakdown and shall be exploded only when the assembly procedure is hidden and sufficiently complex to merit explosion. If the attaching parts are not visible in the illustration (for example, the nuts attaching a transformer will not be visible on a chassis top view), a consolidated callout (one index number assigned to an attaching parts group, such as nut, bolt, washer) may be used

with the leader line terminating on the visible attaching part. (See figures 11, 12, and 16.)

**3.5.2.3 Separate views of subassemblies.**—Where impractical to show completely in one illustration all the detail parts of each subassembly contained in any one assembly, a subassembly may be illustrated completely assembled on this illustration and a separate exploded view of the subassembly furnished. Such a subassembly should be assigned an index number where illustrated completely assembled, and a notation should be inserted in the Description column referring to the applicable separate subassembly figure. The subassembly figure shall be cross-referenced to the assembly.

**3.5.2.4 Parts to indicate relationship.**—Some illustrations may require the inclusion of certain parts not listed to show the relationship of the parts in the assemblies illustrated. These parts shall be toned down or shown in phantom to give emphasis to the assemblies or parts listed. (See figure 22.)

**3.5.2.5 New assemblies and parts.**—When an assembly or part used on a later model differs from an assembly or part used on the basic model, and the change is such that the illustration of the assembly or part used on the basic model will not adequately portray the new assembly or part, the latter may be illustrated where practicable on the illustration for the basic model. If space does not permit the employment of this method of illustration, a separate complete illustration showing the new assembly or

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part shall be furnished. It shall be placed immediately following the illustration for the assembly or part of the basic model.

**3.5.2.6 Symmetrically opposite parts and similar assemblies.**—When impracticable or unnecessary to illustrate both right and left, top and bottom, front and rear, and other similar parts and assemblies, and when both parts have the same appearance and functional purpose but different part numbers, such parts and assemblies shall be illustrated once with an index number shown in the listing for the first part listed.

**3.5.2.7 Index numbers.**—Index numbers with leader lines to the parts to which they pertain shall be used on all illustrations with the exception of circuit boards. On illustrations of circuit boards the index numbers may be placed within the part to which they pertain. Index numbers shall be applied only to parts that are listed in the breakdown. The index numbers on each illustration shall agree with those shown in the breakdown.

**3.5.2.8 Figure titles and numbering.**—Illustrations shall be assigned figure titles. Figures shall be numbered consecutively throughout the Group Assembly Parts List. Figure numbers shall be in accordance with MIL-M-5474 except that the section number shall not be used as part of the figure number. The figure title shall appear below the illustration and shall be the same item name given

Power Plant  
Oil Drain System  
Ignition System  
Water Injection System  
etc

Armament  
Bombing System  
Fire Control System  
Gun Sight System  
Gun Booster System

Aircraft  
Electrical System  
Heating System  
Oxygen System  
etc

Accessories  
Hydraulic System  
Electric System

Electronics  
Antenna  
Microphone and Headset  
etc

**3.5.2.12 Special support equipment illustrations.**—The number of illustrations required to show the special support equipment shall be commensurate with the number of equipments required to support the article, their complexity, and their interchangeability. There shall be a key, or main illustration with accompanying parts lists, which shall include all items of special support equipment required to support the end article. All items that require breakdown shall have, in this parts list, a reference to the figure (or to the separate manual) which breaks down the item. (See figures 20 through 23 for typical key listings of special support equipment.)

in the Description column of the Group Assembly Parts List for the system, assembly, subassembly or sub-subassembly illustrated, except that it will be in normal reading order. (See figure 15.)

**3.5.2.9 Group titles.**—The title of the applicable Main Group, such as Flight Controls, Amplifier, Receiver Unit, or Elevation Power Drive, may be inserted at the top center of illustrations. (See figure 16.)

**3.5.2.10 Location of illustrations.**—Normally, all illustrations will be placed on the page facing the related text. If there is more than one page of listing, the first page will be the facing page, with other pages following in proper sequence. Where illustrations and listings cannot conform satisfactorily to the form outlined above, illustrations shall precede related listings except where such placement results in excessive blank space. In such cases, illustrations shall be placed as close as possible to the beginning of the related listing.

**3.5.2.11 System illustrations.**—When applicable, functional systems shall be separately illustrated. (See figures 18 and 19.) These illustrations shall be keyed to the illustrations of the assemblies containing the detail parts of a particular system. System illustrations are to be system indexes so that the separate assembly sections can be readily located in the Group Assembly Parts List. For example:

**3.6 Section III—Numerical Index.**—Section III of the Illustrated Parts Breakdown shall consist of a Numerical Index. (See figure 24.) In multiple-volume Illustrated Parts Breakdowns, the Numerical Index will be the first volume, and within this volume Section I will be the Introduction, Section II the Numerical Index, and Section III the Reference Designation Index, if applicable. If codes (source, accountability, recoverability) are not available when the original issue of the breakdown is prepared, a second Numerical Index will not be required until the appropriate codes do become available. Originally, the second Numerical Index shall consist of one page stating that temporary use shall be made of

the preceding Numerical Index except for the code information.

**3.6.1 Arrangement of columns.**—Three columns shall be placed across the width of the page. Columns shall have the content and be arranged as shown in figure 24.

**3.6.2 Part Number column.**—This column shall contain the part numbers of all parts that comprise the article(s) covered by the Illustrated Parts Breakdown, including superseded parts which have continued application. However, the parts of GFE/GFAE and CFE/CFAE items which have been listed only as complete assemblies in the Group Assembly Parts List shall not be included. (Refer to 3.5.1.4.1 and 3.5.1.4.2.)

NOTE: The part number column shall contain all the part numbers:

- That appear in the Group Assembly Parts List.
- That appear in the approved Provisioning Parts Breakdown.
- Of superseded parts.
- Of parts on which a number is stamped, etched, stenciled, etc.
- Of the original manufacturer, if for some reason, another number has been assigned thereto.

When applicable, part numbers shall be followed by appropriate notes, such as "Superseded by \_\_\_\_\_." "See P/N . . . . .," etc. These notes will extend into the columns that follow the Part Number column and be cross-references to new part numbers, next higher assemblies, and numbers under which parts are to be requisitioned.

**3.6.2.1 Alpha-Numerical arrangement sequence.**—Part number arrangement shall begin on the extreme left-hand position and continue from left to right, one position at a time, until all parts are arranged in sequence.

**3.6.2.1.1 First position arrangement.**—The order of precedence in beginning the part number arrangement on the extreme left-hand (first) position of the part number shall be as follows:

Letters A through Z

Numerals 0 through 9

NOTE: Alphabetic Os shall be considered numerical zeros.

**3.6.2.1.2 Second and succeeding position arrangement.**—The order of precedence in continuing the part number arrangement in the second and succeeding positions of the part number from left to right shall be as follows:

- Space (blank column)
- Diagonal (slant)
- Point (period)
- Dash (-)
- Letters A through Z
- Numerals 0 through 9

NOTE: Alphabetic Os shall be considered numerical zeros. Spaces, diagonals, and decimal points, if used in old part numbers, shall take precedence over letters and numerals as indicated above.

**3.6.2.1.3 Sample application.**—The following list of part numbers is in correct numerical sequence:

AN931-4-16	B2	16W060
A2460	SOCKET	32P010
A3176543	114041Y17	32P010-10
A32	121873S081-1931	39A46-1 3-4 7-8
BATTERY	12857-5 13857-3	405P003

NOTE: Commercial hardware and other parts to which part numbers have not been assigned shall be listed in sequence, considering the identifying noun as the part number. (See figure 24.)

**3.6.3 Figure and Index Number column.**—This column shall contain the figure and index number(s), as applicable, for all parts listed. For Government Standard Parts and Contractor Standard Parts, only the first figure and index number that occurs shall be listed. When an assembly or part has not been assigned an index number in the Group Assembly Parts List, only the figure number shall appear. The part number need not be repeated when more than one figure and index number is shown for the same part. In Illustrated Parts Breakdowns having a multi-volume Group Assembly Parts List, the figure numbers in this column will be preceded by a numeral indicating the applicable volume; for example: 2-4-10 (Volume 2, figure 4, index 10), and the column heading shall include "Volume". (See figure 24.)

**3.6.4 Code columns.**—The Government-assigned codes indicated below shall be shown for every part number listed. (See figure 24.) These



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codes will be furnished by the procuring activity during or subsequent to provisioning actions. They will not be assigned by the contractor except as specifically provided in the provisioning document applicable to the contract. When a contractor has received codes from the procuring activity before the cutoff date of the basic manual, these codes shall be included before the basic manual is accepted. Codes, or changes to codes, received by the contractor after the cutoff date of the basic manual, or after the cutoff date of any change or revision, shall be included in the first change or revision after such cutoff date before acceptance of the change or revision. Codes to be included, when and if assigned, are:

- a. Source codes.
- b. Accountability/Recoverability codes.
- c. Kit codes.

**3.7 Section IV—Reference Designation Index.**—When reference designations have been established for any electrical and electronic parts listed in the Illustrated Parts Breakdown, then a Reference Designation Index is required and shall constitute Section IV of the Illustrated Parts Breakdown. (See figure 25.) In multiple-volume Illustrated Parts Breakdowns, the Numerical Index and Reference Designation Index will be the first volume, and within this volume the Introduction will be Section I, the Numerical Index Section II, and the Reference Designation Index Section III.

**3.7.1 Arrangement of columns.**—Three columns shall be placed across the width of the page. Content and arrangement of these columns shall be as shown on figure 25.

**3.7.2 Reference Designation column.**—This column shall contain all reference designations shown on schematics and wiring diagrams and those contained in the text of Operating, Service, Maintenance, or Overhaul manuals pertaining to the article covered by the Illustrated Parts Breakdown.

**3.7.2.1 Arrangement.**—The reference designations shall be listed alphabetically and numerically.

**3.7.2.2 Block designations.**—When the block system of designations is employed, identical items having reference designations which are consecutive and are at the same location may be grouped where possible. (See figure 25.)

**3.7.2.3 Unit designations.**—When the unit type designations are employed, identical items having reference designations which are consecutive and are at the same location may be grouped where possible. Identical assemblies shall be listed by the unit designations and may be cross-referenced to the first unit designation for the identical assembly, which shall be completely listed, by the words "Same as \_\_\_\_\_." (See figure 25.) The cross-reference system, when employed, shall be adequately described in the Introduction so that the user will be able to make intelligent use of the system.

**3.7.3 Figure and Index Number column.**—This column shall contain the Group Assembly Parts List figure and index numbers assigned to items having electrical and electronic reference designations. In Illustrated Parts Breakdowns having a multi-volume Group Assembly Parts List, the figure numbers in this column will be preceded by a numeral indicating the applicable volume, and the column heading will include "Volume."

**3.7.4 Part Number column.**—This column shall contain the part numbers of the items having electrical and electronic reference designations.

## 4 QUALITY ASSURANCE PROVISIONS

**4.1** Quality assurance provisions shall be in accordance with MIL-M-5474.

## 5 PREPARATION FOR DELIVERY

**5.1** Packaging, packing and marking for shipment shall be in accordance with MIL-M-5474.

## 6 NOTES

**6.1 Intended use.**—The technical manuals prepared to this specification are intended to be used for requisitioning, storing, issuing, and identifying parts and for illustrating assembly and disassembly relationships.

### 6.2 Definitions.

**6.2.1 Article (equipment or end item).**—An article consists of components, assemblies, subassemblies, and parts connected or associated together to perform an operational function.

**6.2.2 Commercial item.**—A commercial item is a supply or service which normally is, or has been, sold or offered to the public commercially by any supplier.

**6.2.3 Cutoff date.**—The cutoff date is the date that the contractor or procuring activity decides no more additions, deletions, and changes will be accepted to the manual material that the contractor has assembled in order to meet the scheduled delivery date.



very date. Additions, deletions, and changes after that date will be accumulated for preparation of a change or revision of the manual.

**6.2.4 Depot level of maintenance.**—That maintenance which is the responsibility of and performed by designated maintenance activities to augment stocks of serviceable material, and to support Intermediate and Organizational Maintenance activities. Encompasses Navy term Overhaul (Class A), Special (Class B), and Wing Maintenance (Marine).

**6.2.5 Intermediate level of maintenance.**—That maintenance which is the responsibility of and performed by designated maintenance activities for direct support of using organizations. Encompasses Navy terms Component Repair (Class C), Shop (Class D), Group Maintenance (Marine), and Tender or Repair ship (Shipboard Ordnance).

**6.2.6 Maintenance.**—The function of retaining material in, or restoring it to, a serviceable condition.

Its phases include servicing, repair, modification, modernization, overhaul, rebuild, test, reclamation, and inspection and condition determination.

**6.2.7 Organizational level of maintenance.**—That maintenance which is the responsibility of and performed by a using organization on its assigned equipment. Encompasses Navy terms Hangar (Class E), Line (Class F), Squadron (Marine), and Vessel (Shipboard Ordnance).

**6.2.8 Special support equipment.**—Support equipment which must be designed and developed in conjunction with the development of the end article on the contract.

**6.2.9 Vendor.**—A vendor is a design activity, manufacturer, wholesaler, or agent from whom are acquired items used in the performance of the contract.

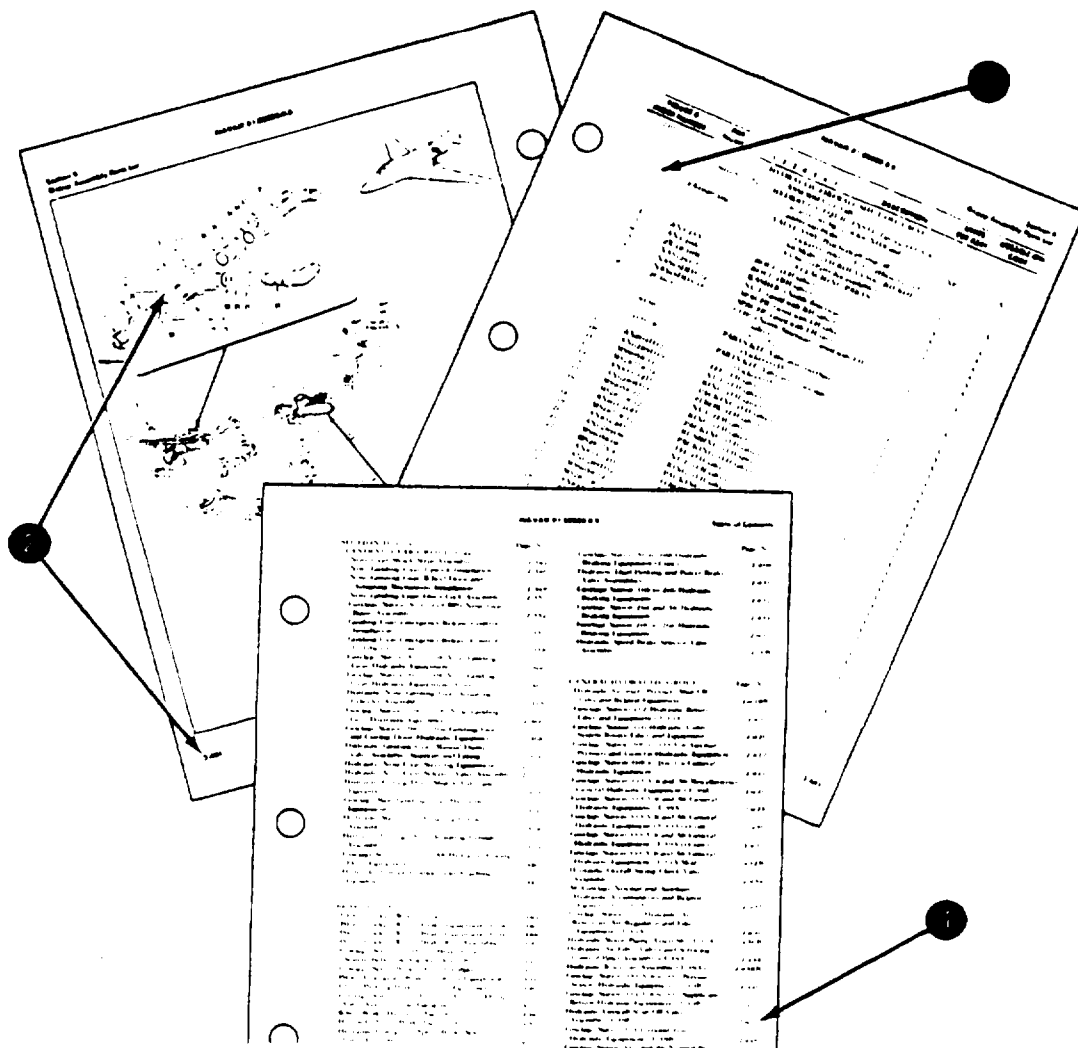
Custodian:  
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Preparing activity:  
Navy.—AS

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Section I  
Introduction

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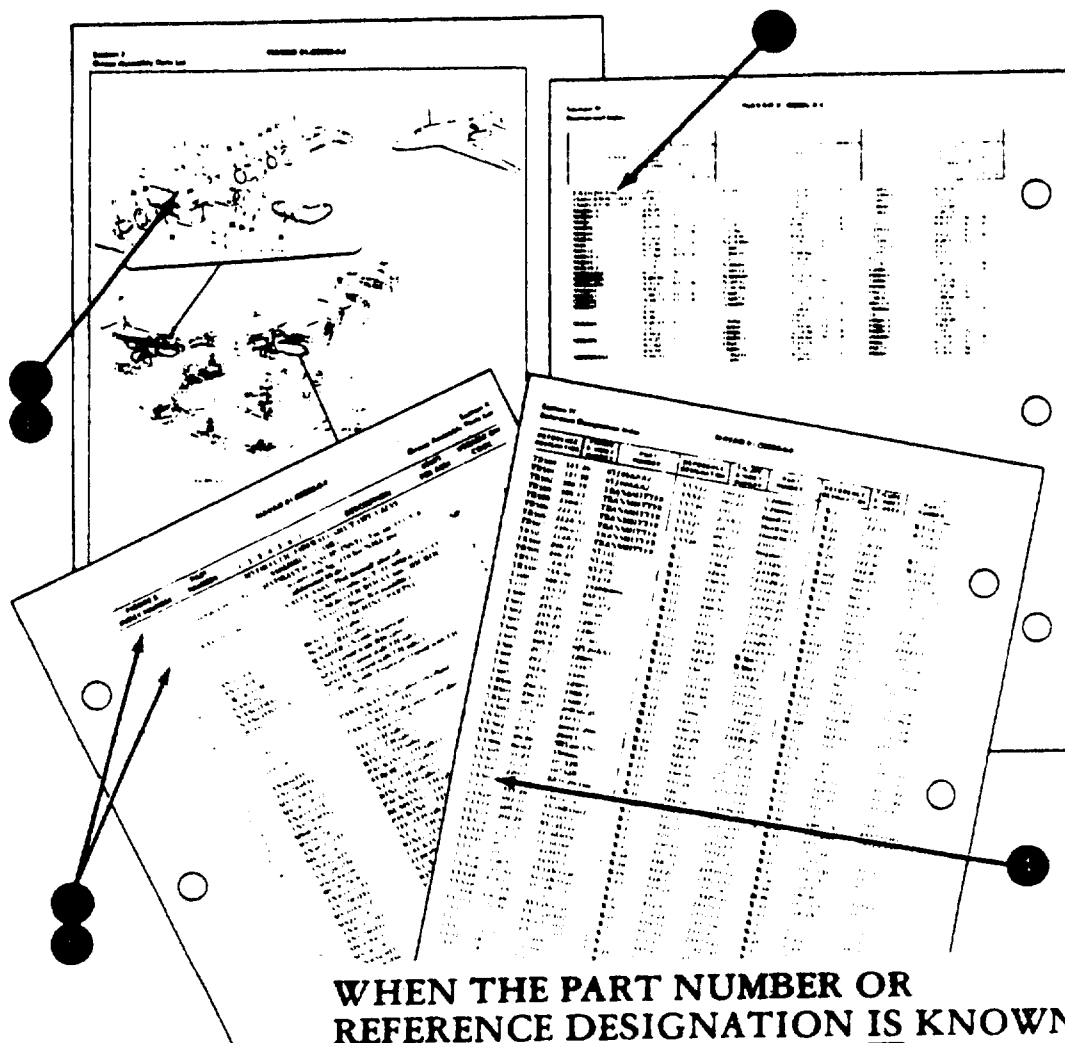
**HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN****WHEN THE PART NUMBER IS NOT KNOWN**

- 1 Determine the function and application of the part required. Turn to the Table of Contents and select the most appropriate title. Note the illustration page number.
- 2 Turn to the page indicated and locate the desired part on the illustration.
- 3 From the illustration, obtain the index number assigned to the part desired. Refer to the accompanying description for specific information regarding the part.

1-4

*Figure 1. Typical Example of How to Use the Illustrated Parts Breakdown  
(When the Part Number is Not Known)*

## HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN



### WHEN THE PART NUMBER OR REFERENCE DESIGNATION IS KNOWN

When the part number is known, refer to Section III, Numerical Index. Locate the part number and note the figure and index number assigned to the part number.

Turn to the figure number indicated and locate the index number referenced in the Numerical Index.

If a pictorial representation of the part, or its location is desired, refer to the same index number on the accompanying illustration.

When the reference designation is known, refer to Section IV, Reference Designation Index. Locate the reference designation and note the figure and index number and the part number assigned.

Turn to the figure indicated and locate the index number referenced in the Reference Designation Index.

If a pictorial representation of the part, or its location is desired, refer to the same index number on the accompanying illustration.

**Figure 2. Typical Example of How to Use the Illustrated Parts Breakdown (When the Part Number or Reference Designation is Known)**

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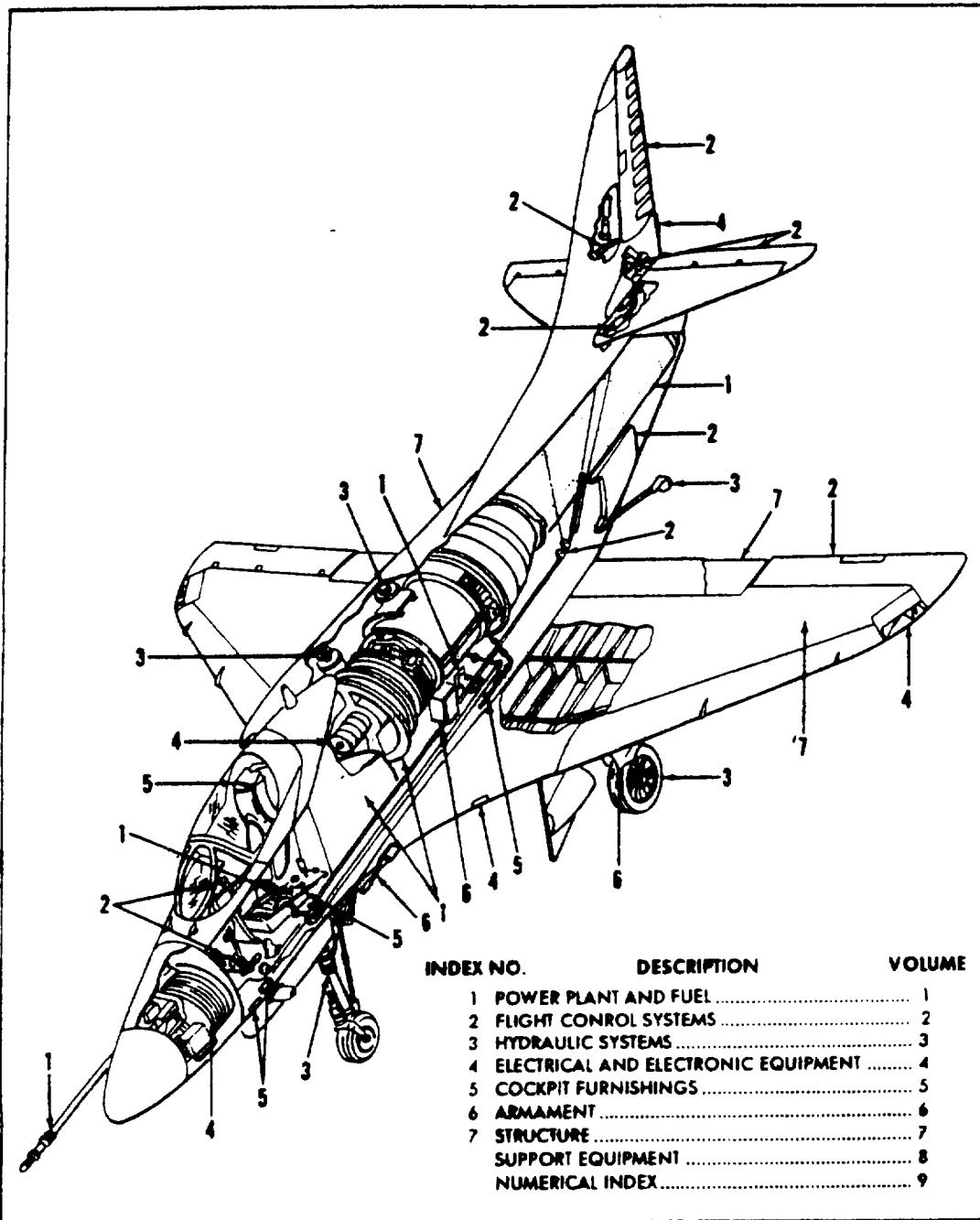
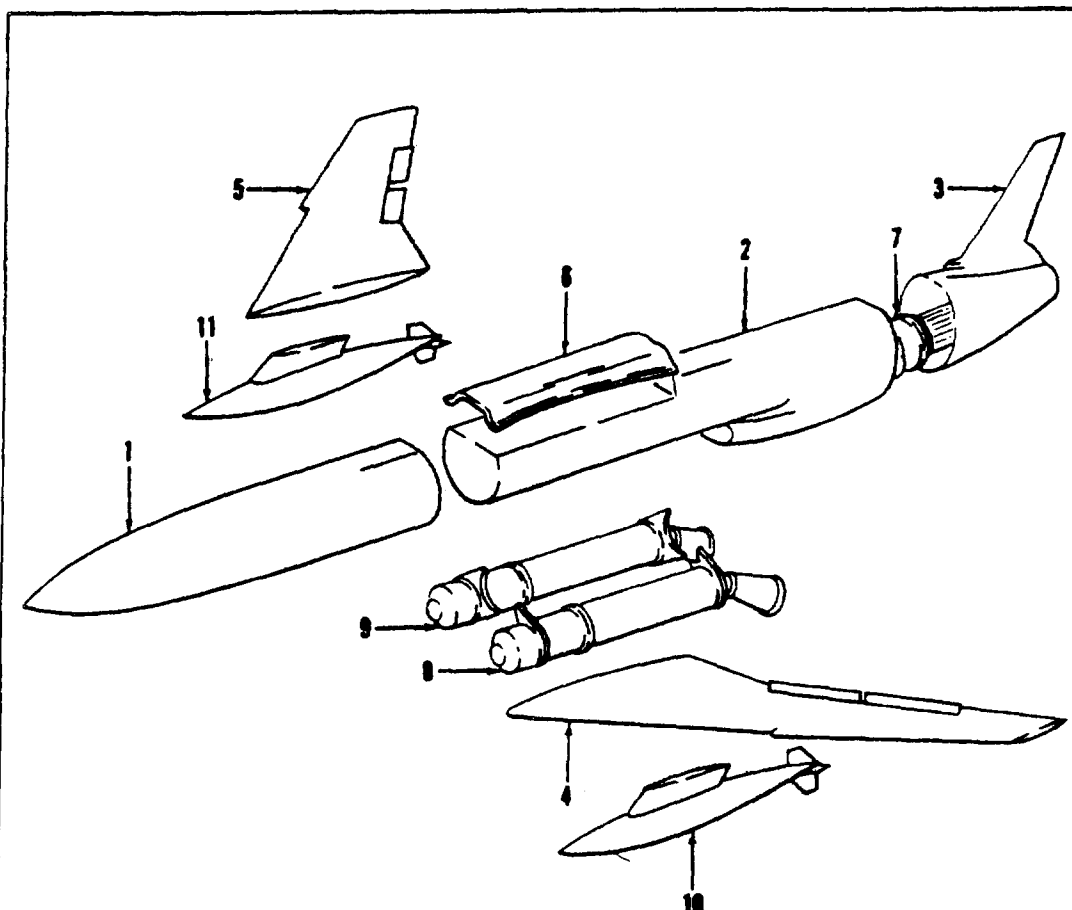
Section II  
Group Assembly Parts List

Figure 1. Aircraft Complete

2-1

Figure 3. Typical Assembled View of Complete Aircraft (System)

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Section II  
Group Assembly Parts List

INDEX NO.	DESCRIPTION	FIGURE NO.
1	FORWARD SECTION FUSELAGE .....	2
2	AFT SECTION FUSELAGE .....	14
3	EMPENNAGE .....	27
4	LEFT - HAND WING .....	35
5	RIGHT - HAND WING .....	35
6	CENTER WING COVER .....	42
7	POWER PLANT .....	48
8	LEFT - HAND BOOSTER .....	56
9	RIGHT - HAND BOOSTER .....	56
10	LEFT - HAND FUEL PYLON .....	75
11	RIGHT - HAND FUEL PYLON .....	75

Figure 1. Missile General Assembly

2-1

Figure 4. Typical Exploded View of Missile Airframe (Main Groups)

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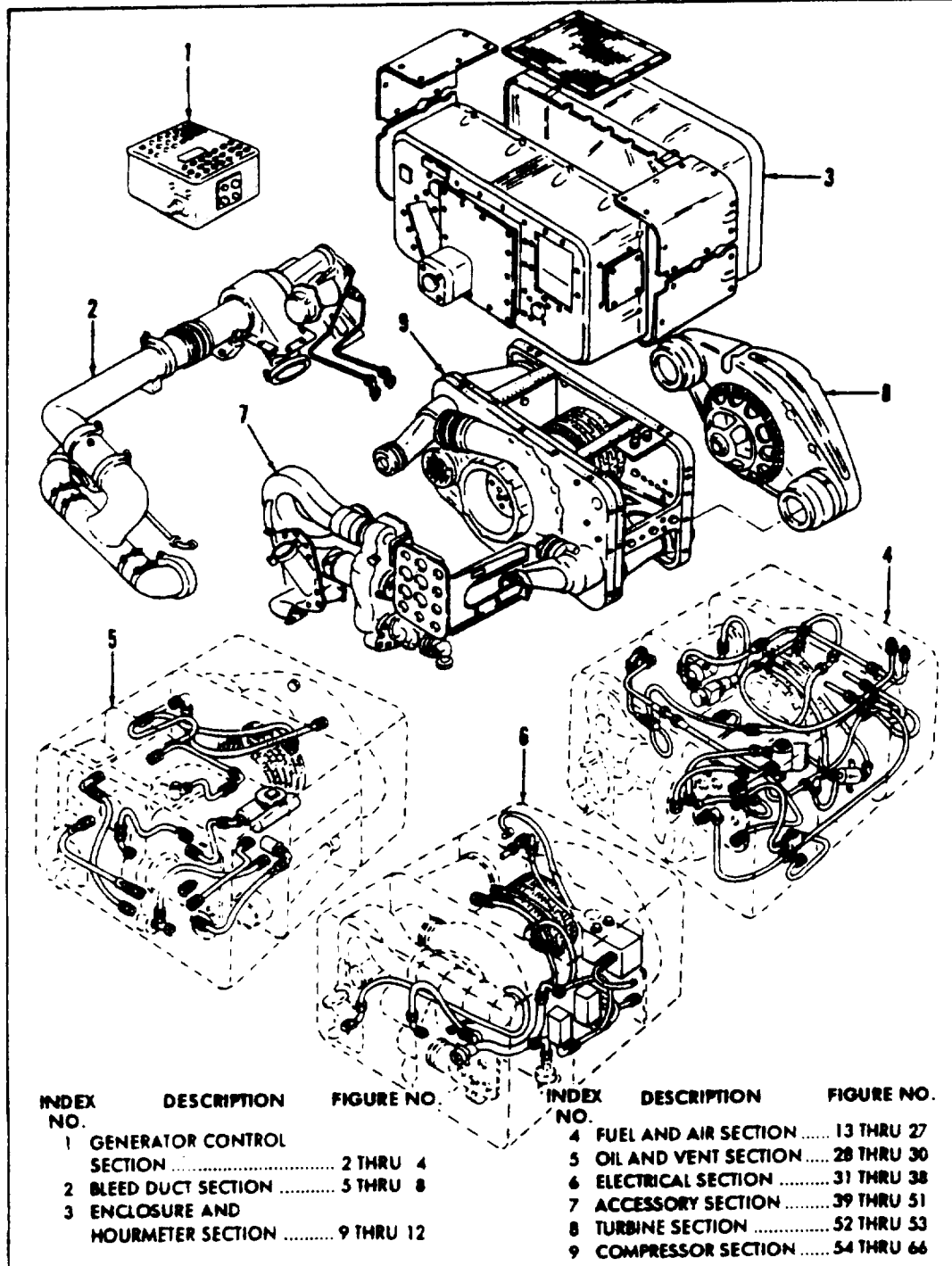
Section II  
Group Assembly Parts List

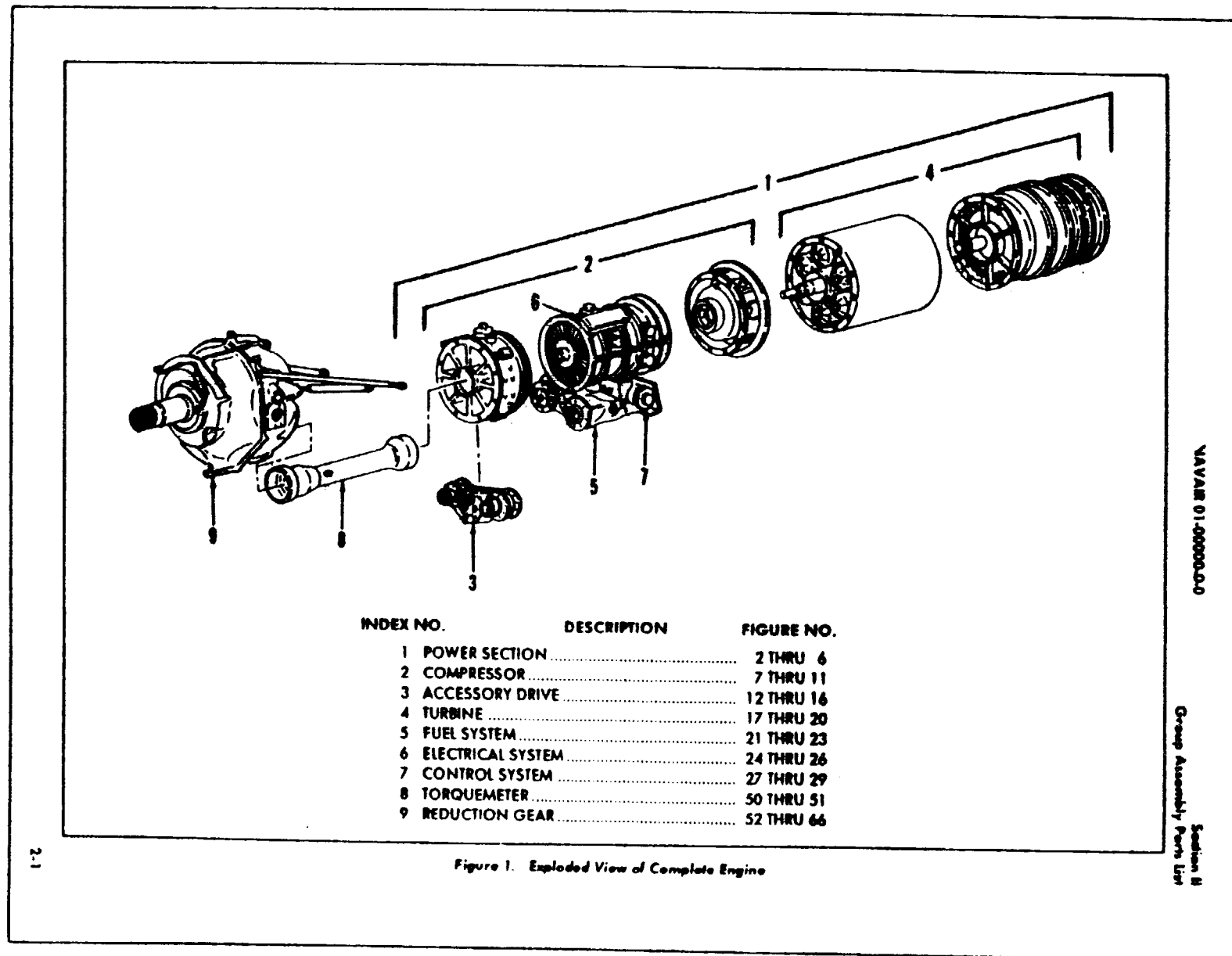
Figure 1. Exploded View of Complete Enclosed Gas Turbine Compressor

2-1

Figure 5. Typical Exploded View of Accessory Equipment



Figure 4. Typical Exploded View of Complete Engine (Main Groups)



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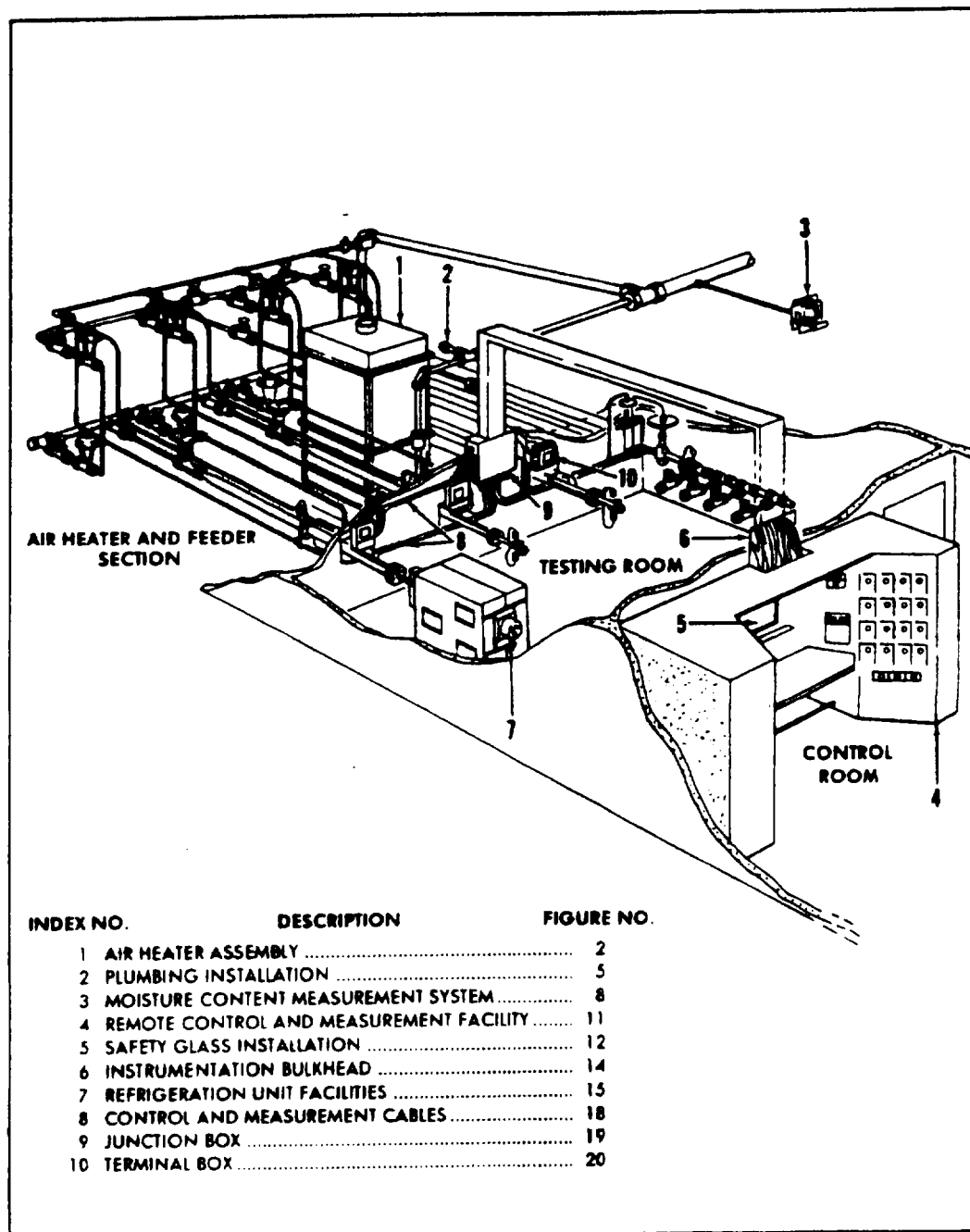
Section II  
Group Assembly Parts List

Figure 1 Air Turbine Test Facility

2-1

Figure 7. Typical Exploded View of Real Property Installed Equipment (System)

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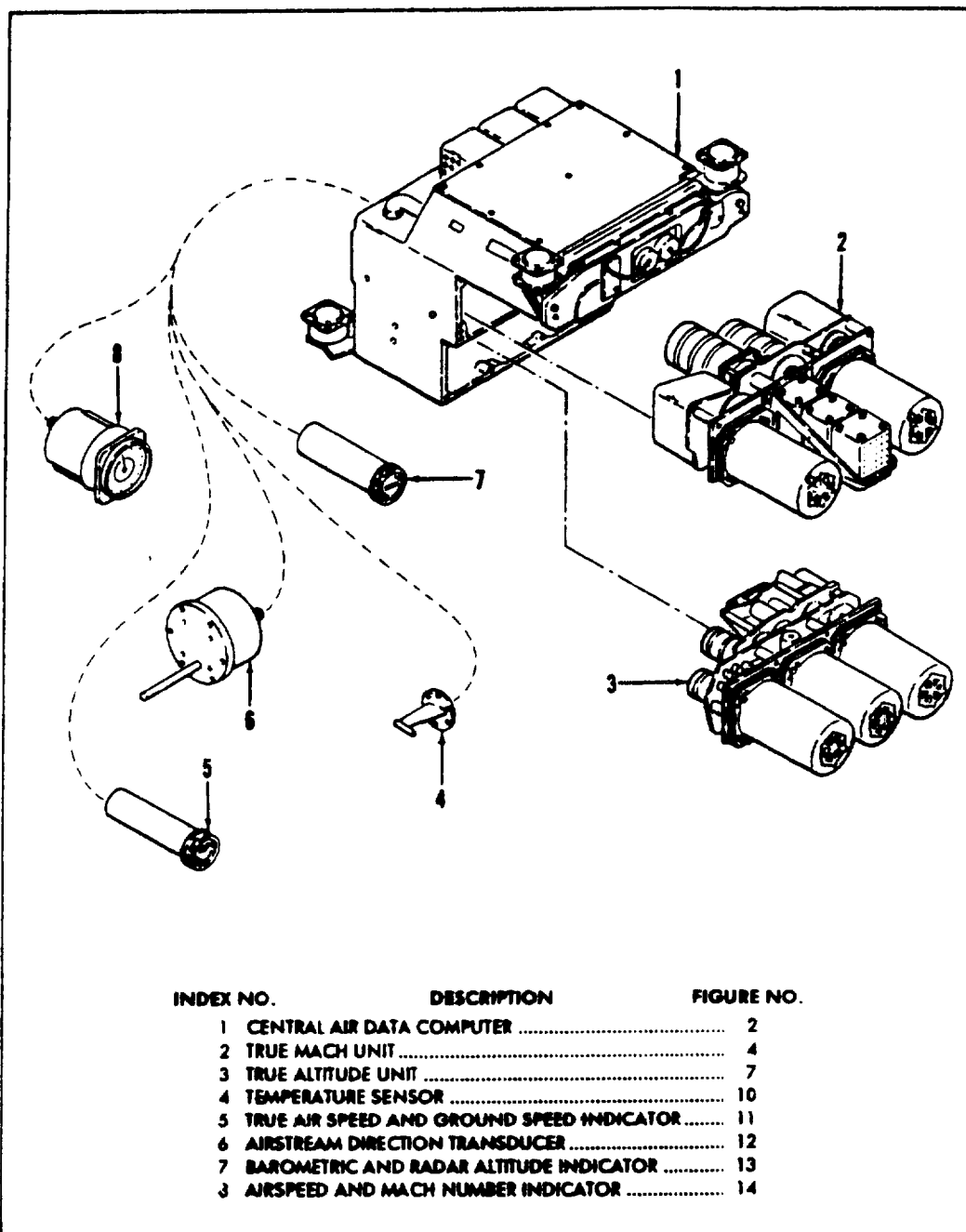
Section II  
Group Assembly Parts List

Figure 1. Central Air Data Computer System

2-1

Figure 8. Typical Exploded View of Electronic Equipment (System)

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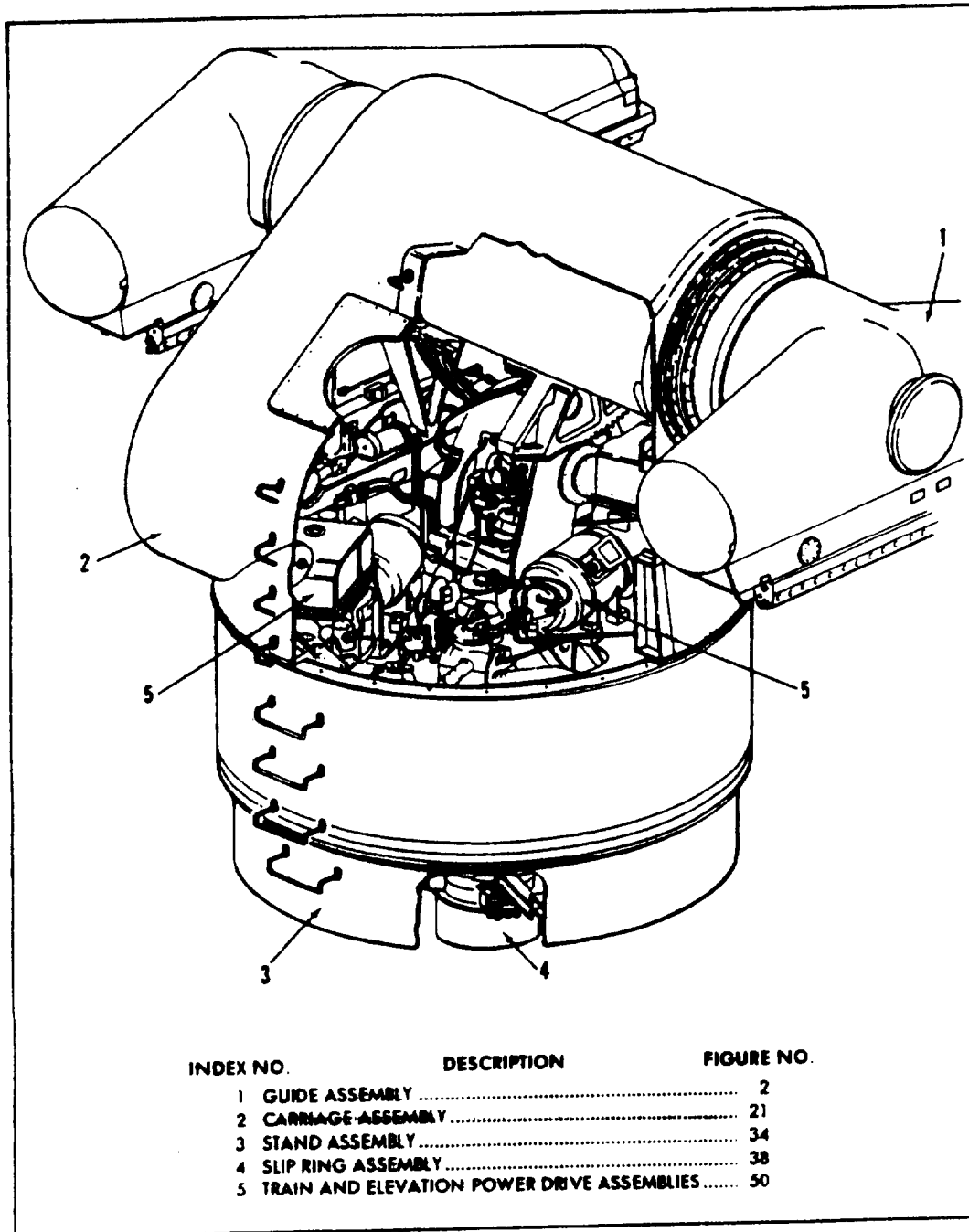
Section II  
Group Assembly Parts List

Figure 1. MK 00 Launcher

2-1

Figure 9. Typical View of Armament Equipment (System)

Section II  
Group Assembly Parts List

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FIG. (R) & INDEX NO	PART NO	1 2 3 4 5 6 7	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
			<b>SPEED BRAKES</b>		
59	760217L		FLAP INSTL LH DIVE BRAKE (SEE FIG. 263 FOR NHA)	1	
59	760217M		FLAP INSTL RH DIVE BRAKE (SEE FIG. 263 FOR NHA)	1	
59	761752		YOKE ASSY DIVE FLAP	1	
			(ATTACHING PARTS)		
59- 2	AN381-3-20		PIN (KFP)	1	
59- 3	AN310-8		NUT	1	
59- 4	726223		WASHER DIVE FLAP (KF)	1	
59- 5	726224		WASHER DIVE FLAP YOKE (KF)	2	
59- 6	726226-3		SPACER DIVE FLAP (KF)	2	
59- 7	726226-4		SPACER DIVE FLAP (KF)	2	
59- 8	726231		BOLT DIVE FLAP	1	
			.....		
59- 9	761751-3		YOKE DIVE FLAP	1	
59- 9	726079-3		BUSHING DIVE FLAP	2	
59- 10	MS18001-1		FITTING (KFP)	2	
59- 11	726229		LOCK DIVE FLAP YOKE PIN	2	
			(ATTACHING PARTS)		
59	NAS679A3		NUT (KFP)	2	
59	AN960D1C		WASHER (KFP)	2	
59	NAS623-3-3		SCREW (KFP)	2	
			.....		
59- 12	726230		PIN DIVE FLAP YOKE	2	
59- 13	726228		LOCK DIVE FLAP CYL PIN	1	
			(ATTACHING PARTS)		
59	NAS679A3		NUT (KFP)	1	
59	AN960D10		WASHER (KFP)	1	
59	NAS623-3-8		SCREW (KFP)	1	
			.....		
59- 14	726227		PIN DIVE FLAP CYL	1	
59- 15	760217-3L		FLAP ASSY LH DIVE (PARTS KITS AVAILABLE)	1	
59	760217-3R		FLAP ASSY RH DIVE (PARTS KITS AVAILABLE)	1	
59- 16	750370		ROLLER DIVE FLAP TRACK (KDF- USE UNTIL EXHAUSTED)	2	AA
59	780646-1L		ROLLER DIVE FLAP TRACK (ALTERNATE FOR 750370)	2	AM
			(ATTACHING PARTS)		
59- 17	AN384-1216		NUT (KBP)	2	
59- 18	AN960D1216		WASHER (KBP)	2	
59- 19	NAS460-1216		WASHER (KBP)	2	
59- 20	726226		SPACER TRACK ROLLER (KF)	2	
			.....		
59- 21	762245L		FRAME ASSY LH DIVE FLAP	1	
59- 22	762245R		FRAME ASSY RH DIVE FLAP	1	
59- 23	726257-1		BUSHING DIVE FLAP FRAME (KD)	2	
59- 23	726257-4		BUSHING DIVE FLAP FRAME (KD)	2	
59- 24	MS18001-1		FITTING (KFP)	4	
59- 25	ASCT909T6-2		LOCKBOLT 1296641 (KDI)	20	
59	ASCT909T6-3		LOCKBOLT 1296641 (KDI)	23	AD
59	ASCT909T6-4		LOCKBOLT 1296641 (KDI)	20	K
59- 25	MS18001-4		FITTING (KBP)	1	
59	AN7510-7		NAMEPLATE (KBP)	1	
59	216530-1		PARTS KIT DIVE FLAP ASSY FIELD	1	
59	216530-3		PARTS KIT DIVE FLAP ASSY OVERHAUL LH	1	
59	216530-4		PARTS KIT DIVE FLAP ASSY OVERHAUL RH	1	
59	762162L		CYLINDER INSTL DIVE FLAP LH (SEE FIG. 263 FOR NHA)	1	
59	762162R		CYLINDER INSTL DIVE FLAP RH (SEE FIG. 263 FOR NHA)	1	
59- 26	7551		DIVE FLAP ACTUATING (LOCKNEED 1000) (7030 ALTERNATE FOR 7551) (ED SPEC 840000-31 (SEE Y O 9H3-4-3-241))	1	AA
			(ATTACHING PARTS)		
59	AN381-3-24		PIN	2	
59	AN320-8		NUT	2	
59	AN960D816		WASHER (2 USED WITH NAS1108-18D)	2	
59- 27	NAS1108-18D		BOLT	1	
59- 28	NAS1108-18D		BOLT	1	

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(EXAMPLE OF EAM EQUIPMENT PREPARATION)

Figure 10. Typical Group Assembly Parts List (Visual Indentation)

ML-M-008910A(AS)

Section II  
Fuselage Structure

NAVAR 08-00000-0-0

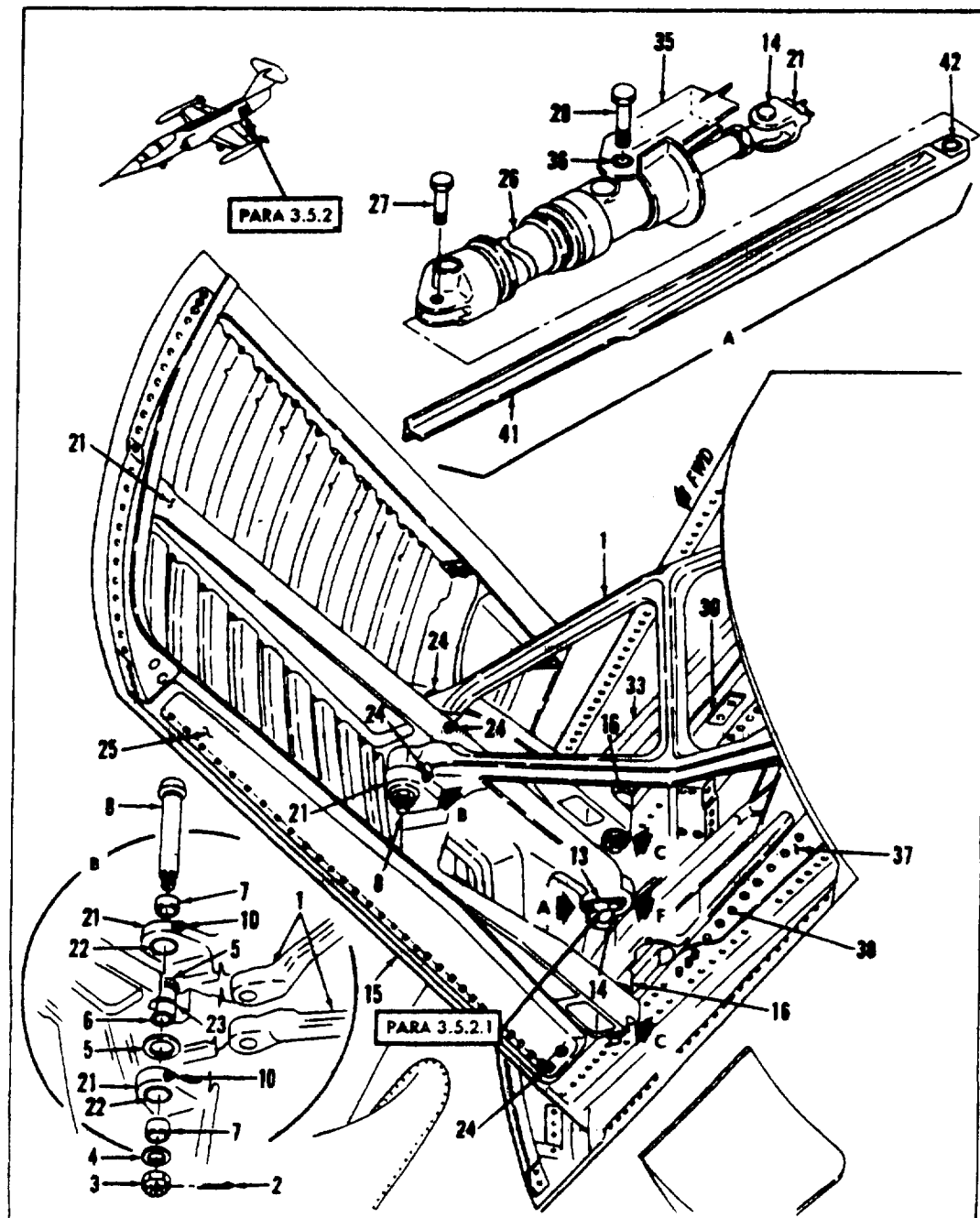
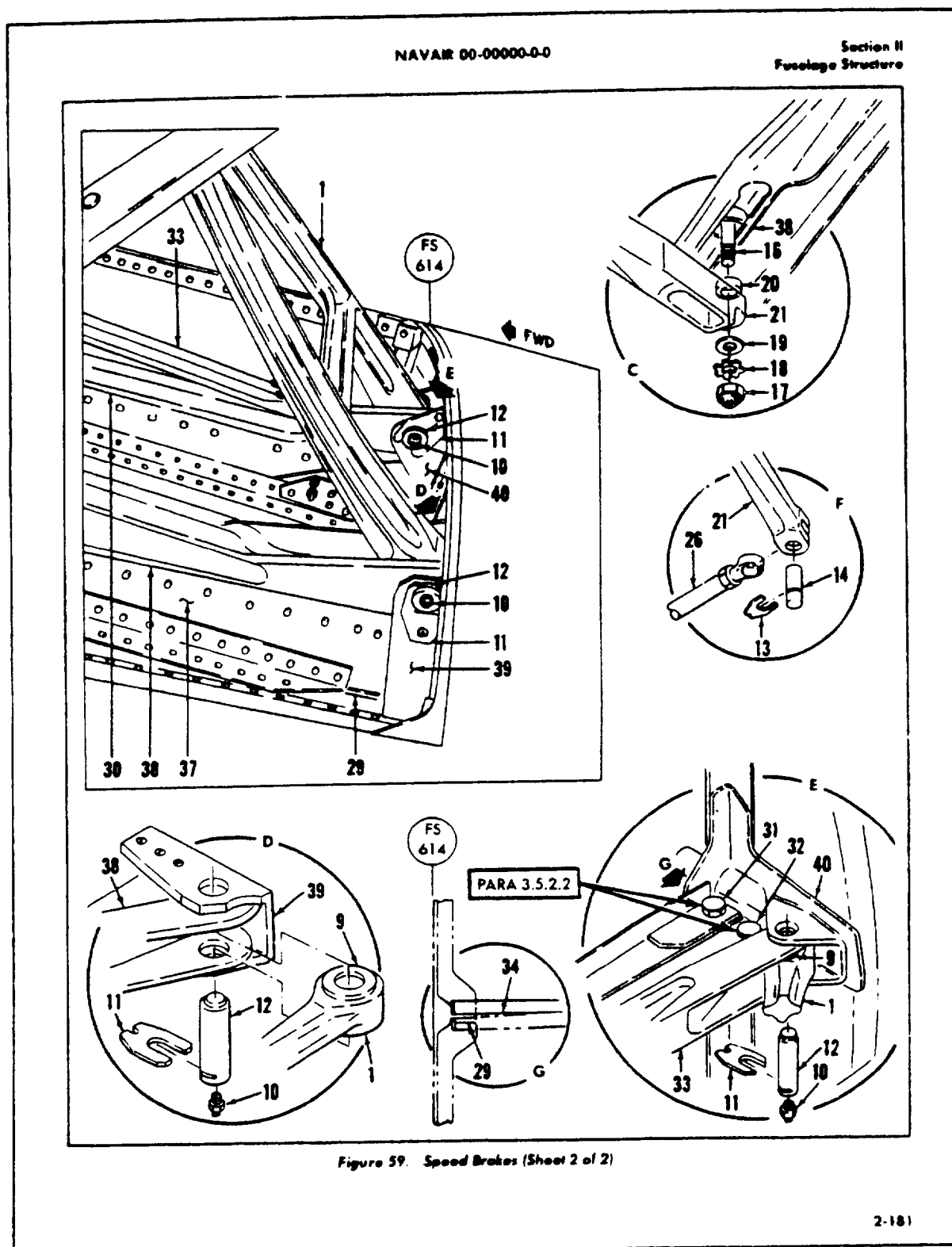


Figure 59. Speed Brakes (Sheet 1 of 2)

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Figure 11. Typical Illustration (Sheet 1 of 2)





**Figure 11. Typical Illustration (Sheet 2 of 2)**

MIL-M-000910A(AS)

NAVAIR 00-000-0										Section II Fuselage Structure	
FIGURE & INDEX NO.	PART NO.	1	2	3	4	5	6	7	DISCRIPTION	UNITS PFR ASSY	ISARL ON (OD)
50-	761349L								STRUCTURE INSTL DIVE FLAP (SEE FIG. 203 FOR NNA)	1	
50-	761349R								STRUCTURE INSTL DIVE FLAP (SEE FIG. 203 FOR NNA)	1	
50- 20	761701								SHIM DIVE FLAP UPPER TRACK BOLT	1	
50-	761349-L								STRUCTURE ASSY DIVE FLAP LH	1	
50-	761349-R								STRUCTURE ASSY DIVE FLAP RH	1	
50- 30	761465-L								TRACK ASSY DIVE FLAP UPPER LH	1	
50-	761465-R								TRACK ASSY DIVE FLAP UPPER RH (ATTACHING PARTS)	1	
50-	AN200-3								PIN	1	
50-	AN200-4-1								PIN	1	
50-	AN200-5								NUT	1	
50-	AN200-10								BOLT	1	
50- 31	AN200-10-30								BOLT	1	
50- 32	NAB679-10-14								BOLT	1	
50- 33	761131L								TRACK FLAP UPPER LH	1	
50-	761131R								TRACK FLAP UPPER RH	1	
50- 34	761657L								SHIM DIVE FLAP UPPER TRACK	1	
50-	761657R								SHIM DIVE FLAP UPPER TRACK	1	
50-	761349-L								STRUCTURE ASSY DIVE FLAP LH	1	
50-	761349-R								STRUCTURE ASSY DIVE FLAP RH	1	
50-	761349-L								PANEL ASSY BACK LH	1	
50-	761349-R								PANEL ASSY BACK RH	1	
50- 35	761257								SUPPORT ASSY DIVE FLAP CYL	1	
50- 36	726002-4								BUSHING DIVE FLAP	2	
50- 37	761465-L								TRACK ASSY DIVE FLAP LOWER LH	1	
50-	761465-R								TRACK ASSY DIVE FLAP LOWER RH	1	
50- 38	761132L								TRACK FLAP LOWER LH	1	
50-	761132R								TRACK FLAP LOWER RH	1	
50- 39	761250L								FITTING LOWER FLAP TRACK LH	1	
50-	761250R								FITTING LOWER FLAP TRACK RH (ATTACHING PARTS)	1	
50-	NAB679A-4								NUT	3	
50-	NAB679A-4								WASHER	3	
50-	NAB679-4-9								SCREW	2	
50-	NAB679-4-9								SCREW	1	
50- 40	761223L								FITTING ENG SIDE HT LH (SEE FIG. 203 FOR NNA)	REF	AD
50-	761223R								FITTING ENG SIDE HT LH (SEE FIG. 203 FOR NNA)	REF	N
50-	761223R								FITTING ENG SIDE HT RH (SEE FIG. 203 FOR NNA)	REF	AD
50-	761223-L								FITTING ENG SIDE HT RH (SEE FIG. 203 FOR NNA)	REF	N
50-	761223-L								SUPPORT INSTL DIVE FLAP CYL LH (SEE FIG. 203 FOR NNA)	1	
50-	761223-R								SUPPORT INSTL DIVE FLAP CYL RH (SEE FIG. 203 FOR NNA)	1	
50- 41	761220L								SUPPORT ASSY DIVE FLAP CYL LH	1	
50-	761220R								SUPPORT ASSY DIVE FLAP CYL RH	1	
50- 42	726002-3								BUSHING DIVE FLAP CYL SUP	1	

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(EXAMPLE OF SAM EQUIPMENT PREPARATION)

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(EXAMPLE OF EAM EQUIPMENT PREPARATION)

Figure 12. Typical Group Assembly Parts List (Visual Indentation)

MIL-M-008910A(AS)

NAVAIR 98-800.0				Section H Fuselage Structure	
FIGURE & INDEX NO	PART NO	INDENT	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
59	760217L	1	SPEED BRAKES	1	
59	760217R	2	FLAP INSTL LH DIVE BRAKE (SEE FIG. 283 FOR NHAI)	1	
		3	FLAP INSTL RH DIVE BRAKE (SEE FIG. 283 FOR NHAI)	1	
59	1	4	(ATTACHING PARTS)	1	
59	761752	5	YOKE ASSY DIVE FLAP	1	
59	AN301-3-20	6	PIN (IKFP)	1	
59	AN310-8	7	NUT	1	
59	726223	8	WASHER DIVE FLAP (IKFI)	1	
59	726224	9	WASHER DIVE FLAP YOKE (IKFI)	2	
59	726226-3	10	SPACER DIVE FLAP (IKFI)	2	
59	726226-4	11	SPACER DIVE FLAP (IKFI)	2	
59	726231	12	BOLT DIVE FLAP	1	
59	761752-3	13	YOKE DIVE FLAP	1	
59	726079-3	14	BUSHING DIVE FLAP	2	
59	MS18001-1	15	FITTING (IKFP)	2	
59	726229	16	LOCK DIVE FLAP YOKE PIN	2	
		17	(ATTACHING PARTS)	1	
59	NAS679A3	18	NUT (IKFP)	2	
59	AN860D10	19	WASHER (IKFP)	2	
59	NAS623-3-5	20	SCREW (IKFP)	2	
59	726230	21	PIN DIVE FLAP YOKE	2	
59	726228	22	LOCK DIVE FLAP CYL PIN	1	
		23	(ATTACHING PARTS)	1	
59	NAS679A3	24	NUT (IKFP)	1	
59	AN860D10	25	WASHER (IKFP)	1	
59	NAS623-3-8	26	SCREW (IKFP)	1	
59	726227	27	PIN DIVE FLAP CYL	1	
59	760217-3L	28	FLAP ASSY LH DIVE (PARTS KITS AVAILABLE)	1	
59	760217-3R	29	FLAP ASSY RH DIVE (PARTS KITS AVAILABLE)	1	AA
59	760370	30	ROLLER DIVE FLAP TRACK (KDF) (USE UNTIL EXHAUSTED)	2	
59	760646-1	31	ROLLER DIVE FLAP TRACK (ALTERNATE FOR 760370)	2	AM
		32	(ATTACHING PARTS)	1	
59	AN304-1216	33	NUT (IKBP)	2	
59	AN860D1216	34	WASHER (IKBP)	2	
59	NAS660-1216	35	WASHER (IKBP)	2	
59	726225	36	SPACER TRACK ROLLER (IKFI)	2	
59	762246L	37	FRAME ASSY LH DIVE FLAP	1	
59	762246R	38	FRAME ASSY RH DIVE FLAP	1	
59	726267-3	39	BUSHING DIVE FLAP FRAME (KDI)	2	
59	726267-4	40	BUSHING DIVE FLAP FRAME (KDI)	2	
59	MS18001-1	41	FITTING (IKBP)	4	
59	ASCT809T6-2	42	LOCKBOLT (29666) (KDI)	26	
59	ASCT809T6-5	43	LOCKBOLT (29666) (KDI)	23	AD
59	ASCT809T6-4	44	LOCKBOLT (29666) (KDI)	59	K
59	MS18001-4	45	FITTING (IKBP)	1	
59	AN7510-2	46	NAMEPLATE (IKBP)	1	
59	216520-1	47	PARTS KIT DIVE FLAP ASSY FIELD	1	
59	216520-2	48	PARTS KIT DIVE FLAP ASSY OVERHAUL LH	1	
59	216520-4	49	PARTS KIT DIVE FLAP ASSY OVERHAUL RH	1	
59	762162L	50	CYLINDER INSTL DIVE FLAP LH (SEE FIG. 283 FOR NHAI)	1	
59	762162R	51	CYLINDER INSTL DIVE FLAP RH (SEE FIG. 283 FOR NHAI)	1	
59	7551	52	CYLINDER ASSY DIVE FLAP ACTUATING (LOCKHEED SPEC 668008-17834 ALTERNATE FOR 7551)	1	AA
		53	LOCKHEED SPEC 668008-3 (178662) (SEE T.O. 942-4-63-24)	1	
		54	(ATTACHING PARTS)	1	
59	AN301-3-24	55	PIN	2	
59	AN320-3	56	NUT	2	
59	AN860D816	57	WASHER 12 USED WITH NAS1108-180	2	
59	NAS1108-180	58	BOLT	1	
59	NAS1108-38D	59	BOLT	1	

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(EXAMPLE OF EAM EQUIPMENT PREPARATION)

Figure 13. Typical Group Assembly Parts List (Coded Indentation)

MIL-M-008910A(AS)

Section II  
Fuselage Structure

NAVAIR 00-000-0

FIGURE & INDEX NO	PART NO	INDENT	DESCRIPTION	UNITS PER ASSY	USABLE ON (OD)
59- 20	761349-	2	STRUCTURE INSTL DIVE FLAP (SEE FIG. 203 FOR NHAI)	1	
59- 20	761349R	2	STRUCTURE INSTL DIVE FLAP (SEE FIG. 203 FOR NHAI)	1	
59- 29	761701	3	SHIM DIVE FLAP UPPER TRACK BOLT	1	
59- 29	761349-3L	3	STRUCTURE ASSY DIVE FLAP LH	1	
59- 29	761349-3R	3	STRUCTURE ASSY DIVE FLAP RH	1	
59- 30	761404-3L	4	TRACK ASSY DIVE FLAP UPPER LH	1	
59- 30	761404-3R	4	TRACK ASSY DIVE FLAP UPPER RH	1	
			(ATTACHING PARTS)		
59- 30	AN280-3-5	4	PIN	1	
59- 30	AN280-4-5	4	PIN	1	
59- 30	AN220-8	4	NUT	1	
59- 30	AN220-10	4	NUT	1	
59- 31	NAS464P-10	4	BOLT	1	
59- 32	NAS464P-10-16	4	BOLT	1	
59- 33	761131L	5	TRACK FLAP UPPER LH	1	
59- 33	761131R	5	TRACK FLAP UPPER RH	1	
59- 34	761657L	5	SHIM DIVE FLAP UPPER TRACK	1	
59- 34	761657R	5	SHIM DIVE FLAP UPPER TRACK	1	
59- 34	761349-4L	4	STRUCTURE ASSY DIVE FLAP LH	1	
59- 34	761349-4R	4	STRUCTURE ASSY DIVE FLAP RH	1	
59- 34	761349-7L	5	PANEL ASSY BACK LH	1	
59- 34	761349-7R	5	PANEL ASSY BACK RH	1	
59- 35	761287	6	SUPPORT ASSY DIVE FLAP CYL	1	
59- 36	726002-4	7	BUSHING DIVE FLAP	2	
59- 37	761405-3L	4	TRACK ASSY DIVE FLAP LOWER LH	1	
59- 37	761405-3R	4	TRACK ASSY DIVE FLAP LOWER RH	1	
59- 38	761132L	5	TRACK FLAP LOWER LH	1	
59- 38	761132R	5	TRACK FLAP LOWER RH	1	
59- 39	761290L	5	FITTING LOWER FLAP TRACK LH	1	
59- 39	761290R	5	FITTING LOWER FLAP TRACK RH	1	
			(ATTACHING PARTS)		
59- 39	NAS679A6	5	NUT	2	
59- 39	AN260D-46	5	WASHER	2	
59- 39	NAS623-6-5	5	SCREW	2	
59- 39	NAS623-6-9	5	SCREW	2	
59- 40	761223L	2	FITTING ENG SIDE MT LH (SEE FIG. 203 FOR NHAI)	REF	AD
59- 40	776722-1	2	FITTING ENG SIDE MT LH (SEE FIG. 203 FOR NHAI)	REF	AD
59- 40	761223R	2	FITTING ENG SIDE MT RH (SEE FIG. 203 FOR NHAI)	REF	AD
59- 40	776772-2	2	FITTING ENG SIDE MT RH (SEE FIG. 203 FOR NHAI)	REF	AD
59- 40	761222-3L	2	SUPPORT INSTL DIVE FLAP CYL LH (SEE FIG. 203 FOR NHAI)	1	
59- 40	761222-3R	2	SUPPORT INSTL DIVE FLAP CYL RH (SEE FIG. 203 FOR NHAI)	1	
59- 41	761220L	3	SUPPORT ASSY DIVE FLAP CYL LH	1	
59- 41	761220R	3	SUPPORT ASSY DIVE FLAP CYL RH	1	
59- 42	726002-3	4	BUSHING DIVE FLAP CYL SUP	1	

PARA 3.5.1.10

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(EXAMPLE OF EAM EQUIPMENT PREPARATION)

Figure 14. Typical Group Assembly Parts List (Coded Indentation)

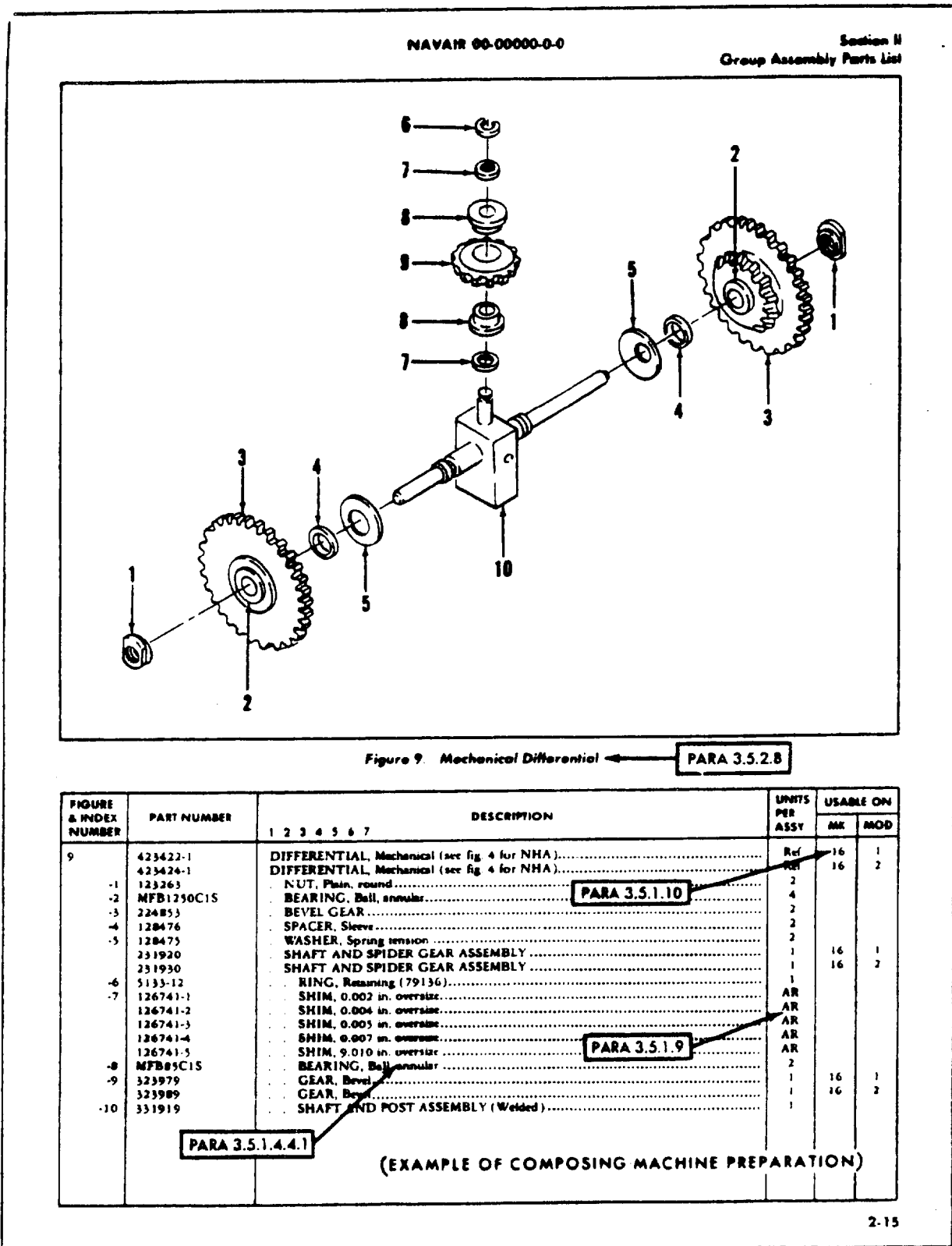


Figure 15. Typical Illustration with Group Assembly Parts List

MIL-M-008910A(AS)

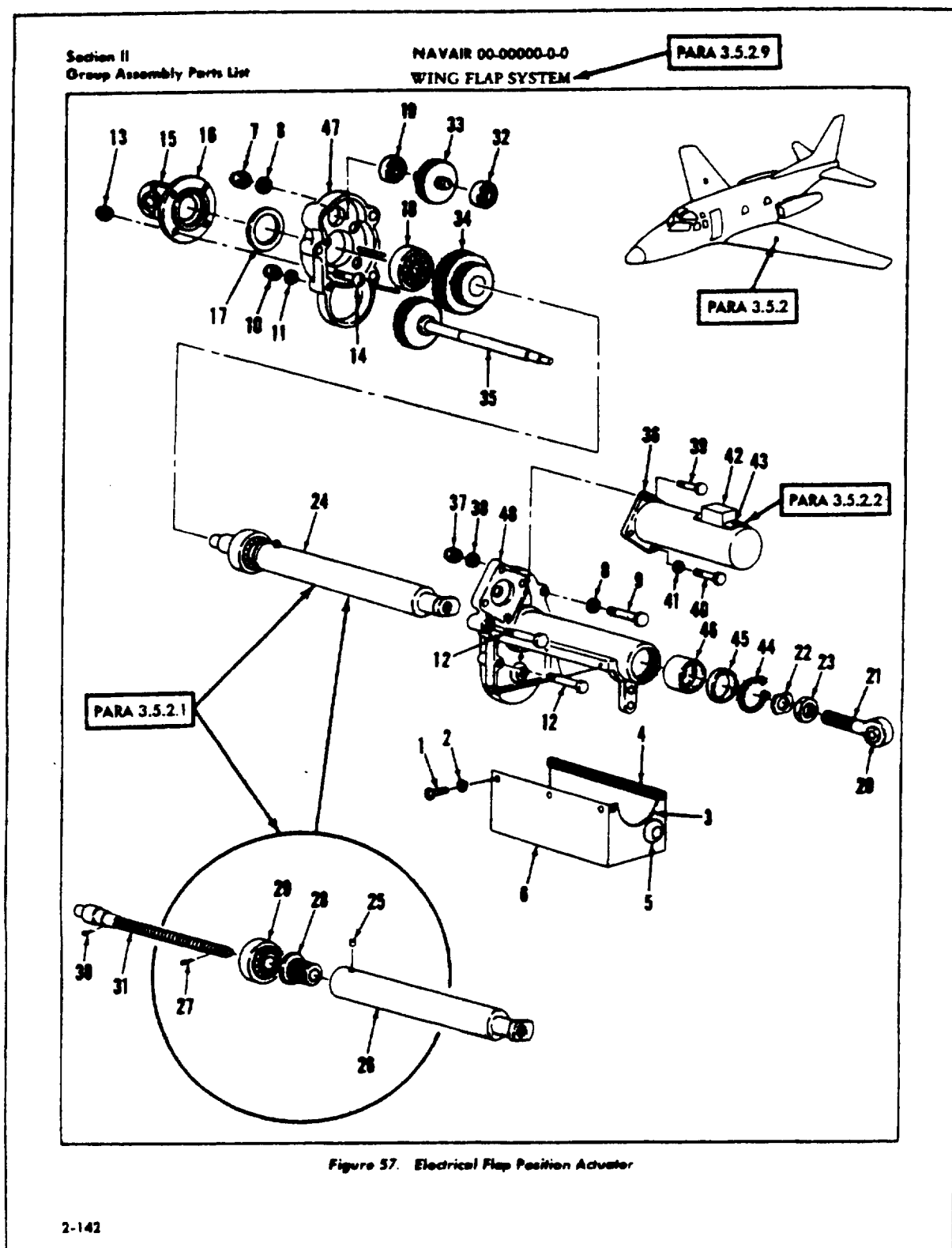


Figure 16. Typical Illustration



NAVAIR 00-000-0							Section II	
WING FLAP SYSTEM							Group Assembly Parts List	
FIGURE & INDEX NUMBER	PART NUMBER	1	2	3	4	5	6	7
								DESCRIPTION
57	274-54701							ACTUATOR, Electrical flap position (also used for 274-54701 (1))
	274-54701 (1)							(see fig. 54 for NHA)
	274-54722							COVER ASSY, Electrical flap position actuator
	274-54723							(ATTACHING PARTS)
1	274-54723 3							SEAL, Electrical flap position actuator cover, end
2	274-54723 7							SEAL, Electrical flap position actuator cover, top
3	274-54723 9							CRUMMET
4								COVER, Electrical flap position actuator
5								NUT
6								WASHER (43999)
7								BOLT
8								NUT
9								WASHER (43999)
10								SCREW
11								NUT
12								SCREW
13								FITTING ASSY, Electrical flap position actuator
14								BEARING
15								FITTING ASSY, Electrical flap position actuator
16								WASHER (43999)
17								BEARING (21333)
18								BEARING (21333)
19								ROD END ASSY, Electrical flap position actuator
20								BEARING
21								ROD END, Electrical flap position actuator
22								WASHER (43999)
23								NUT (43999)
24								RAM ASSY, Electrical flap position actuator (used on 274-54701)
25								RAM ASSY, Electrical flap position actuator (used on 274-54701 (1))
26								PLATE, Electrical flap position actuator guide
								PLATE, Electrical flap position actuator extension
								SCREW ASSY, Electrical flap position actuator extension
								(used on 274-54701)
								SCREW ASSY, Electrical flap position actuator extension
								(used on 274-54701 (1))
27								Pin, Electrical rod end bungee actuator stop
28								NUT, Electrical flap position actuator
29								BEARING (21333)
30								Pin, Electrical flap position actuator stop
31								SCREW, Electrical flap position actuator (used on 274-54701)
32								SCREW, Electrical flap position actuator (used on 274-54701 (1))
33								BEARING (21333)
34								GEAR ASSY, Electrical flap position actuator
35								GEAR, Electrical flap position actuator
36								GEAR, Electrical flap position actuator
37								MOTOR, Electric, 26 vdc, (93003) (North American spec NA-7270-1)
38								(order T U 801 7-20-3 for 60db)
39								(ATTACHING PARTS)
40								NUT
41								WASHER (43999)
42								SCREW
43								WASHER (43999)
44								WASHER (43999)
45								WASHER (43999)
46								WASHER (43999)
47								WASHER (43999)
48								WASHER (43999)

\*1 Matched components must be stocked under NHA

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(EXAMPLE OF COMPOSING MACHINE PREPARATION)

Figure 17. Typical Group Assembly Parts List

MIL-M-008910A(AS)

Section II  
Group Assembly Parts List

NAVAIR 00-00000-0-0

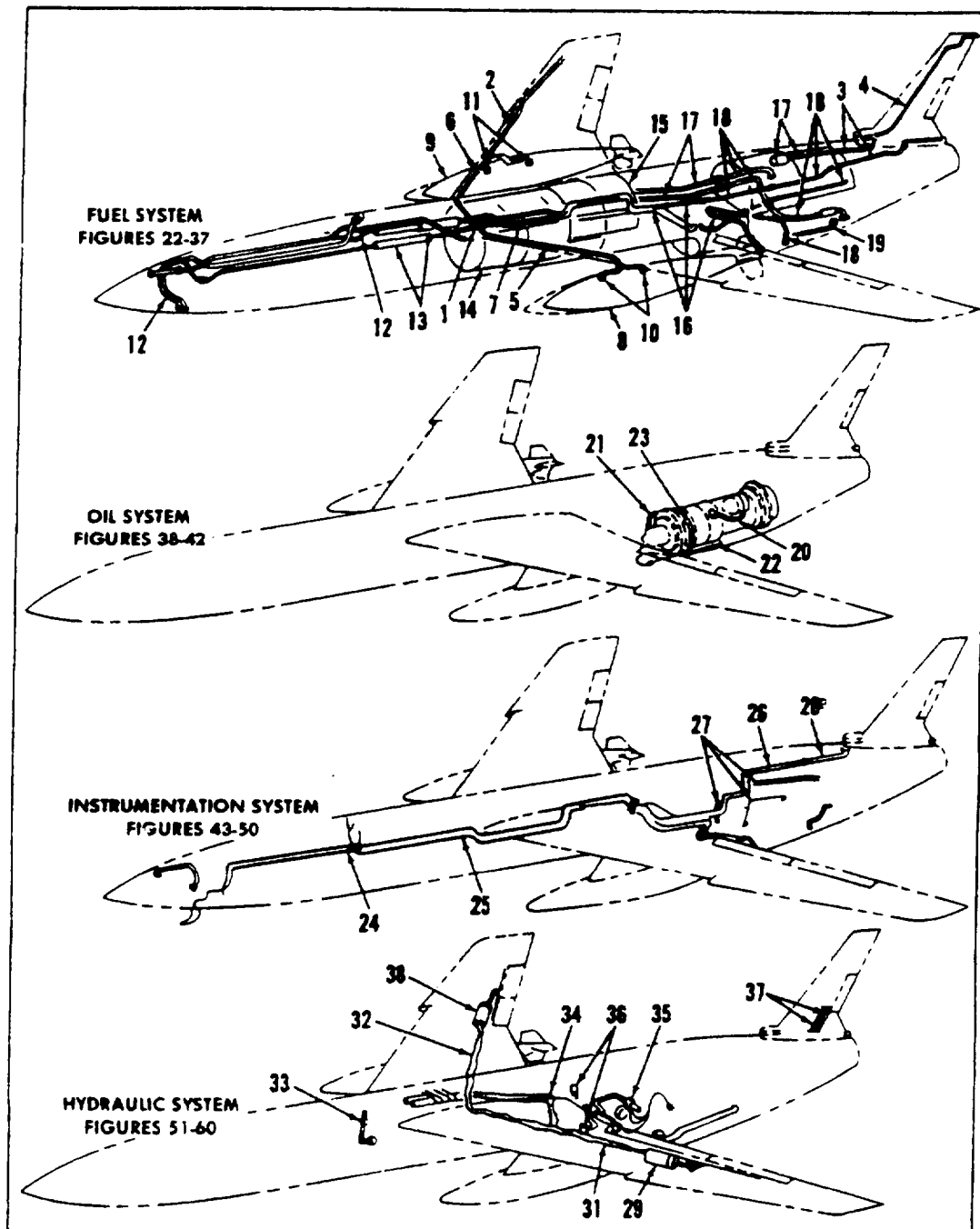


Figure 21. Fluid Systems

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Figure 18. Typical Illustration (Airframe Systems)

NAVAR 00.000-0							Section II Group Assembly Parts List				
FIGURE & INDEX NUMBER	PART NUMBER	1	2	3	4	5	6	7	DESCRIPTION	UNITS PER ASBY	USARL ON CODE
31									FUEL SYSTEM		
1	010000-1								SYSTEM INSTL. Wing complete fuel (see fig. 4 for NHA) (see fig. 29 for details)	REF	
2	010000-2								PLUMBING INSTL. Pylon to wing up fuel (see fig. 4 for NHA) (see fig. 30 for details)	REF	
3	010010-000								PLUMBING INSTL. Fuelage line 751.000 to fuel (see fig. 6 for NHA) (see fig. 31 for details)	REF	
4	010010-1								TUBE INSTL. Venturi manifold fuel vent (see fig. 10 for NHA) (see fig. 32 for details)	REF	
5	010000-1								PLUMBING INSTL. Inboard landing edge down wing fuel LH (see fig. 4 for NHA) (see fig. 33 for details)	REF	
6	010000-2								PLUMBING INSTL. Inboard landing edge down wing fuel RH (see fig. 4 for NHA) (see fig. 34 for details)	REF	
7	010010-3								PLUMBING INSTL. Wing down & breakaway fuel (see fig. 4 for NHA) (see fig. 35 for details)	REF	
8	010000-300								TANK ASBY. Complete pylon LH (see fig. 8 for NHA) (see fig. 36 for details)	REF	
9	010000-300								TANK ASBY. Complete pylon RH (see fig. 8 for NHA) (see fig. 37 for details)	REF	A1-A3
10	010000-300								TANK ASBY. Complete pylon RH (see fig. 8 for NHA) (see fig. 38 for details)	REF	A1 & Subq
11	010000-3								PLUMBING INSTL. Pylon fuel LH (see fig. 8 for NHA) (see fig. 39 for details)	REF	
12	010000-3								PLUMBING INSTL. Pylon fuel RH (see fig. 8 for NHA) (see fig. 40 for details)	REF	
13	010000-3								SYSTEM INSTL. Fuelage line 100.000 to 300.000 forward fuel (see fig. 6 for NHA) (see fig. 41 for details)	REF	
14	010000-3								SYSTEM INSTL. Fuelage line 300.000 to 751.000 forward section fuel (see fig. 6 for NHA) (see fig. 42 for details)	REF	
15	010000-3								CELL INSTL. Fuelage line 300.000 to 400.000 fuel (see fig. 6 for NHA) (see fig. 43 for details)	REF	
16	010000-3								CELL INSTL. Fuelage line 400.000 to 500.000 fuel (see fig. 6 for NHA) (see fig. 44 for details)	REF	
17	010000-3								PLUMBING INSTL. Fuelage line 500.000 to 600.000 fuel (see fig. 6 for NHA) (see fig. 45 for details)	REF	
18	010000-3								CELL INSTL. Fuelage line 600.000 to 751.000 fuel (see fig. 6 for NHA) (see fig. 46 for details)	REF	A1-A4
19	010000-3								PLUMBING INSTL. Fuelage line 751.000 to 1000.000 fuel (see fig. 6 for NHA) (see fig. 47 for details)	REF	A4 & Subq
20	010000-3								SYSTEM INSTL. Fuelage line 1000.000 to 1500.000 fuel (see fig. 6 for NHA) (see fig. 48 for details)	REF	
									OIL SYSTEM		
21	010000-3								SYSTEM INSTL. JETP17 engine oil lubrication (see fig. 14 for NHA) (see fig. 49 for details)	REF	
22	010000-3								SYSTEM INSTL. 60 Kiloohm-ampere burner and drive oil (see fig. 14 for NHA) (see fig. 50 for details)	REF	A1-A3
23	010000-3								SYSTEM INSTL. 60 Kiloohm-ampere constant speed drive oil (see fig. 14 for NHA) (see fig. 51 for details)	REF	A1 & Subq
24	010000-3								COOLER INSTL. Air engine oil (see fig. 14 for NHA) (see fig. 52 for details)	REF	
25	010000-3								SYSTEM INSTL. Engine drains & waste (see fig. 14 for NHA) (see fig. 53 for details)	REF	
									INSTRUMENTATION LINES		
26	010000-3								LINE INSTL. Main instrument (see fig. 6 for NHA) (see fig. 43 for details)	REF	A1-A3
27	010000-3								LINE INSTL. Fuelage forward main instrument (see fig. 6 for NHA) (see fig. 44 for details)	REF	A1 & Subq
28	010000-3								LINE INSTL. Fuelage line 647.000 to 751.000 LH inboard instrument (see fig. 6 for NHA) (see fig. 45 for details)	REF	
29	010000-3								LINE INSTL. 60 main instrument (see fig. 10 for NHA) (see fig. 46 for details)	REF	
30	010000-3								LINE INSTL. 60 main instrument (see fig. 10 for NHA) (see fig. 47 for details)	REF	
									HYDRAULIC SYSTEM		
31	010000-3								HYDRAULIC INSTL. Outer wing LH (see fig. 4 for NHA) (see fig. 54 for details)	REF	
32	010000-3								HYDRAULIC INSTL. Outer wing RH (see fig. 4 for NHA) (see fig. 55 for details)	REF	
33	010000-3								HYDRAULIC INSTL. Outer wing inboard trailing section LH (see fig. 4 for NHA) (see fig. 56 for details)	REF	A1-A3
34	010000-3								HYDRAULIC INSTL. Outer wing inboard trailing section RH (see fig. 4 for NHA) (see fig. 57 for details)	REF	A1-A3
35	010000-3								HYDRAULIC INSTL. Main system (see fig. 6 for NHA) (see fig. 58 for details)	REF	
36	010000-3								SYSTEM INSTL. Forward landing hydraulic (see fig. 6 for NHA) (see fig. 59 for details)	REF	
37	010000-3								HYDRAULIC INSTL. AB landing (see fig. 10 for NHA) (see fig. 60 for details)	REF	
38	010000-3								HYDRAULIC INSTL. Jetstream control LH (see fig. 10 for NHA) (see fig. 61 for details)	REF	
39	010000-3								HYDRAULIC INSTL. Jetstream control RH (see fig. 10 for NHA) (see fig. 62 for details)	REF	
40	010000-3								HYDRAULIC INSTL. Venturi stabilizer (see fig. 10 for NHA) (see fig. 63 for details)	REF	A1-A7

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(EXAMPLE OF COMPOSING MACHINE PREPARATION)

Figure 19. Typical Group Assembly Parts List (Airframe Systems)

MIL-M-008910A(AS)

Section II  
Group Assembly Parts List

NAVAIR 00-00000-0-0

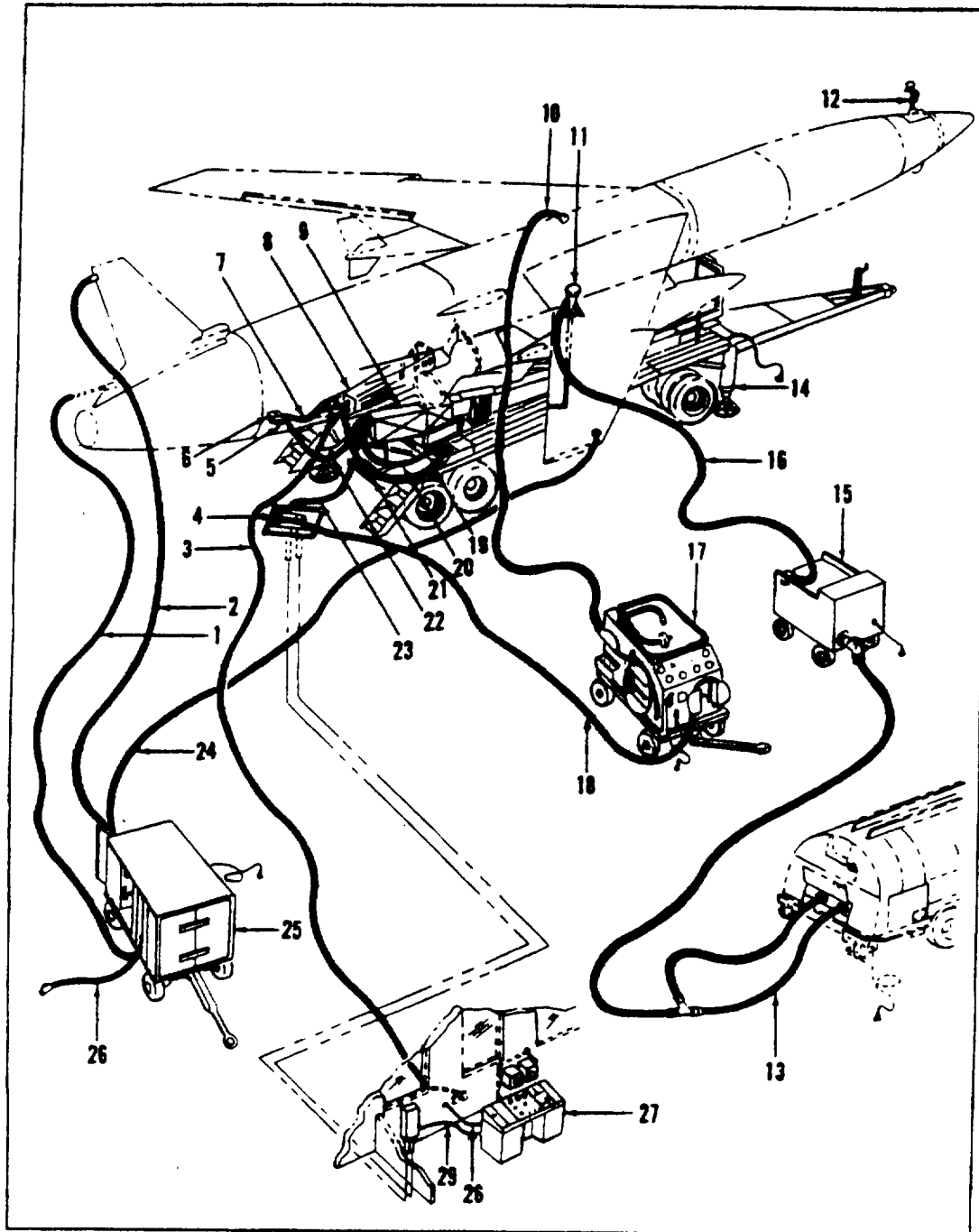


Figure 371. Operational Special Support Equipment (Missile Fueling)

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Figure 20. Typical Illustration (Operational Special Support Equipment)

MH-A-008910A(AS)

NAVAIR 00-008-0				Section II	
				Group Assembly Parts List	
FIGURE & INDEX NUMBER	PART NUMBER	1 3 3 6 6 7	DESCRIPTION	UNITS PER ASBY	TABLE ON CODE
271-1	000000-04		ROSE ASBY, Fuel pump (12045) (see Fig. 272 for details).....	1	
2	000000-16		ROSE, Valve, water/steam/air (00000) (see Fig. 272 for details).....		
3	N01000-7		CABLE, Engine control.....		
4	N01100-2		SWITCH, Air pressure dual electrical system (see T. O. 0000-00-0 for details).....		
5	N07000-1		UNIMILICAL, Element, No. 1 (see Fig. 272 for details).....		
6	N07000-2		UNIMILICAL, Element, No. 2 (see Fig. 272 for details).....		
7	N00001-001		CABLE, Unimilical No. 1 & No. 2 (see Fig. 272 for details).....		
8	N00010-3		SWITCHBOX, AC (see T. O. 0000-00-0 for details).....		
9	N00010-4		SWITCHBOX, DC (see T. O. 0000-00-0 for details).....		
10	N17000-1		MOSE, Air, high pressure (see Fig. 274 for details).....		
11	N00001-0		MOSELE, Fuel, single point (see Fig. 274 for details).....		
12	N00000-0		MOSE MANNING AND ROSEVELL ASBY (see T. O. 0000-00-0 for details).....		
13	N00000-1		ROSE ASBY, F-2 Fuel supply (see Fig. 276 for details).....		
14	N0701-001		MOBILE LAUNCHER (see T. O. 0000-00-0 for details).....		
15	N10001-1		TRAILER, Fueling adapter (see T. O. 0000-00-0 for details).....		
16	N17000-2		FUEL LINE (see Fig. 275 for details).....		
17	N10000-1		TRAILER, Fuel system support (see T. O. 0000-00-0 for details).....		
18	N10000-2		MOSE, Air supply (see T. O. 0000-00-0 for details).....		
19	N17000-001		TEST SET, Fueling control (see T. O. 0000-00-0 for details).....		
20	N17700-1		CABLE ASBY, Special purpose, electrical, fueling adapter (see Fig. 276 for details).....		
21	N17701-1		CABLE ASBY, Special purpose, electrical, fueling adapter (see Fig. 276 for details).....		
22	N00000-001		CABLE ASBY, Special purpose, electrical, unimilical No. 1 (see Fig. 276 for details).....		
23	N00000-001		CABLE ASBY, Special purpose, electrical, unimilical No. 2 (see Fig. 276 for details).....		
24	N00000-002		ROSE, Fuel vent, right hand, also 1A & 1F (see Fig. 277 for details).....		
25	N10000-1		TRAILER, Fuel system, fuel system (see T. O. 0000-00-0 for details).....		
26	N10000-1000		ROSE, Fuel system adapter, fuel system (see Fig. 277 for details).....		
27	N01000-001		CONTROL, CONSOLE, Engine (see T. O. 0000-00-0 for details).....		
28	N00000-0		CABLE, Engine control, lower cabinet (see Fig. 276 for details).....		
29	N00000-7		CABLE, Engine control, lower cabinet (see Fig. 276 for details).....		

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(EXAMPLE OF COMPOSING MACHINE PREPARATION)

Figure 21. Typical Group Assembly Parts List (Operational Special Support Equipment)

NWM-008910A(AS)

Section II  
Power Plant

NAVAIR 00-00000-0-0

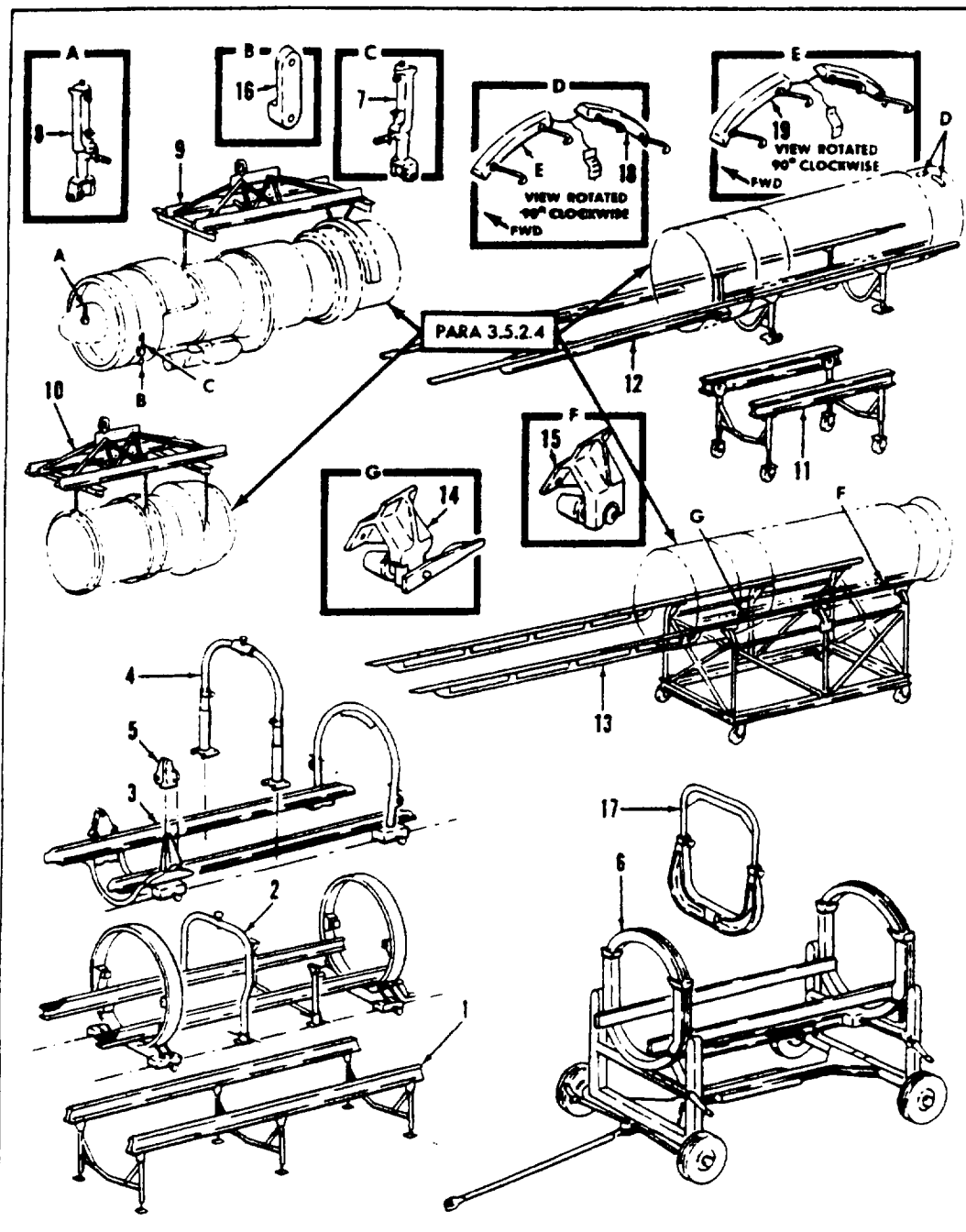


Figure 21. 175 Engine Special Support Equipment

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Figure 22. Typical Illustration (Maintenance Special Support Equipment)

ML-A-000910A(AS)

NAVAIR 00-000-0							Section II Power Plant		
FIGURE & INDEX NO	PART NO	1	2	4	5	6	DESCRIPTION	UNITS PER ASSY	USABLE ON (CODE)
									FROM TO
21-							JTS ENGINE SPECIAL SUPPORT EQUIPMENT		
21- 1	MMU4E						STAND ASSY ENGINE WORK	1	
21- 2	0-96165						ADAPTER KIT ENGINE REMOVAL STAND (SEE FIG. 22 FOR BREAKDOWN)	1	
21- 3	0-96030-1						ADAPTER KIT ENGINE AND SHROUD REMOVAL (SEE FIG. 23 FOR BREAKDOWN)	1	
21- 4	0-96030-3						ADAPTER KIT SUPPORT SHROUD REMOVAL (SEE FIG. 24 FOR BREAKDOWN)	1	
21- 5	0-96030-5						ADAPTER KIT FITTING TRANSPORTATION AND GROUND TEST RUN-UP (SEE FIG. 25 FOR BREAKDOWN)	1	
21- 6	SE1012-003						STAND ASSY ENGINE HANDLING (SEE T.O. 3503-2-20-4 FOR BREAKDOWN)	1	
21- 7	0-96041-1						BRACKET ASSY ROLLER FORWARD ENGINE LH (SEE FIG. 26 FOR BREAKDOWN)	1	
21- 8	0-96041-2						BRACKET ASSY ROLLER FORWARD ENGINE RH (SEE FIG. 27 FOR BREAKDOWN)	1	
21- 9	SE0945-005						SLING ASSY ENGINE HANDLING (SEE FIG. 28 FOR BREAKDOWN)	1	
21-10	SE0945-001						SLING ASSY ENGINE HANDLING (SEE FIG. 29 FOR BREAKDOWN)	1	
	SE0945-003						SLING ASSY ENGINE HANDLING ALTERNATE (SEE FIG. 30 FOR BREAKDOWN)	1	
21-11	MMU3E						STAND ASSY SHROUD HANDLING	1	
21-12	0-96167						ADAPTER KIT SHROUD HANDLING (SEE FIG. 31 FOR BREAKDOWN)	1	
21-13	0-96046						ADAPTER ASSY ENGINE SHROUD HANDLING (SEE FIG. 32 FOR BREAKDOWN)	1	
21-14	0-96047-7						BRACKET ASSY ROLLER CANNULAR SHROUD FWD (SEE FIG. 33 FOR BREAKDOWN)	1	
21-15	0-96047-9						BRACKET ASSY ROLLER CANNULAR SHROUD AFT (SEE FIG. 34 FOR BREAKDOWN)	1	
21-16	0-96067-179						CLAMP ENGINE REMOVAL	1	
21-17	0-96069						ADAPTER ASSY ENGINE HOISTING (SEE FIG. 35 FOR BREAKDOWN)	1	
21-18	0-96174						WEDGE ASSY ENGINE SHROUD POSITIONING (SEE FIG. 36 FOR BREAKDOWN)	1	
21-19	0-96200						WEDGE ASSY ENGINE SHROUD ALIGNMENT (SEE FIG. 37 FOR BREAKDOWN)	1	

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(EXAMPLE OF EAM EQUIPMENT PREPARATION)

Figure 23. Typical Group Assembly Parts List (Maintenance Special Support Equipment)



MIL-M-008910A(AS)

Section III  
Numerical Index

NAVAR 00-000-0

PART NUMBER	FIGURE AND INDEX NUMBER	CODES			PART NUMBER	FIGURE AND INDEX NUMBER	CODES			PART NUMBER	FIGURE AND INDEX NUMBER	CODES		
		SOURCE	RECOVER	KIT			SOURCE	RECOVER	KIT			SOURCE	RECOVER	KIT
INDICATOR SYNC	8-41-6	PI	C		M9900767	1-4-18	PI	R		P140014	8-14-26	PI	C	
INDICATOR THER	8-36-3	PI	C			2-3-3				P140060	8-11-3	PI	C	
INDICATOR VAR	2-4-2	PI	C			2-4				P10975	7-3-19	PI	C	
M8000-4	2-6-26	F	C			2-4				P10000	2-13-84	P		
M8000-5	6-9-16	F	C			2-9-44				P10643	2-26-11			
M8001	4-7-32					2-9-11	PI	R		P200	4-6-33	M	R	
M8002					N122	6-12-11	F	R		P201	6-4-37	KD	R	
M8010					N1704	7-15-37	M	R		P21612	7-11-7	KD	R	
M8016					N2143060	8-4-4	M	C		P22BR	2-9-25	X2	C	
M8017					N2143060	5-18-19	KD	C		P22005	2-28-9	X2	C	
M8018-1	6-7-39	KDF	C		N26413	6-21-23	KDF	C		P220216	2-6-17			
M8018-2	5-5-62	KDF	R		N26416	6-44-82	PI			P260312	4-13-3	X1	C	
M8019-1	7-1-3				N27	3-32-46	PI			P27	3-15-11	PI	C	
M8019-2	7-7-6				N28004	3-1-6					7-8-14	P	R	
M8064395	6-1-4	M	C		N24613	5-11-16	P				7-9	P	R	
M8064396	8-20-94	P	C		N246460	6-13-18	P				3-56-1	P	C	
M8064399	8-37-6	KD	R		N74833	7-18-1	M				6-33-29			
M806483	6-9-4				N76C34	7-37-42					5-18-36	X1		
M80651	1-4-7	PI	R		N84077	4-113-3	C			P6432	7-4-21	M		
M80652	2-19-15	PI	R		N84078	4-113-66	X1	C		P64AC	1-18-40	M1	C	
M80657	2-17-13				N84089	1-18-10	X1	R		P68316	7-3-9	PI		
	4-18					1-18-47				P68064	5-2-16	PI	R	
	6-36-1					3-8-27				P8	4-11-4			
M80658	5-16-13	KD	C		N99043	1-8-3	M1	R		P803C4	3-15-24	P		
	3-4				P8004	7-15-10	P2	C		P806C4	3-4-4			
	4-16-4				P8009-1	3-21-36	P2	R		P806C6	1-14-7	P2	C	
M80684	6-8-37	F	C		P8009-2	5-18-64	M	R		P84006	1-14-8	X1	R	
	8-7-43				P8041	7-12-16	PI	C		P86	6-11-2	X1	C	
	9-6-14				P8080	7-8-11				P8078	2-14-3	M	C	
M80685-43	6-16-33	PI	C		P136214	8-7-14	P	C		P8900	3-18-6	M	C	
					P1400	5-29-31	PI	C						

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Figure 24. Typical Numerical Index Page

## NAVAIR 00-000-0

Section IV  
Reference Designation Index

REFERENCE DESIGNATION	FIGURE AND INDEX NUMBER	PART NUMBER	REFERENCE DESIGNATION	FIGURE AND INDEX NUMBER	PART NUMBER	REFERENCE DESIGNATION	FIGURE AND INDEX NUMBER	PART NUMBER
C101	10	8313415-515	C6006	17-11	88876-1	C6411	25-31	841784-4
C102	14	8313415-527	C6009	14-33	887853-1	C6401	7-14	801-489-6
C103	24	8313415-514	C6012	22-19	H120031-6	C6402	20-11	88716-12
C201	23	8313415-516	C6014	51-11	C100987-11	C6403	16-13	88716-10
C202	11	8313415-528	C6015	49-13	88876-2			
C301	22-11	8313415-532	C6016	49-28	8854321-4			
C304	16	8313415-526	C6017	20-16	910981-31			
C401	47-10	8313415-512	C6018		120031-8			
C402	30-13	8313415-529	C6110		76-6			
C501	40-76	8313415-530	C6111		H19-32			
C601	22-9	8313415-523	C6112		11-2004-8			
C602	13	8313415-525	C6113	7-60	793486-1			
C603	22-10	8313415-522	C6114	53-10	89-463-1			
C604 thru C606	22-8	8313415-511	C6126	54-23	H120107-6			
C607	8	8313415-518	C6127	21-9	708861-84			
C608	7	8313415-517	C6164	17-5	C100982-6			
C601	40-1	8611328-501	C6169	31-11	H120031-4			
C1001	36-9	8313415-520	C6170	37-24	H12001-11			
C1101	36-8	8313415-502	C6200	41-21	C10096-4			
C1102	"	8313415-501	C6201	7-35	88876-3			
C6001		5125-501	C6202	7-51	H120031-12			
C6002		3491-501	C6203	13-24	654296			
C6003		3482-501	C6404	12-46	D884926X1			
C6006	22-7	8612263-511	C6409	8-19	H1100609431			
C6007	17-3	K51504	C6410	25-30	88876-10			

Block Type Reference Designation Index

Section IV  
Reference Designation Index

## NAVAIR 00-000-0

REFERENCE DESIGNATION	FIGURE AND INDEX NUMBER	PART NUMBER	REFERENCE DESIGNATION	FIGURE AND INDEX NUMBER	PART NUMBER	REFERENCE DESIGNATION	FIGURE AND INDEX NUMBER	PART NUMBER
360A6 thru 360A18		(Same as 360A5)	360A21R1	3-7	H1209936	360A24R4	7-11	666341-212
360A19	2-15	845752-511	360A21R2	3-9	H1209933	360A24R5	7-9	666341-216
360A19C1 thru 360A19C12	4-11	895009-13	360A21R3	3-11	H1209938	360A24R6	7-5	666341-215
360A19C1 thru 360A19C12	5-7	DM15F361J100VDC	360A21R4	3-8	H1209937	360A24R7	7-13	666341-217
360A19C4		81KB473K	360A21R5	3-6	H1209940	360A24R8	7-12	666341-217
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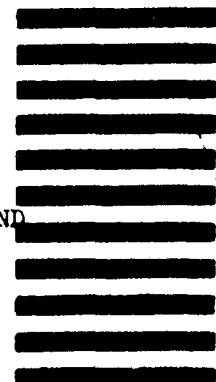
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