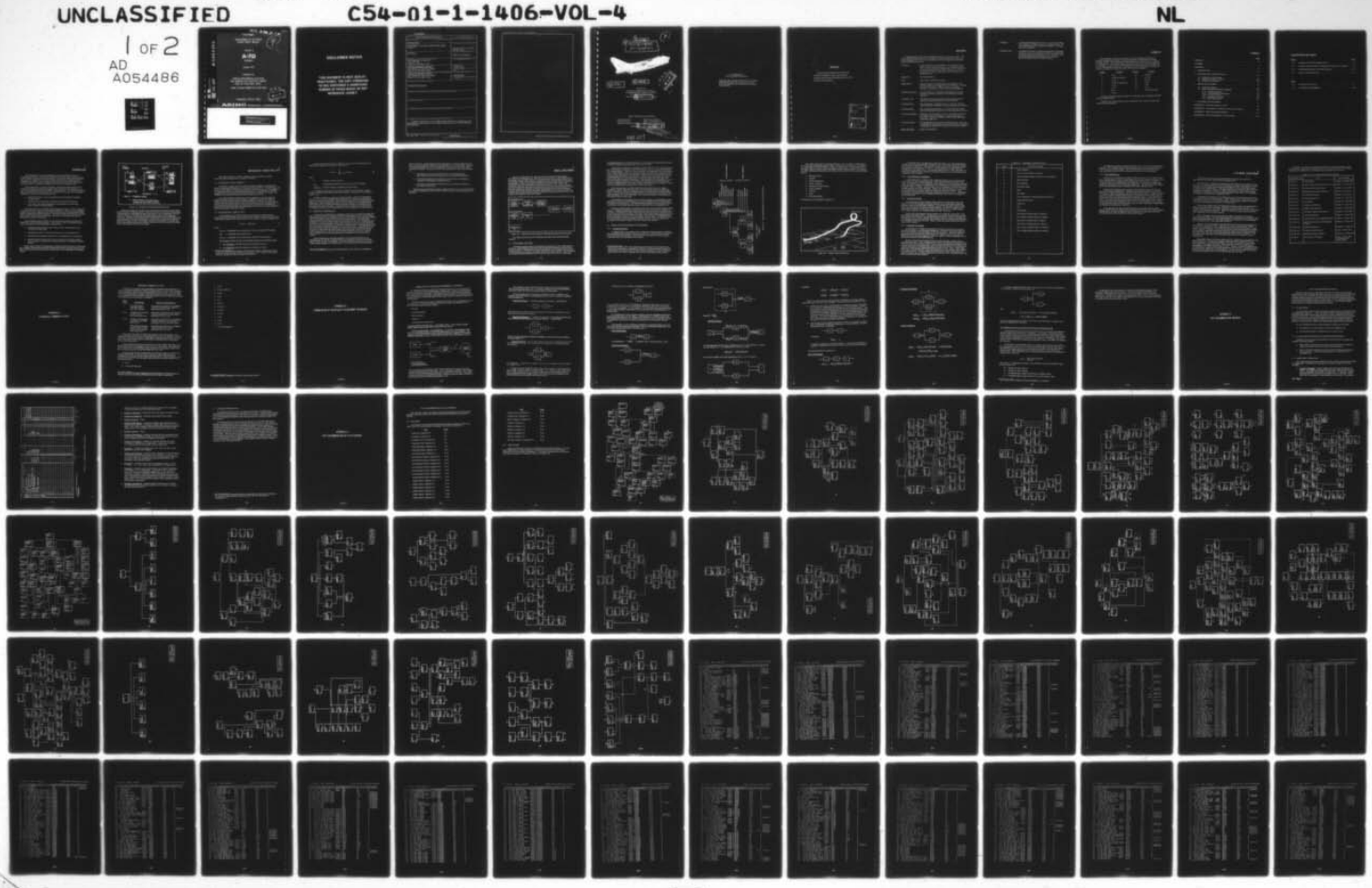
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Final Report

DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS

4

Volume 4

A-7D

AIRCRAFT

October 1975

Prepared for

SERVICE ENGINEERING DIVISION
SAN ANTONIO AIR LOGISTICS CENTER
Kelly Air Force Base, Texas

Under Contract F09603-72-A-1132-SA01

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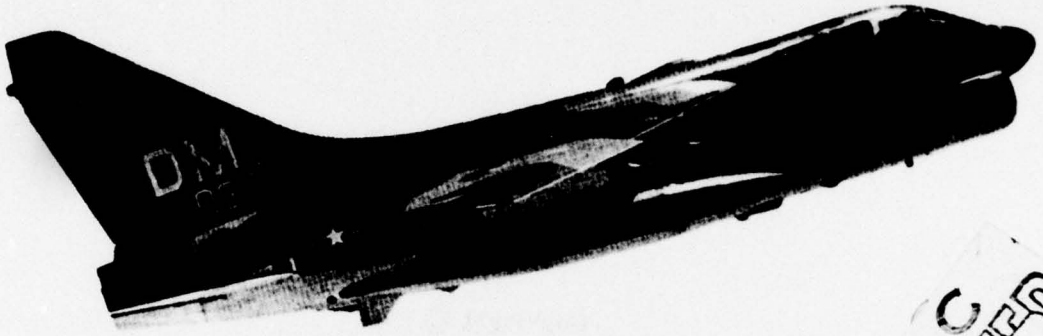
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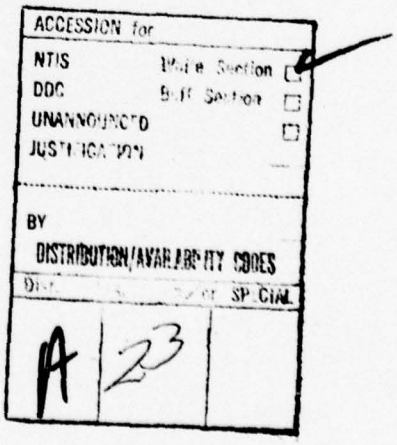
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ABSTRACT

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A general description of the Flight Safety Prediction Technique, and the documentation associated with its specific application to the A-7D aircraft, are presented.

ABSTRACT



GLOSSARY

This glossary presents general definitions of terms used in this report. The reader will find certain of these terms defined in somewhat different words in the text, depending on the context of the discussion; but the meaning will be consistent with the definitions given here.

Criticality	– A numerical index of the significance of equipment failure history relative to aircraft safety. As an analysis parameter, it can be considered proportional to the likelihood that an item will fail and thereby cause an accident. It is the product of the failure probability and the sensitivity of an equipment item.
Dependency	– See link dependency.
FSPT	– Flight Safety Prediction Technique
Flight Phases	– Discrete segments of the aircraft mission profile. For present purposes, the flight phases are defined as 1) startup and taxi, 2) takeoff, 3) climb, 4) cruise, 5) tactics, 6) cruise, 7) descend, 8) land, and 9) taxi and shutdown.
Functional Analysis	– The determination of equipment relationships to aircraft functions performed, and the interrelationships of these functions.
Functional Link	– The simplest form of functional relationship in which one function is dependent upon the next lower function.
Functional Path	– The compilation of functional links, in sequence, through which a function is identified as being dependent upon another.
Link Dependency	– The conditional probability of a dependent function failing, given that a particular function it is dependent upon has failed.
Provisory Condition	– Operation of an aircraft in a mode or environment such that the safety-related importance of certain equipments is increased. Provisory conditions include icing, night flight, supersonic flight, etc.
Provisory Factor	– The probability that a provisory condition exists. Also used to describe the coded notation used to indicate that a functional relationship is dependent on a particular provisory condition.
Safety Sensitivity	– Same as "sensitivity".

Sensitivity – A quantitative indication of the degree of safety degradation to be expected if a function or piece of equipment fails. The more specific terms are "functional sensitivity" or "equipment item sensitivity".

Sensitivity Path – A particular sequence of functional dependencies (beginning at the top level in the hierarchical structure) through which a function or piece of equipment derives a sensitivity value. Equipment and functional sensitivity values are often derived through several such sensitivity paths.

FOREWORD

This document is part of a 16-volume report describing the application to specific aircraft types of ARINC Research Corporation's Flight Safety Prediction Technique (FSPT). The technique was developed under previous Air Force contracts (see Appendix A). The present effort, undertaken in 1972 under Contract F09603-72-A-1132-SA01, has led to further refinement of the FSPT through its broad application to many different types of aircraft. The flight safety models generated for these aircraft are presented in individual volumes of this report as follows:

Volume	Aircraft	Volume	Aircraft
2	T-38	10	B-52G, H
3	F-111A, FB-111A	11	C-130E
4	A-7D	12	KC-135
5	F-4D, E; and RF-4C	13	C-5A
6	C-141	14	T-39
7	A-37	15	F-15
8	O-2	16	UH-1N Helicopter
9	OV-10		

Volume 16 will document the results of a feasibility study of extending the FSPT to rotary-wing aircraft.

Volume 1, an overall summary of the contractual effort, will be issued at the end of the contract period.

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1
INTRODUCTION

The Flight Safety Prediction Technique developed by ARINC Research Corporation provides for assessment of the impact on flight safety of the failure of specific items of equipment within an aircraft. In the FSPT, mathematical modeling procedures are applied for processing aircraft-equipment failure data to yield a quantified index ranking safety-related problems on the basis of their likelihood of occurrence and the resulting degradation in the aircraft's capability to fly.

The ranking factor is called "criticality", which in its simplest form is the product of the failure probability and flight-safety sensitivity of an equipment. (A more detailed definition appears in Section 2 and Appendix B.) The failure probability inputs are from basic failure-data sources, AFM 66-1 and 65-110. The sensitivity estimates are derived by the following process:

a. Systematic analysis of aircraft functions to determine those essential to flight safety

b. Identification of the hardware required to perform these functions

c. Evaluation of the safety significance of the hardware in performing these essential aircraft functions.

The criticality values resulting from this approach provide a relative ranking of all malfunctions with respect to their safety significance. Figure 1-1 is a simplified example of how three equipment items would be ranked on the combined basis of their failure probability and safety sensitivity. This figure illustrates an example in which item A has the highest failure probability, but due to the low sensitivity value is ranked below item B in criticality.

The methodology has the ability to rank malfunction problems currently and continuously by their accident potential. This ranking, based on criticality assessment, can provide the basic parameters necessary for:

a. Identifying equipment items whose failure history and application pose a threat to aircraft safety

b. Quantifying the degree of threat associated with each equipment item

c. Evaluating and tracking the effectiveness of modifications to the aircraft

d. Assessing safety benefits versus the cost of proposed aircraft modifications, changes in maintenance or flight operations, or alternative aircraft designs.

In this report, Section 4 and Appendix D pertain specifically to the A-7D aircraft. The remainder of the document provides support information that will make the A-7D data, and the method by which the data were obtained, more meaningful to the general reader.

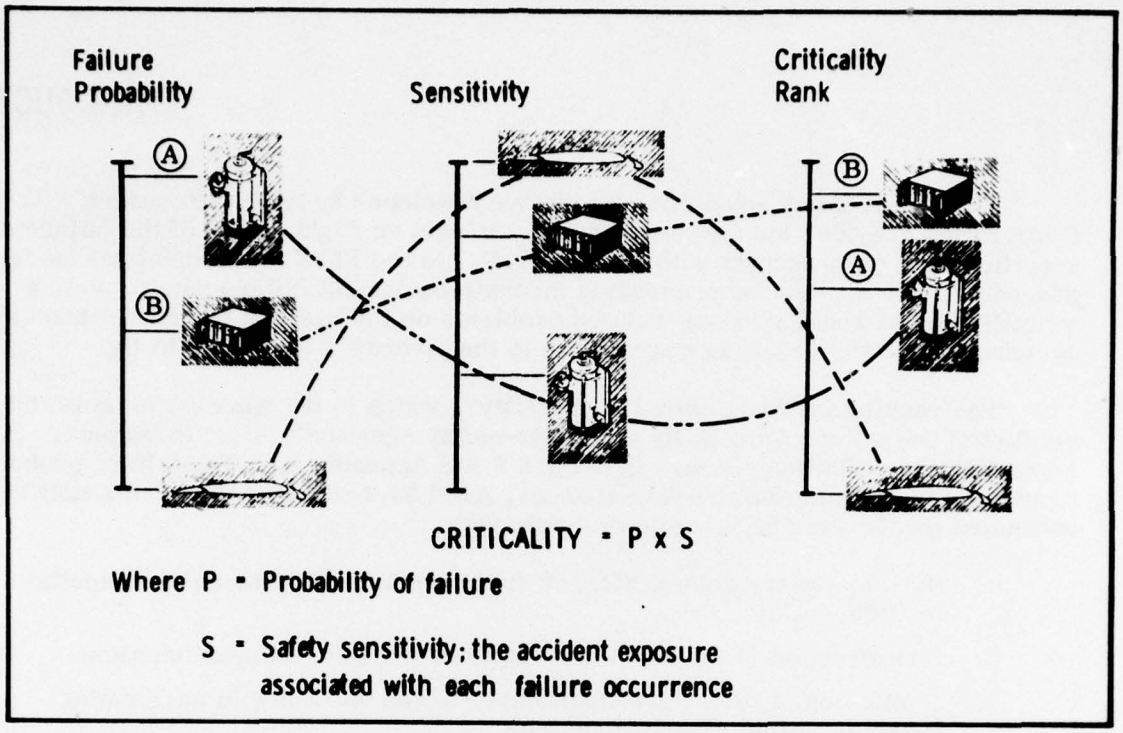


Figure 1-1. Example of Criticality Ranking Process

Section 2 presents an overview of the development and utilization of the Flight Safety Prediction Technique; Section 3 discusses the steps associated with generating a safety model for calculating the safety criticality of various equipments of an aircraft; and Section 4 describes how the safety model for the A-7D aircraft was developed. Appendix A summarizes the contractual history of the development of the FSPT; Appendix B discusses mathematical considerations underlying the technique; Appendix C discusses FSPT documentation methods; and Appendix D presents functional relationship diagrams and a listing of keypunch cards that comprise the safety model documentation for the A-7D aircraft.

2
METHODOLOGY UNDERLYING FSPT

This section discusses the basic definitions and mathematical concepts associated with the Flight Safety Prediction Technique.

2.1 DEFINITION OF SAFE AIRCRAFT

To develop a relative measure of aircraft safety degradation resulting from specific equipment malfunctions, it is first necessary to define a "safe" aircraft. For purposes of the FSPT assessments, an aircraft is assumed to be in a safe condition if it is operating within its prescribed performance limits. Conversely, an aircraft operating (or about to operate) outside these limits is considered to be unsafe – in a condition where property damage and personal injury may result.

The safety prediction methodology does not attempt to assess the extent of possible personal injury or aircraft damage resulting from an unsafe condition. Neither does the concept consider ejection capability, parachutes, life rafts, etc., which do not make an aircraft safer per se but provide for the survivability of the aircrew when the aircraft is unsafe. Collision is also excluded from consideration because of the complexity of the interrelationships between pilot, aircraft equipment, ground surveillance, and traffic density.

2.2 MATHEMATICAL BASIS OF FSPT

The probability of an accident caused by the failure of an element can be expressed as the probability of the element failing multiplied by the conditional probability that the failure of the element will cause an accident. Stated in equation form:

$$P(A, j) = P(j)P(A|j) \tag{1}$$

where

$P(A, j)$ = Probability of an accident due to failure of just the jth element*

$P(j)$ = Probability that element j fails

$P(A|j)$ = Probability of an accident given that the jth element fails.

This equation reflects the basic relationships addressed in the FSPT where:

a. The criticality of the jth element is an estimate of $P(A, j)$

b. The sensitivity of the jth element is an estimate of $P(A|j)$

*In this and subsequent discussions, unless otherwise stated, expressions such as "failure of the jth element" should be interpreted to mean: failure of only the jth element, assuming all other elements are not failed.

Because an element's effect on safety may depend on the mission phase (see Section 3.2.1), the above model can be expanded to:

$$P(A,j) = \sum_{k=1}^{N} P_{j,k}\, P(A|j,k) \qquad (2)$$

where

N = Number of mission phases

$P_{j,k}$ = Probability that the jth element is failed in the kth phase

$P(A|j,k)$ = The jth element's sensitivity in the kth phase.

To identify the importance of discrete elements to aircraft safety, a flight profile consisting of nine distinct phases was defined. The phases are discussed in Section 3.2.1.

To utilize equation 2, it was necessary to develop a method for obtaining the values of $P(A|j,k)$, the probability that a malfunction in element j during mission phase k will result in an accident. This method in turn requires the estimation of two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on subfunctions and elements during each such phase*. Each function and equipment item thus derives its sensitivity value from its relationship to the major function(s) dependent upon it.

2.3 SENSITIVITY ASSIGNMENTS

A great deal of information is available on the causes of aircraft accidents, but little exists from which to make the sensitivity assignments $[P(A|j)]$. These assignments are therefore largely subjective, based on the analyst's knowledge of the system and any information he may have on previous accident history. The sensitivity assigments are reviewed (and revised as necessary) by an Air Force/contractor team working on a particular model to ensure that consistent criteria have been followed. The team review and negotiation of sensitivity assignments is the mechanism by which the value becomes sufficiently objective for use with the model. This negotiation considers all of those top level functions as a group and reassigns sensitivity values as necessary to assure that the most objective proportionality is attained for the particular aircraft model. The same major-function sensitivity values are used for major functions on all aircraft models where configuration and mission profiles permit.

The development of criticality rankings for the various elements (j's) is dependent upon the ability to quantify the failure probability $[P(j)]$ and the element sensitivity $[P(A|j)]$ for each element. Since the intent of the concept is to provide a relative safety ranking of all malfunctions, it is not necessary to develop absolute

*For a more detailed discussion of the mathematics of the FSPT, see Appendix B.

values for $P(A|j)$. If the sensitivity values developed are correct relative to each other, a proper criticality ranking will be established. It is intended that criticality be an index proportional to $P(A,j)$ and therefore provide the same relative rank ordering of elements. The major reasons for proportionality, rather than equality, are:

a. The FSPT does not account for the effect of extraordinary pilot intervention to prevent an accident in case of equipment malfunction.

b. Criticality quantification was limited in its treatment of simultaneous occurrence of independent, primary failures.

c. Operational and malfunction data yield only a proportional estimate of the required information.

While strict proportionality cannot be mathematically proven, it is believed that the criticality rankings provide reasonable relative measures of equipment problem potential.

3
MODEL DEVELOPMENT

Figure 3-1 summarizes the approach to the assessment of flight-safety criticality of aircraft equipment. The first contractor activity is the identification of all functions the aircraft is expected to perform and the determination of their interrelationships. Next, each functional relationship is documented; and then sensitivity assignments are made at the major functional levels (below these levels, link dependency values are estimated; see discussion, Section 3.2.2). This process is carried out until each work unit code associated with a major function has been identified with respect to the function performed and dependencies have been estimated. Computer processing calculates the safety sensitivity for each work unit coded item, combines these values with the operation and failure data input by the Air Force, and produces the equipment criticality ranking.

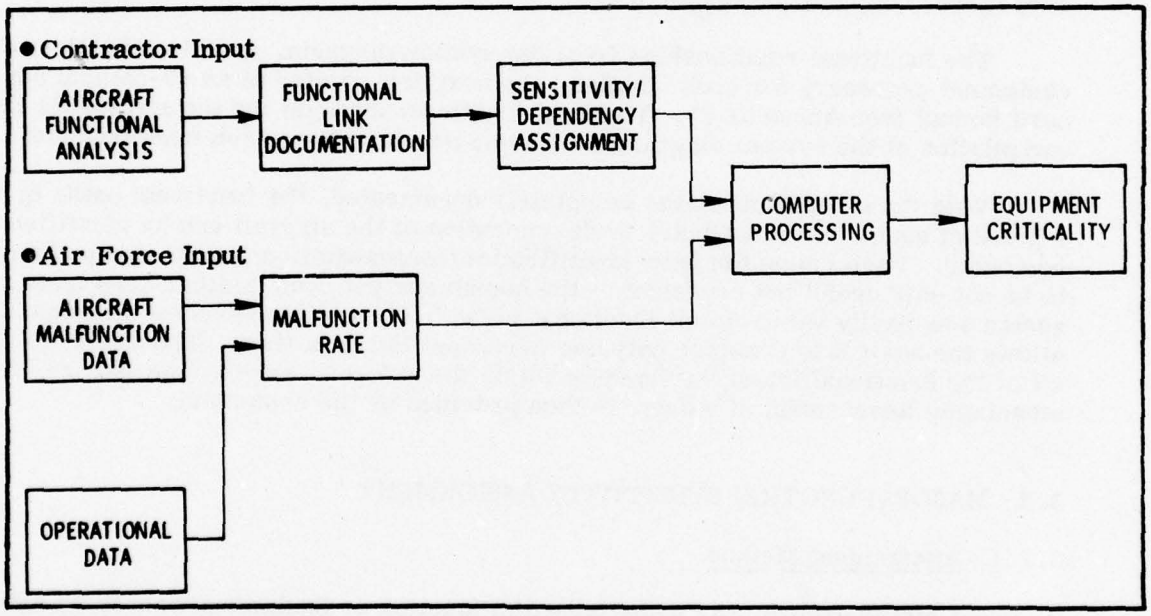


Figure 3-1. Activities and Data Inputs to Flight Safety Criticality Assessment

The steps in this process are discussed in greater detail in the following sections.

3.1 FUNCTIONAL ANALYSIS

Functional analysis entails the systematic identification of the relationships of hardware to the functions performed by the aircraft and documented in the aircraft technical orders. Tabulated for each aircraft function are the equipments necessary for its performance as well as all outputs required for other systems. The complexity of the functional interdependencies of an aircraft requires the use of a systematic

accounting procedure, as discussed below, to assure that all relationships have been identified and that no functional paths have been overlooked.

Certain top-level functions (comprised of both "primary" and "major" functions) have been defined as applicable to all aircraft types, and serve as the starting point for a safety analysis. Figure 3-2 lists these top level functions with the primary function of Flight Control expanded to show its typical major functions. Below the major function level, differences in aircraft types result in function identification and structuring specifically suited to each aircraft. In Figure 3-2, for instance, the major function Roll Control is subdivided into Left Roll and Right Roll, and further into aileron and spoiler actuation subfunctions. This structure is that applicable to an F-4 aircraft, in which ailerons have an extremely limited upward travel and lift is primarily lost through spoiler operation. Finally, each item in the aircraft WUC ("-06") manual is identified with respect to the function it performs. *

Every function and every WUC included in the model receives an "alpha designator" unique to that aircraft model. Due to the large number of alpha designators required in a model, an indenturing system is utilized to prevent duplication. However, the location in the hierarchal structure and the number of characters in the alpha designators are often independent, since such correlation is not necessary for subsequent computer processing.

The functional relationships from the system diagram, and identification of the equipment necessary for each function, are next documented in an 80-column punchcard format (see Appendix C). The total functional diagram for the aircraft is then a compilation of the system diagrams, with one punchcard for each functional link.

With the aircraft functions completely documented, the functional paths by which a piece of equipment contributes to the operation of the aircraft can be identified by computer. Performing the path-identification/documentation task by computer proves to be not only useful but necessary – the human analyst could neither keep track of nor assign sensitivity values to all functional paths. The machine processing capability allows the analyst to consider only one functional link at a time. The ability to follow all of the functional interrelationships within the aircraft, which is necessary for meaningful assessment of safety, is then provided by the computer.

3.2 MAJOR-FUNCTION SENSITIVITY ASSIGNMENT

3.2.1 Assignment Method

As stated earlier, the sensitivity of a function or equipment item is an estimate of the probability that its failure will cause an accident. From functional analysis of the aircraft under consideration, major functions are identified and are assigned sensitivity values for each phase of the mission.

*Certain WUC items in the "-06" manual may not be included in the safety model, these items being either 1) eliminated by TCTOs; 2) purely structural items in the 11000 series; 3) necessary only for survivability or ejection; 4) of lower indenture than the LRU level, where computer data screening eliminates failure reports.

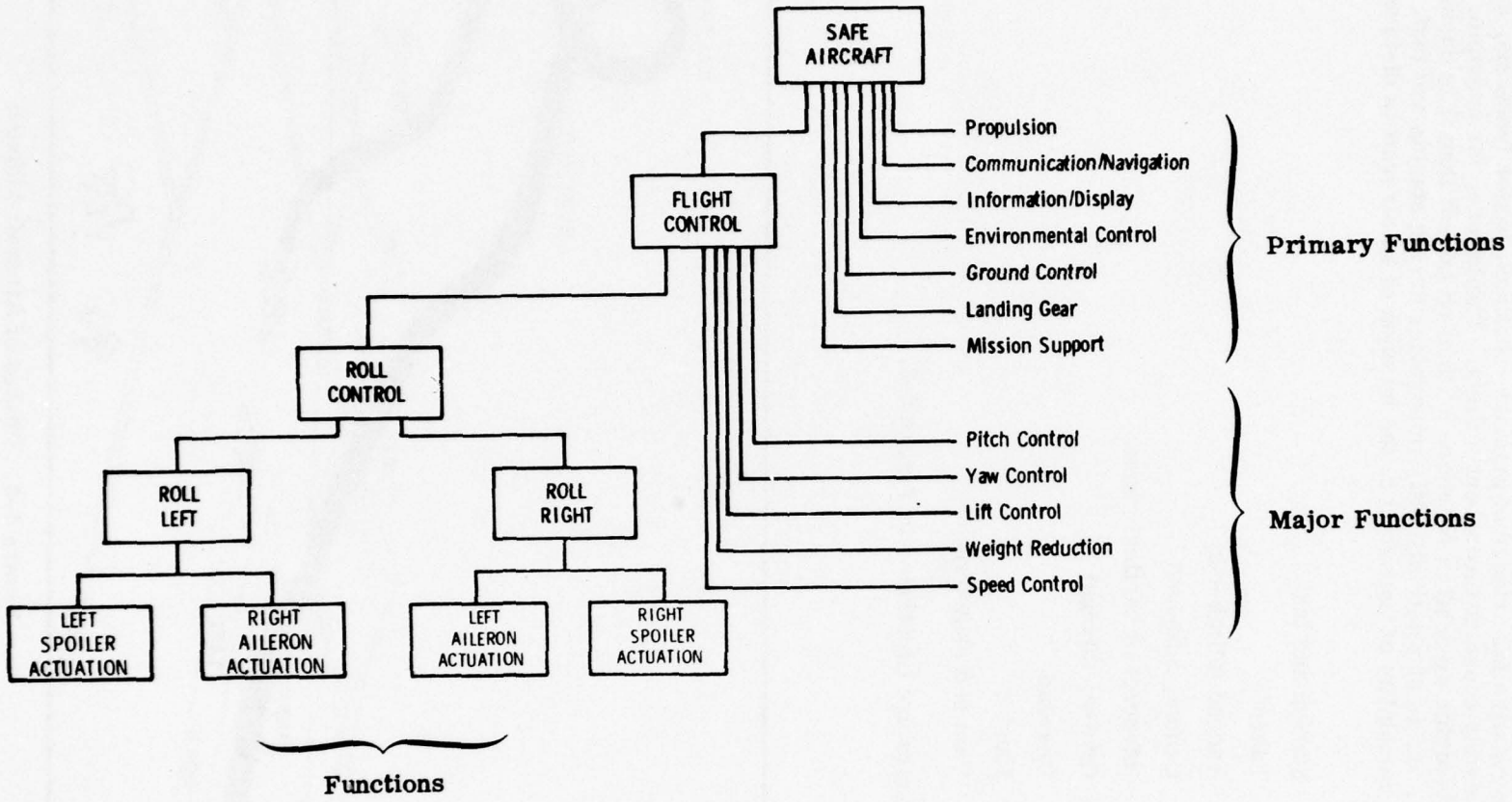


Figure 3-2. Hierarchical Structure of Aircraft Functions

The relative importance of primary functions, major functions, and functions is not necessarily constant throughout a flight. The failure, for example, of one engine of a multi-engine aircraft is far more critical on takeoff than it is during the rest of the flight, and is of relatively little importance during startup and taxi. To accommodate this variability of importance, the mission of an aircraft is divided into nine flight phases:

1. Startup and taxi
2. Takeoff
3. Ascend (climb-out)
4. Cruise, outbound
5. Intercept or tactical phase
6. Cruise, inbound
7. Descend
8. Land
9. Taxi and shutdown

These phases are illustrated in Figure 3-3.

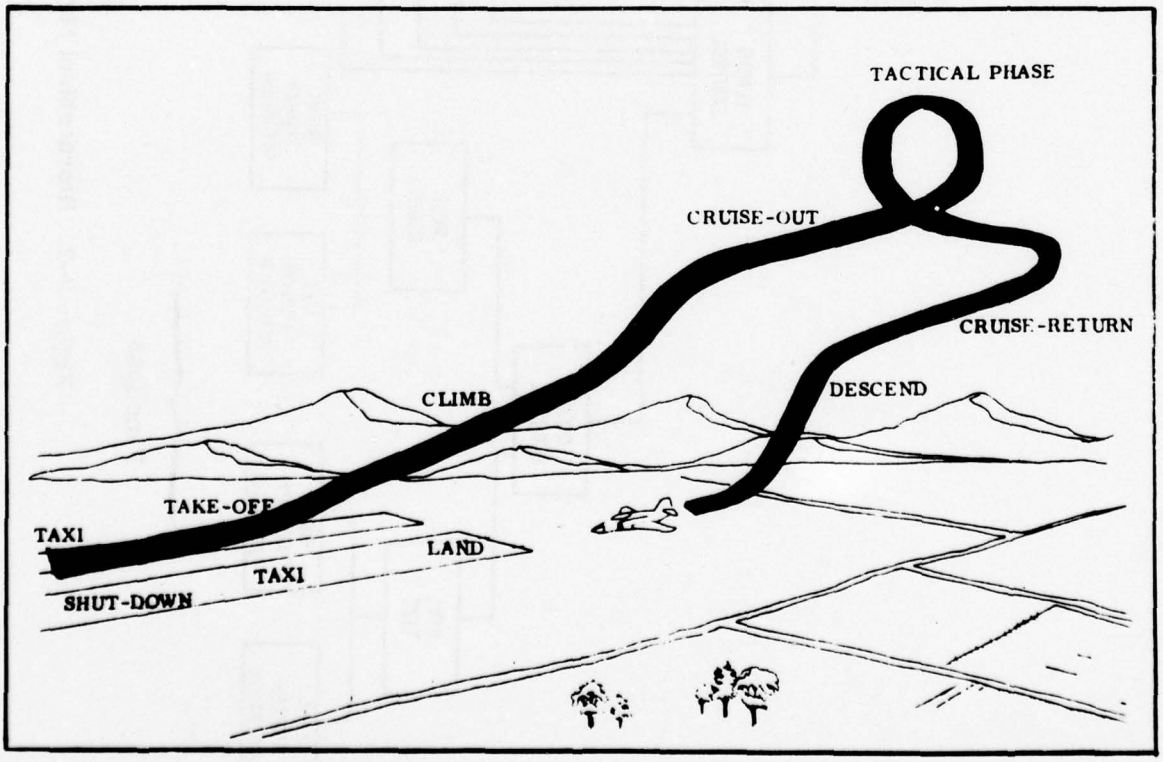


Figure 3-3. Phases of Aircraft Mission

A sensitivity value is assigned for each of the phases, and represents the best estimate of the likelihood that the aircraft will enter a hazardous mode if the function is not present in that phase. The numerical values assigned are proportional rather than absolute, and range from 0.0 to 1.0. The keypunch card format limits this assignment to increments of 0.1. Increments smaller than 0.1, when required, were assigned by defining a quasi-function for insertion between the major function and its dependent primary function.

3.2.2 Link Dependency Assignment

"Link dependency" is defined as the probability that the loss of a function will result in the loss of a dependent function. (For a more detailed discussion of this term, see Appendix B.) The assignment of link dependency values requires knowledge of the operation of specific aircraft because it is concerned only with functional levels below the "major" category. At this lower level, no evaluation is made of the impact on flight safety of the loss of functions. Instead, the effect of the loss of one function on the performance of another function becomes the evaluation criterion. Like sensitivities, link dependency values are assigned in increments of 0.1. Additionally, the method of attenuation used in assigning sensitivity values can also be applied to link dependencies.

3.2.3 Provisory Factors

The sensitivity of major functions with respect to aircraft safety, and at the lower levels the link dependency between functions, can be dependent on external influences and aircraft operating conditions. To accommodate these external influences, a set of provisory factors has been identified. An example would be a windshield anti-ice system, which has a safety sensitivity close to 1.0 during landing under icing conditions but a negligible effect on a dry, warm day.

Under such circumstances, the procedure is to assign the "worst case" value (assuming the condition exists). During model exercise the likelihood that the condition exists can be "read-in", thereby allowing the sensitivity value to be assigned by the computer based on the likelihood of the condition and the probability that the higher level function will therefore be lost. Table 3-1 lists the standard provisory factors used in FSPT models.

3.2.4 Computer Processing

Documentation of a flight safety analysis by ARINC Research thus consists of functional diagrams, coded functional tabulations, a functional data processing card deck, and a machine-prepared printout of the card deck data. Under this contract, the documentation is then sent to San Antonio Air Logistics Center for review by MMER personnel and representatives of the Air Logistics Center responsible for the particular aircraft (if other than SA/ALC).

SA/ALC processes the functional data card deck utilizing a number of computerized operations. First, a functional deck edit is accomplished to identify certain format or logic errors that may exist. Next, a path identification/documentation run is made that traces all possible paths associated with each function and calculates the numerical sensitivities by flight phase down to the WUC level. Then, a path combination run is made taking into account the dependence of more than one major function on a particular WUC. Finally, failure information from the 66-1 data system and numerical factors for provisory conditions are input and a WUC criticality list by rank order is generated by the computer.

TABLE 3-1. PROVISORY FACTOR CODES

Code	Provisory Condition
A	Icing conditions
B	Adverse speed/altitude operations
C	Runway stopping distance/confined area (Helicopter)
D	Night operation
E	IFR conditions
F	Supersonic flight
G	Rain
H	Solo flight
I	Loss of function for which indication is provided
K	Normal system failed
T	Flame-out
X	Fire
Y	Cold weather
2	One of three available units is required
3	Two of three available units are required
4	One of four available units is required
5	Two of four available units are required
6	Three of four available units are required
8	Four of eight available units are required

An additional product generated by the computer is a two-part criticality trend analysis. Part I contains the criticality rankings and linear regression analysis by WUC for the previous 12 months. Part II contains plots of the criticalities and regression lines for the 25 WUCs top-ranked according to safety criticality.

3.2.5 Model Maintenance

Each time an aircraft type for which a safety model has been developed undergoes a modification, the effects of the changes on the model must be evaluated. Technical order and WUC revisions must be incorporated into the model. Removal of existing hardware, the installation of new hardware, or design improvements may change link dependencies and sensitivity assignments. The update procedure should follow the same general steps as outlined for the initial analysis effort.

Existing block diagrams and a printout of the functional card deck form the baseline for change identification. Functional relationships should be reviewed to determine the impact of changes on the documented safety analysis. Diagrams should be revised to reflect functional differences, WUC changes should be noted, and all differences listed on a flight-safety functional tabulation sheet. The functional deck printout can be used for manual indication of what the changes are and where they occur. New data cards are prepared and the functional deck updated by the removal of obsolete cards and the insertion of new cards. From this point on, the computer is again utilized to edit the functional deck, perform path identification/documentation, and calculate sensitivities for each WUC.

Block diagrams and other affected portions of the specific aircraft safety analysis report should be updated and revised pages issued that reflect these changes. Maintaining an accurate and updated model is important to obtaining an accurate assessment of the safety significance of hardware failures.

4
A-7D MODEL DEVELOPMENT

The FSPT model for the A-7D aircraft was developed over a period of approximately two years, March 1973 to February 1975.

In March 1973, a seminar was conducted at the Oklahoma Air Logistics Center (OC/ALC) by representatives of SA/ALC and ARINC Research to familiarize OC/ALC personnel with modeling requirements and techniques for their participation in the A-7D and B-52 modeling efforts. Model development was initiated in April 1973 and completed in September of that year. Model documentation, including the systems completed in accordance with the contract modification (June 1973), were submitted for computer edit at SA/ALC in September 1973.

Subsequently, the Work Unit Code Manual for the A-7D was extensively revised in the propulsion section (23000 series). These changes made a large part of the completed work obsolete. To remedy this situation, the propulsion system of the model was revised and forwarded to SA/ALC in February 1975.

The aircraft flight manual and maintenance technical orders provided the information on aircraft system operation. The model developed represents the A-7D aircraft configured to the latest time compliance technical orders (TCTOs) documented in the manuals supplied by SA/ALC. Table 4-1 lists the manuals and their revision status applicable to the developed model.

The A-7D safety model was developed by ARINC Research for all systems except the landing gear. The landing gear diagram and functional documentation cards were produced by MMER/OC/ALC, and interface documentation for the landing gear was a joint effort by OC/ALC and ARINC Research.

Because of the vulnerability of the functional logic/sensitivity documentation to such errors as omission of links, duplication of cards, and keypunching, quality reveiws were conducted at various critical points in the model development. In addition to keypunch verification, each card was checked against the functional link shown on the original rough draft and the final functional diagram and the diagrammed link was checked off. Missing or duplicated functional links were thus identified. Work unit codes used in the model were checked off against the WUC manual to assure completeness.

The quality reviews were first conducted by the organizations responsible for the subsystems prior to merging and computer verification of the respective aircraft decks by SA/ALC. Following the merging of the Air Force/ARINC Research decks and computer verification at SA/ALC, a second quality review was performed by representatives of ARINC Research and OC/ALC. Finally, the first criticality printout obtained from application of actual aircraft data was reviewed to identify any items whose sensitivity appeared to be unreasonable. In such cases the paths were traced manually and changes made if an erroneous relationship was found.

Appendix C presents the methods and standards used in documenting an FSPT aircraft model. Appendix D presents the FSPT documentation for the A-7D aircraft, which covers both the OC/ALC and ARINC Research portion of the model.

TABLE 4-1. A-7D SYSTEM DOCUMENTATION

Publication No.	Title	Revision/Date
1A-7D-1	Flight Manual	Change 5, 20 Sept 1972
1A-7D-2-1	General Information and Airframe Group	Change 8, 15 Feb 1972
1A-7D-2-2	Egress and Survival Systems	Change 4, 1 Apr 1972
1A-7D-2-3	Mechanical Accessories Systems	Basic, 15 July 1972
1A-7D-2-4	Pneudraulic Systems	Change 5, 1 May 1972
1A-7D-2-5	Powerplant Systems	Change 5, 1 Feb 1972
1A-7D-2-6	Fuel System	Change 10, 1 Jan 1973
1A-7D-2-7	Landing Gear Systems	Change 7, 1 June 1972
1A-7D-2-8	Flight Control Systems	Change 5, 1 April 1972
1A-7D-2-9	Automatic Flight Control System	Change 2, 1 Dec 1971
1A-7D-2-10	Instrument Systems	Change 7, 15 Apr 1972
1A-7D-2-11	Electrical Power and Lighting Systems	Change 7, 15 Apr 1972
1A-7D-2-12	Radio Communication and Navigation Systems	Change 7, 1 June 1972
1A-7D-2-13	Armament Systems	Change 7, 15 July 1972
1A-7D-2-14	Weapon Control Systems	Basic, 15 Nov 1970
1A-7D-2-18	Integrated Avionic Systems	Change 4, 16 June 1972
1A-7D-06	Work Unit Code Manual	Basic, 15 May 1972 (plus Change 6 to 23000 Series)

APPENDIX A

HISTORICAL SUMMARY OF FSPT

HISTORICAL SUMMARY OF FSPT

In 1965, the desirability and practicability of quantifying the significance of specific equipment malfunctions relative to flight safety was explored in a feasibility study conducted by ARINC Research Corporation for the Air Force. The feasibility of a safety-quantification approach, which has subsequently become known as Flight Safety Prediction Technique (FSPT), was demonstrated; and the method was developed and refined in a series of studies, as follows:

Study Phase	Subject/Date	Sponsor*/Publication No.
I	Feasibility Study, September 1965 to June 1967 (Phase I)	Sacramento Air Materiel Area (SMNE), Contract AF09(603)62335, SM-67-2; publication 705-01-1-777
II-A	Technique Development, October 1967 to July 1968 (Phase II-A)	San Antonio Air Materiel Area (SANEW), Contract AF09(603)-67-A-0267-SA01; publication 734-01-1-895
II-B	Technique Development, July 1968 to July 1969 (Phase II-B)	San Antonio Air Materiel Area (SANEW), Contract F09(603)-68-A-0317-SA01; publication 754-01-1-985 (Revision 1)
	FSPT System Documentation for the F-4C and T-37 Aircraft, October 1970 to June 1971	San Antonio Air Materiel Area (MMER) Contract F41608-71-C-0576; publication 697-01-1-1118

In the Phase II-B study, the FSPT was applied to the F-106 aircraft. Concurrent with Phase II-B, the U.S. Naval Safety Center contracted ARINC Research to extend the methodology to produce a flight safety criticality model for the F-4J aircraft. The results of this effort are documented in ARINC Research Publication 753-01-3-982 (Revision 1).

In 1970, ARINC Research was contracted to develop suitable input data to permit the application of the technique to the T-37 and F-4C aircraft. These data were derived in the form of mathematical model functional documentation as input to the basic computer program developed and applied to the F-106.

In 1972, ARINC Research Corporation was awarded a contract, with the subsequent modifications in 1973 and 1974, to apply the Flight Safety Prediction Technique to 15 aircraft, working jointly with cognizant Air Logistics Centers. Aircraft to which the FSPT has been applied under this latter contract (F09603-72-A-1132-SA01) include:

a. T-38

b. F-111A and FB-111A

*The office symbols of Service Engineering at the Sacramento and San Antonio Air Materiel Areas are now SM/ALC/MME and SA/ALC/MME, respectively.

c. A-7D

d. F-4D, E; RF-4C

e. C-141

f. A-37

g. O-2

h. OV-10

i. B-52G, H

j. C-130E

k. KC-135

l. C-5A

m. T-39

n. F-15

o. UH-1N Helicopter*

*Feasibility study of adaptation of FSPT to rotary-wing aircraft.

APPENDIX B

FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

To implement the basic safety model defined in Section 2.2, it is necessary to develop a submodel for the probability that a malfunction in element j during mission phase k will result in an accident. This submodel in turn requires that we estimate two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on element j during each mission phase.

The first parameter is termed "functional sensitivity" and is estimated for each major function. The functional analysis performed in this task established for an aircraft the following hierarchal scheme:

Aircraft

Primary functions

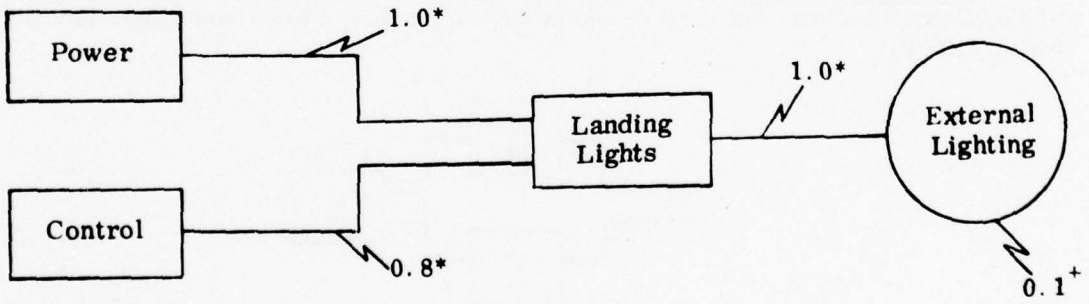
Major functions

Function

Elements (Work Unit Codes)

A primary function would be one such as Flight Control. Major functions under Flight Control would include Pitch Control and Yaw Control.

The second parameter, "link dependency," is a vehicle for showing the influence of each functional-path element on the performance of a major function. For example, if the major function being considered is External Lighting, the following diagram illustrates the nature of functional sensitivity and link dependency values.



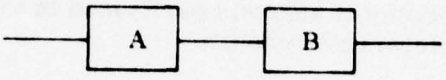
*Link dependencies
+Functional sensitivity

The 0.8 value means that failure of the Control function will result in loss of the Landing Light function 80% of the time. The 0.1 functional sensitivity value denotes that loss of external lighting will result in an accident 10% of the time. The values must be interpreted in a proportional sense, in that the actual accident probability is dependent upon external factors (see Section 3.2.3).

The remainder of this appendix discusses the procedures and model used to obtain element sensitivities; e.g., in the above example, the accident probability given that a Work Unit Code in the Control function malfunctions.

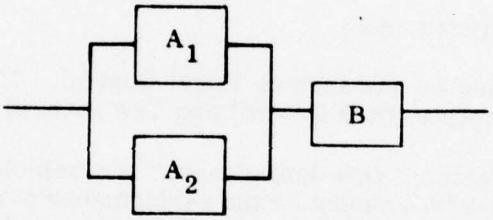
Three principal types of functional relationship--series, redundant, and parallel--were identified as representing the major forms to consider in modeling element sensitivity.

Series Relationship – A function having only one input. Schematically,



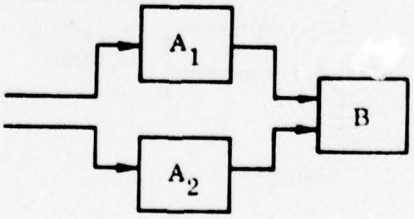
which indicates that outside of its own elements, the success of function B is only affected by the success of function A.

Functional Redundancy – A function having one or more backup functions that can provide the required inputs to successor functions. Schematically,



where A_1 and A_2 represent a functional redundancy in that either may provide the necessary input to B.

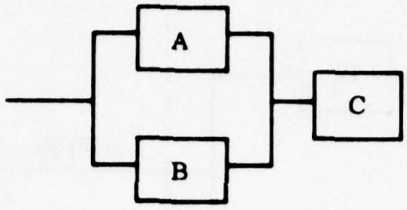
Parallel Functions – Two or more functions independent of each other in terms of functional success, but each of which may be required for a successor function. Schematically,



B will generally require both A_1 and A_2; but A_1 does not depend on A_2, nor does A_2 depend on A_1.

In some cases the distinction between functional redundancy and parallel paths is very slight, and may depend on mission phase. For example the four engines of a plane can be considered to be a redundant configuration providing inputs to the primary propulsion function during cruising, but would generally be considered to be parallel functions during takeoffs requiring full power.

In general, given a schematic relationship of the form,

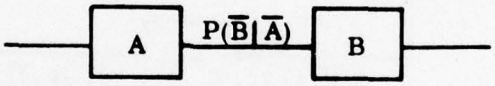


we can say that A and B are in a functionally redundant configuration if the success probability of C is the same if 1) A and B are successful, 2) A only is successful, or 3) B only is successful. If, for example, C is more likely to be successful if both A and B are successful, rather than A or B alone, then the relationship is one of parallel paths.

It is noted that the model will also account for element redundance and parallel elements through inputs such as $P(\overline{A}|i_a)$, representing the probability that the Ath function fails given that the i_a^{th} element in A has failed. If i_a is a parallel element, the probability would depend on mission requirements and other parallel-element states.

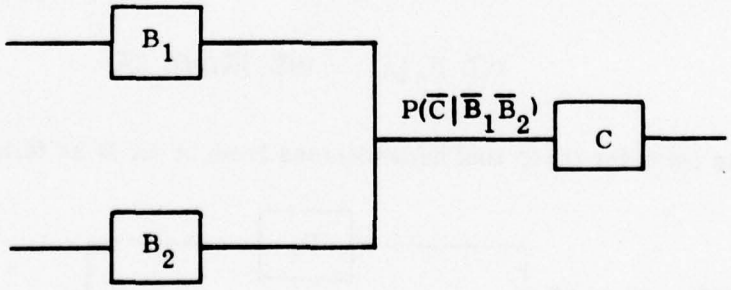
Link dependency is the conditional probability of a functional failure, given the failure of immediate predecessor functions. The link dependencies applicable to the three basic designs defined above are shown below.

Series Relationship

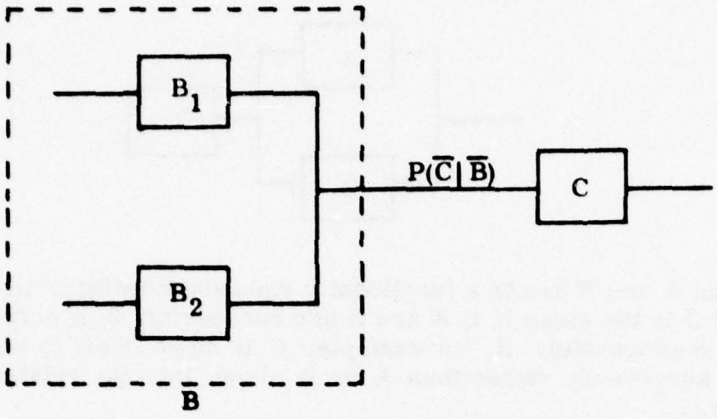


Link dependency = $P(\overline{B}|\overline{A})$ = probability that B fails given that A fails.

Functional Redundancy

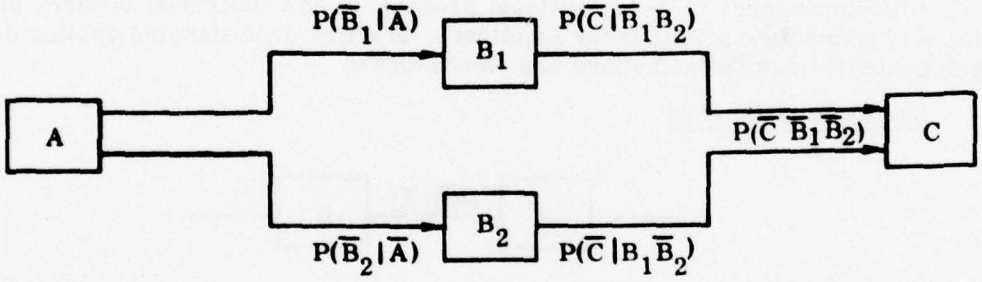


equivalent to



where $\overline{B} = \overline{B}_1\overline{B}_2$

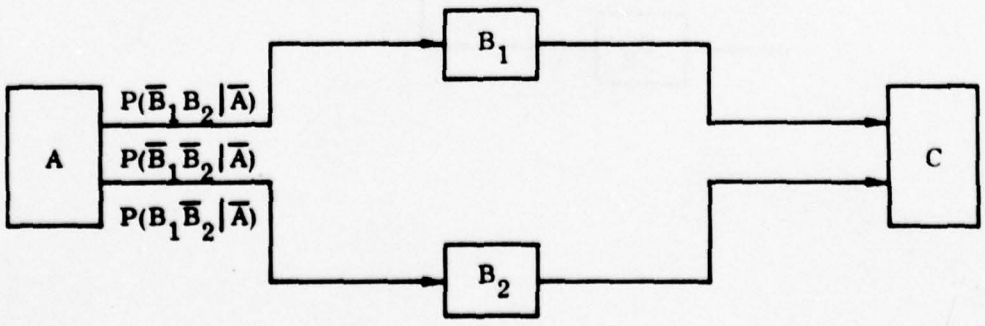
Parallel Functions



We shall generally assume that the dependencies of B_1 with respect to A, and of B_2 with respect to A, are independent of each other, so that

$$P(\overline{B}_1\overline{B}_2|\overline{A}) = P(\overline{B}_1|\overline{A})P(\overline{B}_2|\overline{A})$$

We then can consider three link dependencies from A to B as follows:



noting that

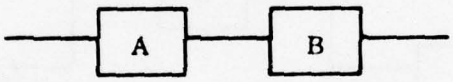
$$P(\overline{B}_1|\overline{A}) = P(\overline{B}_1 B_2|\overline{A}) + P(\overline{B}_1\overline{B}_2|\overline{A})$$

$$P(\overline{B}_2|\overline{A}) = P(B_1\overline{B}_2|\overline{A}) + P(\overline{B}_1\overline{B}_2|\overline{A})$$

Models are shown below for determining the sensitivity of elements within a function for each of the three basic designs. The following basic assumptions apply:

a. Except for cases where an element has a redundant or parallel counterpart or is located in a function with a redundant or parallel function, only the element under consideration shall be assumed to have failed initially. Thus the expression $P(\mathcal{A}|i_a)$, representing the accident probability given failure of the ith Work Unit Code element, is based on the assumption that no other element has failed unless element i is in some redundant or parallel configuration. For cases in which there are redundant or parallel counterparts, failures of such counterpart elements or functions are considered in accordance with their occurrence probabilities.

b. The success of all immediate predecessors ensures the success of a function, provided that the function experiences no element failures. Thus for the series function relationship



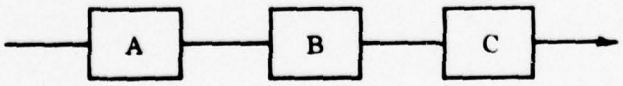
we assume

$$P(\overline{B}|A) = 0,$$

provided B experiences no element failures. If an element in function A is under consideration, the latter provision is always true by assumption "a."

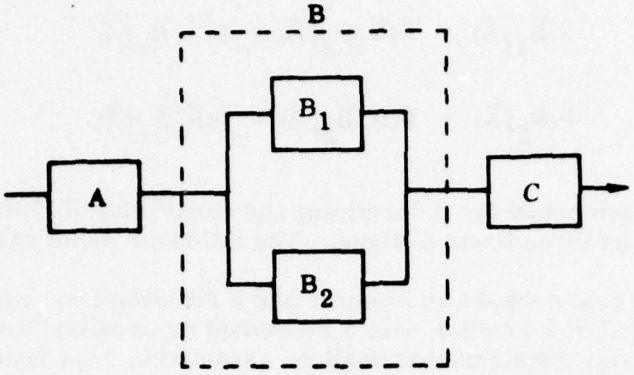
The element sensitivity models are:

<u>Series Relationship</u>



$$P(\mathcal{A}|i_a) = P(\overline{A}|i_a)P(\overline{B}|\overline{A})P(\overline{C}|\overline{B})P(\mathcal{A}|\overline{C})$$

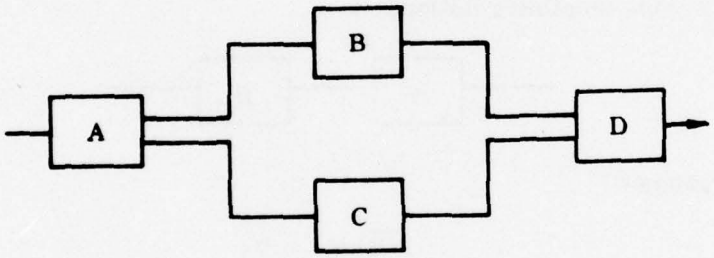
Functional Redundancy



$$P(\mathcal{A}|i_a) = P(\bar{A}|i_a)P(\bar{B}|\bar{A})P(\bar{C}|\bar{B})P(\mathcal{A}|\bar{C})$$

$$P(\mathcal{A}|i_{b1}) = P(\bar{B}_1|i_{b1})P(\bar{B}_2)P(\bar{C}|\bar{B})P(\mathcal{A}|\bar{C})$$

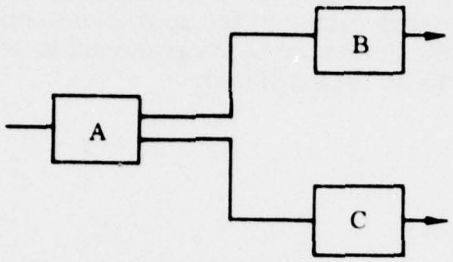
Parallel Functions



$$P(\mathcal{A}|i_a) = P(\bar{A}|i_a)\{P(\bar{B}C|\bar{A})P(\bar{D}|\bar{B}C) + P(B\bar{C}|\bar{A})P(\bar{D}|B\bar{C}) + P(\overline{BC}|\bar{A})P(\bar{D}|\overline{BC})\}P(\mathcal{A}|\bar{D})$$

$$P(\mathcal{A}|i_b) = P(\bar{B}|i_b)\{P(\bar{C}|i_b)P(\bar{D}|\bar{B}C) + P(C|i_b)P(\bar{D}|\bar{B}C)\}P(\mathcal{A}|\bar{D})$$

A case not explicitly incuded in the above three basic functional relationships is one for which a function is in two paths, e.g.,



then

$$P(\mathcal{A}|i_a) = P(\overline{C}|i_a)P(B|i_a)P(\mathcal{A}|\overline{C}B) + P(C|i_a)P(\overline{B}|i_a)P(\mathcal{A}|C\overline{B})$$

$$+ P(\overline{C}|i_a)P(\overline{B}|i_a)\{1 - P(\overline{\mathcal{A}}|\overline{C})P(\overline{\mathcal{A}}|\overline{B})\}$$

where it is assumed that the effects of loss of the major functions in accident occurrence are independent of each other.

Use of Numerical Provisory Factors for Partially Redundant Systems

The numerical provisory factors (see Table 3-1) are used where more than two identical functions are involved in a redundancy. For example, aircraft with more than two engines often have identical and independent systems for hydraulic pressurization, and for electrical power generation, one driven by each engine. If the aircraft can be operated safely with one or more of such systems in a failed state, one of the numeric codes is utilized in assigning link dependency values. Consider, for example, the following:

If N identical and independent units* are available and at least M are required for safe operation, where $0<M<N$, then the provisory factor of a given unit, say U_j, is the probability that the failure of U_j will cause the aircraft to enter an unsafe state. This is the probability that exactly M-1 of the remaining N-1 units will be in an unfailed state. This probability can be calculated by the formula for the binomial distribution, and is given by

$$P(U_j) = \binom{N-1}{M-1} p^{(M-1)} q^{(N-M)}$$

where $P(U_j)$ = probability that failure of the jth unit will cause the aircraft to enter an unsafe state, and

M = Number of units required

N = Number of units available

p = Probability that a single unit will be in an unfailed state

q = Probability that a single unit will be in a failed state or (1-p)

*Units may be either elements, element assemblies, or functions.

Assignment of link dependencies to N identical and independent units of which only M are required proceeds as follows. The value assigned to each unit is the dependency of the higher level function on receiving an output from M of the units (usually 1.0). The provisory factor is the appropriate numeric code. In the evaluation of the path sensitivity, the computer is programmed to select the binomial formula that corresponds to the provisory factor listed.

APPENDIX C

FSPT DOCUMENTATION METHODS

FSPT DOCUMENTATION METHODS

Because of the extreme complexity of aircraft, it is necessary to develop a computerized method to identify and document all possible paths associated with each function as well as to determine the safety sensitivity associated with each path. A computer routine has been devised that takes the data from the functional card deck and traces and documents all paths. For each WUC, it also computes the flight-phase sensitivities for each path in which the WUC is present. The resulting computer printout provides a combined functional path sensitivity.

C.1 ALPHA CODING

As each system of the aircraft is functionally diagrammed, the functional blocks are assigned an "alpha code". This code aids the analyst in the bookkeeping tasks of functional diagramming and provides the computer with an identification of the elements to be processed. For standardization among aircraft, nine top-level functions have been defined and each has been assigned an initial or first-alpha designator. Each block in the functional diagram carries the same initial alpha as the top level function. Subsequent letters added to the initial alpha uniquely identify each block.

The only restrictions placed on the assignment of alpha codes are that:

a. All characters in a code must be a letter of the alphabet, and

b. The maximum number of characters in one code is seven.

C.2 ALPHA CODING AND COMPUTER PROGRAM COMPATIBILITY

Additional rules for alpha coding required to obtain the desired results from computer processing include:

a. When a WUC item operates in the same mode to perform more than one function, the same alpha code is used in each application.

b. When a WUC item operates in a different mode to perform each of more than one function, a different alpha designator is assigned for each operating mode.

C.3 FUNCTIONAL TABULATION

The "Flight Safety Functional Tabulation" sheet is used to code the safety model for keypunching. The sheets are coded as follows (refer to Figure C-1) for an example).

a. Columns 1 through 3. Used to identify the aircraft represented by the model. For certain aircraft modeled under this contract more than one model – designation series MDS – was included. For instance, a single functional deck was created for four MDSs of the F-4 aircraft. Cards with "F4Ø"* in columns 1-3 were common to all aircraft. For example,

*Ø = blank

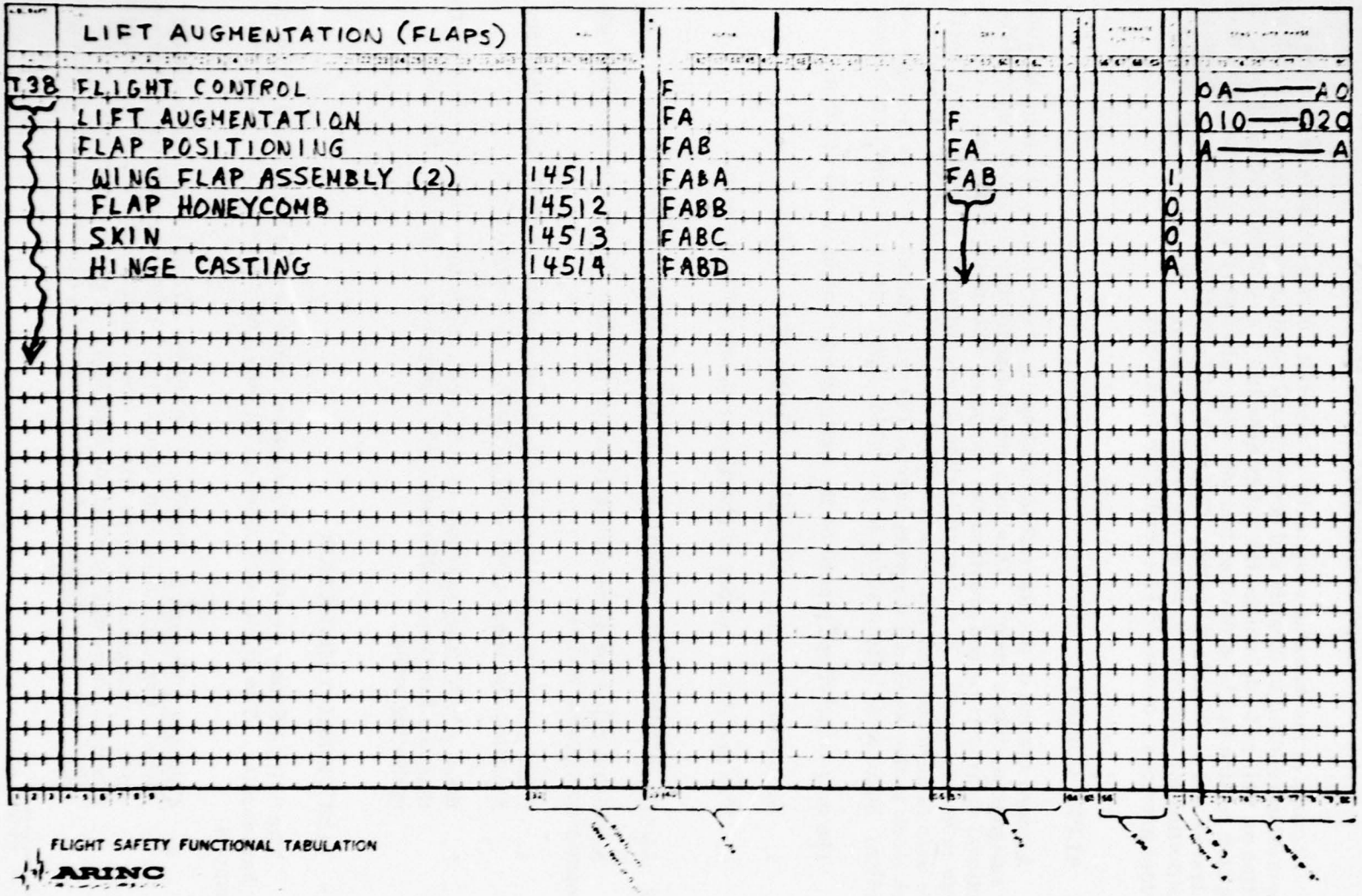


Figure C-1. Flight Safety Functional Tabulation

when these cards are combined with those carrying "F4E" in columns 1-3, then it produces an F-4E FSPT model deck.

b. Columns 4 through 31. Contain the title of the function or the WUC item.

c. Columns 32 through 36. Contain the left-justified WUC number.

d. Columns 37 and 38. Blank

e. Columns 39 through 46. Contain the assigned alpha designator for the function and/or the WUC. Column 39 contains either an L or an R, or is blank. The L and R designate left and right for those instances when the function and/or WUC pertains to the left or right side of the aircraft.

f. Columns 47 and 48. Blank.

g. Columns 49 through 55. Normally left blank, but are used after a deck is operational to substitute the data on a card for that stored in the computer by punching the line record number in this field.

h. Columns 56 through 63. Identify the dependent functions for either the function or specific WUCs being coded. Column 56 may contain L, R or blank for the same purpose as that of column 39.

i. Column 64. Contains the alphanumeric code of the "provisory factor" applicable to the link value assigned.

j. Columns 65 through 69. Contain the alpha designator of a function that is an alternate for the function being coded. (Column 65 is used for "L" or "R" as in Column 39.) The presence of the "alternate alpha" flags the importance of the link dependency as being affected by the success probability of the alternate function.

k. Column 70. Contains the work unit code dependency value (1 = 0.10; 2 = 0.20; ....A = 1.0). This value is applicable to all flight phases.

l. Column 71. Contains special instructions to the computer through the use of letters F, S, or being blank. Cards with an "S" or "blank" in column 71 are used in sensitivity computations. Cards with an "F" document a functional relationships which, although present in the system, would produce an erroneous sensitivity value when combined with other nonindependent paths (having the same function in common at some higher level). The "F" prevents the computer from including the link in the sensitivity calculations.

m. Columns 72 through 80. Contain functional dependencies for each of nine flight phases as described in Section 3.2.1 of the text. Coding is the same as for column 70.

C.4 DIAGRAM CONSTRUCTION

The diagrams produced under the contract document the functional interrelationship of the aircraft systems considered in the model. In the interest of extending the useful life of the diagrams, WUC items are not shown, thereby eliminating the necessity of updating the diagrams with each (and sometimes frequent) change to the WUC manual.

As discussed earlier in this report, the diagrams represent the hierarchal structure of the paths from which the sensitivity values are derived. The diagrams, although consistent with the system schematic and reliability block diagrams, are not equivalent due to this hierarchal method of documentation. In the actual system, signals and/or fluids pass from one component to the next and are thus documented in schematics; conversely, the hierarchal approach only identifies the components that must operate to achieve a given function, independent of the direction and/or sequence of signal flow. This approach directly addresses the system impact of a component failure without the necessity of identifying the intrasystem secondary failures. Each line connecting functions on the diagram is documented by a punchcard, with the lower function providing the "alpha designator" and the higher function's alpha designator indicator as the "dependent function".*

*The card deck also documents functional relationships not shown on the diagram; the work unit codes (mentioned earlier) and the "S" cards discussed in paragraph C.3.1.

APPENDIX D

FSPT DOCUMENTATION OF A-7D AIRCRAFT

FSPT DOCUMENTATION OF A-7D AIRCRAFT

This appendix contains the functional relationship diagrams and a listing of the keypunch cards that comprise the FSPT safety model documentation for the A-7D aircraft.

D.1 DIAGRAMS

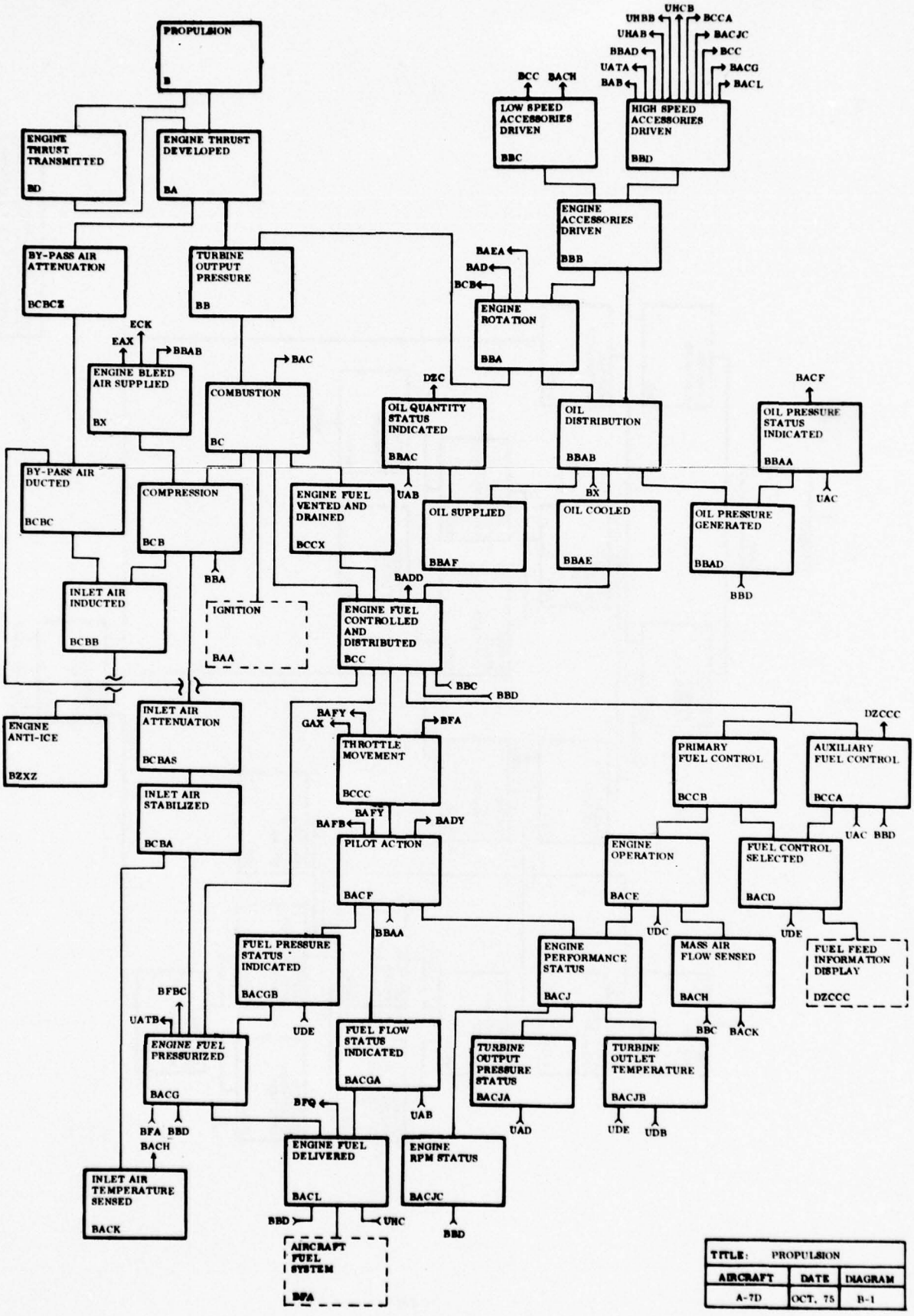
The diagrams illustrating the functional relationships considered in the A-7D safety model are found on pages D-5 through D-33, and are listed below:

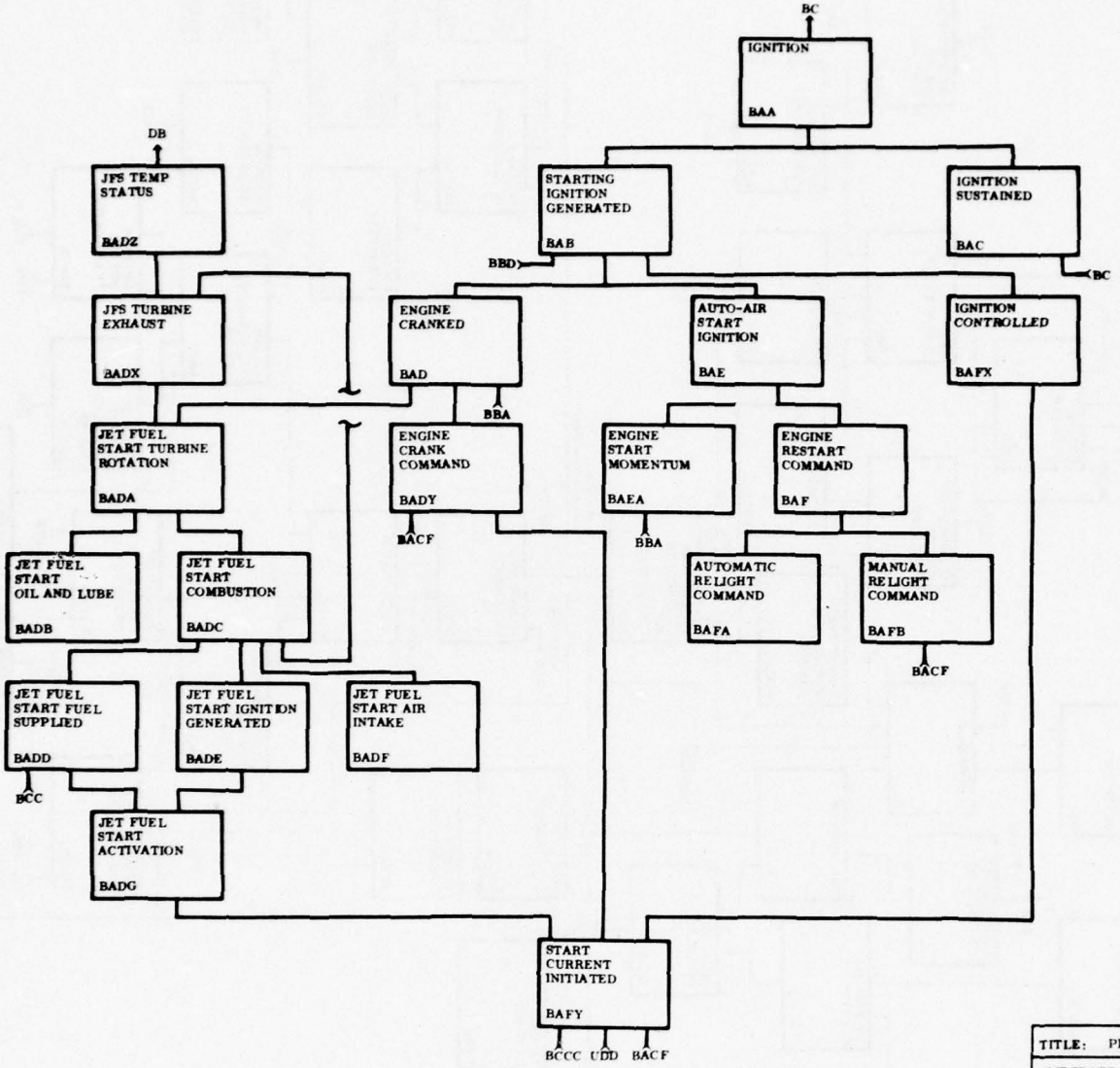
Title	Page
Propulsion, Diagram B-1	D-5
Propulsion, Diagram B-2	D-6
Propulsion Fuel, Diagram B-3	D-7
Propulsion Fuel, Diagram B-4	D-8
Comm/Nav/Ident, Diagram C-1	D-9
Comm/Nav/Ident, Diagram C-2	D-10
Comm/Nav/Ident, Diagram C-3	D-11
Information & Display, Diagram D-1	D-12
Information & Display, Diagram D-2	D-13
Environmental Control, Diagram E-1	D-14
Environmental Control, Diagram E-2	D-15
Environmental Control, Diagram E-3	D-16
Environmental Control, Diagram E-4	D-17
Environmental Control, Diagram E-5	D-18
Flight Control, Diagram F-1	D-19
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Flight Control, Diagram F-3	D-21
Flight Control, Diagram F-4	D-22
Flight Control, Diagram F-5	D-23
Flight Control, Diagram F-6	D-24

Title	Page
Ground Control, Diagram G-1	D-25
Landing Gear, Diagram L-1	D-26
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Utilities, Diagram U-1	D-28
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Utilities, Diagram U-3	D-30
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Utilities, Diagram U-5	D-32
Air Data Computer, Diagram UC-1	D-33

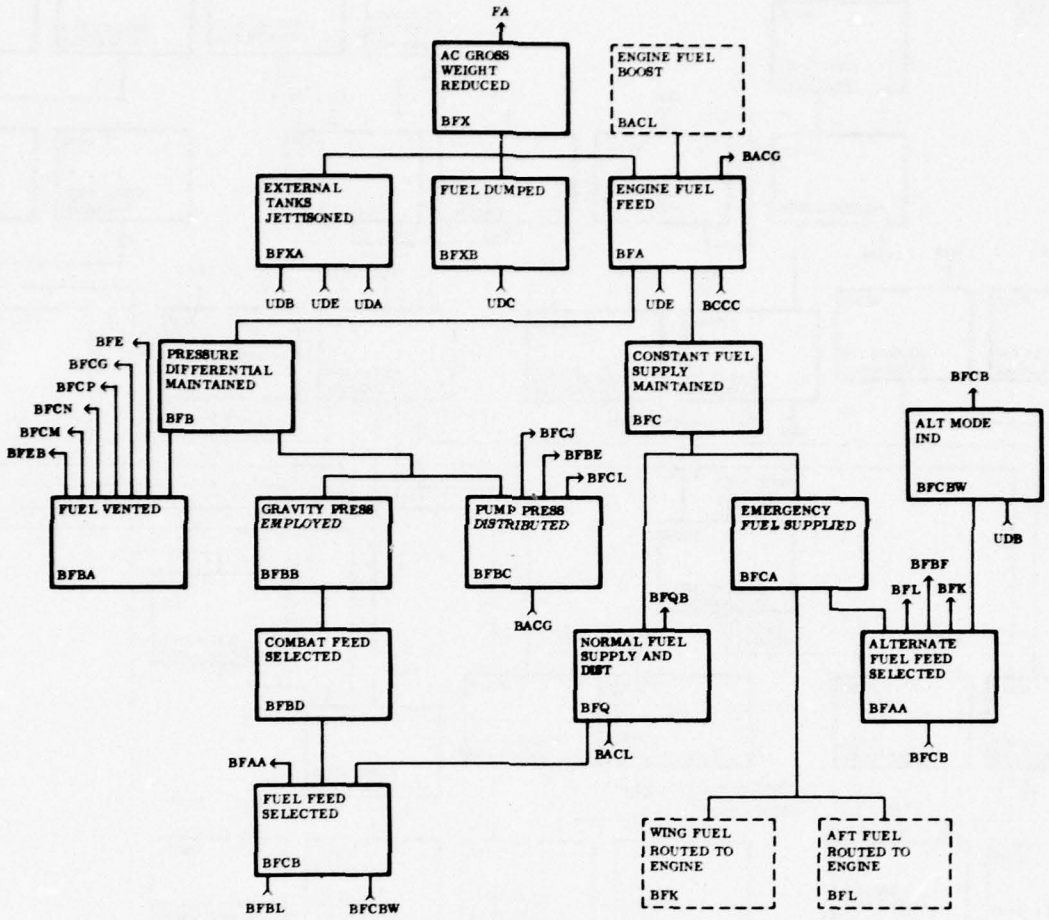
D.2 CARD LISTING

Pages D-35 through D-112 are a reproduction of the punchcard listing. The listing is alphabetical by "alpha designator", and the format is that of the 80-column punchcard itself as described in Appendix C. At the top of each page the card columns are printed vertically; for example, column 34 is printed "$\frac{3}{4}$".

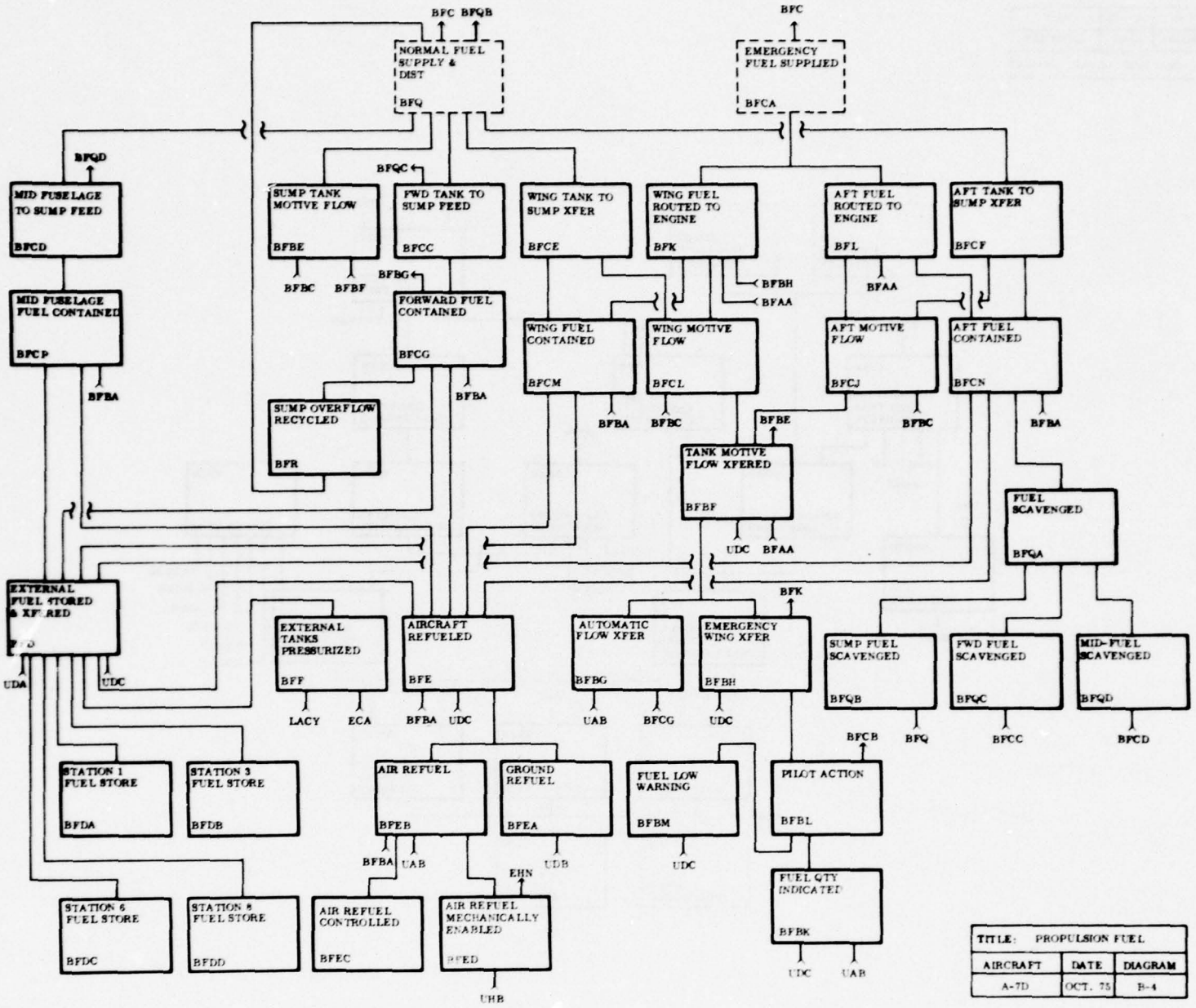

PROPULSION
B
ENGINE THRUST TRANSMITTED
BD
ENGINE THRUST DEVELOPED
BA
BY-PASS AIR ATTENUATION
BCBC2
TURBINE OUTPUT PRESSURE
BB
ECK
EAX
BBAB
ENGINE BLEED AIR SUPPLIED
BX
BAC
COMBUSTION
BC
BY-PASS AIR DUCTED
BCBC
COMPRESSION
BCB
BBA
INLET AIR INDUCTED
BCBB
IGNITION
BAA
ENGINE ANTI-ICE
BZXZ
INLET AIR ATTENUATION
BCBAS
INLET AIR STABILIZED
BCBA
INLET AIR TEMPERATURE SENSED
BACK
ENGINE FUEL VENTED AND DRAINED
BCCX
UAB
ENGINE FUEL CONTROLLED AND DISTRIBUTED
BCC
BADD
BBC
BBD
BAFY
GAX
BFA
THROTTLE MOVEMENT
BCCC
BAFY
BAFB
BADY
PILOT ACTION
BACF
BBAA
BFBC
UATB
ENGINE FUEL PRESSURIZED
BACG
BFA
BBD
BACH
BFQ
ENGINE FUEL DELIVERED
BACL
BBD
UHC
AIRCRAFT FUEL SYSTEM
BFA
FUEL PRESSURE STATUS INDICATED
BACGB
UDE
FUEL FLOW STATUS INDICATED
BACGA
UAB
UHCB
UHBB
BCCA
UHAB
BACJC
BBAD
BCC
UATA
BACG
BAB
BACL
BCC
BACH
LOW SPEED ACCESSORIES DRIVEN
BBC
HIGH SPEED ACCESSORIES DRIVEN
BBD
ENGINE ACCESSORIES DRIVEN
BBB
BAEA
BAD
BCB
ENGINE ROTATION
BBA
DZC
OIL QUANTITY STATUS INDICATED
BBAC
OIL DISTRIBUTION
BBAB
BACF
OIL PRESSURE STATUS INDICATED
BBAA
UAC
BX
OIL SUPPLIED
BBAF
OIL COOLED
BBAE
OIL PRESSURE GENERATED
BBAD
BBD
DZCCC
PRIMARY FUEL CONTROL
BCCB
AUXILIARY FUEL CONTROL
BCCA
UAC
BBD
ENGINE OPERATION
BACE
FUEL CONTROL SELECTED
BACD
UDC
UDE
ENGINE PERFORMANCE STATUS
BACJ
MASS AIR FLOW SENSED
BACH
BBC
BACK
FUEL FEED INFORMATION DISPLAY
DZCCC
TURBINE OUTPUT PRESSURE STATUS
BACJA
UAD
TURBINE OUTLET TEMPERATURE
BACJB
UDE
UDB
ENGINE RPM STATUS
BACJC
BBD
TITLE: PROPULSION
AIRCRAFT
A-7D
DATE
OCT. 75
DIAGRAM
B-1

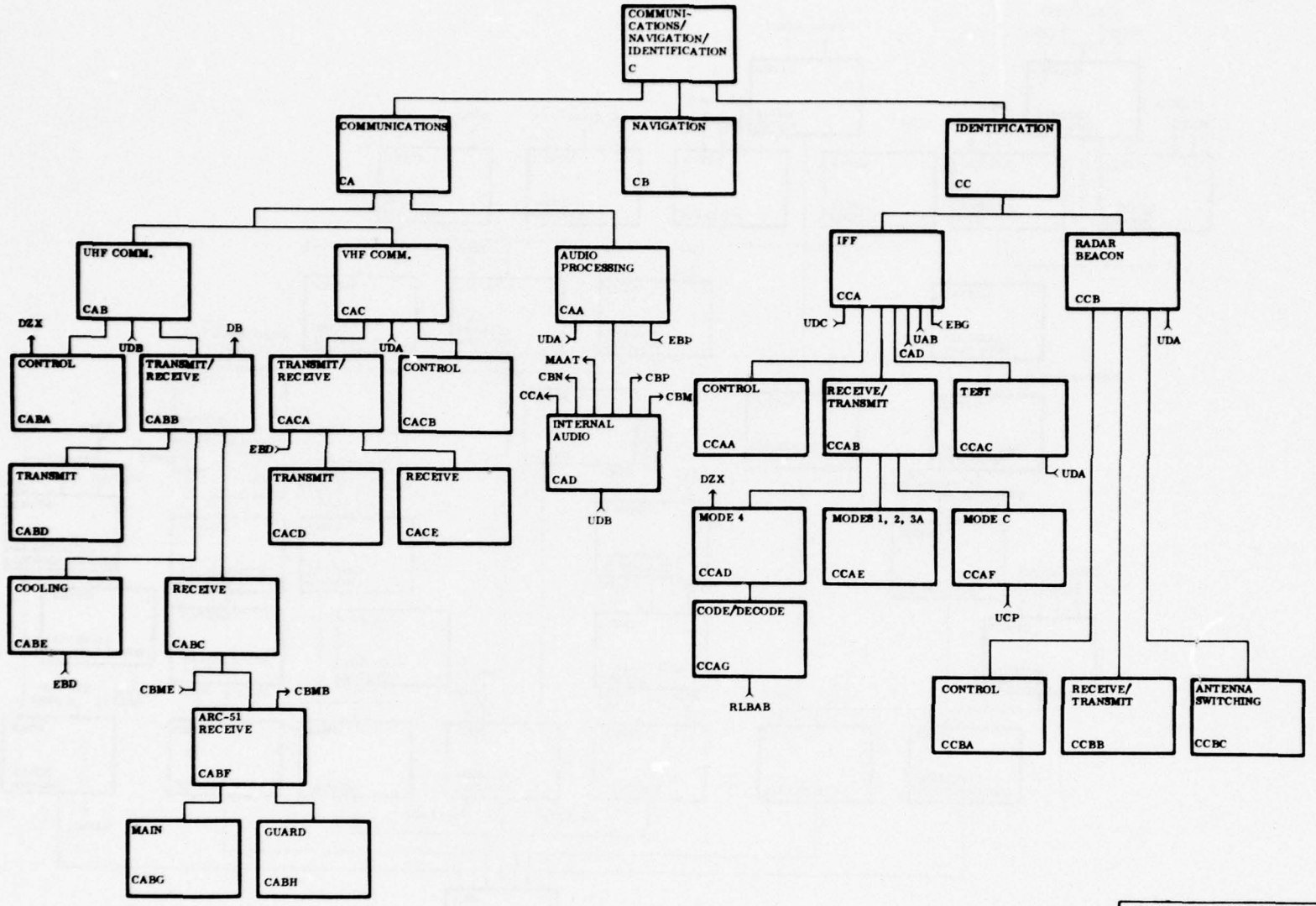


TITLE: PROPULSION		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	B-2

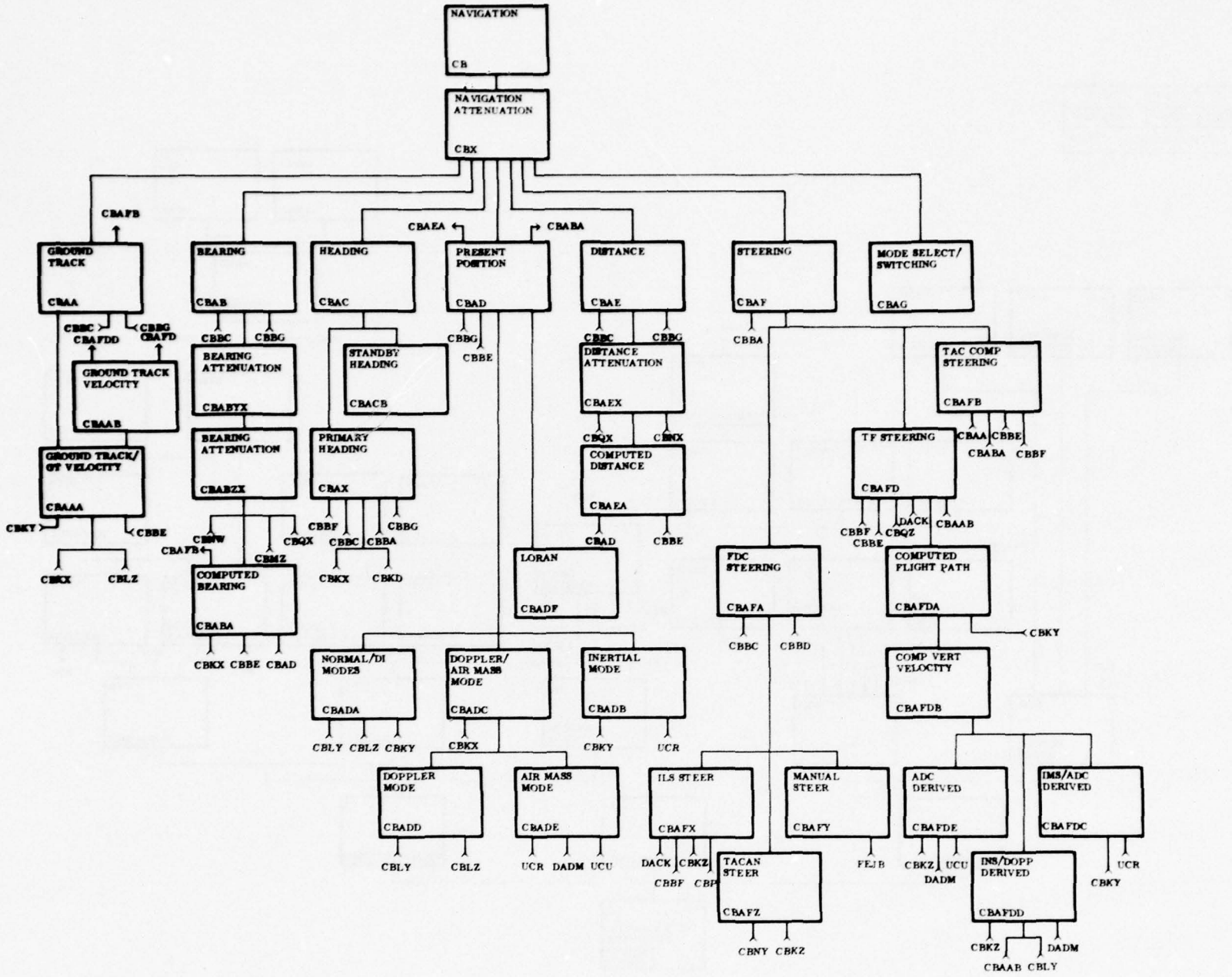


TITLE: PROPULSION FUEL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	B-3

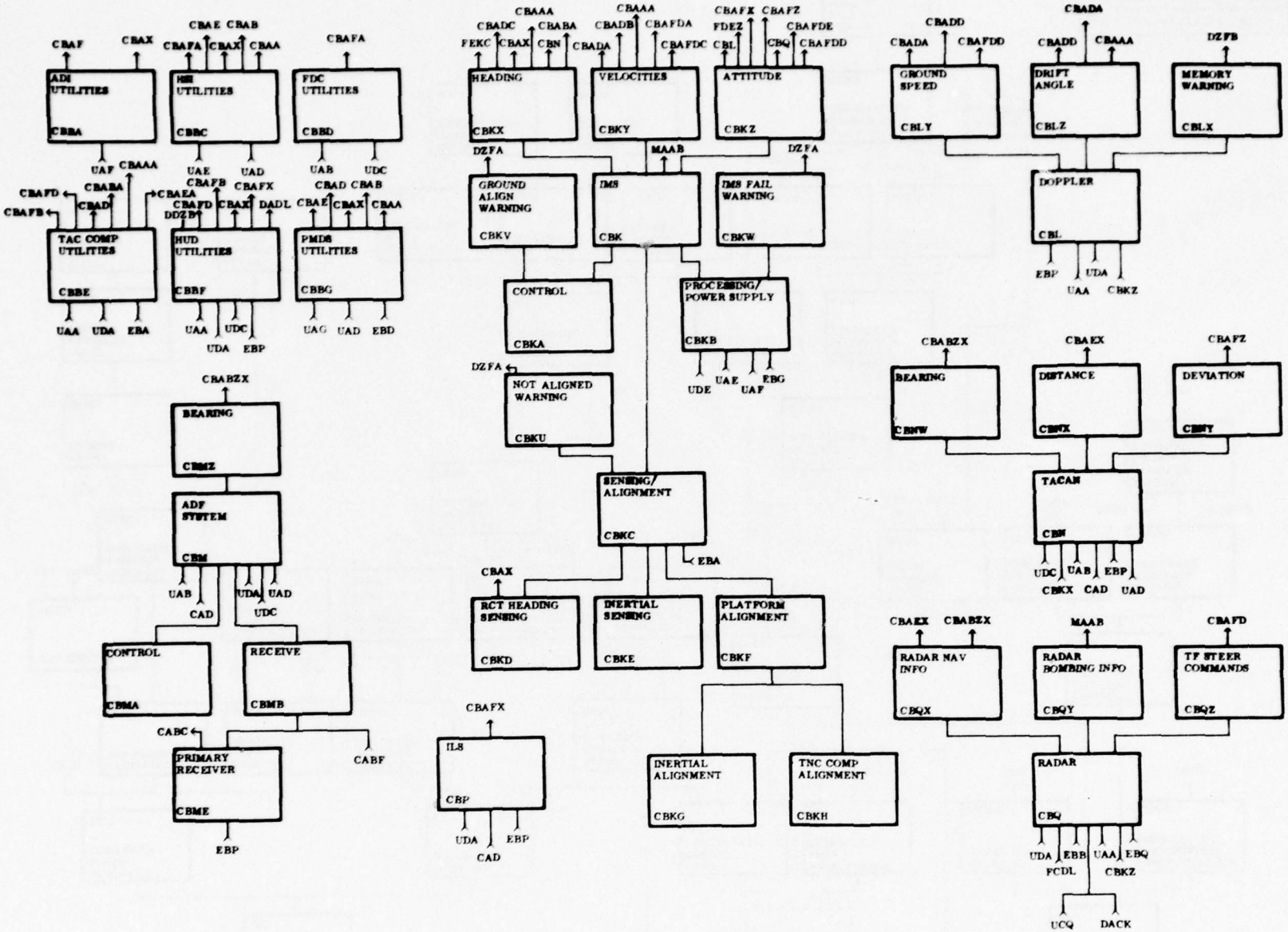

BFC BFQB
NORMAL FUEL SUPPLY & DIST
BFQ
BFC
EMERGENCY FUEL SUPPLIED
BFCA
BFQD
MID FUSELAGE TO SUMP FEED
BFCD
BFQC
SUMP TANK MOTIVE FLOW
BFBE
FWD TANK TO SUMP FEED
BFCC
WING TANK TO SUMP XFER
BFCE
WING FUEL ROUTED TO ENGINE
BFK
AFT FUEL ROUTED TO ENGINE
BFL
AFT TANK TO SUMP XFER
BFCF
BFBC
BFBF
BFBG
BFBH
BFAA
MID FUSELAGE FUEL CONTAINED
BFCP
FORWARD FUEL CONTAINED
BFCG
WING FUEL CONTAINED
BFCM
WING MOTIVE FLOW
BFCL
AFT MOTIVE FLOW
BFCJ
AFT FUEL CONTAINED
BFCN
BFBA
SUMP OVERFLOW RECYCLED
BFR
TANK MOTIVE FLOW XFERED
BFBF
UDC
FUEL SCAVENGED
BFQA
EXTERNAL FUEL STORED & XFERED
EXTERNAL TANKS PRESSURIZED
BFF
AIRCRAFT REFUELED
BFE
AUTOMATIC FLOW XFER
BFBG
EMERGENCY WING XFER
BFBH
SUMP FUEL SCAVENGED
BFQB
FWD FUEL SCAVENGED
BFQC
MID-FUEL SCAVENGED
BFQD
UDA
LACY
ECA
UAB
BFCG
BFCB
STATION 1 FUEL STORE
BFDA
STATION 3 FUEL STORE
BFDB
AIR REFUEL
BFEB
GROUND REFUEL
BFEA
FUEL LOW WARNING
BFBM
PILOT ACTION
BFBL
EHN
UDB
STATION 6 FUEL STORE
BFDC
STATION 8 FUEL STORE
BFDD
AIR REFUEL CONTROLLED
BFEC
AIR REFUEL MECHANICALLY ENABLED
BFED
UHB
FUEL QTY INDICATED
BFBK
TITLE: PROPULSION FUEL
AIRCRAFT
DATE
DIAGRAM
A-7D
OCT. 75
B-4



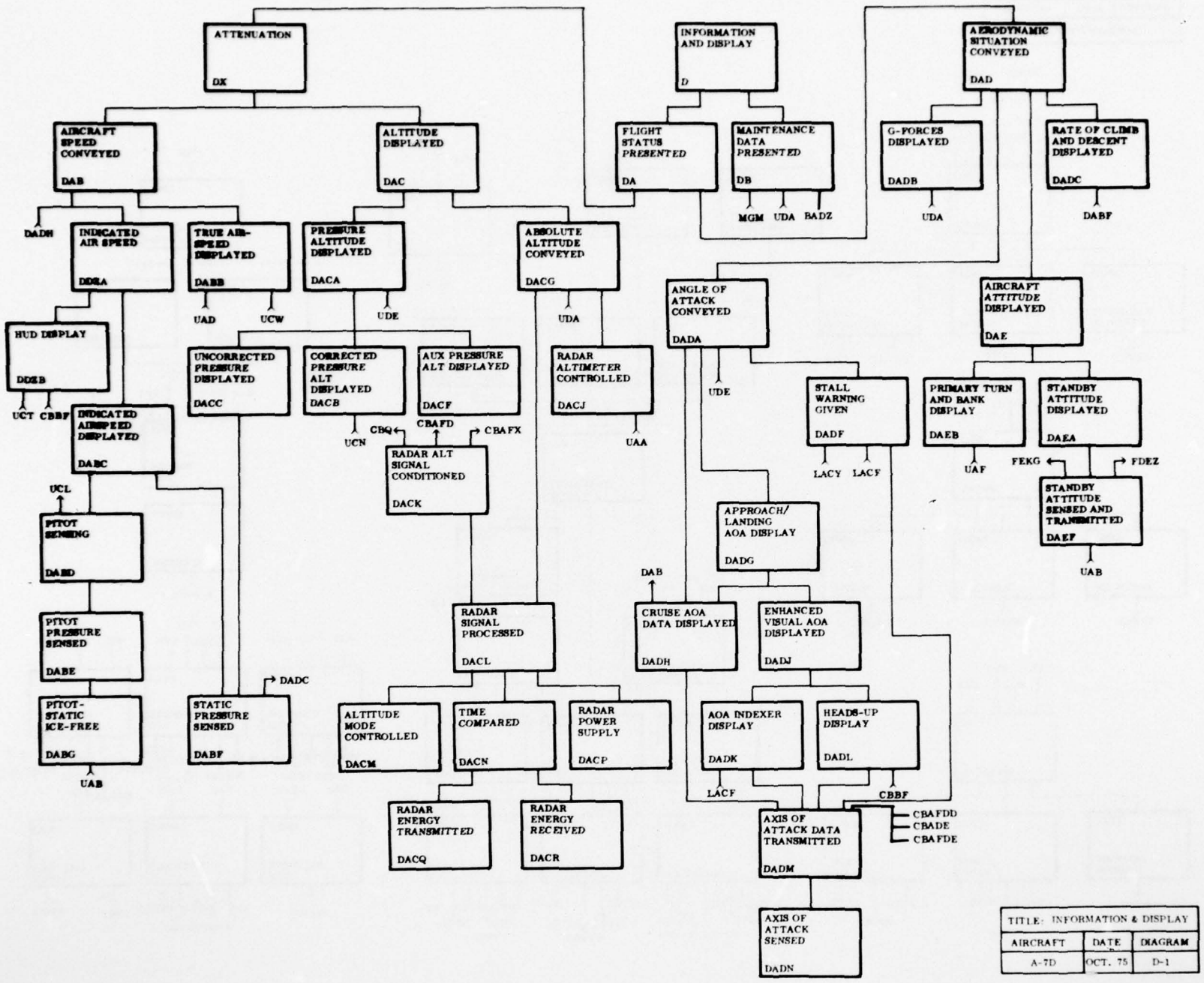
TITLE: COMM/NAV/IDENT		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	C-1



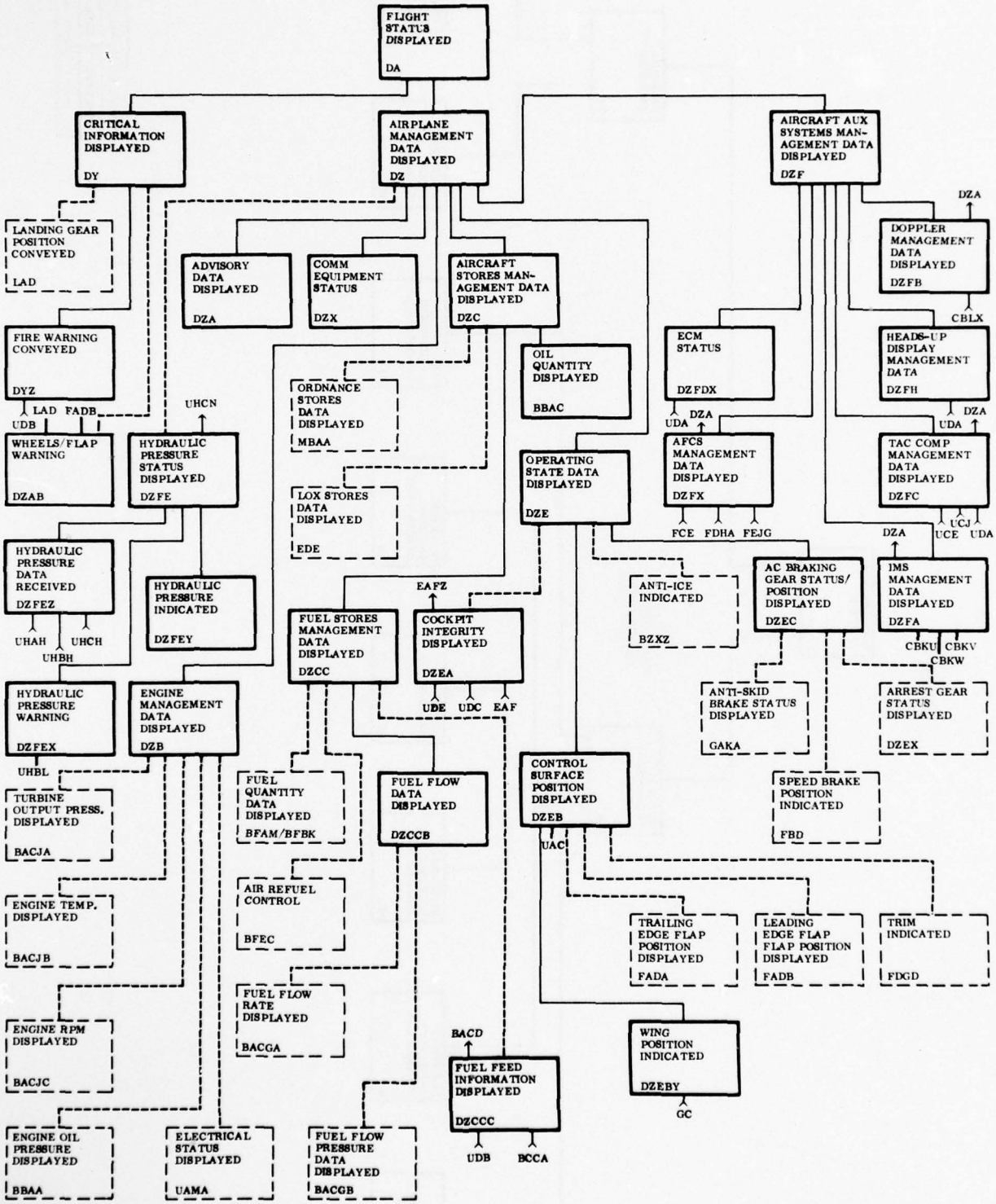
TITLE: COMM/NAV/IDENT		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	C-2



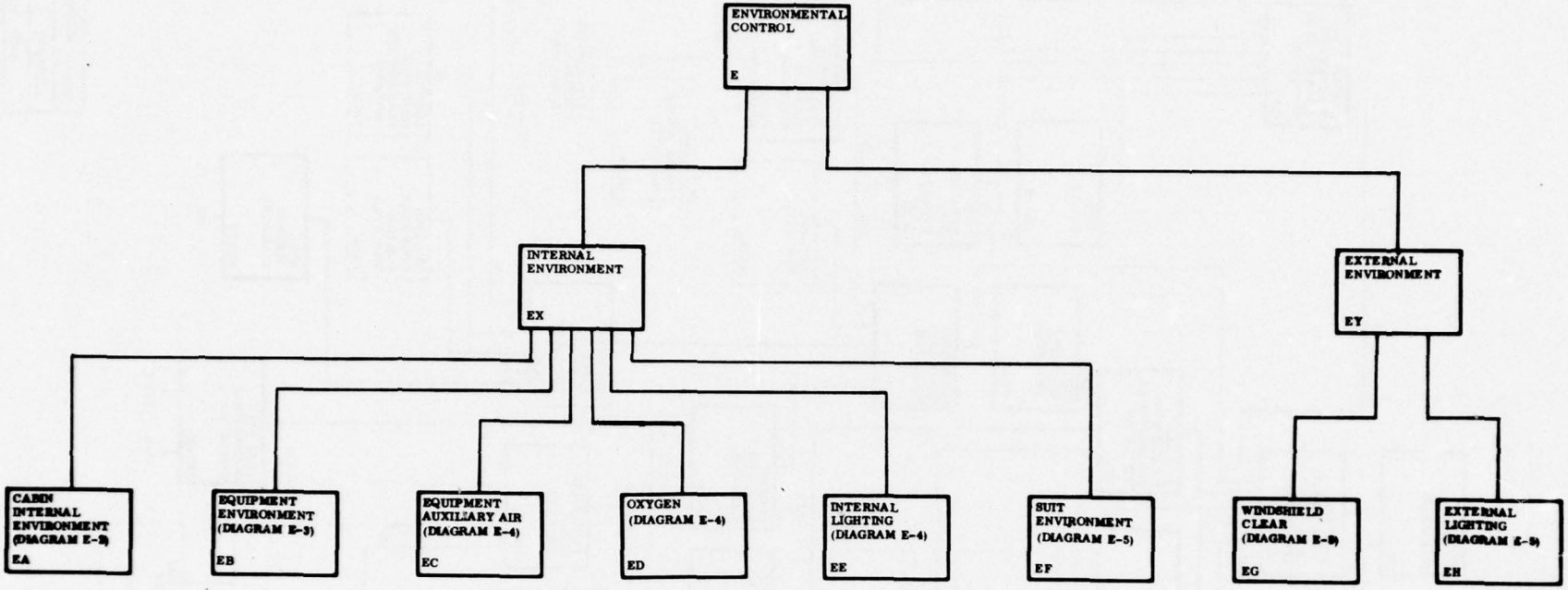
TITLE: COMM/NAV/IDENT		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	C-3



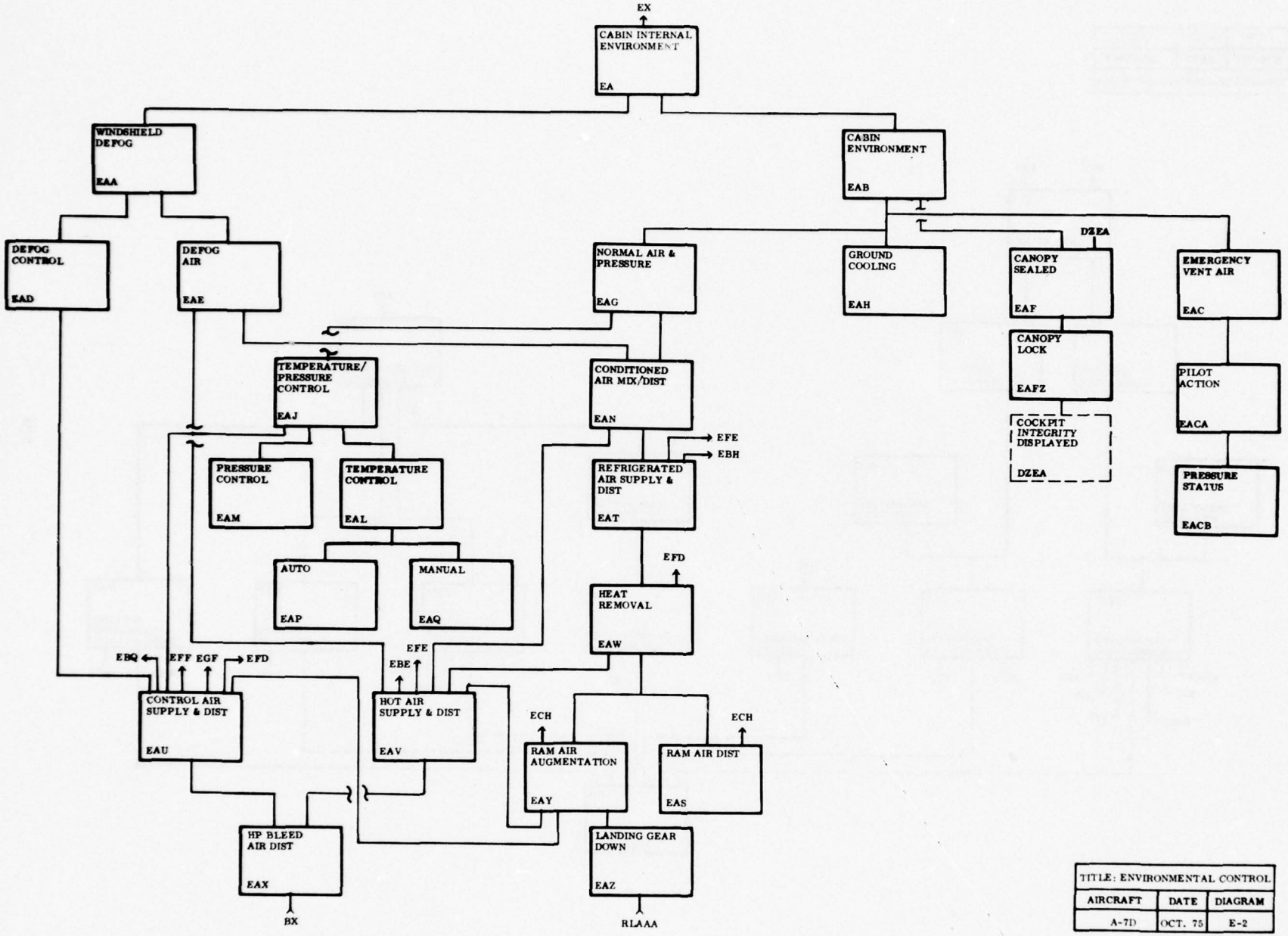
TITLE: INFORMATION & DISPLAY		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	D-1



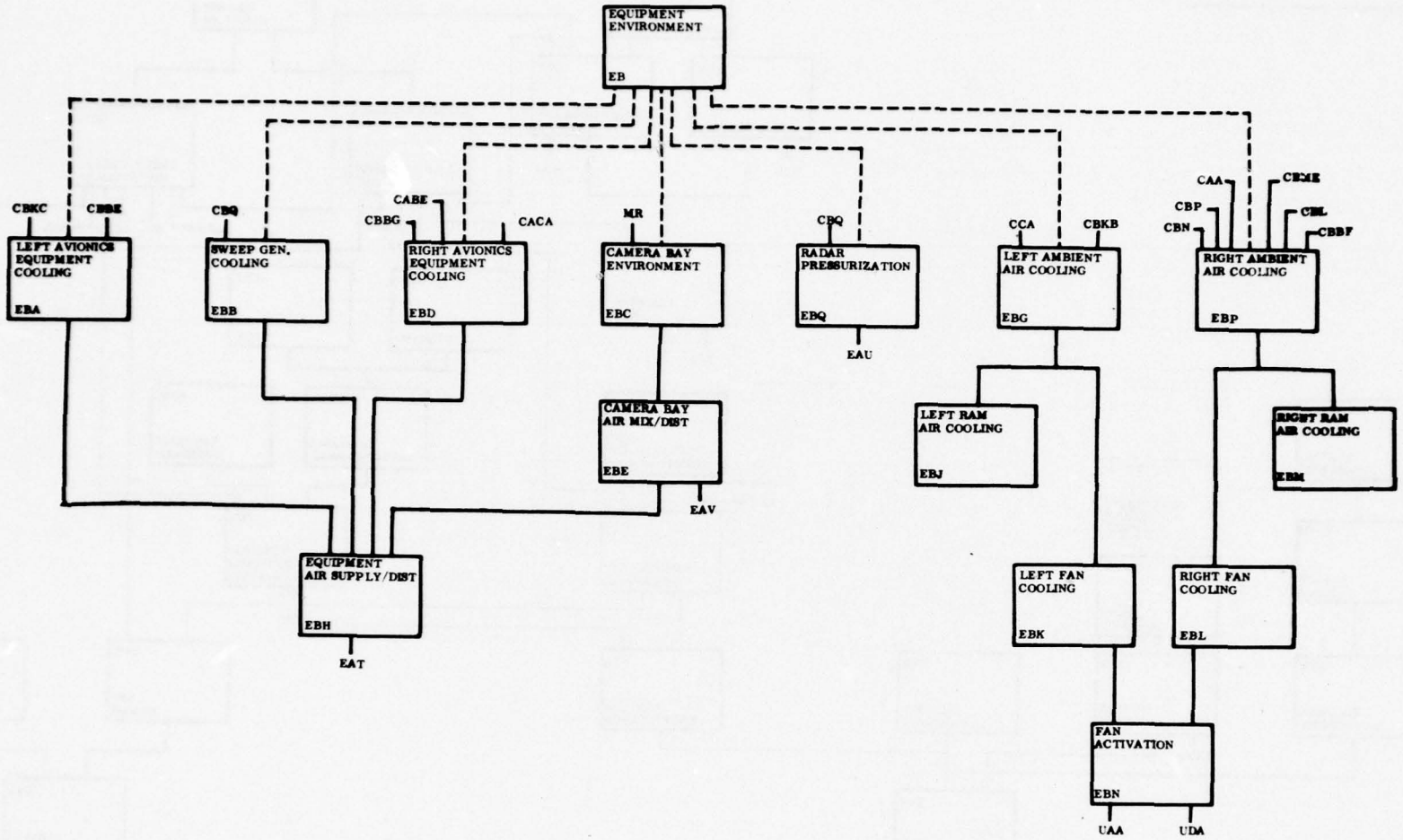
TITLE: INFORMATION & DISPLAY		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	D-2



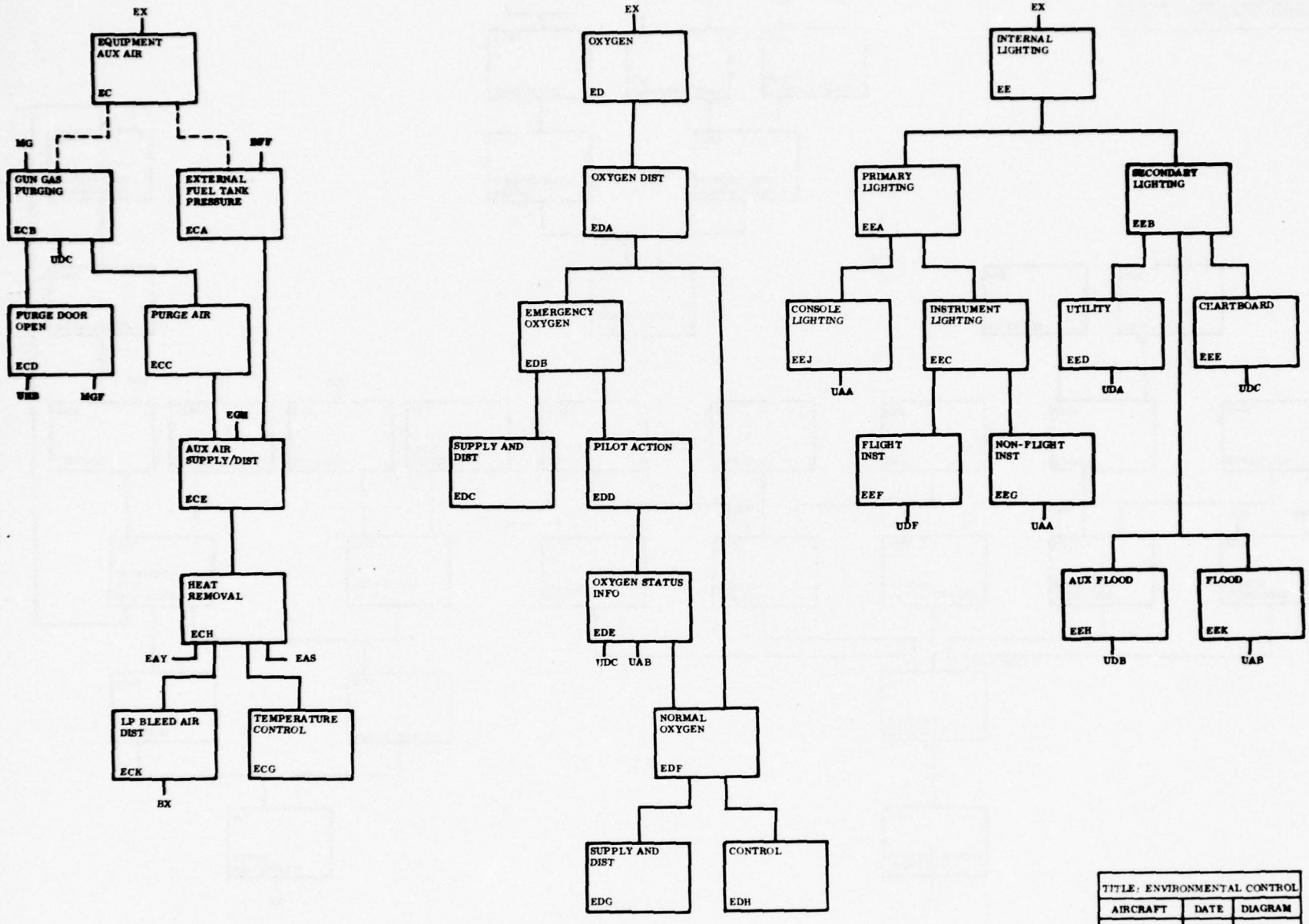
TITLE: ENVIRONMENTAL CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	E-1



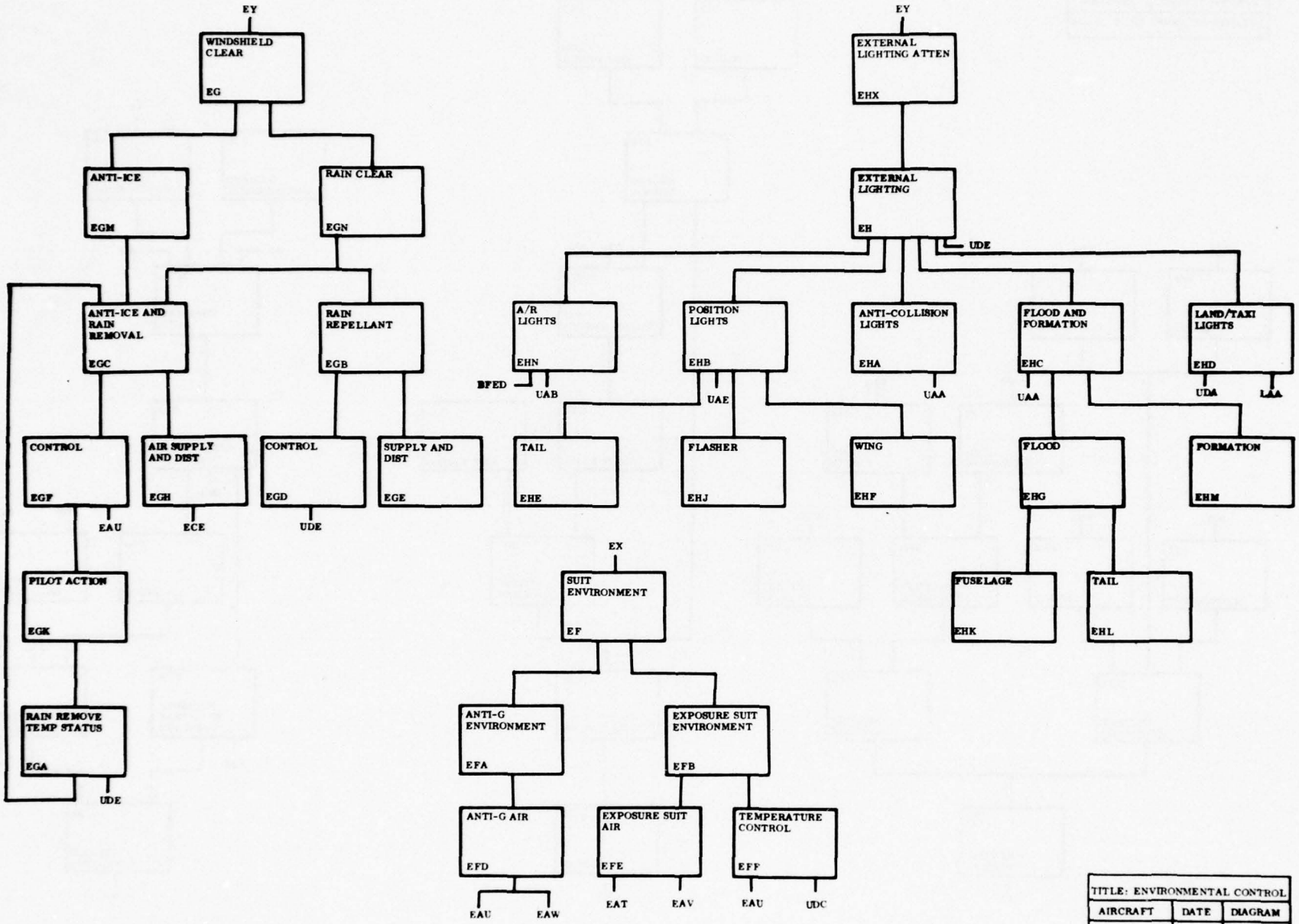
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AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	E-2



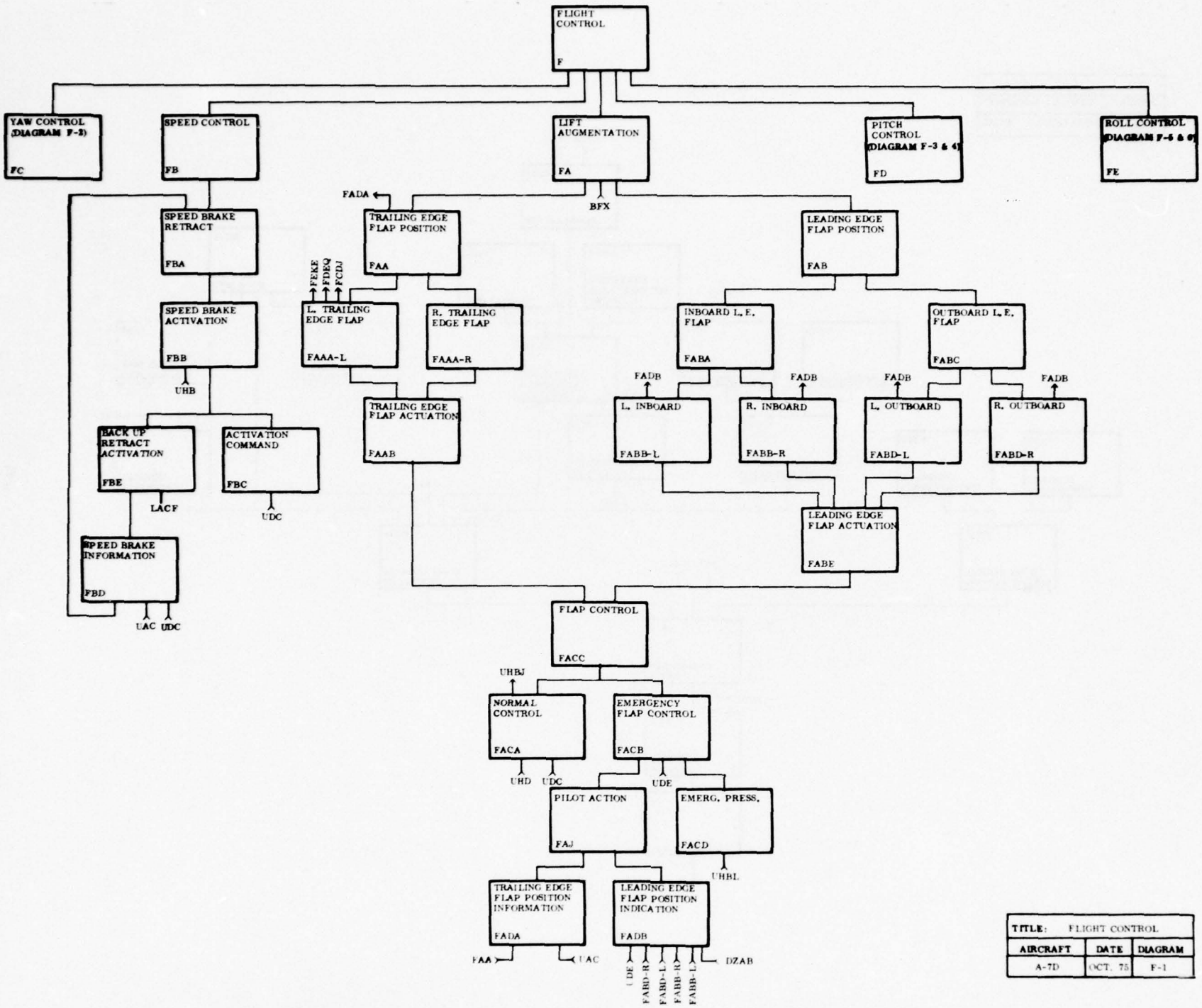
TITLE: ENVIRONMENTAL CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	E-3



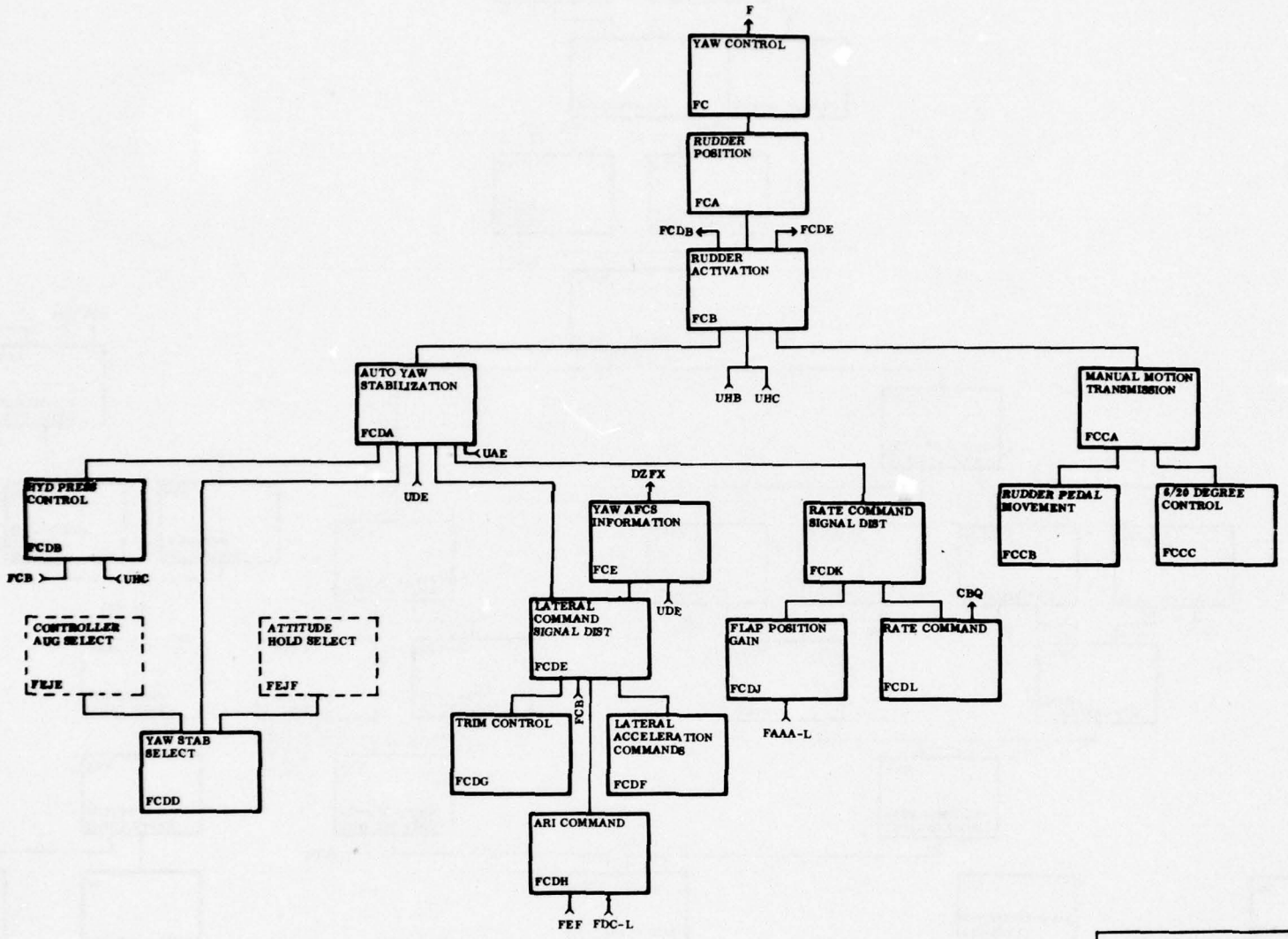
TITLE: ENVIRONMENTAL CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	E-4



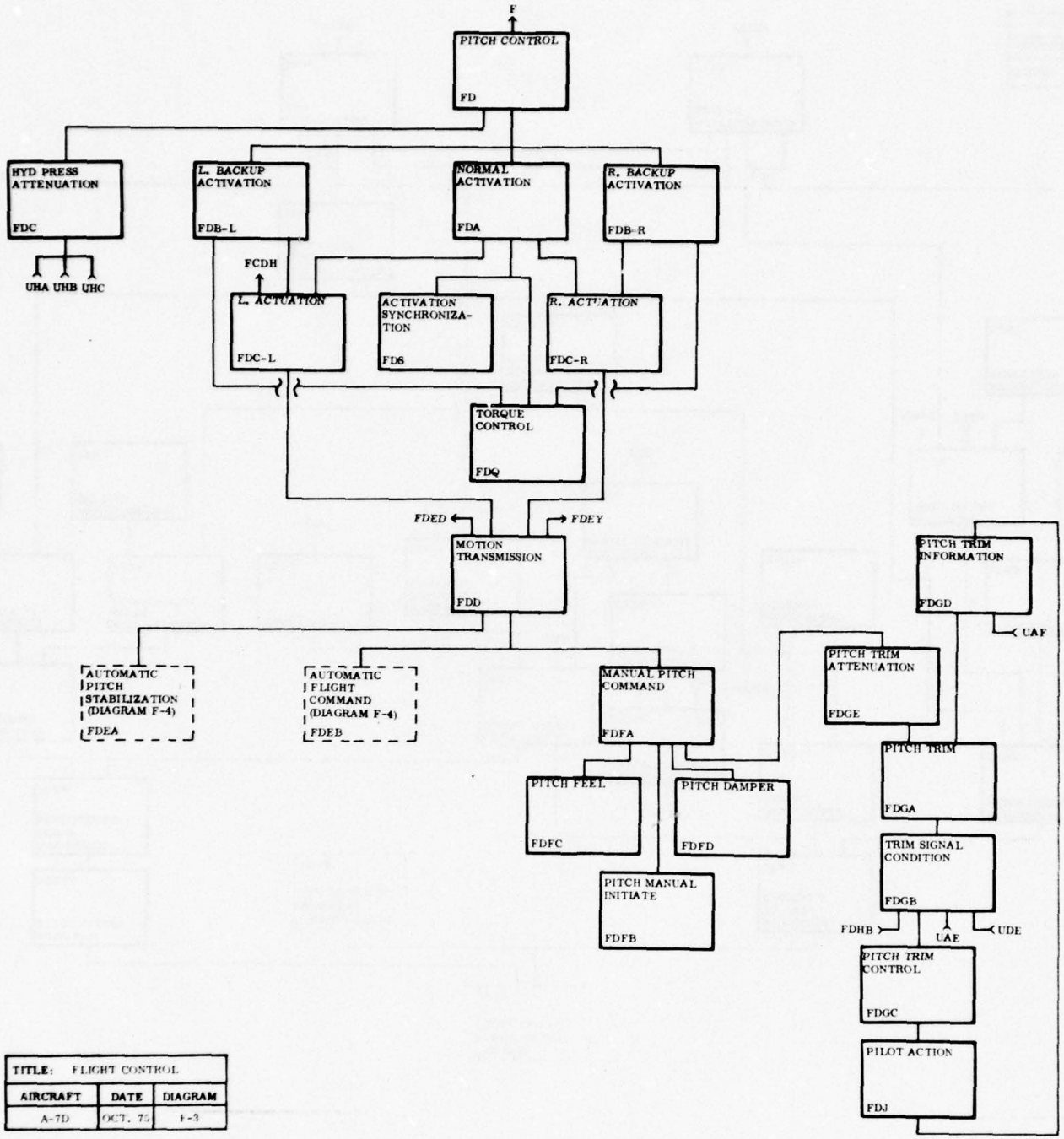
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AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	E-5



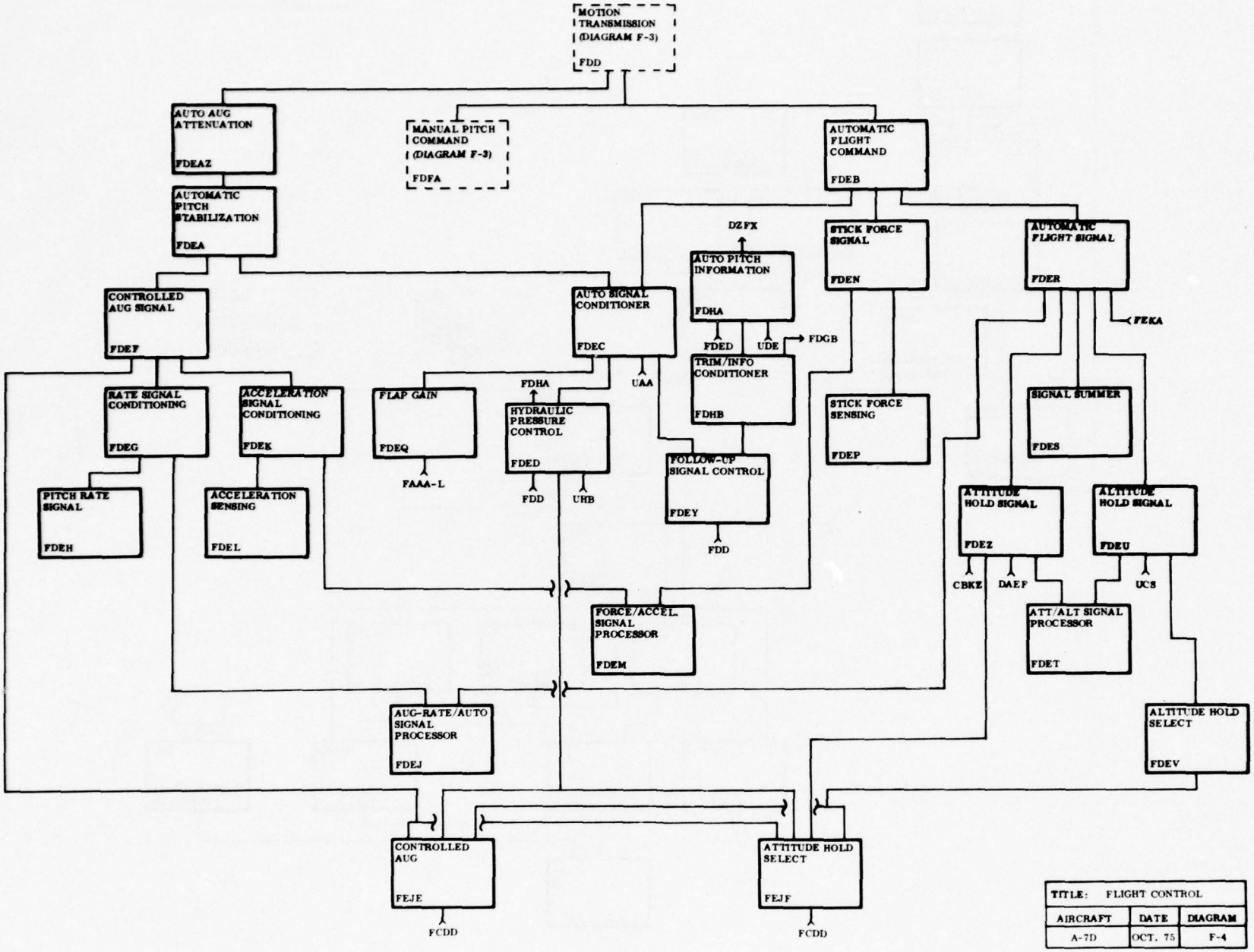
TITLE: FLIGHT CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 78	F-1



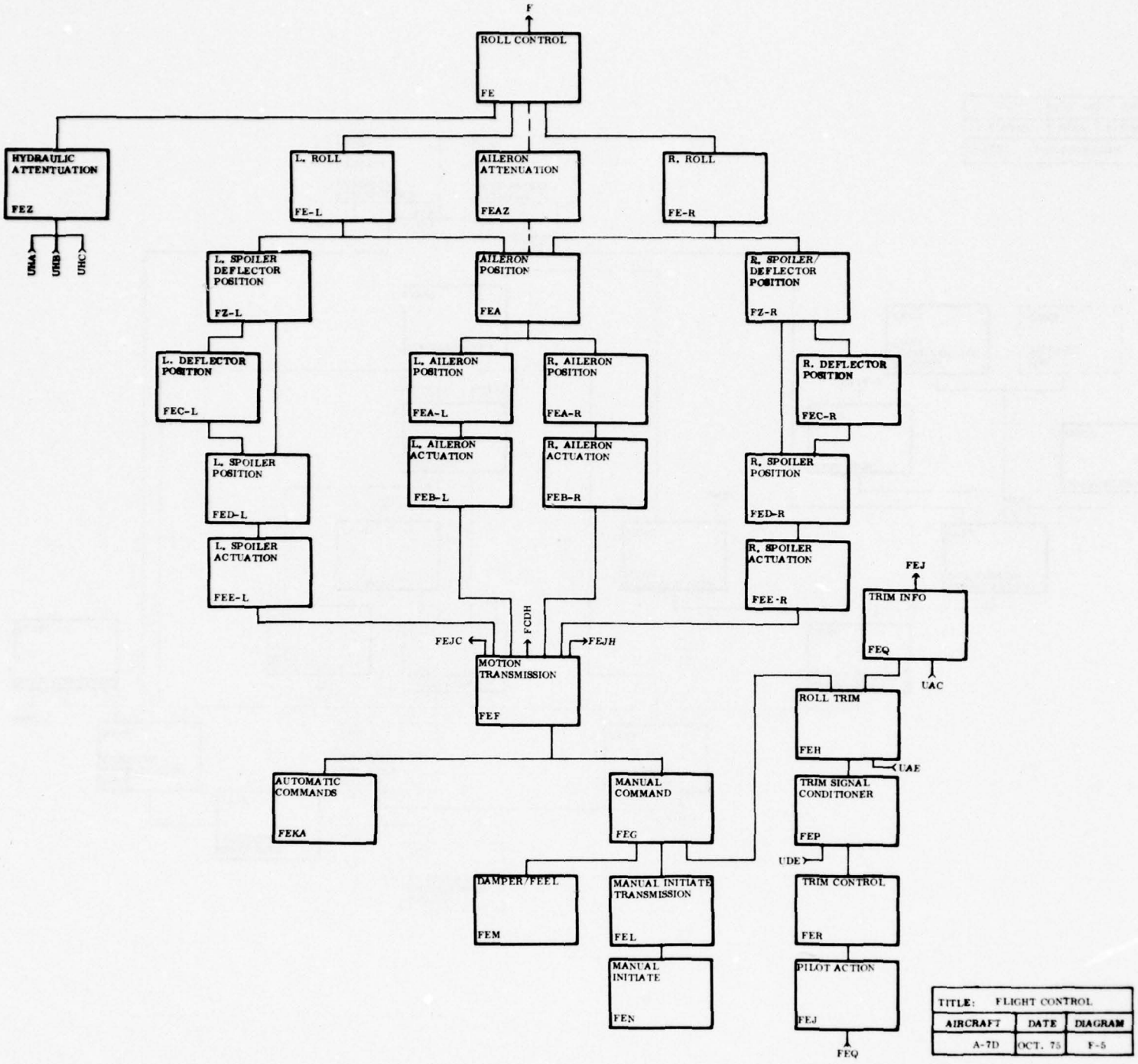
TITLE: FLIGHT CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	F-2



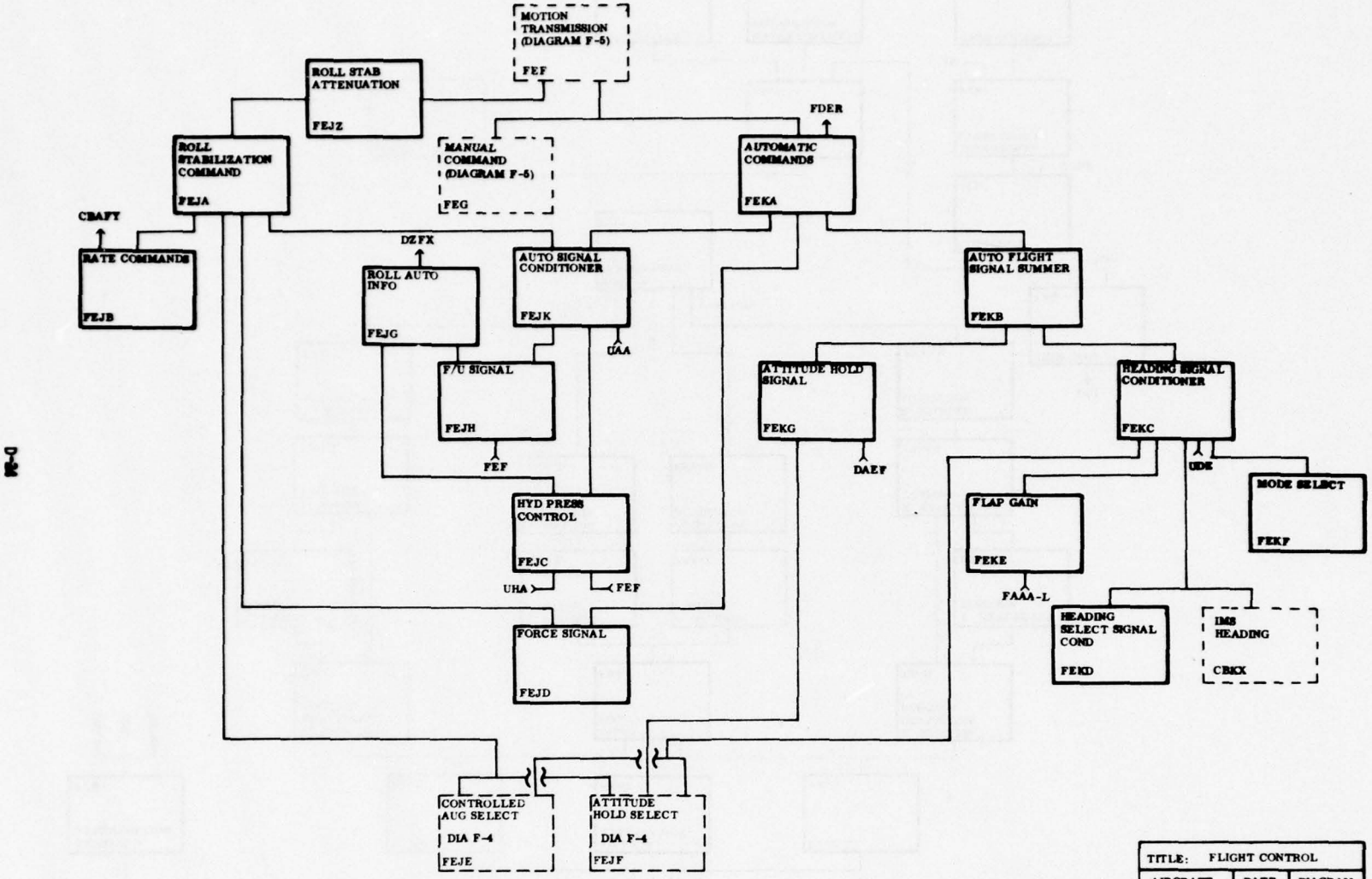
TITLE: FLIGHT CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	F-3



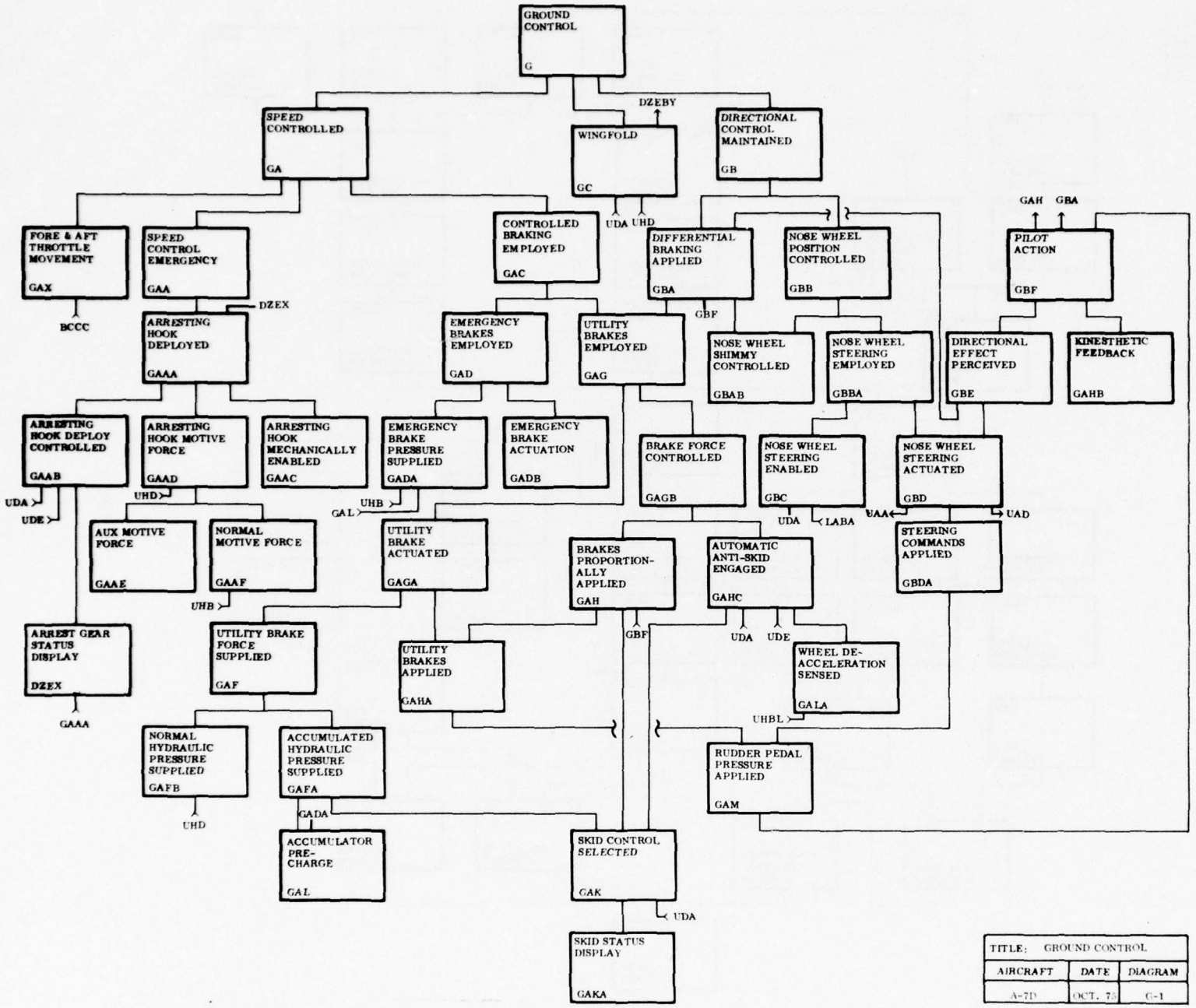
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AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	F-4



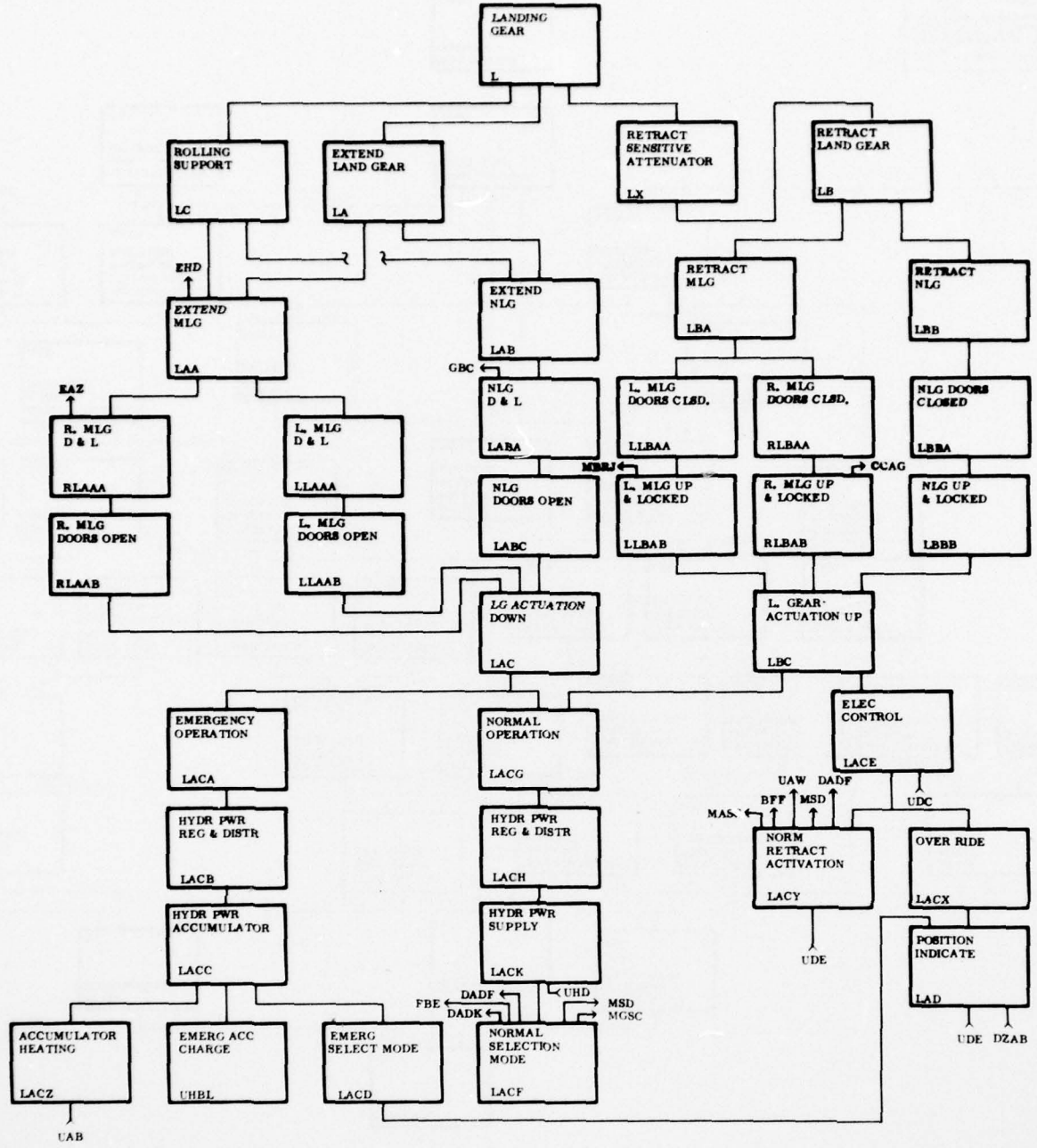
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AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	F-5



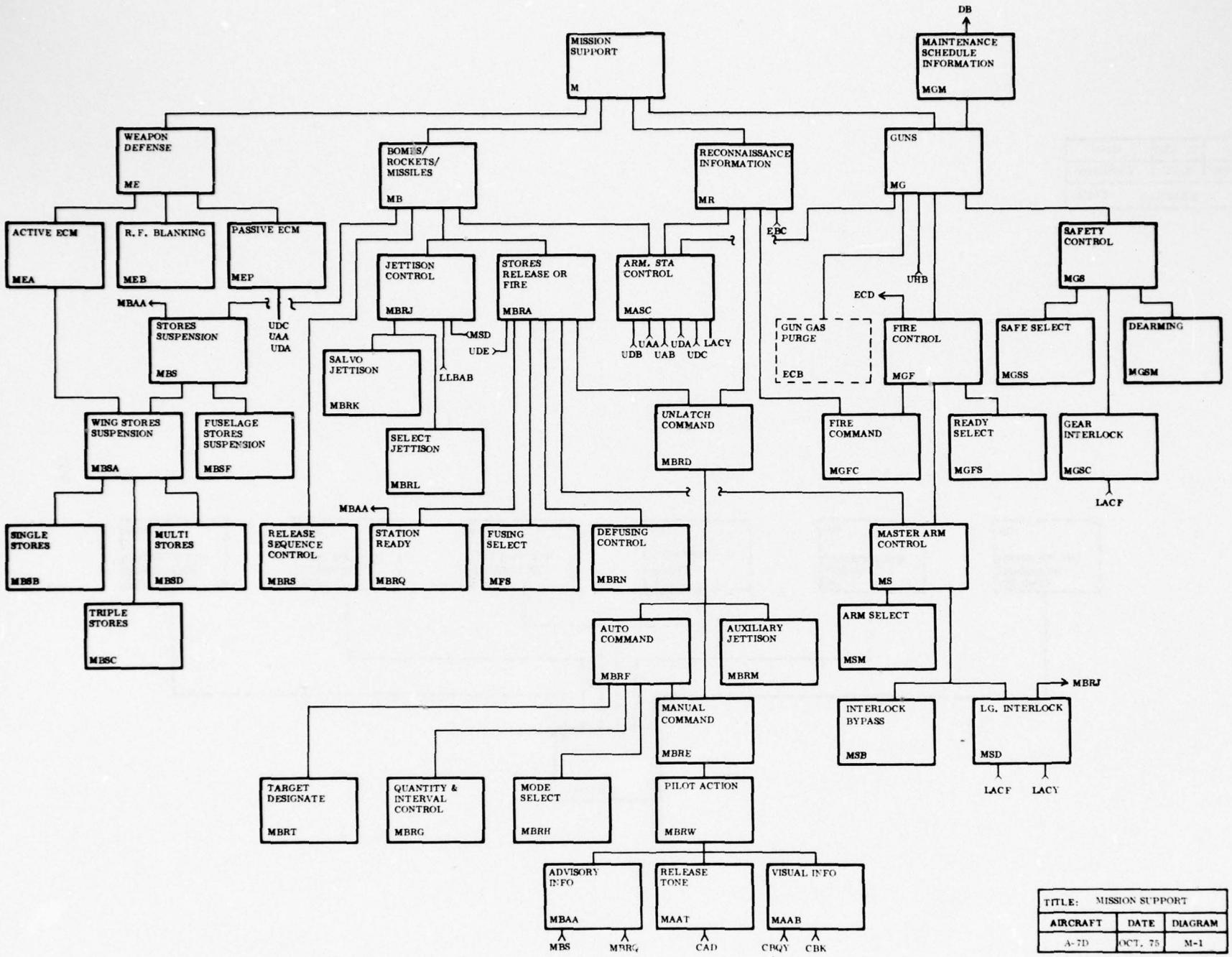
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AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	F-6



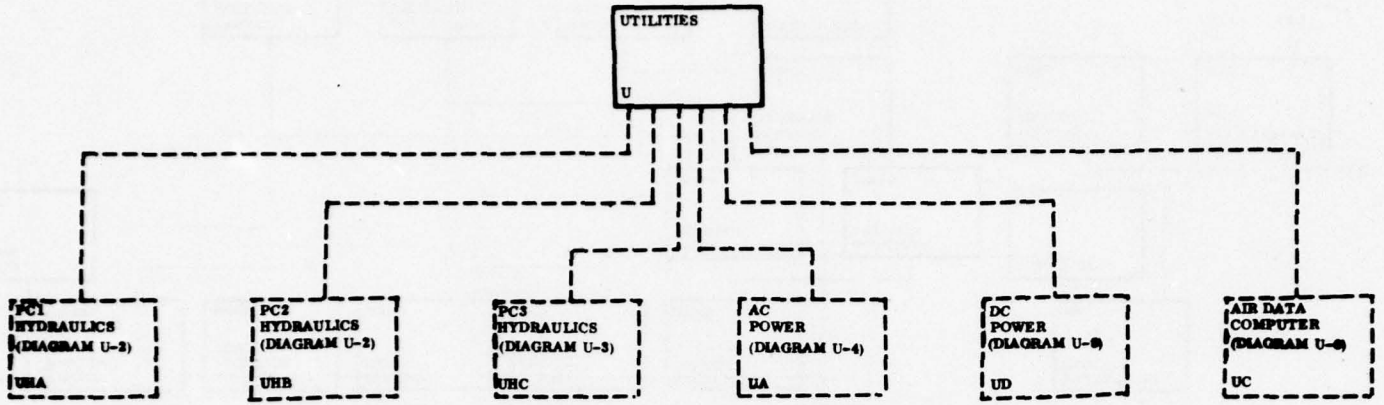
TITLE: GROUND CONTROL		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 73	G-1



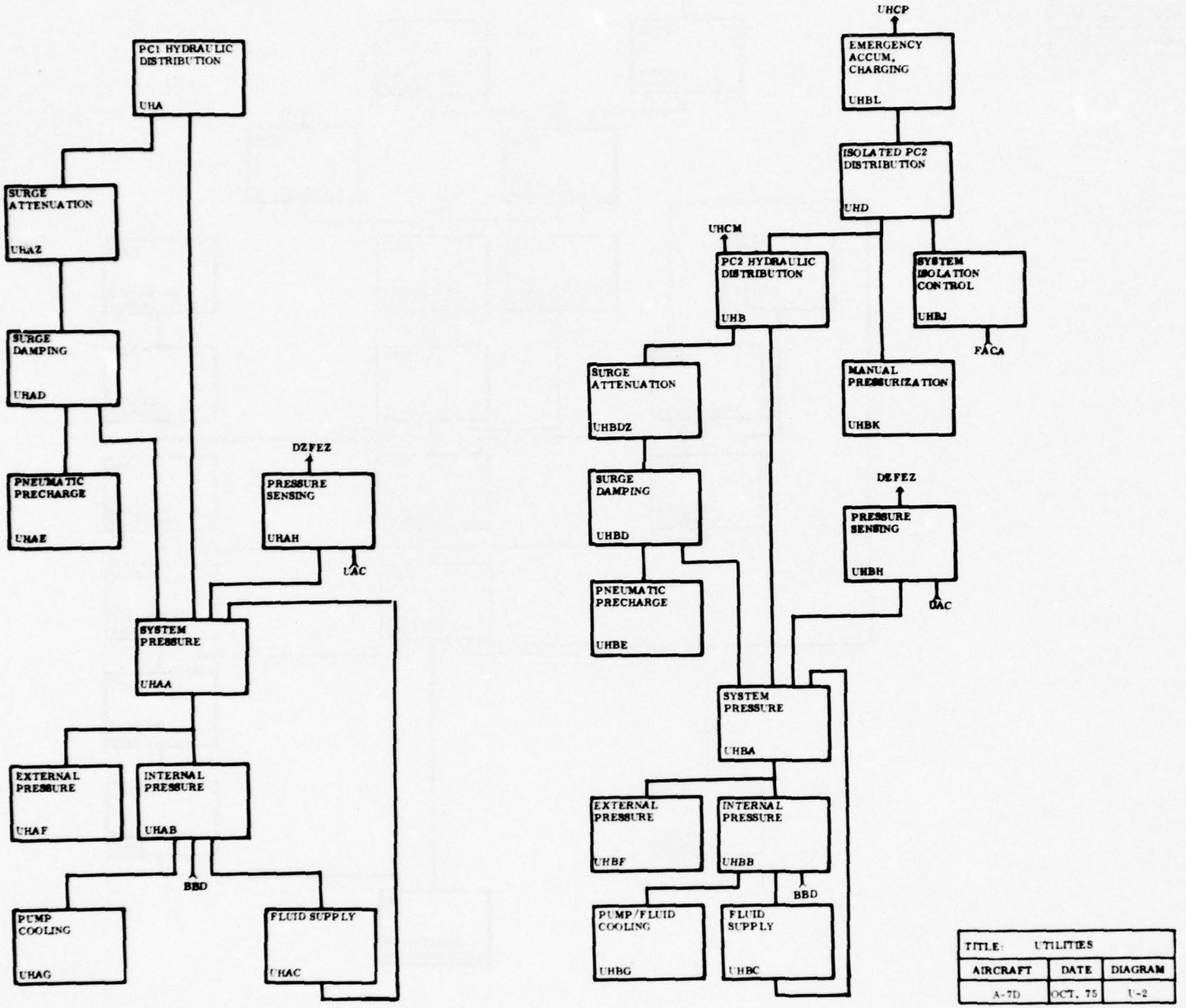
TITLE: LANDING GEAR		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	L-1



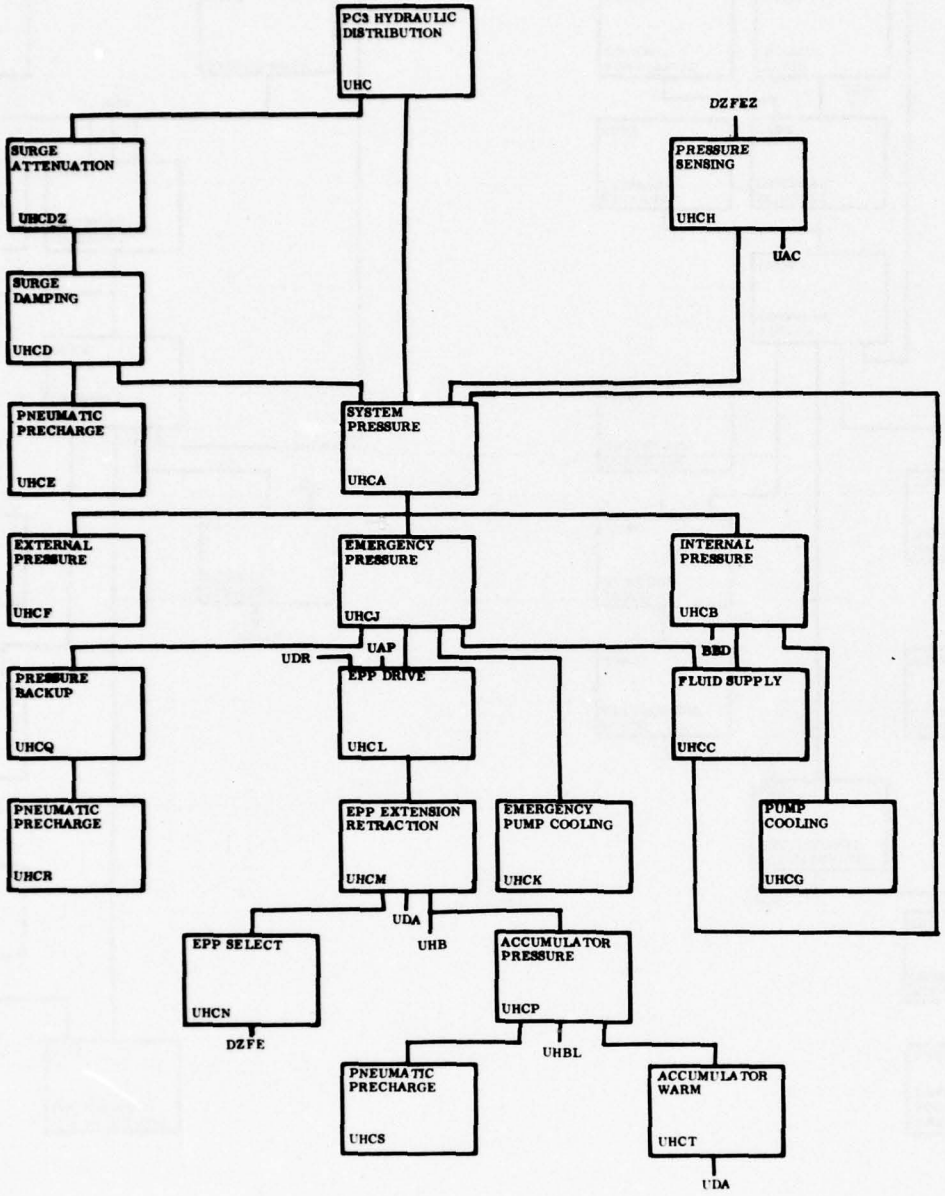
TITLE: MISSION SUPPORT		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	M-1



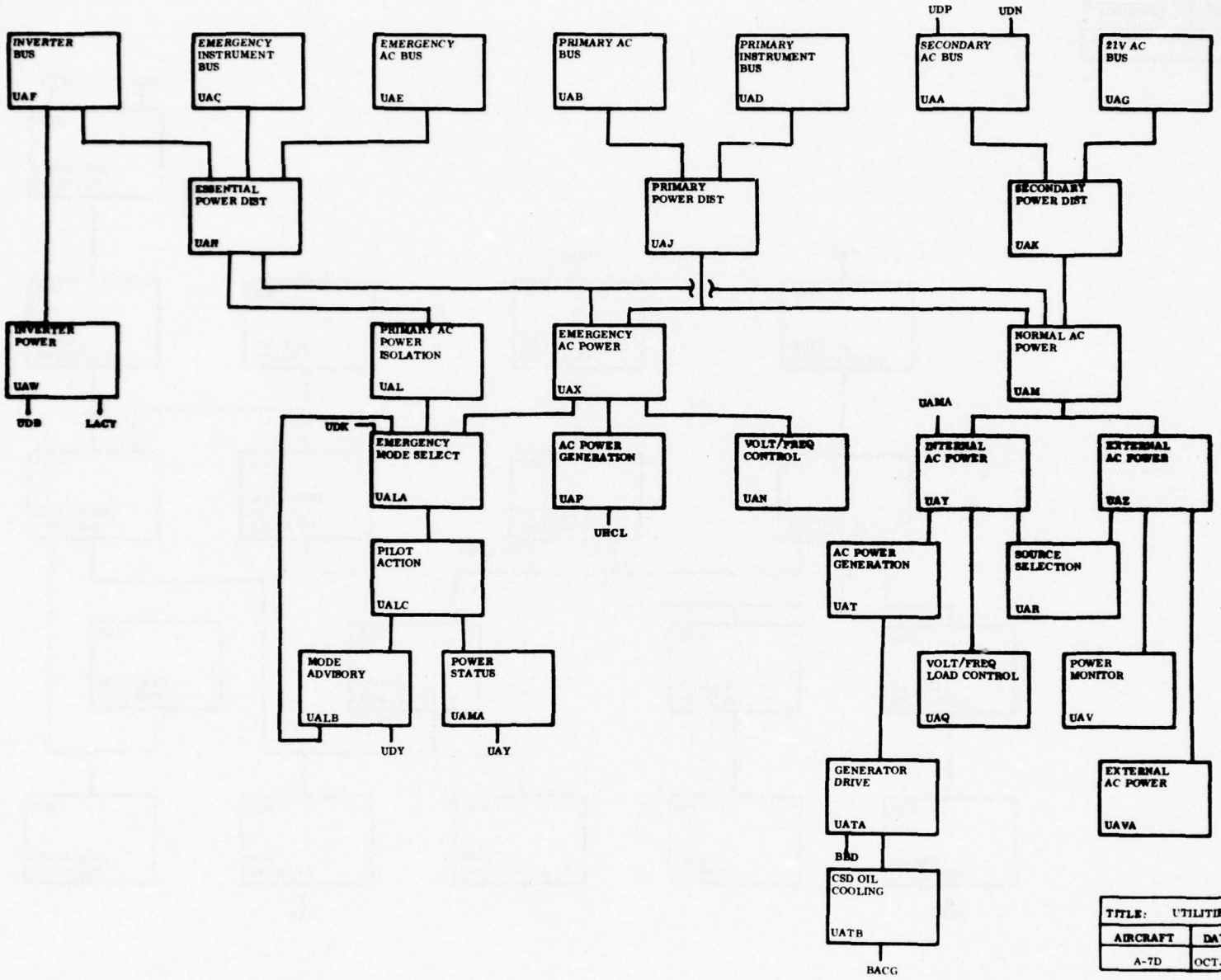
TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	U-1



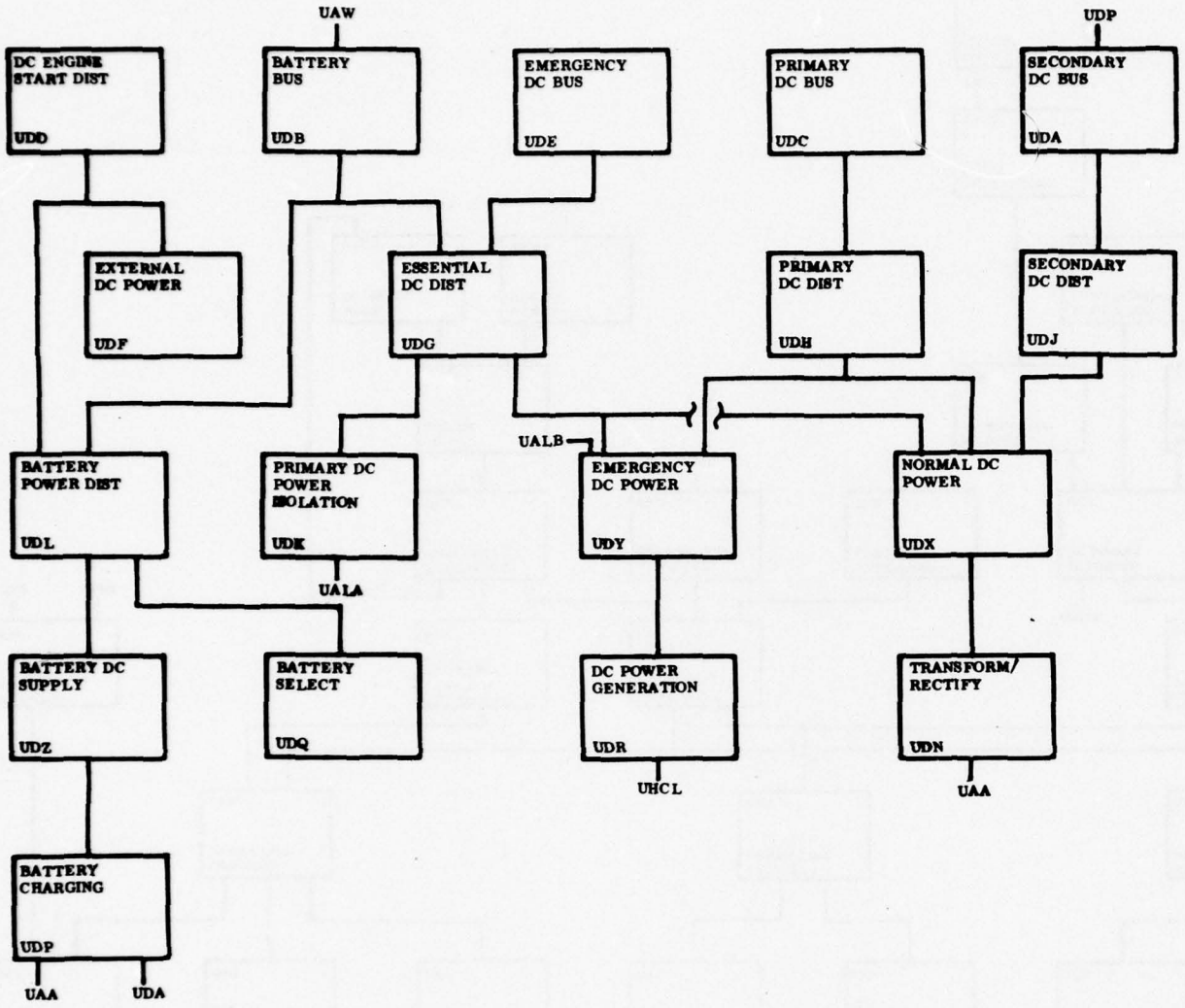
TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	U-2



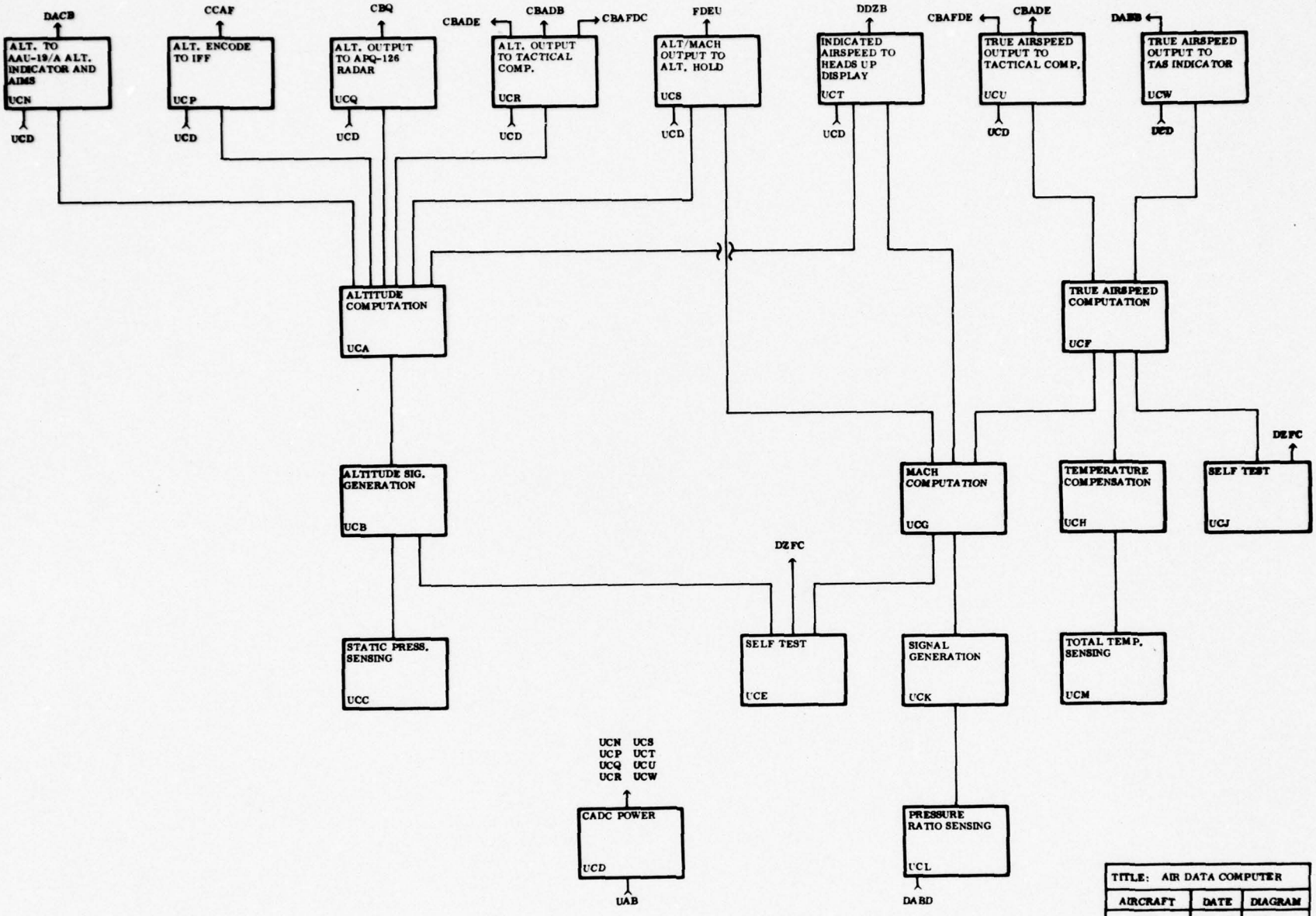
TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	U-3



TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	U-4



TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	U-5



TITLE: AIR DATA COMPUTER		
AIRCRAFT	DATE	DIAGRAM
A-7D	OCT. 75	UC-1

```
0000000001111111111222222222233333333334444444444555555555566666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
P56095.J1CC A-7D     A7D
A7DPROPULSION                                B                                  0AAAAAAAA
A7DENGINE THRUST DEVELOPED                   BA              B                  0AAAAAA90
A7DENGINE THRUST DEVELOPED                   BA              BD                 FAAAAAAAAA
A7D IGNITION                                 BAA             BC                 AA1AAAAAA
A7D   TAILPIPE                  239BA N BAAA              BA              5
A7D   BYPASS EXAUST MIXER ASSY  231PD N BAAAD             BA              4
A7D   MIXER UNIT SEAL RING      231PB N BAAB              BA              6
A7D   EXHAUST MXR FAIRING ASSY  231PC N BAAC              BA              5
A7D   TURBINE EXAUST CONE ASSY  231PE N BAAED             BA              5
A7D   TURB EXAUST FAIRING ASSY  231PF N BAAFD             BA              5
A7D   TURB EXAUST CHANNEL ASSY  231PG N BAAGD             BA              5
A7D   TURBINE EXAUST CASE ASSY  231NE N BAAH              BA              4
A7D   TURBINE EXHAUST CASE      231NN N BAAJ              BA              A
A7D IGNITION GENERATED                       BAB             BAA     T          AAAAAAAAA
A7D   SPARK IGNITER LEAD        231XA N BABA              BAB             2
A7D   SPARK IGNITER            231XB N BABB              BAB             2
A7D   IGNITION EXCITER          231XC N BABC              BAB             2
A7D   PERMANENT MAG.GENERATOR   231WL N BABD              BAB             A
A7D LEAD SPARK IGNITER   2EA     23EAD    BABW             BAB             2
A7D SPARK IGNITER ASSY   2EA     23EAA    BABX             BAB             2
A7D IGNITION EXCITER             23EAB    BABY             BAB             2
A7D PERM MAG GENERATOR           23EAC    BABZ             BAB             A
A7D IGNITION SUSTAINED                       BAC             BAA                AAAAAAAAA
A7D FUEL CONTROL SELECT                      BACD            BCCA               AAAAAAAAA
A7D FUEL CONTROL SELECT                      BACD            BCCB               FAAAAAAAAA
A7DFUEL CONTROL SWITCH           9923Z    BACDZ            BACD            A
A7D ENGINE OPERATION LIMITED                 BACE            BCCB               222222222
A7D   TEMPERATURE LIMIT.AMPL.  231WK N BACEA              BACE            7
A7D   MAIN ELECTRICAL HARNESS  231WF N BACEB              BACF            8
A7D RESISTOR ASSEMBLY            23GAJ    BACEX            BACF            5
A7D TEMP LIMIT AMPLIFIER         23GAA    BACEZ            BACE            7
A7DPILOT ACTION                              BACF            BADY               FAAAAAAAAA
A7DPILOT ACTION                              BACF            BAFB               FAAAAAAAAA
A7D  PILOT ACTION                            BACF            BAFY               AAAAAAAAA
A7DPILOT ACTION                              BACF            BCCC               AAAAAAAAA
A7DENGINE FUEL PRESSURIZED                   BACG            BACGB              FAAAAAAAAA
A7DENGINE FUEL PRESSURIZED                   BACG            BCBA               FAAAAAAAAA
A7DENGINE FUEL PRESSURIZED                   BACG            BCC                AAAAAAAAA
A7D ENGINE FUEL BOOSTERED                    BACG            BFBC               FAAAAAAAAA
A7DFUEL                                      BACG            UATH               F111111111
A7DFUEL FLOW STATUS IND                      BACGA           BACF    I BACL  111111111
A7D   HP VELOCITY FUEL FILTER  231TH N BACGAA              BACG            1
A7D   HP FUEL PUMP             231TL N BACGAB              BACG            5
A7D   HP FUEL PUMP DRIVE GEAR  231SS N BACGAC              BACG            A
A7D   FUEL FLOW TRANSMITTER    233EA N BACGAD              BACGA           8
A7D   FUEL FLOW INDICATOR      233EB N BACGAE              BACGA           3
A7DFUEL FLOW INDICATOR           23HEB    BACGAY           BACGA           3
A7DFUEL FLOW TRANSMITTER         23HFA    BACGAZ           BACGA           8
A7DFUEL PRESSURE STATUS IND                  BACGB           BACF    I BACG  111111111
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```
0000000001111111111222222222233333333334444444444555555555566666666677777777773
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D   BOOST PUMP DIFF PRESS SW 233GA N BACGBA          BACGB       5
A7D   ENG LP PUMP PRESS SWITCH 233GB N BACGBB          BACGB       5
A7D   HP FUEL PUMP PRESS SW    231TD N BACGBC          BACGB       5
A7DLIGHT  BOOST  PUMP LOW WARN 12DBO   BACGBU          BACGB       2
A7DLIGHT  ENG LP WARNING       12DBO   BACGBV          BACGB       2
A7DLIGHT  ENG HP WARNING       12DBO   BACGBW          BACGB       2
A7D SWITCH ENG. LP FUEL PUMP   23HGC   BACGBX          BACGB       5
A7DSWITCH ASSY HP FUEL PUMP    23HGB   BACGBY          BACGB       5
A7DSWITCH FUEL BOOST PUMP      23HGA   BACGBZ          BACGB       5
A7DFUEL BYPASS VALVE           23CAM   BACGS           BACG        7
A7DBYPASS VALVE SEAT           23CAY   BACGT           BACG        2
A7DCAP ASSY FUEL FILTER        23CAX   BACGU           BACG        0
A7DFUEL FILTER HOUSING ASSY    23CAW   BACGV           BACG        2
A7DFUEL FILTER ELEMENT         23CAV   BACGW           BACG        0
A7DHI-PRESS FUEL FILTER ASSY   23CAU   BACGX           BACG        2
A7DVELOCITY FUEL FILTER        23CAT   BACGY           BACG        1
A7DMAIN FUEL PUMP              23CAC   BACGZ           BACG        5
A7D MASS AIRFLOW SENSED                BACH            BACE          555555555
A7D   LP COMPRESSOR TACHOMETER 231WH N BACHA           BACH        A
A7D LP TACH GENERATOR          23GAK   BACHZ           BACH        A
A7D ENG PERFORMANCE STATUS             BACJ            BACF          888888888
A7D ENG PERFORMANCE STATUS             BACJ            BACF         F555555555
A7D TURBINE OUTPUT PRESS STATUS        BACJA           BACJ          333333333
A7D   TURBNE OUTLET PRESS XMTR 233AA N BACJAA          BACJA       8
A7D   TURBINE OUTLET PRESS IND 233AB N BACJAB          BACJA       A
A7D   ELECTRICAL WIRING        233AC N BACJAC          BACJA       3
A7D   P5 AIR MANIFOLD          231YF N BACJAF          BACJA       5
A7D   P5 AIR PROBE 9EA         231YG N BACJAG          BACJA       1
A7D TOP ELECTRICAL WIRING      23HAC   BACJAU          BACJA       3
A7D TOP INDICATOR              23HAB   BACJAV          BACD        2
A7D TURBINE PRESS XMTR         23HAA   BACJAW          BACJA       8
A7D AIR LINE MANIFOLD          23HAG   BACJAX          BACJA       5
A7D FLEX HOSE                  23HAE   BACJAY          BACJA       6
A7D PROBE P-5 AIR  9 EACH      23HAD   BACJAZ          BACJA       1
A7D TURBINE OUTLET TEMP STATUS         BACJB           BACJ          333333333
A7D   T3 THERMOCOUPLE HARNESS  231WA N BACJBA          BACJB       3
A7D   T3 THERMOCOUPLE 2EA      231WB N BACJBB          BACJB       3
A7D   T5 THERMOCOUPLE HARNESS  231WC N BACJBC          BACJB       7
A7D   T5 THERMOCOUPLE BOX      231WD N BACJBD          BACJB       5
A7D   T5 THERMOCOUPLE 9EA      231WE N BACJBE          BACJB       1
A7D   TOT INDICATOR            233DA N BACJBF          BACJB       A
A7D   DOUBLE DATUM THROTTLE SW 231WM N BACJBM          BACJB       2
A7D THERMOCOUPLE ASSY T-3  2EA 23GAB   BACJBU          BACJB       3
A7D ENG HOT CAUTION LIGHT      12DBO   BACJBV          BACJB       1
A7D TURBINE TEMP INDICATOR     23HDC   BACJBW          BACJB       2
A7D T-5 THERMOCOUPLE  9 EACH   23HDA   BACJBX          BACJB       1
A7D HARNESS ASSY T-5 THERMO    23HDB   BACJBY          BACJB       7
A7D BOX ASSY T-5 THERMOCOUPLE  23GAG   BACJBZ          BACJB       5
A7DENGINE RPM STATUS                   BACJC           BACJ          333333333
A7D   TACHOMETER GENERATOR     233FA N BACJCA          BACJC       8
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A7D   TACHOMETER INDICATOR      233FM N BACJCB          BACJC          A
A7D TACH GENERATOR              23HFA   BACJCY          BACJC          8
A7D TACH INDICATOR              23HFB   BACJC7          BACD           2
A7D HARNESS ASSY ENG SENSOR     23GAE   BACJZ           BACE           8
A7D INLET AIR TEMP SENSED               BACK            BACH            F555555555
A7D INLET AIR TEMP SENSED               BACK            BCBA            777777777
A7D   TEMP.SENSING PROBE T1    231AC N BACKA           BACK           A
A7D   THERMOCOUPLE T1          231WG N BACKB           BACK           A
A7D TEMP PROBE T-1 PHIAL        23AFE   BACKY           BACK           A
A7D THERMOCOUPLE ASSY T-1       23GAD   BACKZ           BACK           A
A7D ENGINE FUEL BOOST                   BACL            BACG            002555100
A7D ENGINE FUEL BOOST                   BACL            BACGA           FAAAAAAAAA
A7D  ENGINE FUEL DELIVERED              BACL            BFQ             F111111111
A7D   ASSOCIATED FUEL TUBES    231TB N BACLA           BACL           3
A7D   ASSOCIATED DRAIN TUBES   231TC N BACLB           BACL           C
A7D   FUEL DRAIN BLOCK         231TE N BACLC           BACL           2
A7D   LP FUEL PUMP %BOOST 2<   231TJ N BACLD           BACL           1
A7D   LP FUEL FILTER            231TK N BACLE           BACL           1
A7D   A/C BACK PUMP DRIV GEAR   231ST N BACLF           BACL           A
A7D   ENG BACK PUMP DRIV GEAR   231SU N BACLG           BACL           A
A7D   BOOST PUMP SHUTOFF VALVE  46AGC   BACLP           BACL           0
A7D   FILTER MOTOR RETURN LINE  46AGB   BACLQ           BACL           C
A7D   FUEL BOOST PUMP MOTOR     46AGA   BACLR           BACL           A
A7D LP FUEL FILTER BYPASS       9923K   BACLS           BACL           3
A7D VALVE ASSY BALL DRAIN       23CAP   BACLT           BACL           C
A7D LP FUEL PUMP DRAIN          23AED   BACLU           BACL           0
A7D TUBES FUEL FILTER           23CAS   BACLV           BACL           3
A7D INDICATOR LP FILTER         23CAR   BACLW           BACL           0
A7D FUEL FILTER LP              23CAB   BACLX           BACL           1
A7D LP FUEL PUMP (BOOST 2 )     23CAA   BACLY           BACL           1
A7D FUEL BOOST PUMP NO1         46AFN   BACLZ           BACL           1
A7D COMB CROSS-OVER TUBES 10EA  9923E   BACZ            BAC            1
A7DENGINE CRANKED                       BAD             BAB     K BAE   AAAAAAAAA
A7D JFS TURBINE ROTATION                BADA            BAD             AAAAAAAAA
A7D JFS TURBINE ROTATION                BADA            BADX            FAAAAAAAAA
A7D   ANNULAR BALL BEARING     232AA N BADAA           BADA           7
A7D   OUTPUT SHAFT             232AB N BADAB           BADA           8
A7D   PERFORMED PACKING        232AC N BADAC           BADA           2
A7D   SWITCH ACTUATOR GOVERNOR 232AD N BADAD           BADA           5
A7DPAWL & RATCHET ENG CNX       9923F   BADAU           BAD            A
A7D SHAFT PACKING PREFORMED     23JFC   BADAW           BADA           2
A7D STARTER OUTPUT SHAFT        23JFB   BADAX           BADA           8
A7D GOVERNOR SWITCH ACTIVATED   23JFD   BADAY           BADA           5
A7D BEARING ANNULAR BALL        23JFA   BADAZ           BADA           7
A7D JFS OIL DISTRIBUTED                 BADB            BADA            555555555
A7D   PWR TURBIN MAGNETIC PLUG 232CA N BADBA           BADB           1
A7D   ACCESSORY DRIVE PLUG     232CB N BADBB           BADB           1
A7D   ACC.DRIVE OIL STRAINER   232CC N BADBC           BADB           2
A7D   GAS GEN OIL STRAINER     232CD N BADBD           BADB           2
A7D   OIL DRAIN ADAPTER        232CE N BADBE           BADB           0
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A70    ACC.DRIVE MAGNETIC PLUG   232CF N BADBF          BADB          0
A70    ACC.DRIVE MACHED PLUG     232CG N BADBG          BADB          0
A70    STARTER OIL FILTER DRAIN  232CH N BADBH          BADB          0
A70    STARTER OIL TANK DRAIN    232CJ N BADBJ          BADB          0
A70 OIL TANK DRAIN               23AEQ   BADBR          BADB          0
A70 OIL FILTER DRAIN             23AEP   BADBS          BADB          0
A70 OIL DRAIN PLUG MACH. THREAD  23JHG   BADBT          BADB          0
A70 OIL DRAIN PLUG MAGNETIC      23JHF   BADBU          BADB          0
A70 OIL DRAIN ADAPTER            23JHE   BADBV          BADB          0
A70 OIL STRAINER                 23JHD   BADBW          BADB          2
A70 OIL STRAINER                 23JHC   BADBX          BADB          2
A70 ACCESSORY DRIVE PLUG         23JHB   BADBY          BADB          1
A70 POWER TURBINE OIL PLUG       23JHA   BADBZ          BADB          1
A70 JFS COMBUSTION                       BADC           BADA            AAAAAAAAA
A70    GTP IGNITER PLUG          2329B N BADCA          BADC          A
A70 IGNITER PLUG                 23JJB   BADCX          BADC          A
A70 JFS FUEL SUPPLIED                    BADD           BADC            AAAAAAAAA
A70    FUEL CONTROL              232BA N BADDA          BADD          A
A70    FUEL DRAIN VALVE          232BB N BADDB          BADD          1
A70    FUEL PRESS FILTER ELEMENT 232BC N BADDC          BADD          1
A70    FUEL MANIFOLD             232BD N BADDD          BADD          8
A70    FUEL NOZZLE               232BE N BADDE          BADD          8
A70    FUEL STARTER DRAIN        232BF N BADDF          BADD          0
A70    NORM.OPEN SOL.VALVE       232FM N BADDG          BADD          5
A70    NORM.CLOSED SOL.VALVE     232EN N BADDH          BADD          5
A70 JFS FUEL DRAIN               23AEN   BADDS          BADD          0
A70 NORMAL OPEN SOLENOID (DRAIN  23JBN   BADDT          BADD          5
A70 NORMAL CLOSED SOLENOID FUEL  23JBP   BADDU          BADD          5
A70 FUEL NOZZLE                  23JGE   BADDV          BADD          8
A70 FUEL MANIFOLD                23JGD   BADDW          BADD          8
A70 FUEL FILTER ELEMENT          23JGC   BADDX          BADD          1
A70 FUEL DRAIN                   23JGB   BADDY          BADD          1
A70 FUEL CONTROL                 23JGA   BADDZ          BADD          A
A70 JFS IGNITION GENERATED               BADE           BADC            AAAAAAAAA
A70    IGNITION COIL             232DA N BADEA          BADE          A
A70    ALTERNATING CURRENT GEN.  232FK N BADEB          BADE          A
A70 60 PERCENT SWITCH            9023M   BADEW          BADE          2
A70 IGNITION COIL                23JJA   BADEY          BADE          A
A70 PERM MAG GENERATOR  AC       23JHM   BADEZ          BADE          A
A70 JFS AIR INDUCTED                     BADF           BADC            111111111
A70    INLET AIR DUCT            232FB N BADFB          BADF          1
A70    GROOVED CLAMP COUPLING    232FC N BADFC          BADF          0
A70 COUPLING GROUND CLAMP        23JAC   BADFY          BADF          0
A70 JFS INLET AIR DUCT           23JAB   BADFZ          BADF          1
A70 JFS ACTIVATION                       BADG           BADC           SAAAAAAAAA
A70 JFS ACTIVATION                       BADG           BADD           FAAAAAAAAA
A70 JFS ACTIVATION                       BADG           BADE           FAAAAAAAAA
A70    STARTER ELECTRIC MOTOR    232EA N BADGA          BADG          A
A70    ELECT.DIST.BOX ASSEMBLY   232EF N BADGB          BADG          A
A70    ELECT.PWR.CABLE ASSY.     232FG N BADGC          BADG          5
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PGM95.J1R1 DATE = 10/06/75 FLIGHT SAFETY PREDICTION TECHNIQUE

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A70   STAGE 2 LP TURB.AIR SEAL  231K1 N BBAADD        BBA        2
A70   STAGE 2 LP TURB.VANE      231K2 N BBAADE        BBA        4
A70   STAGE 2 LP TURB.VANE SUP  231K3 N BBAADF        BBA        8
A70   HP COMP FWD BRG SUP HOUS  231DJ N BBAADJ        BBA        8
A70   LP COMP AFT BRNG SUPPORT  231DT N BBAADT        BBA        8
A70   HP TURB BRNG VENT TUBE    231HA N BBAAHA        BBA        0
A70   HP COMP BEARING HOUSING   231HH N BBAAHB        BBA        8
A70   HP COMP DIF/BRNG HOUSNG   231HJ N BBAAHC        BBA        8
A70   TURB.VANE CASE AND SEAL   231KA N BBAAKA        BBA        4
A70   TURB.OUTER/INNER SEAL     231KB N BBAAKB        BBA        2
A70   TURB.INNER STAGE SEAL     231KC N BBAAKC        BBA        2
A70   LP TURBINE STG.1 VANE     231KD N BBAAKD        BBA        4
A70   TURBINE INNER STAGE PANE  231KE N BBAAKE        BBA        2
A70   STG.2 HPT SEAL SEGMENT    231KF N BBAAKF        BBA        2
A70   STG.2 HPT NOZZL SEGMENT   231KG N BBAAKG        BBA        2
A70   STG 2 HPT AIR SEAL        231KH N BBAAKH        BBA        2
A70   STG 2 HPT VANE ASSY       231KJ N BBAAKJ        BBA        4
A70   STG 2 HPT VANE SUPPORT    231KK N BBAAKK        BBA        8
A70   TURBINE VANE CASE ASSY    231KL N BBAAKL        BBA        8
A70   HPT VENT/FEED/SCVNG TUBE  231KP N BBAAKP        BBA        4
A70   HPT BEARING SUPPORT ASSY  231KQ N BBAAKQ        BBA        8
A70   HPT STG.1 OUTER AIR SEAL  231KR N BBAAKR        BBA        2
A70   HPT STG.1 INNER AIR SEAL  231KS N BBAAKS        BBA        2
A70   HPT AIR SEAL              231KT N BBAAKT        BBA        2
A70   HPT VANE SERRATED RING    231KU N BBAAKU        BBA        6
A70   HPT AIR SEAL SUPPORT      231KV N BBAAKV        BBA        2
A70   HPT VANE LOCATING SEGMET  231KW N BBAAKW        BBA        8
A70   HPT STG.1 VANE            231KX N BBAAKX        BBA        4
A70   HPT REAR AIR SEAL         231KY N BBAAKY        BBA        2
A70   THERMO INSULATION CASE    231KZ N BBAAKZ        BBA        8
A70   STG.1 HPT WHEEL & SHAFT   231LA N BBAALA        BBA        4
A70   BALANCE WEIGHT HPT        231LB N BBAALB        BBA        4
A70   STG.2 HPT SEAL OUTER AIR  231LC N BBAALC        BBA        2
A70   STG.2 HPT INNER AIR SEAL  231LD N BBAALD        BBA        2
A70   STG.1 HP TURBINE WHEEL    231LE N BBAALE        BBA        8
A70   STG.1 HP TURBINE BLADE    231LF N BBAALF        BBA        1
A70   STG.2 HP TURBINE WHEEL    231LG N BBAALG        BBA        8
A70   STG.2 HP TURBINE BLADE    231LH N BBAALH        BBA        1
A70   HPT ROTOR TO SHAFT NUT    231LJ N BBAALJ        BBA        8
A70   HPT SHAFT AIR SEAL        231LK N BBAALK        BBA        2
A70   HPT ROTOR SHAFT           231LL N BBAALL        BBA        8
A70   HP TURBINE COUPLING       231LM N BBAALM        BBA        4
A70   HPT TO COMP COUPLING LOCK 231LN N BBAALN        BBA        4
A70   HPT SHAFT SEAL RING       231LP N BBAALP        BBA        2
A70   LP TURBIN BALANCE WEIGHT  231MA N BBAAMA        BBA        4
A70   HP/LP INTERST.SLEVE SEAL  231MB N BBAAMB        BBA        2
A70   LPT SPANNR WHL/SHAFT NUT  231MC N BBAAMC        BBA        4
A70   LP TURBINE ROTOR ASSY     231MD N BBAAMD        BBA        4
A70   STG.1 LP TURBINE WHEEL    231ME N BBAAME        BBA        4
A70   STG.1 LP TURBINE BLADE    231MF N BBAAMF        BBA        1
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A70   STG.2 LP TURBINE WHEEL    231MG N BBAAMG          BBA          A
A70   STG.2 LP TURBINE BLADE    231MH N BBAAMH          BBA          1
A70   LP TURBINE SHAFT          231MJ N BBAAMJ          BBA          A
A70   REAR STIFFNER TUBE        231MK N BBAAMK          BBA          A
A70   HP COMPRESSOR COUPLING    231MM N BBAAML          BBA          A
A70   SPHERICAL COUPLING LOCK   231MN N BBAAMM          BBA          A
A70   SPHERICAL SEATING SLEEVE  231MP N BBAAMN          BBA          2
A70   LP TURBINE BEARING COVER  231NC N BBAANC          BBA          2
A70   STG 2 LPT VANE RETN.RING  231NF N BBAANF          BBA          A
A70   LPT BEARING CONICAL SEAL  231NG N BBAANG          BBA          2
A70   LPT AIR SEAL              231NH N BBAANH          BBA          2
A70   LPT DEFLECTOR PLATE       231NJ N BBAANJ          BBA          2
A70   SEAL SUPPORT ASSY         231NK N BBAANK          BBA          1
A70   BRNG SUPPORT AND FITTING  231NL N BBAANL          BBA          A
A70   LP FAIRING SUPPORT ASSY   231NM N BBAANM          BBA          A
A70   NO.1 ROLLER BEARING ASSY  231QA N BBAAQA          BBA          8
A70   NO.1 FRONT INNER RACE     231QB N BBAAQB          BBA          8
A70   FRONT RACE RETAINER RING  231QJ N BBAAQJ          BBA          2
A70   LP COMP SHAFT AFT BRNG    231QS N BBAAQS          BBA          8
A70   INNER ROLLER BEARNG RACE  231QT N BBAAQT          BBA          8
A70   LP COMP NO4 THRUST BRNG   231Q2 N BBAAQU          BBA          8
A70   LP TRUS ANTISPLASH RING   231Q4 N BBAAQV          BBA          1
A70   NO 4 THRUST BEARING SEAL  231Q7 N BBAAQW          BBA          2
A70   NO.3 HP COMP BRNG ASSY    231QX N BBAAQX          BBA          8
A70   HPC NO 3 INNER BRNG RACE  231QY N BBAAQY          BBA          8
A70   NO.5 COMP.THRUST BEARING  231RA N BBAARA          BBA          8
A70   FWD HP THRUST BRG.SLEEVE  231RB N BBAARB          BBA          2
A70   AFT HP THRUST BRG.SLEEVE  231RC N BBAARC          BBA          2
A70   NO 5 BEARING FRONT SEAL   231RD N BBAARD          BBA          2
A70   NO.5 BRNG REAR SEAL/SUPP  231RE N BBAARE          BBA          8
A70   NO.5 HP TURBINE BEARING   231RG N BBAARG          BBA          8
A70   HPT SHAFT BEARNG SLEEVE   231RH N BBAARH          BBA          2
A70   HPT FLEX BEARING HOUSING  231RN N BBAARN          BBA          8
A70   HPT FLEX BRNG SUPPORT     231RP N BBAARP          BBA          8
A70   FLEX BRNG SUPPT STOP RING 231RQ N BBAARQ          BBA          8
A70   NO.7 LP TURBINE BEARING   231RR N BBAARR          BBA          8
A70   NO.7 LPT BRNG INNER RACE  231RS N BBAARS          BBA          8
A70   LPT BEARING FRONT COVER   231RT N BBAART          BBA          2
A70   LPT BEARING   SEAL RING    231RU N BBAARU          BBA          2
A70   LPT FLEX SEAL HOUSING     231RV N BBAARV          BBA          2
A70   NO.7 LPT BRNG HOUSING     231RW N BBAARW          BBA          5
A70   NO.7 LPT BRNG STOP RING   231RX N BBAARX          BBA          5
A70   NO.7 LPT BRNG SLEVE SEAL  231RY N BBAARY          BBA          2
A70 OIL PRESS WARN LIGHT        12DBD   BBAAW           BBAA         1
A70 OIL PRESSURE INDICATOR      23HBC   BBAAX           BBAA         1
A70 OIL PRESSURE XMTR           23HBA   BBAAY           BBAA         1
A70 OIL PRESS DIFFERENTIAL SW.  23HBB   BBAAZ           BBAA         1
A70   OIL PRESSURE TRANSMITTER  233BA N BBAAZA          BBAA         1
A70   PRESSURE DIFF.SWITCH      233BB N BBAAZB          BBAA         1
A70   OIL PRESS.INDICATOR/LITE  233BC N BBAAZC          BBAA         1
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A70 OIL DISTRIBUTED                          BBAB          BBA          059999900
A70 OIL DISTRIBUTED                          BBAB          BBB          FAAAAAAAAA
A70   OIL PRES.TUBE INT GR.BOX. 231DM  N     BBABAA        BBAB         3
A70   OIL TRANSFER TUBE HP.TUR. 231HB  N     BBABAB        BBAB         5
A70   OIL & BRNG SERVICE TUBE   231HC  N     BBABAC        BBAB         5
A70   OIL FEED TUBE & LINER AS  231ML  N     BBABAD        BBAB         5
A70   OIL RETURN TUBE LP TURB   231MA  N     BBABAE        BBAB         3
A70   OIL MAIN SHAFT BRNG TUBE  231NB  N     BBABAF        BBAB         5
A70   LP TURBINE BRN OIL FILTR  231ND  N     BBABAG        BBAB         1
A70   FRONT OIL RING SEAL       231QF  N     BBABAH        BBAB         2
A70   REAR OIL RING SEAL        231QN  N     BBABAJ        BBAB         2
A70   FRONT OIL SEAL RETAINER   231QU  N     BBABAK        BBAB         2
A70   OIL SEAL RING LP COMP RR  231QV  N     BBABAL        BBAB         2
A70   OIL SEAL RETAINER ASSY    231QW  N     BBABAM        BBAB         2
A70   INT GEARBOX OIL SEAL AFT  231Q1  N     BBABAN        BBAB         2
A70   OIL BAFFLE SLEEVE         231Q3  N     BBABAP        BBAB         2
A70   OIL SEAL RING RETAINER    231Q5  N     BBABAQ        BBAB         2
A70   OIL SEAL RING HOUSING     231Q6  N     BBABAR        BBAB         1
A70   REAR OIL SEAL HOUSING     231RK  N     BBABAS        BBAB         1
A70   HP TURBINE REAR OIL SEAL  231RL  N     BBABAT        BBAB         2
A70   OIL SEAL RETAINING PLATE  231RM  N     BBABAU        BBAB         2
A70   OIL BAFFLE PLATE HP       231RJ  N     BBABAV        BBAB         2
A70   OIL VENT TUBES            231UF  N     BBABAW        BBAB         0
A70   OIL FILTER ASSY           231UK  N     BBABAX        BBAB         0
A70   FILTER MAINTENCE IND.     231UM  N     BBABAY        BBAB         0
A70   OIL FILTER ELEMENT,PRI    231UN  N     BBABAZ        BBAB         0
A70   OIL FILTER ELEMENT BYPAS  231UP  N     BBABBA        BBAB         1
A70   OIL FILTER BYPASS VALVE   231UQ  N     BBABBB        BBAB         1
A70   ASSOCIATED OIL FEED TUBE  231UG  N     BBABBC        BBAB         5
A70   NO.5 BRNG INTER.SEAL      231VE  N     BBABBD        BBAB         2
A70 OIL SAMPLING VALVE          23DAG        BBABF         BBAB         0
A70 STRAINER OIL RETURN         23DAX        BBABG         BBAB         2
A70 OIL FILTER DRAIN VALVE      23AEJ        BBABH         BBAB         0
A70 COVER ASSY HP OIL FILTER    23DAK        BBABJ         BBAB         6
A70 ELEMENT HP OIL FILTER       23DAJ        BBABK         BBAB         0
A70 HOUSING ASSY HP OIL FILTER  23DAH        BBABL         BBAB         0
A70 FILTER ASSY ENG OIL         23DAB        BBABM         BBAB         0
A70 REAR SEAL OIL & AIR         23BC5        BBABN         BBAB         2
A70 OIL FEED TUBE               23BCZ        BBABP         BBAB         5
A70 OIL XFER TUBE               23BCX        BBABQ         BBAB         3
A70 FWD OIL FEED JUNCTION       23BCW        BBABR         BBAB         7
A70 REAR OIL RING SEAL          23BCU        BBABS         BBAB         2
A70 FRONT OIL RING SEAL         23BCK        BBABT         BBAB         2
A70 AFT OIL FEED XFER TUBE      23BFD        BBABU         BBAB         5
A70 OIL FEED TUBE & FILTER      23BFJ        BBABV         BBAB         5
A70 OIL XFER TUBE HOUSING LPT   23BHN        BBABW         BBAB         2
A70 OIL XFER TUBE LPT BEARING   23BHK        BBABX         BBAB         5
A70 OIL RETURN TUBE LP TURBINE  23BHJ        BBABY         BBAB         3
A70 OIL FEED TUBE & LINER       23BHC        BBABZ         BBAB         5
A70 QUANTITY DISPLAYED                       BBAC          DZC     I BBAF  AAAAAAAAA
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A7D   SOURCE UNIT                  233CA N BBACA          BBAC          5
A7D   DETECTOR UNIT                233CB N BBACB          BBAC          A
A7D   INDICATOR                    233CC N BBACC          BBAC          3
A7D   INDICATOR HOUSING            233CD N BBACD          BBAC          0
A7D   METER ASSY                   233CE N BBACE          BBAC          5
A7D   POWER SUPPLY MODULE          233CF N BBACF          BBAC          A
A7D   RATE METER MODULE            233CG N BBACG          BBAC          A
A7D   OIL QTY SW LIGHT MODULE      233CH N BBACH          BBAC          3
A7D   BYPASS INDICATOR LITE SW     231UL N BBACL          BBAC          C
A7D OIL CUP O'FLOW DRAIN           23AEK   BBACU          BBAC          0
A7D OIL QTY WARNING LIGHT          12DRC   BBACW          BBAC          3
A7D OIL QTY INDICATOR              23HCC   BBACX          BBAC          3
A7D OIL QTY DETECTOR UNIT          23HCB   BBACY          BBAC          A
A7D OIL QTY SOURCE UNIT            23HCA   BBACZ          BBAC          5
A7D OIL PRESSURE GENERATED                 BBAD           BBAA           FAAAAAAAAA
A7D OIL PRESSURE GENERATED                 BBAD           BBAB            AAAAAAAAA
A7D   ENGINE OIL PUMP              231UA N BBADA          BBAD          5
A7D   PRESS RELIEF VALVE ASSY     231UB N BBADB          BBAD          3
A7D   PRESS REGULATOR VLV.ASSY.  231UC N BBADC          BBAD          5
A7D HIGH PRESS OIL RELIEF VALVE    23DAD   BBADY          BBAD          3
A7D OIL PUMP ASSY                  23DAC   BBADZ          BBAD          5
A7D OIL COOLED                             BBAE           BBAB            555555555
A7D   PRESSURE RELIEF VALVE       231UB N BBAEA          BBAE          2
A7D   ASSOCIATED OIL FEED TUBE    231UG N BBAEB          BBAE          3
A7D   FUEL/OIL COOLER             231UH N BBAEC          BBAE          8
A7D OIL COOLER TUBING & FITTINS    23DEC   BBAEX          BBAE          3
A7D ENG OIL COOL RELIEF VALVE      23DBB   BBAEY          BBAE          2
A7D FUEL COOLED OIL COOLER         23DBA   BBAEZ          BBAE          3
A7D OIL SUPPLIED                           BBAF           BBAB            AAAAAAAAA
A7D OIL SUPPLIED                           BBAF           BBAC           FAAAAAAAAA
A7D   OIL SCAVENG GEARBOX TUBE    231UL N BBAFA          BBAF          8
A7D   ASSOC OIL SCAVENGE TUBES    231UE N BBAFB          BBAF          2
A7D   OIL TANK                    231UJ N BBAFD          BBAF          8
A7D   ENG OIL FILLER CAP          231UR N BBAFE          BBAF          C
A7D   OIL PUMP CHIP DETECTOR      231UD N BBAFF          BBAF          0
A7D   SCAVENGE OIL PUMP           231S2 N BBAFG          BBAF          3
A7D ADAPTER ASSY OIL FILLER        23DAW   BBAFL          BBAF          0
A7D FILLER ASSY TANK               23DAV   BBAFM          BBAF          0
A7D HOUSING ASSY OIL FILLER        23DAU   BBAFN          BBAF          0
A7D OIL TANK DRAIN PLUG            23ALH   BBAFP          BBAF          0
A7D BALL DRAIN VALVE ASSY          23DAT   BBAFQ          BBAF          0
A7D REAR OIL TANK COVER            23DAS   BBAFR          BBAF          0
A7D SEAT BALL CHK LOW TANK VALV    23DAR   BBAFS          BBAF          1
A7D BALL VALVE UPPER VENT PIPE     23DAP   BBAFT          BBAF          1
A7D OIL TANK DRAIN HOUSING         23DAN   BBAFU          BBAF          0
A7D SEAT BALL VALVE UPPER VENT     23DAM   BBAFV          BBAF          1
A7D TANK & FITTING ASSY OIL        23DAL   BBAFW          BBAF          3
A7D TANK ASSY OIL                  23DAF   BBAFX          BBAF          8
A7D PLUG MAGNET CHIP DETECT        23DAE   BBAFY          BBAF          0
A7D OIL FILLER CAP                 23DAA   BBAFZ          BBAF          0
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A70THRUST BEARING SEAL              23BEM   BBAH            BBAB        2
A70THRUST BEARING NO.5  HPC         23BEH   BBAK            BBA         8
A70THRUST BEARING NO.4  LP          23BEG   BBAL            BBA         8
A70ROLLER BEARING NO.3 HPC          23BEC   BBAM            BBA         8
A70INNER BEARING LPC                23BCB   BBAN            BBA         8
A70BEARING NO.2 LPC                 23BC7   BBAP            BBA         8
A70BEARING INNER RACE               23BCG   BBAQ            BBA         8
A70BEARING FRONT NO.1               23BCP   BBAR            BBA         8
A70OUTER RACE RETAIN RING FRONT     23BCN   BBAS            BBA         2
A70ANNULUS VANE HP TURBINE S-1      23BGD   BBAT            BBA         8
A70HP TURBINE ASSY                  23BGL   BBAU            BBA         A
A70TURBINE VANE CASE ASSY           23BGG   BBAV            BBA         A
A70TURBINE BLADE HPT                23BGH   BBAW            BBA         1
A70AIR COOLING MANIFOLD             23BGF   BBAX            BBA         5
A70ROTOR ASSY LP TURBINE            23BHA   BBAY            BBA         A
A70BEARING SUPPORT LP TURBINE       23BJA   BBAZ            BBA         A
A70SUPPORT & SEAL HPT BRNG REAR     23BEN   BBAZA           BBA         8
A70SUPPORT HPT BEARING              23BGB   BBAZB           BBA         8
A70ROLLER BEARING HPT NO.6          23BGC   BBAZC           BBA         8
A70ROLLER BEARING LPT NO.7          23BHD   BBAZD           BBA         8
A70HOUSING ROLLER BEARING LPT       23BHE   BBAZE           BBA         5
A70SEAL HOUSING FLEX TAIL LPT       23BHF   BBAZF           BBA         2
A70BEARING SUPPORT & FITTING LP     23BHG   BBAZG           BBA         A
A70SUPPORT ASSY SEAL & NUTS         23BHH   BBAZH           BBA         1
A70COVER REAR LPT BEARING           23BHL   BBAZJ           BBA         2
A70COUPLING HP COMP FWD & REAR      23BDA   BBAZK           BBA         A
A70COUPLING HP COMP SHAFT           23BGA   BBAZL           BBA         A
A70LINER FLANGE LP TURBINE BRNG     23BHM   BBAZM           BBA         3
A70LP TURBINE STIFF SHAFT           23BHB   BBAZN           BBA         A
A70ENGINE ACCESSORIES DRIVEN                BBB             BBC          FAAAAAAAAA
A70ENGINE ACCESSORIES DRIVEN                BBB             BBD          FAAAAAAAAA
A70ENGINE ACCESSORY DRIVE                   BBB             BC           SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE                   BBB             DATA         SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE                   BBB             DHAB         SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE                   BBB             DHBB         SAAAAAAAAA
A70ENGINE ACCESSORY DRIVE                   BBB             DHCB         SAAAAAAAAA
A70   INTERNAL GEARBOX ASSY         231DK N BBBA            BBB         A
A70   INT GRBX HOUSNG & FITING      231D4 N BBBB            BBB         3
A70DIFF.& BRNG HI-SPEED GEAR        23BEL   BBBV            BBB         7
A70EXTENSION LINK GEARBOX SUPP      23BAB   BBBW            BBB         8
A70ACCESSORY DRIVE O'BD DRAIN       23AEM   BBBX            BBB         D
A70MAIN OIL GEAR DRAIN              23AEL   BBBY            BBB         C
A70INTERNAL GEARBOX ASSY            23BEP   BBBZ            BBB         A
A70LOW SPEED ACCESSORY DRIVE                BBC             BACH          AAAAAAAAA
A70LOW SPEED ACCESSORY DRIVE                BBC             BCC          F111111111
A70   LOW SPEED DRIVE GEAR          231D2 N BBCA            BBC         A
A70   LOW SPEED DRIVEN GEAR         231D3 N BBCB            BBC         A
A70   LOW SPEED GEARBOX ASSY        231SA N BBCD            BBC         8
A70   LOW SPEED BVL.GR.DR.SHAF.     231SB N BBCE            BBC         4
A70   LOW SPEED BVL DRIVE TUBE      231SC N BBCF            BBC         3
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A7DLOW SPEED GEARBOX DRAIN      23AEG    BBCY              BBC             0
A7DLOW SPEED GEARBOX ASSY       23BBB    BBCZ              BBC             8
A7D HIGH SPEED ACCESSORY DRIVE           BBD               BAB              FAAAAAAAAA
A7D HIGH SPEED ACCESSORY DRIVE           BBD               BACG             FAAAAAAAAA
A7D HIGH SPEED ACCESSORY DRIVE           BBD               BACJC            FAAAAAAAAA
A7D HIGH SPEED ACCESSORY DRIVE           BBD               BACL             FAAAAAAAAA
A7D HIGH SPEED ACCESSORY DRIVE           BBD               BBAD             FAAAAAAAAA
A7DHIGH SPEED ACCESSORY DRIVE            BBD               BC               SAAAAAAAAA
A7D HIGH SPEED ACCESSORY DRIVE           BBD               BCC              FAAAAAAAAA
A7D HIGH SPEED ACCESSORY DRIVE           BBD               BCCA             FAAAAAAAAA
A7DACCESSORY DRIVE                       BBD               UATA             . AAAAAAAAA
A7DACCESSORY DRIVE                       BBD               UHAB               AAAAAAAAA
A7DACCESSORY DRIVE                       BBD               UHBB               AAAAAAAAA
A7DACCESSORY DRIVE                       BBD               UHCB               AAAAAAAAA
A7D   HI SPEED GRBX OUTER RACE  231DV N BBDA              BBD             8
A7D   HI SPEED GRBX GRSHF BRNG  231DW N BBDB              BBD             8
A7D   HI SPEED GRBX GEARSHAFT   231DX N BBDC              BBD             A
A7D   HI SPEED DR/HSNG SUPPORT  231DY N BBDD              BBD             2
A7D   HI SPEED GRBX DRVEN GEAR  231D1 N BBDE              BBD             A
A7D   HI SPEED GRBX SUPP LINK   231SD N BBDF              BBD             1
A7D   HI SPEED GEARBOX ASSY     231SE N BBDG              BBD             A
A7D   HI SPEED DRIVE QUILSHAFT  231SF N BBDH              BBD             A
A7D   HI SPD AIR BLOWN SEAL     231SJ N BBDJ              BBD             0
A7D   AIR BLDN SEAL XFER TUBES  231SM N BBDK              BBD             1
A7D   HI SPEED GEARBOX COVER    231SN N BBDL              BBD             1
A7D   SPIRAL BVL SHAFER BEARNG  231SH N BBDM              BBD             8
A7D   SPIRAL BEVEL SHAFTGEAR    231SK N BBDN              BBD             8
A7D   ACC DR GEARS AND BEARING  231SL N BBDP              BBD             A
A7D   HI SPD GRBX AIR BL.SEAL   231SP N BBDQ              BBD             1
A7D   OVERBOARD BREATHER ELBOW  231SQ N BBDR              BBD             0
A7D   CTR.BRTHR SAFT AND ROTOR  231SR N BBDS              BBD             1
A7D   IDLER GEAR AND BEARING    231SV N BBDT              BBD             8
A7D   MAIN DRIVE GEAR HI SPD    231SY N BBDTA             BBD             A
A7D   SPIRAL BEVEL DRIVE GEAR   231SZ N BBDTB             BBD             A
A7D   DIAPHRAM AND BEARING      231S1 N BBDTC             BBD             8
A7D   HI SPD GRBX HOUSING       231S3 N BBDTD             BBD             2
A7D   CHIP DETECTOR             231S4 N BBDTE             BBD             0
A7DHIGH SPEED GEAR BOX          23BBA    BBDU              UHCB            A
A7DHIGH SPEED GEARBOX ASSY      23BBA    BBDV              UHBB            A
A7DHIGH SPEED GEARBOX ASSY      23BBA    BBDW              UHAB            A
A7DHIGH SPEED GEARBOX ASSY      23BBA    BBDX              UATA            A
A7DHIGH SPEED GEARBOX ASSY      23BBA    BBDY              BCC             A
A7DHIGH SPEED GEARBOX ASSY      23BBA    BBDZ              BBD             A
A7D COMBUSTION                           BC                BAC              FAAAAAAAAA
A7D COMBUSTION                           BC                BB               AAAAAAAAA
A7D   COMB.LINER AND NOZZLE AS 231JA N BCAA              BC              8
A7D   COMBUSTION OUTER CASE    231JD N BCAB              BC              A
A7D   COMB.LINER PRI.AIR SCOOP 231JE N BCAC              BC              8
A7D   COMB.LINER DISCHG.NOZZLE 231JF N BCAD              BC              5
A7D   COMB.LINER               231JG N BCAE              BC              1
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A7D    SLIDING CONNECTOR          231JH N BCAF              BC              1
A7D    FUEL TRANSFER TUBE,MAIN    231TR N BCAG              BC              7
A7D    FUEL TRANSFER TUBE,PILOT   231TS N BCAH              BC              9
A7D    FUEL SPRAY NOZZLE          231TT N BCAJ              BC              1
A7D    HP COMPRESSOR OUTER SEAL   231HD N BCAK              BC              2
A7D COMPRESSION                               BCB           BC               AAAAAAAAA
A7D COMPRESSION                               BCB           BX               FAAAAAAAAA
A7D INLET AIR STABILIZED                      BCBA          BCBAS             111111111
A7D    SPHERICAL COUPLING LOCK    231CA N BCBAAA            BCB             A
A7D    LPC DRIVE SHAFT COUPLING   231CB N BCBAAB            BCB             A
A7D    LPC STAGE 2 BLADE          231CC N BCBAAC            BCB             A
A7D    LPC STAGE 2 WHEEL          231CD N BCBAAD            BCB             A
A7D    LPC STAGE 3 BLADE          231CE N BCBAAE            BCB             A
A7D    LPC STAGE 3 WHEEL          231CF N BCBAAF            BCB             A
A7D    LPC STAGE 1 COUPLING       231CG N BCBAAG            BCB             A
A7D    IPC STAGE 2 BLADE          231CH N BCBAAH            BCB             A
A7D    IPC STAGE 2 WHEEL          231CJ N BCBAAJ            BCB             A
A7D    IPC STAGE 1 BLADE          231CK N BCBAAK            BCB             A
A7D    IPC STAGE 1 WHEEL          231CL N BCBAAL            BCB             A
A7D    BLADE STOP PLATE           231AM N BCBAAM            BCB             7
A7D    LP COMP HOUSING & VANE     231AN N BCBAAN            BCB             A
A7D    BLADE SEAL & RETNG PLATE   231AP N BCBAAP            BCB             2
A7D    LP COMP BALANCE WEIGHT     231AQ N BCBAAQ            BCB             A
A7D    LP COMP STG 2 IN RNG SEAL  231BA N BCBABA            BCB             2
A7D    LP COMP STG 2 VANE         231BB N BCBABB            BCB             A
A7D    FWD LABYNTH ROTATE SEAL    231QC N BCBABC            BCB             5
A7D    FWD STATIC SEAL MEMBER     231QD N BCBABD            BCB             3
A7D    FRONT RING SEAL HOUSING    231QE N BCBABE            BCB             1
A7D    INTERMED.CASE FAIRING      231DF N BCBABF            BCB             3
A7D    FWD RNG SL RETAIN PLATE    231QG N BCBABG            BCB             2
A7D    LP COMP STAGE 1 CLAMP NUT  231AH N BCBABH            BCB             8
A7D    LP COMP BLADE              231AJ N BCBABJ            BCB             A
A7D    LP COMP WHEEL              231AK N BCBABK            BCB             A
A7D    LP COMP STAGE 1 WHEEL      231AG N BCBABL            BCB             A
A7D    HP COMP INLET GUIDE VANE   231DE N BCBABN            BCB             2
A7D    IP STAGE 1 VANE ASSY       231BJ N BCBABP            BCB             A
A7D    LP COMPRESSR DRIVE SHAFT   231GR N BCBABR            BCB             A
A7D    IP COMPRESSOR SUPPORT      231DA N BCBADA            BCB             A
A7D    HP COMP FRONT AIR BAFFLE   231DB N BCBADB            BCB             3
A7D    HP COMP FRONT AIR HOUSNG   231QZ N BCBADC            BCB             3
A7D    HPC FRONT AIR SEAL         231DC N BCBADH            BCB             2
A7D    HP COMP CASE               231EA N BCBAEA            BCB             A
A7D    HP COMP STAGE 1 VANE       231EB N BCBAEB            BCB             A
A7D    HP COMP STAGE 2 VANE       231EC N BCBAEC            BCB             A
A7D    HP COMP STAGE 3 VANE       231ED N BCBAED            BCB             A
A7D    HP COMP STAGE 4 VANE       231EE N BCBAEE            BCB             A
A7D    HP COMP STAGE 5 VANE       231EF N BCBAEF            BCB             A
A7D    HP COMP STAGE 6 VANE       231EG N BCBAEG            BCB             A
A7D    HP COMP STAGE 7 VANE       231EH N BCBAEH            BCB             A
A7D    HP COMP STAGE 8 VANE       231EJ N BCBAEJ            BCB             A
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A7D   HP COMP STAGE 9 VANE      231EK N BCBAEK          BCB          A
A7D   HP COMP STAGE 10 VANE     231EL N BCBAEL          BCB          A
A7D   HP COMP STAGE 11 VANE     231EM N BCBAEM          BCB          A
A7D   HP COMP FRONT SHAFT       231EA N BCBAFA          BCB          A
A7D   HP COMP AIR GUIDE TUBE    231EB N BCBAFB          BCB          1
A7D   REAR SHAFT AND SLEEVE     231EC N BCBAFC          BCB          A
A7D   HPC STAGE 1 WHEEL/SHAFT   231ED N BCBAFD          BCB          A
A7D   HPC STAGE 1 WHEEL         231EE N BCBAFE          BCB          A
A7D   HPC STAGE 1 BLADE/BUSHNG  231EF N BCBAFF          BCB          A
A7D   HPC STAGE 1 & 2 SPACER    231EG N BCBAFG          BCB          2
A7D   HPC STAGE 2 WHEEL         231EH N BCBAFH          BCB          A
A7D   HPC STAGE 2 BLADE         231EJ N BCBAFJ          BCB          A
A7D   HPC STAGE 2 & 3 SPACER    231EK N BCBAFK          BCB          2
A7D   HPC STAGE 3 WHEEL         231EL N BCBAFL          BCB          A
A7D   HPC STAGE 3 BLADE         231EM N BCBAFM          BCB          A
A7D   HPC STAGE 3 & 4 SPACER    231EN N BCBAFN          BCB          2
A7D   HPC STAGE 4 WHEEL         231EP N BCBAFP          BCB          A
A7D   HPC STAGE 4 BLADE         231EQ N BCBAFQ          BCB          A
A7D   HPC STAGE 4 & 5 SPACER    231ER N BCBAFR          BCB          2
A7D   HPC STAGE 5 WHEEL         231ES N BCBAFS          BCB          A
A7D   HPC STAGE 5 BLADE         231ET N BCBAFT          BCB          A
A7D   HPC STAGE 5 & 6 SPACER    231EU N BCBAFU          BCB          2
A7D   HPC STAGE 6 WHEEL         231EV N BCBAFV          BCB          A
A7D   HPC STAGE 6 BLADE         231EW N BCBAFW          BCB          A
A7D   HPC STAGE 6 & 7 SPACER    231GA N BCBAGA          BCB          2
A7D   HPC STAGE 7 WHEEL         231GB N BCBAGB          BCB          A
A7D   HPC STAGE 7 BLADE         231GC N BCBAGC          BCB          A
A7D   HPC STAGE 7 & 8 SPACER    231GD N BCBAGD          BCB          2
A7D   HPC STAGE 8 WHEEL         231GE N BCBAGE          BCB          A
A7D   HPC STAGE 8 BLADE         231GF N BCBAGF          BCB          A
A7D   HPC STAGE 8 & 9 SPACER    231GG N BCBAGG          BCB          2
A7D   HPC STAGE 9 WHEEL         231GH N BCBAGH          BCB          A
A7D   HPC STAGE 9 BLADE         231GJ N BCBAGJ          BCB          A
A7D   HPC STAGE 9 & 10 SPACER   231GK N BCBAGK          BCB          2
A7D   HPC STAGE 10 WHEEL        231GL N BCBAGL          BCB          A
A7D   HPC STAGE 10 BLADE        231GM N BCBAGM          BCB          A
A7D   HPC STAGE 10 & 11 SPACER  231GN N BCBAGN          BCB          2
A7D   HPC STAGE 11 WHEEL        231GP N BCBAGP          BCB          A
A7D   HPC STAGE 11 BLADE        231GQ N BCBAGQ          BCB          A
A7D   SEAL RING CARRIER         231HE N BCBAHE          BCB          2
A7D   HPC STAGE 11 STIFNER RNL  231HF N BCBAHF          BCB          2
A7D   FAIRING AND SEAL CARRIER  231HG N BCBAHG          BCB          2
A7D   IGV HI SPD DRVE BVL GEAR  231DU N BCBAHU          BCBA         A
A7D   IGV ACT.EXTERNAL LINKAGE  231YA N BCBAJA          BCBA         7
A7D   BLEED VALVE CYLINDER      231YB N BCBAJB          BCBA         5
A7D   IGV SURGE CYLINDER        231YC N BCBAJC          BCBA         1
A7D   BLEED AIR TUBES           231YD N BCBAJD          BCBA         7
A7D   AIRFLOW CONTROL REGULATOR 231YE N BCBAJE          BCBA         A
A7D   IGV ACTUATOR INT LINKAGE  231YJ N BCBAJJ          BCBA         7
A7D   IC INLET GUIDE VANE       231BH N BCBAJK          BCBA         3
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A7D    TRUNION CARRIER BRNG SUP 2310H N BCBAJL          BCBA          8
A7D    IGV PIVOT INNER RING     2310D N BCBAKD          BCBA          0
A7D    IGV PIVOT OUTER RING     2310E N BCBAKE          BCBA          0
A7D    VARBL VANE TRUNION CARRY 2310G N BCBAKG          BCBA          7
A7D    IGV OUTER JOURNAL BEARNG 2310N N BCBAKN          BCBA          2
A7D    IGV CONTROL ARM STOP     2310P N BCBAKP          BCBA          1
A7D    IGV ACT.SHAFT & LINK ASS.2310Q N BCBAKQ          BCBA          4
A7D    IGV MECHANISM CAMSHAFT   2310R N BCBAKR          BCBA          A
A7D    IGV MECHANISM LVR HOUSNG 2310S N BCBAKS          BCBA          7
A7DINLET AIR STAB STTENUATION             BCBAS          BCB             111111151
A7D AIRFLOW CONTROL DRAIN        23AEC    BCBAT          BCBA          0
A7D AIRFLOW CONTROL TUBES        23AEB    BCBAU          BCBA          7
A7D AIRFLOW CONTROL ASSY         23AEA    BCBAV          BCBA          4
A7D IGV SURGE CYLINDER ASSY      23AEG    BCBAW          BCBA          1
A7D BLEED VALVE CYLINDER ASSY    23AEE    BCBAX          BCBA          5
A7D BLEED VALVE/IGV MECHANISM    23AEC    BCBAY          BCBA          7
A7D INLET GUIDE VANE             23BEE    BCBAZ          BCBA          1
A7DINLET AIR INDUCTED                     BCBB           BCB             222222220
A7DINLET AIR INDUCTED                     BCBB           BCBC            AAAAAAAAAA
A7D SLTS STRIKER ATTACH          23AGC    BCBBA          BCBB          0
A7D    ENGINE INLET ASSY         2310A N BCBBAA          BCBB          0
A7D    LP COMP.AIR IN.EXTENSION  2310B N BCBBAB          BCBB          1
A7D    SPINNER CAP               2310D N BCBBAD          BCBB          1
A7D    SPINNER CAP SUPPORT       2310E N BCBBAE          BCBB          1
A7D    LP COMP FRONT SUPPORT     2310F N BCBBAF          BCBB          A
A7D    LP COMP FORWARD CASE      2310L N BCBBAL          BCBB          A
A7DINTAKE SEAL STRIKER           23AGB    BCBBB          BCBB          2
A7D    OUTLET GUIDE BYPASS VANE  2310C N BCBBBC          BCBB          2
A7D    LP COMPRESSOR CASE        2310D N BCBBBD          BCBB          A
A7D    INT.PRESS.OUT GUIDE VANE  2310G N BCBBBG          BCBB          5
A7DVANE ASSY IP COMP OUTLETGU.   23BDB    BCBBC          BCBB          5
A7DROTATE SEAL LABYRINTH LPCOMP  23BC6    BCBBD          BCBB          5
A7D    FWD AIR  XFER RING        2310H N BCBBDH          BCBB          1
A7D    REAR OUTR RACE RET.RING   2310K N BCBBDK          BCBB          1
A7D    REAR AIR TRANSFER RING    2310L N BCBBDL          BCBB          1
A7D  REAR RNG SEAL RETNG PLATE   2310M N BCBBDM          BCBB          2
A7D    REAR RING SEAL HOUSING    2310P N BCBBDP          BCBB          1
A7D    REAR STATIC SEAL MEMBER   2310Q N BCBBDQ          BCBB          2
A7D    REAR LABYRINTH SEAL NO.1  2310R N BCBBDR          BCBB          5
A7D    STRIKER SEAL              239AA N BCBBDS          BCBB          2
A7D    STRIKER ATTACH BOLT       239AB N BCBBDT          BCBB          0
A7DROTOR & VANE MAIN LP/IP COMP  23BC4    BCBBE          BCBB          A
A7DFAIRING INTERMEDIATE CASE     23BC3    BCBBF          BCBB          3
A7DGUIDE VANE BYPASS OUTLET      23BC2    BCBBG          BCBB          2
A7D CASE & VANE LP COMPRESSOR    23BC1    BCBBH          BCBB          4
A7D REAR OUTER RING              23BCY    BCBBJ          BCBB          1
A7D REAR STATIC SEAL MEMBER      23BCV    BCBBK          BCBB          2
A7D REAR RING SEAL HOUSING       23BCT    BCBBL          BCBB          1
A7D RETAINER REAR RING SEAL      23BCS    BCBBM          BCBB          2
A7D REAR AIR TRANSFER RING       23BCR    BCBBN          BCBB          1
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A70 FRONT AIR TRANSFER RING      23BCM   BCBBP          BCBB          1
A70 FRONT RING RETAINER PLATE    23BCL   BCBBQ          BCBB          2
A70 FRONT RING SEAL HOUSING      23BCJ   BCBBR          BCBB          1
A70 FRONT STATIC SEAL MEMBER     23BCH   BCBBS          BCBB          3
A70 FRONT SUP&FITTING LP COMP    23BCG   BCBBT          BCBB          4
A70 FWD LP COMPRESSOR CASE       23BCF   BCBBU          BCBB          4
A70 BLADE LP COMP STAGE 1        23BCE   BCBBV          BCBB          4
A70 LP COMP WHEEL STAGE 1        23BCD   BCBBW          BCBB          4
A70 SPINNER CAP HOUSING SUPPORT  23BCC   BCBBX          BCBB          1
A70 SPINNER CAP BAFFLE           23BCB   BCBBY          BCBB          1
A70 SPINNER CAP                  23BCA   BCBBZ          BCBB          1
A70BYPASS AIR DUCTED                     BCBC           BCBCZ           111111111
A70BYPASS AIR DUCTED                     BCBC           BCC           F555555555
A70FORWARD BYPASS AIR DUCT       23BAD   BCBCA          BCBC          1
A70   REAR BYPASS DUCT           231PA N BCBCAA         BCBC          1
A70   COOL AIR MANIFOLD/LINER    231JB N BCBCAB         BCBC          1
A70   OUT GUIDE BYPAS FAIRING    231BE N BCBCAE         BCBC          2
A70   FORWARD BYPASS DUCT        231KM N BCBCAM         BCBC          1
A70REAR BYPASS AIR DUCT          23BAE   BCBCB          BCBC          1
A70BYPASS AIR ATTENUATION                BCBCZ          BA              111111111
A70 HI-PRESS COMP CASE & VANE    23BEK   BCBW           BCB           4
A70 REAR HI-PRESS COMPRESSOR     23BEF   BCBX           BCB           4
A70 HPC SEAL HOUSING FRONT       23BED   BCBY           BCB           3
A70 INT COMPRESSOR SUPPORT       23BEA   BCBZ           BCB           4
A70ENG FUEL CONTROL/DISTRIBUTE           BCC            BADD            FAAAAAAAAA
A70ENG FUEL CONTROL/DISTRIBUTE           BCC            BBAE            F555555555
A70ENG FUEL CONTROL/DISTRIBUTE           BCC            BC                AAAAAAAAA
A70ENG FUEL CONTROL/DISTRIBUTE           BCC            BCCX              0000000000
A70 AUXILLIARY FUEL CONTROL              BCCA           BCC     K BCCB    AAAAAAAAA
A70 AUX FUEL CONTROL STATUS              BCCA           DZCCC           FAAAAAAAAA
A70   HI PRESS FUEL SHUTOFF      231TA N BCCAA          BCC             6
A70   CONTROL CAMBOX             231VB N BCCAB          BCC             4
A70   ASSOCIATED DRAIN TUBES     231TC N BCCAC          BCC             2
A70   FUEL SHUTOFF VLV OPR ROD   231VA N BCCAD          BCC             4
A70   ENGINE CONTROL ADAPTER     234AE N BCCAE          BCC             4
A70   COLD START FUEL VALVE      231TF N BCCAF          BCC             6
A70   LP GOVERNOR                231TG N BCCAG          BCC             2
A70   ACCESSORY MOUNTNG BRAKET   231VC N BCCAH          BCC             6
A70   FUEL MANIFOLD CONNECTOR    231TQ N BCCAJ          BCC             8
A70   MANUAL FUEL CONTROL        231TN N BCCAN          BCCA            4
A70   MAN.FUEL CONT.OPER.ROD     231VE N BCCAV          BCCA            4
A70 MANUAL FUEL CONTROL ASSY     23CAK   BCCAZ          BCCA            8
A70PRIMARY FUEL CONTROL                  BCCB           BCC       BCCA    111111111
A70   MAIN CONT OPERATING ROD    231VD N BCCBD          BCCB            8
A70   MAIN FUEL CONTROL          231TM N BCCBM          BCCB            8
A70FUEL CONT LIMITER SOLENOID    9923D   BCCBY          BCCB            4
A70MAIN FUEL CONTROL             23CAE   BCCBZ          BCCB            8
A70THROTTLE MOVEMENT                     BCCC           BAEY            FAAAAAAAAA
A70THROTTLE MOVEMENT                     BCCC           BCC             0AAAAAAAAA
A70 THROTTLE POSITION                    BCCC           BEA             FAAAAAAAAA
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A7D THROTTLE MOVEMENT                          BCCC          GAX          FAAAAAAAAA
A7D   THROTTLE QUADRANT ASSY    234AA N BCCCA          BCCC          8
A7D   PUSH PULL CONTROL ASSY    234AC N BCCCC          BCCC          5
A7D   SUPPORT ASSY              234AD N BCCCD          BCCC          3
A7DSUPPORT ASSY                 23ADC   BCCCU          BCCC          3
A7DPUSH/PULL CONTROL ASSY       23ADB   BCCCV          BCCC          5
A7DBELL CRANK                   9923F   BCCCW          BCCC          3
A7DLINK ASSY                    9923J   BCCCX          BCCC          8
A7DTHROTTLE QUADRANT ASSY       23ADA   BCCCY          BCCC          8
A7DTHROTTLE LEVER               9923H   BCCCZ          BCCC          5
A7DENGINE CONTROL ADAPTER       23ADD   BCCT           BCC           A
A7DENGINE FUEL CONTROL CAM BOX  23CAJ   BCCU           BCC           5
A7DVALVE COLD START             23CAN   BCCV           BCC           0
A7DMAIN/MAN FUEL CONTROL DRAIN  23AEB   BCCW           BCC           2
A7D ENGINE FUEL VENT & DRAIN                BCCX           BC                  3000000005
A7D   FUEL DRAIN TANK ASSY      239DA N BCCXA          BCCX          3
A7D   FUEL DRAIN LINE,ENGINE   239DB N BCCXB          BCCX          5
A7D   PRESSURE VENT LINE        239DC N BCCXC          BCCX          1
A7D   TANK/VENT MAST DRAIN LINE239DD N BCCXD          BCCX          3
A7D   SEP.HOLDNG TANK DRN VALVE239DE N BCCXE          BCCX          0
A7D   COMB CHBR FUEL DRAIN VLV  231JJ N BCCXJ          BCCX          3
A7DHP FUEL SHUTOFF VALVE DRAIN  23AEE   BCCXU          BCC           2
A7D DRAIN VALVE HOLD TANK       23CBE   BCCXV          BCCX          0
A7D VENT MAST DRAIN LINE        23CBD   BCCXW          BCCX          3
A7D PRESSURE / VENT LINE        23CBC   BCCXX          BCCX          1
A7D ENGINE FUEL DRAIN LINE      23CBB   BCCXY          BCCX          5
A7D TANK ASSY FUEL DRAIN        23CBA   BCCXZ          BCCX          3
A7DHP FUEL SHUTOFF VALVE        23CAH   BCCY           BCC           0
A7DLOW PRESSURE GOVERNOR        23CAG   BCCZ           BCC           2
A7D YAW ADVISORY LIGHT          44BCD   BCEC           FCE           1
A7D FUEL TRANSFER TUBES 10EA    23CAL   BCS            BC            9
A7D COMB CHAMBER FUEL DRAIN     23AEA   BCT            BCCX          3
A7D FUEL NOZZLES 10 EACH        23BFA   BCU            BC            1
A7D FUEL VALVE RELIEF DRAIN ST  23BFE   BCV            BCCX          2
A7D COMB. DRAIN VALVE SPRING    23BFD   BCW            BCCX          1
A7D COMB. DRAIN VALVE           23BFC   BCX            BCCX          3
A7D COMBUSTION CASE  OUTER      23BFF   BCY            BC            A
A7D COMBUSTION LINER  10 EA     23BFB   BCZ            BC            1
A7D ENGINE THRUST TRANSMITTED               BD             B                   1AAAAAAA1
A7D   LH ENGINE FRONT MOUNT     231ZA N BDAA           BD            3
A7D   RH ENGINE FRONT MOUNT     231ZB N BDAB           BD            3
A7D   LH FWD SPHRICL BRNG PLATE231ZC N BDAC           BD            1
A7D   LH SPHERICAL BRNG BEARNG  231ZD N BDAD           BD            2
A7D   LH FWD ENG MT TRUNION     231ZE N BDAE           BD            3
A7D   RH FWD SPHRCL BRNG PLATE  231ZF N BDAF           BD            1
A7D   RH TRUNION LOCK RING      231ZG N BDAG           BD            1
A7D   RH FWD SPHERICAL BEARING  231ZH N BDAH           BD            2
A7D   RH FWD ENG MOUNT TRUNION  231ZJ N BDAJ           BD            3
A7D   REAR LINK SUSPENSION ASY  231ZK N BDAK           BD            2
A7D   ENG REAR SUSPENSION BOLT  231ZL N BDAL           BD            6
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A7.   ENG REAR SUSPENSION LINK 2312M N BDAM          BD          6
A7D   REAR FR SUSPEN SUPPORT   2312M N BDAN          BD          3
A7D   LH SUPP.AIRFRAME TRUNION 235AC N BDAP          BD          3
A7D   AIRFRAME TRUNION FH      235AA N BDAQ          BD          3
A7D   RH ENGINE ATTACH BOLT    235AB N BDAR          BD          0
A7D   AIRFRAME ATTACHMENT BOLT 235BA N BDBA          BD          5
A7D   FRONT WASHER             235BB N BDBB          BD          0
A7D   REAR WASHER              235BC N BDBC          BD          0
A7D   AIRFRAME ATTACH NUT      235BD N BDBD          BD          6
A7D REAR FRAME SUSPENSION SUPP.23ACE   BDL           BD          3
A7D REAR COLLAR REAR ENG SUSP  23ACD   BDM           BD          3
A7D FRONT COLLAR REAR ENG.SUSP 23ACC   BDN           BD          3
A7D ENGINE ATTACH BOLTS        23ACB   BDP           BD          0
A7DLH AFT REAR SUSPENSION ASSY 23ACA   BDQ           BD          2
A7D LH ENGINE MOUNT TRUNNION   23ABE   BDR           BD          3
A7DLH TRUNNION RETAINER PLATE  23ABC   BDS           BD          1
A7D LH SPHER ENGINE MOUNT BRNG 23ABB   BDT           BD          2
A7D LH TRUNNION SUPPORT MOUNT  23ABA   BDU           BD          3
A7D ENGINE MOUNT TRUNNION      23AAE   BDV           BD          3
A7D TRUNNION RETAINER PLATE    23AAD   BDW           BD          1
A7D SPHERICAL TRUNNION BEARING 23AAC   BDX           BD          2
A7D ENGINE ATTACH. BOLTS X EA  23AAB   BDY           BD          0
A7D RH TRUNNION SUPPORT MOUNT  23AAA   BDZ           BD          3
A7D ENGINE FUEL FEED                   BFA           BACG          AAAAAAAAA
A7D ENGINE FUEL FEED                   BFA           BACL          FAAAAAAAAA
A7D ENGINE FUEL FEED                   BFA           BFX           FAAAAAAAAA
A7D ALTERNATE FUEL FEED SELECT         BFAA          BFBF          FAAAAAAAAA
A7D ALTERNATE FUEL FEED SELECT         BFAA          BFCA            AAAAAAAAA
A7D  ALTERNATE FEED SELECT             BFAA          BFCBW         FAAAAAAAAA
A7D ALTERNATE FUEL FEED SELECT         BFAA          BFK           FAAAAAAAAA
A7D ALTERNATE FUEL FEED SELECT         BFAA          BFL           FAAAAAAAAA
A7D   THROTTLE QUADRANT ASSY   234AA N BFAAA         BFA         0
A7D   CONTROL ASSY             23ADA   BFAU          BFA         0
A7D   PUSH-PULL CONTROL ASSY   46AHA   BFAV          BFA         0
A7D   MAN FUEL SHUTOFF VALVE   46AFE   BFAW          BFA         0
A7D   MAIN QUIK DIS-CONNECT    46AFK   BFAX          BFA         8
A7D   FUEL LINE CHECK VALVE    46AFH   BFAY          BFA         0
A7D   ENGINE FUEL LINE         46AFJ   BFAZ          BFA         8
A7D FUEL PRESS DIFRNTL MAINTND         BFB           BFA           AAAAAAAAA
A7D FUEL VENTED                        BFBA          BFB           AAAAAAAAA
A7D FUEL VENTED                        BFBA          BFCG          F333333333
A7D FUEL VENTED                        BFBA          BFCM          F333333333
A7D FUEL VENTED                        BFBA          BFCN          F333333333
A7D FUEL VENTED                        BFBA          BFCP          F333333333
A7D FUEL VENTED                        BFBA          BFE           F333333333
A7D FUEL VENTED                        BFBA          BFEB          F333333333
A7D   FUEL VENT LINES/FITTINGS 99946R  BFBAW         BFBA        5
A7D   FUSELAGE VENT MAST 2EA   99946Q  BFBAX         BFBA        8
A7D   FWD FUSE TANK CHECK VALVE46CAB   BFBAY         BFBA        0
A7D   MID/AFT VENT CHECK VALVE 46CAB   BFBAZ         BFBA        0
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A7D GRAVITY PRESSURE EMPLOYED                    BFBB          BFB              00001000
A7D PUMPED PRESSURE DISTRIBUTED                  BFBC          BFB              11111111
A7D PUMPED PRESSURE DISTRIBUTED                  BFBC          BFBE            FAAAAAAAAA
A7D PUMPED PRESSURE DISTRIBUTED                  BFBC          BFCJ            FAAAAAAAAA
A7D PUMPED PRESSURE DISTRIBUTED                  BFBC          BFCL            FAAAAAAAAA
A7D COMBAT FEED SELECTED                         BFBD          BFBP             AAAAAAAAA
A7D SUMP TANK MOTIVE FLOW                        BFBE          BFQ              00000000
A7D   SUMP TANK DUAL EJECTOR JT46AEF             BFBEZ         BFBE            A
A7D TANK MOTIVE FLOW TRANSFER                    BFBF          BFBF             AAAAAAAAA
A7D TANK MOTIVE FLOW TRANSFER                    BFBF          BFCA             AAAAAAAAA
A7D TANK MOTIVE FLOW TRANSFER                    BFBF          BFCJ            FAAAAAAAAA
A7D TANK MOTIVE FLOW TRANSFER                    BFBF          BFCL            FAAAAAAAAA
A7D   FUEL TRANSFER MANIFOLD    46BFF           BFBFP         BFBF             B
A7D   CHECK VALVE               46BBC           BFBFS         BFBF             1
A7D   QUICK DISCONNECT          46BBB           BFBFT         BFBF             3
A7D   EMER WING XFER SEL VALVE  46BBA           BFBFU         BFBF             A
A7D   BY-PASS XFER SEL VALVE    46BBA           BFBFV         BFBF             4
A7D   WING XFER SELECT VALVE    46BBA           BFBFW         BFBF             3
A7D   FUEL XFER SWITCH          46BDE           BFBFX         BFBF             3
A7D   FUEL CONTROL PANEL        46BDD           BFBFY         BFBF             3
A7D   FUEL XFER CONTROL         46BDC           BFBFZ         BFBF             A
A7D AUTOMATIC FLOW TRANSFER                      BFBG          BFBF     BFBH    111111111
A7D   THERMISTOR AFT TNK NO.2   46BDF           BFBGY         BFBG             A
A7D   THERMISTOR RH FWD NO1     46BDA           BFBGZ         BFBG             A
A7D EMERGENCY WING FUEL XFER                     BFBH          BFBF   K BFBG    AAAAAAAAA
A7D EMERGENCY WING FUEL XFER                     BFBH          BFK              FAAAAAAAAA
A7D   FUEL XFER  SWITCH         46BDE           BFBHA         BFBH             A
A7D   EMER WING XFER SEL VALVE46BBA             BFBHB         BFBH             A
A7D FUEL QUANTITY INDICATED                      BFBK          BFBL              AAAAAAAAA
A7D   FUEL QTY IND SWITCH       46FBL           BFBKD         BFBK             2
A7D   SIMULATOR CIRCUIT CARD    46FAH           BFBKE         BFBK             0
A7D   EXT FUEL QTY SIMULATOR    46FAG           BFBKF         BFBK             0
A7D   FUEL QTY PROBE/XMTR 4EA   46FBD           BFBKG         BFBK             1
A7D   LH FUEL COMPENSATOR       46FBH           BFBKH         BFBK             2
A7D   WING TNK XMTR CENTER AFT  46FBG           BFBKJ         BFBK             1
A7D   WING TNK XMTR CENTER FWD  46FBF           BFBKK         BFBK             1
A7D   WING TNK AFT IBD XMTR 2EA46FBE            BFBKL         BFBK             1
A7D   WING TNK AFT OBD XMTR 2EA46FBD            BFBKM         BFBK             1
A7D   WING TNK FWD IBD XMTR 2EA46FBC            BFBKN         BFBK             1
A7D   WING TNK FWD MID XMTR 2EA46FBB            BFBKP         BFBK             1
A7D   WING TNK FWD OBD XMTR 2EA46FBA            BFBKQ         BFBK             1
A7D   MID TNK AFT QTY XMTR 2EA  46FAL           BFBKR         BFBK             1
A7D   AC FUEL QTY INDICATOR     46FAH           BFBKS         BFBK             3
A7D   COMPENSATOR FWD TANK 2EA  46FAG           BFBKT         BFBK             1
A7D   COMPENSATOR MAIN FUEL IND46FAF            BFBKU         BFBK             2
A7D   UPPER AFT TANK QTY XMTR   46FAE           BFBKV         BFBK             1
A7D   MID-TNK FWD QTY XMTR 2EA  46FAD           BFBKW         BFBK             1
A7D   SUMP TANK QTY XMTR        46FAC           BFBKX         BFBK             1
A7D   FWD TANK AFT QTY XMTR 2EA46FAB            BFBKY         BFBK             1
A7D   FWD TANK QTY XMTR 2 EACH 46FAA            BFBKZ         BFBK             1
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A7D PILOT ACTION                                BFBL          BFBH          AAAAAAAAA
A7D PILOT ACTION                                BFCB          BFCB          FAAAAAAAAA
A7D FUEL LOW WARNING                            BFBM          BFBL          111111111
A7D   LIGHT LOW LVL SUMP TANK  12DB0            BFBMV         BFBM        2
A7D   LIGHT LOW LVL FWD TANK   12DB0            BFBMW         BFBM        2
A7D   CNTRL DUAL THERM SENSING 46FCB            BFBMX         BFBM        A
A7D   SUMP TANK THERMISTOR     46FCC            BFBMY         BFBM        5
A7D   LH FWD THERMISTOR NO.3   46FCA            BFBMZ         BFBM        5
A7D CONSTANT FUEL SUPPLY MAINTD                 BFC           BFA           AAAAAAAAA
A7D EMERGENCY FUEL SUPPLIED                     BFCA          BFC     K BFD AAAAAAAAA
A7D   CHECK VALVE              46BFC            BFCAU         BFCA        1
A7D   MANIFOLD XFER FUEL  TEE  46DLM            BFCAV         BFCA        3
A7D   FUEL CROSS XFER TUBE     46BFL            BFCAW         BFCA        8
A7D   SHUT OFF LEVER ASSY      46BED            BFCAX         BFCA        A
A7D   MANUAL SHUT-OFF VALVE MF 46BFB            BFCAY         BFCA        2
A7D   MANUAL FUEL SELECT VALVE 46BFA            BFCAZ         BFCA        A
A7D FUEL FEED MODE SELECT                       BFCB          BFAA          FAAAAAAAAA
A7D FUEL FEED MODE SELECT                       BFCB          BFBC          FAAAAAAAAA
A7D FUEL FEED MODE SELECT                       BFCB          BFC           5555555555
A7D FUEL FEED MODE SELECTED                     BFCB          BFD           FAAAAAAAAA
A7D ALT MODE INDICATED                          BFCBW         BFCB          111111111
A7D   ALT FEED CAUTION LIGHT   46BFK            BFCBX         BFCB A        A
A7D   PUSH PULL CONT ASSY      46BLG            BFCBY         BFCB          2
A7D   SELECTOR ASSY HANDLE     46BFF            BFCBZ         BFCB          A
A7D FWD TANK TO SUMP FEED                       BFCC          BFD           111111111
A7D FWD TANK TO SUMP FEED                       BFCC          BFDC          F111111111
A7D   FWD TANK/SUMP LINES/FITT 9946N            BFCCX         BFCC        5
A7D   LH FWD TANK CHK VALVE    46AAB            BFCCY         BFCC        1
A7D   RH FWD TANK CHK VALVE    46ACB            BFCCZ         BFCC        1
A7D MID-FUSELAGE TO SUMP FEED                   BFCD          BFD           111111111
A7D MID-FUSELAGE TO SUMP FEED                   BFCD          BFDD          F111111111
A7D   MID-TANK TO SUMP LINES   9946J            BFCDX         BFCD        5
A7D   LH MID-FUSELAGE CHK VALVE46ABB            BFCDY         BFCD        1
A7D   RH MID-FUSELAGE CHK VALVE46ADB            BFCDZ         BFCD        1
A7D WING TANK TO SUMP XFER                      BFCE          BFD           111111111
A7D    WING TNK-SUMP LINES FITT9946W            BFCEZ         BFCE        5
A7D AFT TO SUMP TANK XFER                       BFCF          BFD           111111111
A7D   AFT TO SUMP XFER FITTINGS9946E            BFCFY         BFCF        5
A7D   FUEL XFER LINES/FITTINGS 9946D            BFCFZ         BFCF        3
A7DFWD FUEL CONTAINED                           BFCG          BFBG          FAAAAAAAAA
A7D FWD FUEL CONTAINED                          BFCG          BFCC          AAAAAAAAA
A7D   LH FWD TANK LINES/FITTING9946M            BFCGS         BFCG        5
A7D   LH FWD TANK BAFFLES      46AAE            BFCGT         BFCG        0
A7D   LH FWD TANK RESTRICTOR   46AAA            BFCGU         BFCG        1
A7D   LH FWD FUEL TANK         46AAC            BFCGV         BFCG        5
A7D   RH FWD TANK LINES/FITTING9946L            BFCGW         BFCG        5
A7D   RH FWD TANK BAFFLES      46ACE            BFCGX         BFCG        0
A7D   RH FWD TANK RESTRICTOR   46ACA            BFCGY         BFCG        1
A7D   RH FWD FUEL TANK         46ACC            BFCGZ         BFCG        5
A7D  AFT MOTIVE FLOW                            BFCJ          BFCF          111111111
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A7D AFT TANK MOTIVE FLOW                    BFCJ        BFL          888888888
A7D   MOTIVE FLOW INPUT LINE   9946C        BFCJX       BFCJ    8
A7D   MOTIVE FLOW X-OVER LINE  9946B        BFCJY       BFCJ    2
A7D   AFT TANK JET EJECTORS 2EA 46BCA       BFCJZ       BFCJ    5
A7D WING MOTIVE FLOW                        BFCL        BFCE     F555555555
A7D WING MOTIVE FLOW                        BFCL        BFK        777777777
A7D   MOTIVE FLOW INPUT LINE   9946H        BFCLX       BFCL    8
A7D   RIGHT JET EJECTOR PUMP   46BAB        BFCLY       BFCL    5
A7D   LEFT JET EJECTOR PUMP    46BAB        BFCLZ       BFCL    5
A7D WING FUEL CONTAINED                     BFCM        BFCE       AAAAAAAAA
A7D WING FUEL CONTAINED                     BFCM        BFK        AAAAAAAAA
A7D   WING TANK BAFFLING       46BAJ        BFCMW       BFCM    0
A7D   WING TANK CHECK VALVE    46BAD        BFCMX       BFCM    1
A7D   WATER DRAIN VALVE        46EAH        BFCMY       BFCM    0
A7D   WING TANK INSTALLATION   46BA0        BFCMZ       BFCM    A
A7D AFT FUEL CONTAINED                      BFCN        BFCF       AAAAAAAAA
A7D AFT FUEL CONTAINED                      BFCN        BFL        AAAAAAAAA
A7D   AFT TANK BAFFLES         46BCH        BFCNX       BFCN    0
A7D   AFT TANK CHECK VALVE 2EA 46BCC        BFCNY       BFCN    1
A7D   AFT FUEL TANK            46BCD        BFCNZ       BFCN    A
A7D MID-FUSE FUEL CONTAINED                 BFCP        BFCD       AAAAAAAAA
A7D   MID-TANK LINES/FITTINGS  9946K        BFCPV       BFCP    8
A7D   RH MID-TANK BAFFLES      46ADE        BFCPW       BFCP    0
A7D   RH MID FUEL TANK         46ADA        BFCPX       BFCP    5
A7D   LH MID-TANK BAFFLES      46ABE        BFCPY       BFCP    0
A7D   LH MID FUEL TANK         46ABA        BFCPZ       BFCP    5
A7D EXTERNAL FUEL STORED /XFER              BFD         BFC      S001000000
A7D EXTERNAL FUEL STORED /XFER              BFD         BFCG     F111111111
A7D EXTERNAL FUEL STORED /XFER              BFD         BFCM     F111111111
A7D EXTERNAL FUEL STORED /XFER              BFD         BFCN     F111111111
A7D EXTERNAL FUEL STORED /XFER              BFD         BFCP     F111111111
A7D STATION 1 FUEL STORED                   BFDA        BFD        222222222
A7D   MAU-12 ELECTRIC HARNESS  75BBC        BFDAV       BFDA    1
A7D   MAU-12 SUPPORT           75BBA        BFDAW       BFDA    5
A7D   MAU-12 RACK              75ACC        BFDAX       BFDA    8
A7D   EXT TANK 300 GAL         46FBO        BFDAY       BFDA    A
A7D   PYLON DISCNX VALVE       46EAE        BFDAZ       BFDA    2
A7D STATION 3 FUEL STORED                   BFDB        BFD        222222222
A7D   MAU-12 ELECTRIC HARNESS  75BDC        BFDBV       BFDB    1
A7D   MAU-12 SUPPORT           75BDA        BFDBW       BFDB    5
A7D   MAU-12 RACK              75ACC        BFDBX       BFDB    8
A7D   EXT TANK 300 GAL         46EBO        BFDBY       BFDB    A
A7D   PYLON DISCNX VALVE       46EAE        BFDBZ       BFDB    2
A7D STATION 6 FUEL STORED                   BFDC        BFD        222222222
A7D   MAU-12 ELECTRIC HARNESS  75BDC        BFDCV       BFDC    1
A7D   MAU-12 SUPPORT           75BDA        BFDCW       BFDC    5
A7D   MAU-12 RACK              75ACC        BFDCX       BFDC    8
A7D   EXT TANK 300 GAL         46FBO        BFDCY       BFDC    A
A7D   PYLON DISCNX VALVE       46EAE        BFDCZ       BFDC    2
A7D STATION 8 FUEL STORED                   BFDD        BFD        222222222
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A70      MAU-12 ELECTRIC HARNESS     75EBC   BFDDV          BFDD          1
A70      MAU-12 SUPPORT              75BBA   BFDDW          BFDD          5
A70      MAU-12 RACK                 757C0   BFDDX          BFDD          8
A70      EXT TANK 300 GAL            46EBC   BFDDY          BFDD          A
A70      PYLON DSCNX VALVE           46EAE   BFDDZ          BFDD          2
A70   AIRCRAFT RE-FUELED             BFE     BFCG             F222222222
A70   AIRCRAFT RE-FUELED             BFE     BFCM             F222222222
A70   AIRCRAFT RE-FUELED             BFF     BFCN             F222222222
A70   AIRCRAFT RE-FUELED             BFF     BFCP             F222222222
A70   AIRCRAFT RE-FUELED             BFL     BFD              F222222222
A70   AIRCRAFT RE-FUELED             BFE     BFQ              S000022000
A70   GROUND REFUEL                  BFEA    BFE                0000000D0
A70      EXT TNK FILLER DFA          46EBA   BFEAK          BFEA          1
A70      EXT TNK STOP CHK VALVE      46EAD   BFEAL          BFF           1
A70      EXT TNK STOP CHK VALVE      46EAC   BFEAM          BFF           1
A70      EXT TNK STOP CHK VALVE      46EAB   BFEAN          BFF           1
A70      EXT TNK STOP CHK VALVE      46EAA   BFEAP          BFL           1
A70      GND FUEL MAN CHECK VALVE    46BCL   BFEAS          BFEA          2
A70      AFT TANK FILLER LANYARD     9946P   BFEAT          BFEA          5
A70      AFT TANK FILLER CAP         46BCB   BFEAU          BFEA          0
A70      WING TANK FILLER CAP        46BAE   BFEAV          BFEA          0
A70      MAN DEFUEL CHK VALVE OPEN46AFM      BFEAW          BFEA          0
A70      MAN DEFUEL CHK VALVE CLSD46AFL      BFEAX          BFEA          0
A70      SECOND MANUAL PRECHK VALV46AFD      BFEAY          BFEA          2
A70      PRIMARY MANUAL PRECHK VAL46AFC      BFEAZ          BFEA          2
A70   AIR REFUELED                   BFEB    BFE                0000AAA00
A70   AIR REFUEL CONTROLLED          BFEC    BFEB               AAAAAAAAA
A70      MA-2 PROBE  ACTUATOR        46EBB   BFECM          BFEC          A
A70      MA-2 REFUEL VALVE SELECT    46DEA   BFECN          BFEC          A
A70      AMPLIFIER SWITCH            46GCM   BFECP          BFEC          5
A70      INDUCTION COIL              46GCL   BFECQ          BFEC          3
A70      RELAY AMPLIFIER             46GCK   BFECR          BFEC          5
A70      SIGNAL AMPLIFIER            46GCJ   BFECS          BFEC          0
A70      RESET SWITCH                46GCH   BFECT          BFEC          5
A70      REFUEL ADVISORY LIGHT       46GCF   BFECU          BFEC          1
A70      DIS-CNX PRESSURE SWITCH     46GCE   BFECV          BFEC          1
A70      SLIPWAY CLOSED IND SWITCH46GCD      BFECW          BFEC          0
A70      ON.LOAD READY SWITCH        46GCC   BFECX          BFEC          1
A70      NOZZLE CONTACT SWITCH       46GCB   BFECY          BFEC          8
A70      REFUEL CONTACT SWITCH       46GCA   BFECZ          BFEC          8
A70   AIR REFUEL MECH. ENABLED       BFED    BFEB               AAAAAAAAA
A70   REFUELING ACTUATION            BFED    LHN                AAAAAAAAA
A70      MA-2  REFUEL CHECK VALVE    46LAD   BFEDK          BFED          1
A70      MA-2 AR JOINT SWIVEL        46DAC   BFEDL          BFED          5
A70      MA-2 REFUEL PROBE ASSY      46DAB   BFEDM          BFED          5
A70      MA-2 NOZZLE ASSY            46LAA   BFEDN          BFED          A
A70      AR DOOR ACTUATING SWIVEL    46GBF   BFEDP          BFED          5
A70      LOCK VALVE ACTUTR SOLND     46GBD   BFEDQ          BFED          8
A70      HYD RECEPTALE LOCK ACTUTR46GBC      BFEDR          BFED          8
A70      MANUAL SELECTOR VALVE       46GBB   BFEDS          BFED          A
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AD-A054 486 ARINC RESEARCH CORP ANNAPOLIS MD F/G 1/2
DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS. VOLUME 4. A-7D A--ETC(U)
OCT 75 F09603-72-A-1132
UNCLASSIFIED C54-01-1-1406-VOL-4 NL

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123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D ENG.BLEED AIR SUPPLIED                    BX              BBAB                222222222
A7DHP BLEED AIR                               BX              FAX                 AAAAAAAAA
A7DLP BLEED AIR                               BX              ECK                 AAAAAAAAA
A7D   7TH STG AIR BLEED MANFOLD 231EN N       BXA             BX            8
A7D   BLD.VLV.SHAF & LINK ASSY  231EP N       BXB             BX            5
A7D   HPC BLEED AIR VALVE      231FQ N       BXC             BX            4
A7D   STG 7 AIR SUPPLY BRACKET 231JC N       BXD             BX            1
A7D   STG 7 AIR SUPPLY PIPE    231KN N       BXE             BX            7
A7D LO-PRESS BLEED MANIFOLD    99238         BXX             BX            5
A7D HI-PRESS BLEED MANIFOLD    99238A        BXY             BX            8
A7D PIP SUPPLY PIPE 7TH STAGE  238AC         BXZ             BX            7
A7D ENGINE ANTI-ICE                          BZXZ            BCBB    A       000000000
A7D ANTI-ICING TUBE FRONT      238AJ         BZXZR           BZXZ          3
A7D INDICATER RESET SWITCH     238AH         BZXZS           BZXZ          0
A7D ANTI-ICE D'PRESS NOKTR SW  238AG         BZXZT           BZXZ          0
A7D ANTI-ICE D'PRESSURE INDIKTR238AF         BZXZU           BZXZ          0
A7D ANTI-ICING LIGHT           238AE         BZXZV           BZXZ          0
A7D ANTI-ICING SWITCH          238AD         BZXZW           BZXZ          4
A7D ANTI-ICING HARNESS         238AC         BZXZX           BZXZ          5
A7D ANTI-ICING RECEPTACLE      238AB         BZXZY           BZXZ          5
A7D ANTI-ICING VALVE           238AA         BZXZZ           BZXZ          4
A7DCOMM/NAV/IDENT                            C                             AAAAAAAAA
A7DCOMMUNICATIONS                            CA              C       E       000000110
A7DAUDIO PROCESSOR                           CAA             CA            555555555
A7D  CODER/DECODER             69AA0         CAAA            CAA           1
A7D  CONTROL                   69AE0         CAAB            CAA           1
A7D  RELAY                     69ACC         CAAC            CAA           1
A7D  MOUNT                     69ADD         CAAD            CAA           0
A7D RED AUDIO ASSY             64AFO         CAAF            CAA           1
A7DUHF COMMUNICATIONS                        CAB             CA      CAC     111111111
A7DCONTROL                                   CAEA            CAB             AAAAAAAAA
A7DCONTROL                                   CABA            DZX             FAAAAAAAAA
A7D CONTROL UNIT C7916         63ADO         CABAA           CABA          1
A7D CONTROL UNIT C6816         63AGO         CABAB           CABA          1
A7D UHF VOLUME CONTROL         63AA0         CABAC           CABA          5
A7DTRANSMIT/RECEIVE                          CABB            CAB             AAAAAAAAA
A7DTRANSMIT/RECEIVE                          CABB            DS              FAAAAAAAAA
A7D REC/TRANS                  63AA0         CABBA           CABB          1
A7D MOUNT                      63ABO         CABBB           CABB          0
A7D DIPLEXER                   63AEO         CABBC           CABB          5
A7D ANTENNA                    11CBE         CABBD           CABB          3
A7D SPECT GEN                  63AAF         CABBE           CABB          4
A7D POWER SUPPLY               63AAH         CABBF           CABB          4
A7D TUNER                      63AAJ         CABBG           CABB          4
A7D AMPLIFIER                  63AAD         CABBH           CABB          4
A7D CHASSIS                    63AAK         CABBJ           CABB          1
A7DRECEIVE                                   CABC            CABB            AAAAAAAAA
A7DTRANSMIT                                  CABD            CABB            222222222
A7D POWER AMP                  63AAF         CABDA           CABD          4
A7D UHF SELECT CONTROL         64AA0         CABDB           CABB          4
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0000000001111111111122222222223333333333444444444455555555556666666666777777777 8
1234567890123456789012345678901234567890123456789012345678901234567890123456789 0
A7DCOOLING                              CABE        CABB                  888888888
A7D AIR COOLER                  63AKO   CABEA       CABE            A
A7D ARC-51 RECEIVE                      CABF        CABC      CBME        111111111
A7DARC-51 RECEIVE                       CABF        CBMB    K CBML        AAAAAAAAA
A7D PREAMP                      63AAA   CABFA       CABF            A
A7DMAIN REC                             CABG        CABF      CABH        111111111
A7D  DUMMY                      5999A   CABGA       CABG            0
A7DGUARD                                CABH        CABF                  111111111
A7D REC ASSY                    63AAG   CABHA       CABH            A
A7DVHF COMMUNICATIONS                   CAC         CA      K CAB         AAAAAAAAA
A7DTRANSMIT/RECEIVE                     CACA        CAC                   AAAAAAAAA
A7D REC/TRANS                   62AFO   CACAA       CACA            8
A7D TUNER ASSY                  62AAA   CACAB       CACA            2
A7D RF OSC ASSY                 62AAE   CACAC       CACA            2
A7D CRYSTAL REF ASSY            62AAC   CACAD       CACA            2
A7D RF CONTROL ASSY             62AAE   CACAE       CACA            2
A7D POWER SUPPLY ASSY           62AAQ   CACAF       CACA            3
A7D CHASSIS                     62AAR   CACAG       CACA            1
A7D GEAR BOX ASSY               62AAS   CACAH       CACA            2
A7D MOUNT                       62ABO   CACAJ       CACA            0
A7D ANTENNA FEED ASSY           62ACO   CACAK       CACA            5
A7D ANTENNA COUPLER             62AEO   CACAM       CACA            8
A7D ANTENNA                     11CBE   CACAN       CACA            3
A7DCONTROL                              CACB        CAC                   AAAAAAAAA
A7D CONTROL UNIT                62ADO   CACBA       CACB            A
A7D VOLUME CONTROL              64AAO   CACBB       CACB            5
A7DTRANSMIT                             CACD        CACA                  222222222
A7D OSC BUFFER ASSY             62AAK   CACDA       CACD            2
A7D RF AMP ASSY                 62AAL   CACDB       CACD            2
A7D LSC AMP ASSY                62AAM   CACDC       CACD            2
A7D AMP/MOD ASSY                62AAP   CACDD       CACD            2
A7D VHF SELECT CONTROL          64AAO   CACDE       CACA            A
A7DRECEIVE                              CACE        CACA                  AAAAAAAAA
A7D HOMER DET                   62AAF   CACEA       CACE            0
A7D IF ATTEN ASSY               62AAG   CACEB       CACE            2
A7D AUDIO AMP                   62AAH   CACEC       CACE            2
A7D AF AMP ASSY                 62AAJ   CACED       CACE            2
A7D AUDIO MIXER                 62AAN   CACEE       CACE            2
A7D IF AMP                      62AAB   CACEF       CACE            2
A7DINTERNAL AUDIO SYSTEM                CAD         CAA                   AAAAAAAAA
A7DINTERNAL AUDIO                       CAD         CBM                   111111111
A7DINTERNAL AUDIO SYSTEM                CAD         CBN                   111111111
A7DINTERNAL AUDIO                       CAD         CBP                   111111111
A7DINTERNAL AUDIO SYSTEM                CAD         CCA                   111111111
A7DINTERNAL AUDIO                       CAD         MAAT                  AAAAAAAAA
A7D PILOTS ICS LEAD             64AAA   CADA        CAD             3
A7D ICS VOLUME CONTROL          64AAO   CADAA       CAD             8
A7D CONNECTOR                   96AAC   CADB        CAD             A
A7D AUDIO RELAY ASSY            64AGO   CADBA       CAD             1
A7D CKT CARD ASSY               64AGA   CADBB       CAD             1
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0000000011111111112222222222333333333444444444455555555566666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A70 ISC TRANS PANEL A230        [illegible]   CA0BC    CA0        1
A70 ISC TRANS PANEL A231        [illegible]   CA0BD    CA0        5
A70 TRACK AUDIO ASSY            64AEC    CA0BE    CA0        2
A70 MIKE SWITCH                 64AE0    CA0C     CA0        5
A70 MASK (MIKE)                 36AAB    CA0D     CA0        2
A70 HELMET(HEADSET)             [illegible]   CA0E     CA0        8
A70 KEYING RELAY                [illegible]   CA0F     CA0        5
A70 ICS STATION                 64AC0    CA0G     CA0        0
A70 NAVIGATION                           CB       C       F        0D1222150
A70 GROUND TRACK                         CBAA     CBAFB           FAAAAAAAAA
A70 GROUND TRACK                         CBAA     CBX             0000D000
A70GROUND TRACK/GT VELOCITY              CBAAA    CBAA            AAAAAAAAA
A70GROUND TRACK/GT VELOCITY              CBAAA    CBAAB           FAAAAAAAAA
A70 TACTICAL COMPUTER           73BAC    CBAAAA   CBAAA      A
A70 TAC COMP CONTROL            73BF0    CBAAAB   CBAAA      A
A70 TAC COMP MOUNT              73FFC    CBAAAC   CBAAA      0
A70GROUND TRACK VELOCITY                 CBAAB    CBAED           AAAAAAAAA
A70GROUND TRACK VELOCITY                 CBAAB    CBAEDD          FAAAAAAAAA
A70 HORIZ SITUATION IND         71AFC    CBAAX    CBAA       2
A70 PROJ MAP DISPLAY UNIT       73CA0    CBAAY    CBAA       1
A70 SIGNAL DATA CONVERTER       73CE0    CBAAZ    CBAA       1
A70BEARING                               CBAB     CBX             0001111D0
A70COMPUTED BEARING                      CBABA    CBABZX          111111111
A70COMPUTED BEARING                      CBABA    CBAEB           FAAAAAAAAA
A70 TAC COMPUTER                73F70    CBABB    CBABA      A
A70 TAC COMP CONTROL            73FF0    CBABC    CBAB       A
A70 TAC COMP MOUNT              73FFC    CBABD    CBAB       0
A70 HSI                         71A80    CBABE    CBAB       2
A70 PMDS DISPLAY UNIT           73CA0    CBABF    CBAB       1
A70 SIG DATA CONVERTER          73CE0    CBABG    CBAB       1
A70BEARING ATTENUATION                   CBABYX   CBAB            111111111
A70BEARING ATTENUATION                   CBABZX   CBABYX          111111111
A70HEADING                               CBAC     CBX             00111110
A70 HORIZ SITUATION IND         71AFC    CBACAA   CBAX       1
A70 ADI                         71AC0    CBACAB   CBAX       1
A70 ADI                         71AJ0    CBACAC   CBAX       1
A70 PROJ MAP DISPLAY UNIT       73CA0    CBACAD   CBAX       1
A70 SIGNAL DATA CONVERTER       73CE0    CBACAE   CBAX       1
A70 HUD DISPLAY UNIT            73FAC    CBACAF   CBAX       1
A70 HUD SIG DATA PROCESS        73FB0    CBACAG   CBAX       1
A70 HUD MOUNT                   73FC0    CBACAH   CBAX       0
A70STANDBY HEADING                       CBACB    CBAC    X CBAX  AAAAAAAAA
A70 STBY COMPASS                [illegible]   CBACBA   CBACB      5
A70PRESENT POSITION                      CBAD     CBABA           FAAAAAAAAA
A70PRESENT POSITION                      CBAD     CBAEA           AAAAAAAAA
A70PRESENT POSITION                      CBAD     CBX             000000000
A70NORMAL/DI MODES                       CBADA    CBAD            111111111
A70INERTIAL MODE                         CBADB    CBAD            111111111
A70DOPPLER/AIR MASS MODE                 CBADC    CBAD            111111111
A70DOPPLER MODE                          CBADD    CBADC           111111111
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0000000001111111111122222222223333333334444444444555555555566666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7DAIR MASS MODE                          CBADE          CBADC          111111111
A7DLORAN                                  CBADF          CBAD           000000000
A7D RECEIVER                    71DA0     CBADFA         CBADF      8
A7D MOUNT                       71DB0     CBADFB         CBADF      0
A7D COUPLER                     71DC0     CBADFC         CBADF      5
A7D ANTENNA                     71DD0     CBADFD         CBADF      5
A7D DIPLEXER                    71DE0     CBADFE         CBADF      5
A7D SIG DATA CONV               73GB0     CBADV          CBAD       1
A7D PROJECTED MAP DISPLAY UNIT  73GA0     CBADW          CBAD       1
A7D TAC COMP MOUNT              73BC0     CBADX          CBAD       0
A7D TAC COMP CONTROL            73BB0     CBADY          CBAD       A
A7D TACTICAL COMPUTER           73BA0     CBADZ          CBAD       A
A7DDISTANCE                               CBAE           CBX            000001000
A7DCOMPUTED DISTANCE                      CBAEA          CBAEX          111111111
A7D SIG DATA CONVERTER          73GB0     CBAEB          CBAE       1
A7D HORIZ SITUATION IND         71AB0     CBAEC          CBAE       2
A7D PROJ MAP DISP UNIT          73GA0     CBAED          CBAE       1
A7D TAC COMP                    73BA0     CBAEE          CBAEA      A
A7D TAC COMP CONT               73BB0     CBAEF          CBAEA      A
A7D TAC COMP MOUNT              73BC0     CBAEG          CBAEA      0
A7DDISTANCE ATTENUATION                   CBAEX          CBAE           111111111
A7DSTEERING                               CBAF           CBX            00001A180
A7DFDC STEERING                           CBAFA          CBAF           000001110
A7D FLIGHT DIRECTOR COMPUTER    71AF0     CBAFAA         CBAFA      A
A7D CKT CARD PWR SP             71AFA     CBAFAAA        CBAFA      A
A7D CKT CARD BEAM SENSOR        71AFB     CBAFAAB        CBAFA      A
A7D CKT CARD PITCH              71AFC     CBAFAAC        CBAFA      A
A7D CKT CARD ROLL               71AFD     CBAFAAD        CBAFA      A
A7D FDC MOUNT                   71AG0     CBAFAB         CBAFA      0
A7D HSI                         71AB0     CBAFAC         CBAFA      3
A7DTAC COMP STEER                         CBAFB          CBAF           000001000
A7D   THUMBWHEEL ENCODER        234AB N   CBAFBB         CBAFB      1
A7D HUD DISP UNIT               73FA0     CBAFBD         CBAFB      1
A7D HUD SIG DATA PROCESS        73EB0     CBAFBF         CBAFB      1
A7D HUD MOUNT                   73EC0     CBAFBF         CBAFB      0
A7D TACTICAL COMPUTER           73BA0     CBAFBG         CBAFB      A
A7D TAC COMP CONTROL            73BB0     CBAFBH         CBAFB      A
A7D MOUNT                       73BC0     CBAFBJ         CBAFB      0
A7DTF STEERING                            CBAFD          CBAF   8       000050000
A7DCOMPUTED FLT PATH ANGLE                CBAFDA         CBAFD          AAAAAAAAA
A7DCOMPUTED VERTICAL VELOCITY             CBAFDB         CBAFDA         555555555
A7DIMS/ADC DERIVED                        CBAFDC         CBAFDB         111111111
A7DIMS/DOPP DERIVED                       CBAFDD         CBAFDB         111111111
A7DADC DERIVED                            CBAFDE         CBAFDB         111111111
A7D TACTICAL COMP MOUNT         73BC0     CBAFDS         CBAFD      0
A7D TAC COMP CONTROL            73BB0     CBAFDT         CBAFD      A
A7D TACTICAL COMPUTER           73BA0     CBAFDU         CBAFD      A
A7DILS STEERING                           CBAFX          CBAFA          000C001A0
A7D ADI                         71AC0     CBAFXA         CBAF       5
A7D ADI                         71AG0     CBAFXB         CBAF       5
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0000000011111111112222222222333333333344444444445555555555666666663677777777773
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D HUD DISP UNIT                73EA0   CBAFXC          CBAFD       5
A7D HUD DISPLAY UNIT             73EA0   CBAFXC          CBAFX       1
A7D HUD SIG DATA PROCESS         73EB0   CBAFXD          CBAFD       5
A7D HUD SIG DATA PROCESS         73EB0   CBAFXD          CBAFX       1
A7D HUD MOUNT                    73EC0   CBAFXE          CBAFD       0
A7D HUD MOUNT                    73EC0   CBAFXE          CBAFX       0
A7DMANUAL STEERING                       CBAFY           CBAFA         000000000
A7DTACAN STEERING                        CBAFZ           CBAFA         000000000
A7DMODE SELECT/SWITCHING                 CBAG            CBX           111111111
A7D HEADING MODE SWITCH          71AA0   CBAGA           CBAG        2
A7D RELAY ASSY                   71AE0   CBAGB           CBAG        1
A7D RELAY SUBASSY                71FEA   CBAGC           CBAG        1
A7D RELAY SUBASSY                71AEB   CBAGD           CBAG        1
A7D CKT CARD ASSY                71AE0   CBAGE           CBAG        1
A7D CKT CARD ASSY                71ALD   CBAGF           CBAG        1
A7D RELAY SUB ASSY               71AFE   CBAGG           CBAG        1
A7D MODE SELECT SWITCH ASSY      71AH0   CBAGH           CBAG        1
A7DPRIMARY HEADING                       CBAX            CBAC          111111111
A7DADI UTILITIES                         CBBA            CBAF          555555555
A7DALT UTILITIES                         CBBA            CBAX          111111111
A7DHSI UTILITIES                         CBBC            CBAA          222222222
A7DHSI UTILITIES                         CBBC            CBAB          222222222
A7DHSI UTILITIES                         CBBC            CBAE          222222222
A7DHSI UTILITIES                         CBBC            CBAFA         333333333
A7DHSI UTILITIES                         CBBC            CBAX          111111111
A7DRDC UTILITIES                         CBBD            CBAFA         AAAAAAAAA
A7DTAC COMP UTILITIES                    CBBE            CBAAA         AAAAAAAAA
A7DTAC COMP UTILITIES                    CBBE            CBABA         AAAAAAAAA
A7DTAC COMP UTILITIES                    CBBE            CBAD          AAAAAAAAA
A7DTAC COMP UTILITIES                    CBBE            CBAEA         AAAAAAAAA
A7DTAC COMP UTILITIES                    CBBE            CBAFB         AAAAAAAAA
A7DTAC COMP UTILITIES                    CBBF            CBAFD         AAAAAAAAA
A7DHUD UTILITIES                         CBBF            CBAFB         111111111
A7DHUD UTILITIES                         CBBF            CBAFD         555555555
A7DHUD UTILITIES                         CBBF            CBAFX         111111111
A7DHUD UTILITIES                         CBBF            CBAX          111111111
A7D HSI UTILITIES                        CBBF            DADL          AAAAAAAAA
A7DRDD UTILITIES                         CBBF            DDZB          AAAAAAAAA
A7DPMDS UTILITIES                        CBBG            CBAA          111111111
A7DPMDS UTILITIES                        CBBG            CBAB          111111111
A7DPMDS UTILITIES                        CBBG            CBAD          111111111
A7DPMDS UTILITIES                        CBBG            CBAE          111111111
A7DPMDS UTILITIES                        CBBG            CBAX          111111111
A7DIMS                                   CBK             CBAAA         SAAAAAAAAA
A7D IMS                                  CBK             CBABA         SAAAAAAAAA
A7DIMS                                   CBK             CBAFDA        SAAAAAAAAA
A7DIMS                                   CBK             CBKX          FAAAAAAAAA
A7DIMS                                   CBK             CBKY          FAAAAAAAAA
A7DIMS                                   CBK             CBKZ          FAAAAAAAAA
A7 IMS                                   CBK             MAAB            111111111
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000000000111111111122222222223333333333444444444455555555556666666666777777777788
123456789012345678901234567890123456789012345678901234567890123456789012345678901
A7FCONTROL                                CBKA          CBK           AAAAAAAAA
A7DCONTROL                                CBKA          CBKV          FAAAAAAAAA
A7D CONTROL BOX                 73FC0     CBKAA         CBKA          A
A7D MECH ASSY                   73FCA     CBKAB         CBKA          A
A7D PANEL,FRONT                 73FCB     CBKAC         CBKA          0
A7DPROCESSING/POWER SUPPLY                CBKB          CBK           AAAAAAAAA
A7DPROCESSING/POWER SUPPLY                CBKB          CBKW          FAAAAAAAAA
A7D PWR SUPPLY/ADAPTER          73FD0     CBKBA         CBKB          8
A7D MODULE                      73FDA     CBKBB         CBKB          2
A7D CARD                        73FDB     CBKBC         CBKB          2
A7D CARD                        73FDC     CBKBD         CBKB          2
A7D MODULE                      73FDD     CBKBE         CBKB          2
A7D MODULE                      73FDE     CBKBF         CBKB          2
A7D MODULE                      73FDF     CBKBG         CBKB          2
A7D CARD                        73FDG     CBKBH         CBKB          2
A7D CARD                        73FDH     CBKBJ         CBKB          2
A7D MODULE                      73FDJ     CBKBK         CBKB          2
A7D AMP                         73FDK     CBKBL         CBKB          3
A7D POWER SUPPLY                73FDM     CBKBM         CBKB          3
A7D POWER SUPPLY                73FDN     CBKBN         CBKB          3
A7D POWER SUPPLY                73FDP     CBKBP         CBKB          3
A7D POWER SUPPLY                73FDQ     CBKBQ         CBKB          3
A7D POWER SUPPLY                73FDR     CBKBR         CBKB          3
A7D MODULE,BITE                 73FDS     CBKBS         CBKB          2
A7D BOARD                       73FDT     CBKBT         CBKB          2
A7D BOARD                       73FDU     CBKBU         CBKB          2
A7D MOUNT                       73FE0     CBKBV         CBKB          0
A7D BATTERY PACK                73FF0     CBKBW         CBKB          1
A7D BATT CHG ASSY               73FFA     CBKBX         CBKB          1
A7D BOARD                       73FFB     CBKBY         CBKB          2
A7D BATT/HEATER ASSY            73FFC     CBKBZ         CBKB          1
A7D POWER SUPPLY                73FDL     CBKBZA        CBKB          3
A7DSENSING/ALIGNMENT                      CBKC          CBK           AAAAAAAAA
A7DSENSING/ALIGNMENT                      CBKC          CBKU          FAAAAAAAAA
A7D IMU                         73FA0     CBKCA         CBKC          A
A7D MODULE                      73FAD     CBKCB         CBKC          A
A7D GIMBAL ELECT ASSY           73FAE     CBKCC         CBKC          A
A7D PWR SUPPLY                  73FAF     CBKCD         CBKC          A
A7D SWITCH ASSY                 73FAG     CBKCE         CBKC          A
A7D FAN                         73FAJ     CBKCF         CBKC          A
A7D PLENUM                      73FAK     CBKCG         CBKC          0
A7D AMP                         73FAT     CBKCH         CBKC          A
A7D AMP                         73FAU     CBKCJ         CBKC          A
A7D AMP                         73FAV     CBKCK         CBKC          A
A7D COMP BOARD                  73FAW     CBKCL         CBKC          A
A7D MOUNT                       73FB0     CBKCM         CBKC          A
A7DRCT HEADING SEDSING                    CBKD          CBAX          FAAAAAAAAA
A7DRCT HEADING SEDSING                    CBKD          CBKC          AAAAAAAAA
A7D TRANSMITTER                 73FG0     CBKDA         CBKD          A
A7DINERTIAL SENSING                       CBKE          CBKC          AAAAAAAAA
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0000000001111111111222222222233333333334444444444555555555566666666677777777773
1234567890123456789012345678901234567890123456789012345678901234567890123456790
A7  ACCEL   X-Y AXIS          73EAM    C8KEA          C8KE          A
A7  GYRO    X-Y AXIS          73EAP    C8KEE          C8KE          A
A7  GYRO    Z  AXIS           73EAQ    C8KED          C8KE          A
A7  ACCEL, ELECT              73EAR    C8KEF          C8KE          A
A7  GYRO ELECT                73EAS    C8KEE          C8KE          A
A7 PLATFORM ALIGNMENT                  C8KF           C8KC            AAAAAAAAA
A7 INTERNAL ALIGN                      C8KG           C8KE            555555555
A7  MUNRY                     9999C    C8KGA          C8KG          J
A7 TAC COMP ALIGN                      C8KH           C8KE            555555555
A7  TAC COMP                  73EAG    C8KHA          C8KH          A
A7  TAC COMP CONTROL          73EEC    C8KHB          C8KH          A
A7  TAC COMP MOUNT            73EC0    C8KHC          C8KH          0
A7 NOT ALIGNED WARNING                 C8KU           0ZFA            111111111
A7 GROUND ALIGN WARNING                C8KV           0ZFA            111111111
A7 IMS FAIL WARNING                    C8KW           0ZFA            111111111
A7 IMS HEADING                         C8KX           C8AAA           FIIIIIIII
A7 IMS HEADING                         C8KX           C8ABA             AAAAAAAAA
A7 IMS HEADING                         C8KX           C8ADC             AAAAAAAAA
A7 IAS HEADING                         C8KX           C8AX              999999999
A7 IAS HEADING                         C8KX           C8K               FAAAAAAAAA
A7 IMS HEADING                         C8KX           C8KC              222222222
A7 VELOCITIES                          C8KY           C8AAA             FAAAAAAAAA
A7 VELOCITIES                          C8KY           C8ADA             AAAAAAAAA
A7 VELOCITIES                          C8KY           C8AEB             AAAAAAAAA
A7 VELOCITIES                          C8KY           C8AEGA            FAAAAAAAAA
A7 VELOCITIES                          C8KY           C8AEDC            FAAAAAAAAA
A7 ATTITUDE                            C8KZ           C8AEDD            FAAAAAAAAA
A7 ATTITUDE                            C8KZ           C8AEDE            FAAAAAAAAA
A7 ATTITUDE                            C8KZ           C8AEX             AAAAAAAAA
A7 ATTITUDE                            C8KZ           C8AEZ             AAAAAAAAA
A7 ATTITUDE                            C8KZ           C8L               AAAAAAAAA
A7 ATTITUDE                            C8KZ           C8U               AAAAAAAAA
A7 ATTITUDE                            C8KZ           C0EZ              AAAAAAAAA
A7 DOPPLER                             C8L            C8ADA             SAAAAAAAAA
A7 DOPPLER                             C8L            C8LX              FAAAAAAAAA
A7 DOPPLER                             C8L            C8LY              FAAAAAAAAA
A7 DOPPLER                             C8L            C8LZ              FAAAAAAAAA
A7D RADAR REC/TRANS           73EAC    C8LA           C8L           A
A7D POWER SUPPLY              73EAA    C8LB           C8L           A
A7D MODULATOR                 73DAB    C8LC           C8L           A
A7D MODULE                    73DAC    C8LD           C8L           2
A7D MODULE                    73EAC    C8LE           C8L           2
A7D REGULATOR                 73DAE    C8LF           C8L           A
A7D MODULE                    73EAE    C8LG           C8L           A
A7D LOGIC                     73DAG    C8LH           C8L           A
A7D LOGIC                     73DAJ    C8LJ           C8L           2
A7D MODULE                    73DAK    C8LK           C8L           2
A7D LOCAL OSC                 73DAL    C8LL           C8L           2
A7D MODULE                    73DAH    C8LM           C8L           2
A7D CONTROL                   73DAM    C8LN           C8L           2
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0000000011111111112222222222333333333444444444455555555566666666777777777788
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D LOGIC                    73DAN   CBLP          CBL          2
A7D MODULE                   73DAP   CBLQ          CBL          2
A7D PWR SUPPLY               73DAQ   CBLR          CBL          2
A7D PWR SUPPLY               73DAR   CBLS          CBL          2
A7D MODULE                   73DAS   CBLT          CBL          2
A7D PWR SUPPLY               73DAT   CBLU          CBL          2
A7D PWR SUPPLY               73DAU   CBLV          CBL          2
A7D MICROWAVE ASSY           73DAV   CBLW          CBL          2
A7D LOCAL OSC                73DAW   CBLWA         CBL          2
A7D CRYSTAL SWITCH           73DAX   CBLWB         CBL          2
A7D CRYSTAL SWITCH           73DAY   CBLWC         CBL          2
A7DMEMORY WARNING                    CBLX          DZFB           111111111
A7DGROUND SPEED                      CBLY          CBADA          AAAAAAAAAA
A7DGROUND SPEED                      CBLY          CBADD          AAAAAAAAAA
A7DGROUND SPEED                      CBLY          CBAEDD         111111111
A7DDRIFT ANGLE                       CBLZ          CBAAA          111111111
A7DDRIFT ANGLE                       CBLZ          CBADA          AAAAAAAAAA
A7DDRIFT ANGLE                       CBLZ          CBADD          AAAAAAAAAA
A7D DIXER                    73DAZ   CBLZA         CBL          2
A7D MAGNETROL                73DA1   CBLZB         CBL          2
A7D CIRCULATOR               73DA2   CBLZC         CBL          2
A7D FRAME                    73DA3   CBLZD         CBL          0
A7D AMP                      73DA4   CBLZE         CBL          2
A7D UNDERVOLT ASSY           73DA5   CBLZF         CBL          2
A7D ANTENNA                  73DB0   CBLZG         CBL          8
A7D MODULE                   73DBA   CBLZH         CBL          8
A7D MODULE                   73DBB   CBLZJ         CBL          9
A7D CONTROL IND              73DCC   CBLZK         CBL          A
A7D BOARD                    73DCA   CBLZL         CBL          2
A7D BOARD                    73DCB   CBLZM         CBL          2
A7D FRONT PANEL              73DCC   CBLZN         CBL          0
A7D MOUNT                    73DD0   CBLZP         CBL          0
A7D WAVEGUIDE                73DE0   CBLZQ         CBL          A
A7DADF SYSTEM                        CBM           CBMZ           AAAAAAAAA
A7DCONTROL                           CBMA          CBM            AAAAAAAAA
A7D CONTROL BOX              63BEC   CBMAA         CBMA         A
A7DRECEIVE                           CBMB          CBM            AAAAAAAAA
A7DPRIMARY REC                       CBME          CABC   K CABF  AAAAAAAAA
A7DPRIMARY REC                       CBMF          CBMB           111111111
A7D RECEIVER                 63EC0   CBMEA         CBME         A
A7D MODULE                   63BCA   CBMEB         CBME         A
A7D MODULE                   63BCB   CBMEC         CBME         A
A7D MOUNT                    63BD0   CBMED         CBME         0
A7D RELAY AMP                63BA0   CBMEE         CBME         A
A7D ANTENNA                  63BB0   CBMEF         CBME         A
A7D RELAY AMP MOUNT          63BL0   CBMEG         CBME         0
A7D REC CONTROL              63BE0   CBMEH         CBME         A
A7D REC MOUNT                63BF0   CBMEJ         CBME         0
A7DBEARING ADF                       CBMZ          CBABZX         111111111
A7DTACAN                             CBN           CBNW           AAAAAAAAA
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PGM05.JIKL DATE = 10/06/79 FLIGHT SAFETY PREDICTION TECHNIQUE

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000000000111111111122222222223333333444444444555555555566666666677777777778
123456789012345678901234567890123456789012345678901234567890123456789012345678
AZDTACAN                          CBN          CBNX          AAAAAAAAA
AZDTACAN                          CBN          CBNY          AAAAAAAAA
AZD REC/TRANS              71EAC  CBNA         CBN        4
AZD AMP                    71EAJ  CBNB         CBN        1
AZD MULTIPLIER             71EAP  CBNC         CBN        1
AZD MODULATOR              71EAG  CBND         CBN        4
AZD PASS SELECTOR          71EAL  CBNE         CBN        1
AZD AMP                    71EAL  CBNF         CBN        4
AZD ANT SELECTOR           71EAF  CBNG         CBN        4
AZD MODULE                 71EAG  CBNH         CBN        4
AZD POWER SUPPLY           71EAH  CBNJ         CBN        4
AZD DECODER                71EAJ  CBNK         CBN        4
AZD MODULE                 71EAK  CBNL         CBN        1
AZD MODULE                 71EAL  CBNM         CBN        4
AZD MODULE                 71EAM  CBNN         CBN        4
AZD DECODER                71EAR  CBNP         CBN        4
AZD MODULE                 71EAP  CBNQ         CBN        4
AZD MODULE                 71EAQ  CBNR         CBN        4
AZD MODULE                 71EAR  CBNS         CBN        4
AZD MODULE RF              71EAS  CBNSA        CBN        4
AZD REC MOUNT              71EBO  CBNT         CBN        0
AZD CONTROL                71EBC  CBNU         CBN        4
AZD ANT SWITCH             71EBO  CBNV         CBN        4
AZDSTARTNG TACAN                  CBNW         CBABZX        111111111
AZD UPPER ANT              71EBG  CBNWW        CBN        5
AZDDISTANCE                       CBNX         CBAEX         111111111
AZD LOWER ANT              71EFO  CBNXX        CBN        5
AZDDEVIATION                      CBNY         CBAFZ         AAAAAAAAA
AZD BLOWER                 71EHO  CBNYY        CBN        4
AZD BLOWER MOUNT           71EJO  CBNZ         CBN        0
AZD FLUSH ANTENNA          71EKO  CBNZA        CBN        5
AZDILS                            CBP          CBAFX         AAAAAAAAA
AZD MKR REC/GLIDE SLOPE REC       CBPA         CBP        8
AZD CONTROL                71CCC  CBPB         CBP        8
AZD ANTENNA                71CEC  CBPC         CBP        5
AZD LOCALIZER REC          71CFC  CBPE         CBP        8
AZD LOCALIZER ANT ARRAY    71CHO  CBPF         CBP        4
AZD CAPACITOR              71CJO  CBPG         CBP        1
AZD CAPACITOR              71CKC  CBPH         CBP        1
AZD ANTENNA                71CFC  CBPP         CBP        5
AZDRADAR                          CBQ          CBQX          AAAAAAAAA
AZDRADAR                          CBQ          CBQY          AAAAAAAAA
AZDRADAR                          CBQ          CBQZ          AAAAAAAAA
AZD ANTENNA RECEIVER       73AAC  CBQA         CBQ        8
AZD TRANSMITTER            73ABO  CBQB         CBQ        8
AZD  PWR SUPPLY/PROGRAMMER 73ACO  CBQC         CBQ        8
AZD AIR NAV COMPUTER       73AFO  CBQD         CBQ        8
AZE INDICATOR              73AEO  CBQE         CBQ        5
AZD SWEEP GEN              73AFO  CBQF         CBQ        8
AZD CONTROL                73AGO  CBQG         CBQ        8
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0000000001111111111222222222233333333334444444444555555555566666666657777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D PITOT.STATIC SENSING                    DABD      UCL          FAAAAAAAAA
A7D PITOT SENSING                           DABD      UCS          SAAAAAAAAA
A7D PITOT SENSING                           DABD      UCU          SAAAAAAAAA
A7D PITOT PRESSURE SENSED                   DABE      DABD           AAAAAAAAA
A7D   PITOT TUBE                  51A1A    DABEZ     DABF         A
A7D STATIC PRESSURE SENSED                  DABF      DABC           AAAAAAAAA
A7D STATIC PRESSURE SENSED                  DABF      DACC           AAAAAAAAA
A7D STATIC PRESSURE SENSED                  DABF      DADC           AAAAAAAAA
A7D  DUMMY                       9999D    DABFA     DABF         0
A7D PITOT STATIC TUBE ICE FREE              DABG      DABE   A       AAAAAAAAA
A7D   PITOT HEATER RELAYS        51AFB    DABGZ     DABG         5
A7D ALTITUDE DISPLAYED                      DAC       DA     F       001111AA0
A7D PRESSURE ALTITUDE DISPLAYED             DACA      DAC            0C0A1A110
A7D   ALTIMETER AAU-19A          51AEB    DACAZ     DACA         8
A7D CORRECTED PRESS ALT DISPLAY             DACB      DACA     DACC  111111111
A7D UNCOR.PRESS ALT DISPLAYED               DACC      DACA   K DACB  888888888
A7D   ALTIMETER VIBRATOR ASSY  51ACC    DACCZ     DACC         2
A7D AUXILLARY PRESS ALT DISPLAY             DACE      DACA           000111000
A7D   CABIN PRESS ALTIMETER    41ECD    DACEZ     DACE         5
A7D ABSOLUTE ALTITUDE CONVEYED              DACG      DAC            000010210
A7D   LOW ALT WARNING LIGHT    12FED    DACGY     DACG         1
A7D   HEIGHT INDICATOR APN/141 72AEC    DACGZ     DACG         8
A7D RADAR ALTIMETER CONTROLLED              DACJ      DACG           AAAAAAAAA
A7D   SELF TEST ASSY           9972C    DACJX     DACJ         1
A7D   LOW ALT CLEARANCE CONTROL9972B    DACJY     DACJ         5
A7D   POWER UNIT               9972A    DACJZ     DACJ         A
A7DRADAR ALTITUDE                           DACK      CBAED          AAAAAAAAA
A7DRADAR ALTITUDE                           DACK      CBAEX          AAAAAAAAA
A7DRADAR ALTITUDE                           DACK      CBQ            111111111
A7D   SIG. RELIABILITY ASSY    72ABC    DACKX     DACK         5
A7D   POWER SUPPLY            72ABB    DACKY     DACK         A
A7D   ALTITUDE ASSY           72ABA    DACKZ     DACK         8
A7D RADAR ALT SIGNAL PROCESSED              DACL      DACG           AAAAAAAAA
A7D RADAR ALT SIGNAL PROCESSED              DACL      DACK         FAAAAAAAAA
A7D   RCVR / XMTR MOUNT         72AFD    DACLZ     DACL         1
A7D ALTITUDE MODE CONTROLLED                DACM      DACL           AAAAAAAAA
A7D   ALTITUDE SWITCH          72AG3    DACMY     DACM         A
A7D   SWITCH DRIVE CIRCUIT     72AGA    DACMZ     DACM         7
A7D TIME COMPARED                           DACN      DACL           AAAAAAAAA
A7D   ANTENNA SWITCH UNIT      72APC    DACNY     DACN         A
A7D   COMPARATOR               72AAA    DACNZ     DACN         A
A7D RADAR ALT POWER SUPPLY                  DACP      DACL           AAAAAAAAA
A7D   XMIT/RCV POWER SUPPLY    72AAC    DACPP     DACP         8
A7D RF ENERGY TRANSMITTED                   DACQ      DACN           AAAAAAAAA
A7D   TRANSMIT ANTENNA         72AFC    DACQX     DACQ         5
A7D   TRANSMITTER CAVITY       72AAE    DACQY     DACQ         A
A7D   MODULATOR                72AAB    DACQZ     DACQ         7
A7D RF ENERGY RECEIVED                      DACR      DACN           AAAAAAAAA
A7D   RECEIVER ANTENNA         72AGC    DACRX     DACR         5
A7D   RECEIVER CAVITY          72AAE    DACRY     DACR         A
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0000000001111111111222222222233333333334444444444555555555566666666667777777773
1234567890123456789012345678901234567890123456789012345678901234567890123456789O
A7D   RECEIVER                    72AAD   DACRZ           DACR          7
A7D AERODYNAMIC SITUATION                 DAD             DA              0000100A0
A7D ANGLE OF ATTACK CONVEYED              DADA            DAD             000000010
A7D G-FORCES DISPLAYED                    DADB            DAD             000050000
A7D   NORMAL ACCELEROMETER      51AAA   DADBZ           DADB          5
A7D RATE CLMB/DESC. DISPLAYED             DADC            DAD             000C00000
A7D   VERT.VELOCITY INDICATOR   51AED   DADCZ           DADC          5
A7D STALL WARNING GIVEN                   DADF            DADA            111111111
A7D   RUDDER PEDAL SHAKER       51ADJ   DADFZ           DADF          8
A7D APPR /LAND AOA DISPLAY                DADG            DADA            AA4AAAAAAA
A7D CRUISE ANGLE OF ATTK DISPL            DADH            DAB     K DABC  AAAAAAAAA
A7D CRUISE ANGLE OF ATTK DISPL            DADH            DADA          F555555555
A7D CRUISE ANGLE OF ATTK DISPL            DADH            DADG    K DADJ  AAAAAAAAA
A7D   ANGLE/ATTACK INDICATOR     51ADA   DADHZ           DADH          5
A7D ENHANCED VISUAL AOA DISPLAY           DADJ            DADG      DADH  555555555
A7D AOA INDEXER DISPLAY                   DADK            DADJ      DADL  111111111
A7D   AOA INDEX & HOOD           51ADE   DADKZ           DADK          8
A7D AOA HEAD-UP DISPLAY                   DADL            DADJ      DADK  111111111
A7D  HUD MOUNT                    73FCC   DADLX           DADL          0
A7D  SIGNAL DATA PROCESSOR        73EDO   DADLY           DADL          A
A7D  HUD DISPLAY UNIT             73EAO   DADLZ           DADL          A
A7DANGLE OF ATTACK                        DADM            CBADE           AAAAAAAAA
A7DANGLE OF ATTACK                        DADM            CBAEDB          S111111111
A7DANGLE OF ATTACK                        DADM            CBAEDD          FAAAAAAAAA
A7DANGLE OF ATTACK                        DADM            CBAEDE          FAAAAAAAAA
A7DANGLE OF ATTACK DATA XMIT              DADM            DAB     K DABC  SAAAAAAAAA
A7DANGLE OF ATTACK DATA XMIT              DADM            DADA            SAAAAAAAAA
A7DANGLE OF ATTK DATA XMIT                DADM            DADF            FAAAAAAAAA
A7DANGLE OF ATTK DATA XMIT                DADM            DADH            FAAAAAAAAA
A7DANGLE OF ATTK DATA XMIT                DADM            DADK            FAAAAAAAAA
A7DANGLE OF ATTK DATA XMIT                DADM            DADL            FAAAAAAAAA
A7D  ROLL CDU CUT.OUT RELAYS      51ADG   DADMY           DADM          3
A7D  AOA TRANSDUCER               51ADB   DADMZ           DADM          A
A7D ANGLE OF ATTACK SENSED                DADN            DADM            AAAAAAAAA
A7D   AOA GROUND TEST SWITCH     51ADH   DADNX           DADN          0
A7D   AOA VANE CIRCUITS          9951B   DADNY           DADN          8
A7D   AOA VANE ASSY              9951A   DADNZ           DADN          8
A7D AIRCRAFT ATTITUDE DISPLAY             DAE             DAD     E       000000000
A7D STBY ATTITUDE DISPLAYED               DAEA            DAE     K DAEB  777777777
A7D   GYRO FAST ERECT SWITCH     9951C   DAEAY           DAEA          2
A7D   REMOTE ATTITUDE INDICATOR51BAC   DAEAZ           DAEA          5
A7D PRIMARY AC TURN/ATT DISPLA            DAEB            DAE       DAEA  111111111
A7D   ADI                        71AJC   DAEBY           DAEB          A
A7D   ADI                        71ACO   DAEBZ           DAEB          A
A7D STBY ATTITUDE SENSE & XMIT            DAEF            DAEA            AAAAAAAAA
A7D STBY ATTITUDE SENSE & XMIT            DAEF            FDEZ            111111111
A7DATTITUDE SIGNAL                        DAEF            FEKG            AAAAAAAAA
A7D  SHOCK MOUNTS                 51BAD   DAEFW           DAEF          3
A7D  GYRO FAST ERECT CIRCUIT      9951D   DAEFX           DAEF          5
A7D  GYRO RATE SWITCHING          51BAB   DAEFY           DAEF          A
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0000000011111111112222222223333333334444444445555555556666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A70  GYRO RATE SWITCHING          51BAA   DAFFZ          DAFF            A
A70 GRND MAINT. DATA DISPLAYED            DB             D                 000000000
A70   TIMER TOTALIZING METER     232EJ N DBA            DB              1
A70   OVERSPEED INDICATER        232EB N DBB            DB              1
A70   ACCELER. TRANSDUCER        51A6B   DBY            DB              1
A70   ACCELER. INDICATOR         51ABA   DBZ            DB              1
A70INDICATED AIRSPEED                     DDZA           DAB               002222000
A70DDD DISPLAY                            D9ZB           DDZA              111111111
A70 HDD MOUNT                     73EC0   DDZBX          DDZB            0
A70 SIGNAL DATA CONVERTER         73EBC   DDZBY          DDZB            A
A70   DISPLAY UNIT                73EA0   DDZBZ          DDZB            A
A70 ATTENUATION INFORMATION/DIS           DX             DA                111111111
A70 CRITICAL INFO DISPLAYED               DY             DA                AAAAAAAAA
A70 FIRE WARNING CONVEYED                 DYZ            DY      X         AAAAAAAAA
A70   FIRE WARNING LIGHT          9949A   DYZW           DYZ             A
A70   WARN SIGNAL / TEST SWITCH49AAC   DYZX           DYZ             1
A70   CONTROL UNIT                49AAB   DYZY           DYZ             5
A70   CABLE ASSY HEAT SENSING     49AAA   DYZZ           DYZ             A
A70AC MANAGEMENT DATA DISPLAY             DZ             DA                AAAAAAAAA
A70 ADVISORY DATA DISPLAYED               DZA            DZ                000000000
A70 WHEELS/FLAP STATUS                    DZAB           FAUB              010000010
A70 WHEELS/FLAP STATUS                    DZAH           LAD               010000010
A70 WHEEL/FLAP WARNG LIGHT        12E0E   DZABZ          DZAB            7
A70  CIRCUIT BOARD R11276-31      12ECD   DZAV           DZA             7
A70  CIRCUIT BOARD R11272-31      12ECC   DZAW           DZA             7
A70  HARNESS ASSY AD/CAUTION      12ECB   DZAX           DZA             5
A70  INDICATOR ADVISORY/CAUTION12ECA   DZAY           DZA             3
A70  ADVISORY PANEL LIGHTS 10EA448GC      DZAZ           DZA             1
A70 ENGINE MGT DATA DISPLAYED             DZB            DZ                AAAAAAAAA
A70  DUMMY                        9999G   DZBA           DZB             0
A70 ELAPSED TIME    INDICATOR     91ABF   DZBFYZ         DB              A
A70 AC STORES MGT DATA DISPLAY            DZC            DZ                000999000
A70 FUEL STORES MGT DATA DISPLA           DZCC           DZC               111111111
A70 FUEL FLOW DATA DISPLAYED              DZCCB          DZCC              AAAAAAAAA
A70  DUMMY                        9999F   DZCCBA         DZCCB           0
A70 FUEL FEED  INFO DISPLAYED             DZCCC          BACD              111111111
A70 MANUAL FUEL CAUTION LIGHT     12DFC   DZCCCY         DZCCC           5
A70 FWD ADVISORY PANEL            44ECB   DZCCX7         BFEC            1
A70 OPERATING STATE DATA DISPLA           DZF            DZ                AAAAAAAAA
A70 CANOPY STATUS DISPLAYED               DZEA           EAEZ    I EAF     88888888
A70 CONTROL POSITION DISPLAYED            DZEB           DZE               AAAAAAAAA
A70 WING POSITION INDICATED               DZEBY          DZEB    I GC      100000000
A70 WING FOLD CAUTION LIGHT       12EBD   DZEBYZ         DZEBY           5
A70 A/C BRAKE STATUS/POSITION             DZEC           DZE               AAAAAAAAA
A70  DUMMY                        9999E   DZECA          DZEC            0
A70 ARREST GEAR STATUS DISP               DZEX           GAAB              111111111
A70 HOOK HANDLE WARNING LIGHT     13HDB   DZEXY          DZEX            1
A70 HOOK DOWN CAUTION LIGHT       12DFD   DZEXZ          DZEX            5
A70 CANOPY LATCHED LIGHT          12ADB   DZEY           DZEA            5
A70 AIC AUX SYSTEM DATA DISPLAY           DZF            D7                AAAAAAAAA
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0000000001111111111222222222233333333334444444444555555555566666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D  IMS MGT DATA DISPLAYED              DZFA              DZA          F111111111
A7D  IMS MGT DATA DISPLAYED              DZFA              DZF    I CBK   111111111
A7D  IMS CAUTION LIGHT          12DFG    DZFAA             DZFA         A
A7D  DOPPLER MGT DATA DISPLAYED          DZFB              DZA          F111111111
A7D  DOPPLER MGT DATA DISPLAYED          DZFB              DZF    I CBL   111111111
A7D  AIR DATA COMPTR  WARNING            DZFC              DZA          F111111111
A7D  AIR DATA COMPTR WARNING             DZFC              DZF    I UCX   111111111
A7D   COMPUTER CAUTION LIGHT    12DFC    DZFCZ             DZFC         A
A7D  ECM STATUS DISPLAYED                DZFDX             DZF    I ME    000000000
A7D   ECM CAUTION LIGHT         12DHD    DZFDXZ            DZFDX        7
A7D  HYDRAULIC PRESS STATUS DISP         DZFE              UHCN           111111111
A7D  HYDRAULIC PRESS WARNING             DZFEX             DZFE           222222222
A7D    HARNESS ASSY PC-3 CAUTION12DDB    DZFEXV            DZFEX        5
A7D    BOARD ASSY PC-3 CAUTION   12DEA    DZFEXW            DZFEX        3
A7D  PC 3 PRESS CAUTION LIGHT    12DEC    DZFEXX            DZFEX        A
A7D  PC 2 PRESS CAUTION LIGHT    12DBD    DZFEXY            DZFEX        A
A7D    PC-1 PRESS CAUTION LIGHT  12DBC    DZFEX7            DZFEX        A
A7D  HYDRAULIC PRESS INDICATED           DZFEY             DZFE           111111111
A7D   PC-3 PRESS INDICATED       99450    DZFEYX            DZFEY        5
A7D   PC-2 PRESS INDICATED       456BC    DZFEYY            DZFEY        5
A7D   PC-1 PRESS INDICATED       45ABB    DZFEYZ            DZFEY        5
A7DHYDRAULIC PRESS DATA RCVD             DZFEZ             DZFE           AAAAAAAAA
A7D  HUD MANGMT DISPLAY                  DZFH              DZF    I CBAF  555555555
A7D   HUD FAIL CAUTION LIGHT     12DBD    DZFHY             DZFH         A
A7D   HUD HOT CAUTION LIGHT      12DBD    DZFHZ             DZFH         A
A7DAFCS MGT DATA DISPLAYED               DZFX              DZA          F111111111
A7D  AFCS MGT DATA DISPLAYED             DZFX              DZF            555555555
A7D  COMM EQUIP STATUS                   DZX               DZ             000000000
A7D   UHF REMOTE LIGHT           83AHD    DZXY              DZX          2
A7D   IFF WARNING LIGHT          12DBJ    DZXZ              DZX          3
A7DENVIRONMENTAL CONTROL                 E                                AAAAAAAAA
A7DCABIN INTERNAL ENVIRONMENT            EA                EX             012222250
A7DWINDSHIELD DEFOG                      EAA               EA     Y       000000010
A7DCABIN ENVIRONMENT                     EAB               EA             001222100
A7D  EMERGENCY VENT AIR                  EAC               EAB    K EAG   AAAAAAAAA
A7D   PILOT ACTION                       EACA              EAC            AAAAAAAAA
A7D   PRESSURE STATUS                    EACB              EACA           001111000
A7D    SCOOP,VENT AIR            41AAN    EACC              EAC          3
A7D    HANDLE,VENT AIR           9941A    EACD              EACA         A
A7D    ALTIMETER,CABIN PRESS.    41BCD    EACE              EACB         1
A7D  DEFOG CONTROL                       EAD               EAA            AAAAAAAAA
A7D   CONTROL PANEL,COCKPIT ENV.41ACB    EADA              EAD          7
A7D   THERMOSTAT,DEFOG TEMP     41AFB    EADB              EAD          4
A7D   ANTICIPATOR               41AFF    EADC              EAD          1
A7D  DEFOG AIR                           EAE               EAA            AAAAAAAAA
A7D   VALVE, DEFOG              41AFA    EAEA              EAE          7
A7D   NOZZLE,DEFOG    2 EACH    41AFD    EAEB              EAE          1
A7D CANOPY SEAL                          EAF               DZEA           FAAAAAAAAA
A7D  CANOPY SEALED                       EAF               EAB            001222100
A7D   CANOPY SEAL                12AAB    EAFA              EAF          1
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A7DCANOPY LOCKED                          EAFZ          EAF              AAAAAAAAA
A7D  SOLT PIVOT                 12AAC     EAFZA         EAFZ          A
A7D  HANDLE CANOPY RELEASE      12ABA     EAFZB         EAFZ          2
A7D  NORMAL AIR/PRESSURE                  EAG           EAH      EAC     055555550
A7D  GROUND COOLING                       EAH           EAB              000000000
A7D    SOCKET,GROUND COOLING    41AEA     EAHA          EAH           A
A7D    VALVE,CHECK              41AEB     EAHB          EAH           1
A7DTEMP/PRESSURE CONTROL                  EAJ           EAG              AAAAAAAAA
A7D  TEMPERATURE CONTROL                  EAL           EAJ              555555555
A7D    AUTO/MANUAL SELECT       41ACB     EALA          EAL           3
A7D    VALVE ASSY,TEMP.CONTROL  41ACA     EALB          EAL           7
A7D    CABIN TEMP THERMOS.VALVE 41AFC     EALC          EAL           1
A7D PRESSURE CONTROL                      EAM           EAJ              AAAAAAAAA
A7D    CABIN PRESS.SWITCH       41ACG     EAMA          EAM           A
A7D    REGULATOR,AIR PRESS.     41BCA     EAMB          EAM           1
A7D    VALVE,CABIN SAFETY       41BCC     EAMC          EAM           A
A7DCONDITIONED AIR MIX/DIST               EAN           EAF              AAAAAAAAA
A7DCONDITIONED AIR MIX/DIST               EAN           EAG              AAAAAAAAA
A7D    VALVE,FLOW CONTROL       41AAU     EANA          EAN           A
A7D    DUCT/VALVE ASSY          41ACE     EANB          EAN           0
A7D    VALVE,CHECK              41ACF     EANC          EAN           2
A7D    SEAL CANOPY AIR INLET    41ACG     EAND          EAN           0
A7D  AUTO CONTROL                         EAP           EAL      EAQ     111111111
A7D    SENSOR,DUCT TEMP.        41ACC     EAPA          EAP           1
A7D    AUTO TEMP.CONTROL        41ACD     EAPB          EAP           7
A7D    SENSOR,CABIN TEMP.       41ACK     EAPC          EAP           9
A7D  MANUAL CONTROL                       EAQ           EAL    K EAP     AAAAAAAAA
A7D    MANUAL TEMP.CONTROL      41ACE     EAQA          EAQ           A
A7DRAM AIR DIST                           EAS           EAW              G6AAAAA60
A7DRAM AIR DIST                           EAS           ECH              G6AAAAA60
A7D  DUMMY                      9999H     EASA          EAS           0
A7DREFRIGERATED AIR SUPPLY/DIST           EAT           EAN              AAAAAAAAA
A7DREFRIGERATED AIR SUPPLY/DIST           EAT           EBH              AAAAAAAAA
A7DREFRIGERATED AIR SUPPLY/DIST           EAT           EFE              AAAAAAAAA
A7D    TURBINE,COOLING          41AAC     EATA          EAT           A
A7D    SEPARATOR,WATER          41AAI     EATB          EAT           2
A7D    VALVE,SEP.,ANTI ICE      41AAM     EATC          EAT           2
A7D    THERMOSTAT,COMP.INLET    41AAN     EATD          EAT           2
A7D    SCREEN,ANTI ICE          41AAX     EATE          EAT           1
A7D    TRANSMITTER,TEMP LO LIMIT41AAC     EATF          EAT           2
A7D    HEATEXCHANGER            41AAB     EATG          EAT           A
A7DCONTROL AIR SUPPLY/DIST                EAU           EAD              AAAAAAAAA
A7DCONTROL AIR SUPPLY/DIST                EAU           EAG              SAAAAAAAAA
A7DCONTROL AIR SUPPLY/DIST                EAU           EAJ              FAAAAAAAAA
A7DCONTROL AIR SUPPLY/DIST                EAU           EAY              FAAAAAAAAA
A7DCONTROL AIR SUPPLY/DIST                EAU           EBG              AAAAAAAAA
A7DCONTROL AIR SUPPLY/DIST                EAU           EBD      EAW     111111111
A7DCONTROL AIR SUPPLY/DIST                EAU           EBF              AAAAAAAAA
A7DCONTROL AIR SUPPLY/DIST                EAU           EGC              SAAAAAAAAA
A7DCONTROL AIR SUPPLY/DIST                EAU           EGF              FAAAAAAAAA
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A7D    VALVE,CONTROL AIR          41AHA    EAUA              EAU          A
A7D    MANIFOLD,CONTROL AIR       41ABC    EAUB              EAU          A
A7D    VALVE,RELIEF               41ABE    EAUC              EAU          1
A7DHOT AIR SUPPLY/DIST                     EAV               EAE           AAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EAN          FAAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EAT          SAAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EAW          FAAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EAY          FAAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EBL          FAAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EBQ          SAAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EFE           AAAAAAAAA
A7DHOT AIR SUPPLY/DIST                     EAV               EGC          SAAAAAAAAA
A7D    MANIFOLD,HOT AIR           9941B    EAVA              EAV          A
A7DHEAT REMOVAL                            EAW               EAT           AAAAAAAAA
A7DHEAT REMOVAL                            EAW               EBQ    K EAU  AAAAAAAAA
A7D    HEAT EXCHANGER             41AAB    EAWA              EAW          6
A7D    DUCT,INLET                 41AAE    EAWB              EAW          A
A7D    DUCT,EXHAUST               41AAF    EAWC              EAW          A
A7DHP BLEED AIR DISTRIBUTION               EAX               EAU          FAAAAAAAAA
A7DHP BLEED AIR DISTRIBUTION               EAX               EAV           AAAAAAAAA
A7DHP BLEED AIR DISTRIBUTION               EAX               EBQ          SAAAAAAAAA
A7DHP BLEED AIR DISTRIBUTION               EAX               EFE          SAAAAAAAAA
A7D    VALVE ASSY,PRESS LIMIT     41AAA    EAXA              EAV          A
A7D    DUCT,BLEED AIR FIXED       41AAD    EAXB              EAX          A
A7D    DUCT, HP BLEED             41AAR    EAXC              EAX          A
A7D    DUCT,GIMBAL                41AAS    EAXD              EAX          A
A7DRAM AIR AUGMENTATION                    EAY               EAW           840000048
A7DRAM AIR AUGMENTATION                    EAY               ECH           840000048
A7D    VALVE,EJECTOR AIR          41AAP    EAYA              EAY          7
A7D    VALVE,EJECTOR DUMP         41AAV    EAYB              EGF          A
A7D LANDING GEAR DOWN                      EAZ               EAY           990000099
A7DLEFT  AVICS EQUIP COOLING               EBA               CBBE          AAAAAAAAA
A7DLEFT AVIONICS EQUIP COOLING             EBA               CBKC          AAAAAAAAA
A7DMANIFOLD,LH             9941C    EBAA              EBA          2
A7DSWEEP GEN COOLING                       EBB               CBQ           AAAAAAAAA
A7DMANIFOLD,SWEEP GEN      41AGE    EBBA              EBB          A
A7DCAMERA BAY ENVIRONMENT                  EBC               MR            111111111
A7DRIGHT AVICS EQUIP COOLING               EBD               CA           S555555555
A7DRIGHT AVICS  EQUIP COOLING              EBD               CABE         FAAAAAAAAA
A7DRIGHT AVICS  EQUIP COOLING              EBD               CACA         FAAAAAAAAA
A7DRIGHT AVICS EQUIP COOLING               EBD               CBBG          AAAAAAAAA
A7DMANIFOLD,RH             41AGB    EBDA              EBD          2
A7DCAMERA BAY AIR MIX/DIST.                EBE               EBC           AAAAAAAAA
A7DDUCT                    41AHA    EBEA              EBE          2
A7DVALVE,CHECK             41AHD    EBEB              EBE          1
A7DVALVE,TEMP CONTROL      41AHB    EBEC              EBE          5
A7DLEFT AMBIENT AIR COOLING                EBG               CBKB          111111111
A7DLEFT AMBIENT AIR COOLING                EBG               CCA           111111111
A7DEQUIPMENT AIR SUPPLY/DIST.              EBH               EBA           AAAAAAAAA
A7DEQUIPMENT AIR SUPPLY/DIST.              EBH               EBB           AAAAAAAAA
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A7DEQUIPMENT AIR SUPPLY/DIST.          EBH          EBJ          AAAAAAAAA
A7DEQUIPMENT AIR SUPPLY/DIST.          EBH          EBF          AAAAAAAAA
A7DUCT                      41ACA      EBHA         EBH      2
A7DLEFT RAM AIR COOLING                EBJ          EBG          011111110
A7DSCOOP,LH                 41EAA      EBJA         EBJ      1
A7DLEFT FAN COOLING                    EBK          EBG          A1111111A
A7DFAN,LH                   41EAH      EBKA         EBK      A
A7DSWITCH                   41EAB      EBKB         EBK      7
A7DRIGHT FAN COOLING                   EBL          EBD          A1111111A
A7DFAN,RH                   41EAF      EBLA         EBL      A
A7DSWITCH                   41EAH      EBLB         EBL      7
A7DRIGHT RAM AIR COOLING               EBM          EBP          011111110
A7DSCOOP,RH                 41EAE      EBMA         EBM      1
A7DFAN ACTIVATION                      EBN          EBK          AAAAAAAAA
A7DFAN ACTIVATION                      EBN          EBL          AAAAAAAAA
A7DSWITCH,DIFF.             41EAC      EBNA         EBN      5
A7DDELAY                    99411      EBNB         EBN      5
A7DRIGHT AMBIENT AIR COOLING           EBP          CAA          111111111
A7DRIGHT AMBIENT AIR COOLING           EBP          CBBF         111111111
A7DRIGHT AMBIENT AIR COOLING           EBP          CBL          111111111
A7DRIGHT AMBIENT AIR COOLING           EBP          CBME         111111111
A7DRIGHT AMBIENT AIR COOLING           EBP          CBN          111111111
A7DRIGHT AMBIENT AIR COOLING           EBP          CBP          111111111
A7DRADAR PRESSURIZATION                EBQ          CBQ          000AAA000
A7DREGULATOR                41EAA      EBQA         EBQ      7
A7DDESICCATOR               41EAE      EBQB         EBQ      0
A7DVALVE                    41EAC      EBQC         EBQ      A
A7D LOW PRESSURE BLEED AIR             ECA          BEE          AAAAAAAAA
A7DGUN PURGE                           ECB          MC           0000100D0
A7D  PURGE AIR                         ECC          ECS          AAAAAAAAA
A7D   VALVE,PURGE AIR       41EAC      ECCA         ECC      A
A7D  PURGE DOOR OPEN                   ECD          ECB          AAAAAAAAA
A7D   DOOR                  41EAA      ECDA         ECD      1
A7D   VALVE                 41EEA      ECDB         ECD      A
A7D   CYL.ASSY              41EBB      ECDC         ECD      5
A7D   SWIVELS               41EEC      ECDD         ECD      A
A7D   SWITCH,INTERLOCK      744JE      ECDE         ECC      A
A7D   RESTRICTOR            99411      ECDF         ECD      3
A7DAUX.AIR SUPPLY/DIST.                ECE          ECA          AAAAAAAAA
A7DAUX.AIR SUPPLY/DIST.                ECE          ECC          AAAAAAAAA
A7DAUX.AIR SUPPLY/DIST.                ECE          EBH          AAAAAAAAA
A7D TEMPERATURE CONTROL                ECG          ECH          AAAAAAAAA
A7D   THERMOSTAT            41C6D      ECGA         ECG      5
A7D   VALVE,TEMP CONT       41CBH      ECGB         ECG      A
A7DHEAT REMOVAL                        ECH          ECE          AAAAAAAAA
A7D   HEAT EXCHANGER        41AAB      ECHA         ECH      4
A7D LP BLEED AIR DIST                  ECK          ECH          AAAAAAAAA
A7D   DUCTS,LP BLEED FIXED  41CAA      ECKA         ECK      9
A7D   DUCT,MOTION COMPENSATOR 41CAB    ECKB         ECK      9
A7D   COUPLINGS             41CAC      ECKC         ECK      9
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A7D   DUCT,LP BLEED,ENG.COMPT.  41CAD   ECKD          FCK          9
A7D   DUCT,GIMBAL   ENG CMPT.   41CAE   ECKE          FCK          9
A7DOXYGEN                               ED            EX             001A5A000
A7DOXYGEN DIST                          EDA           FD             AAAAAAAAA
A7DMASK                         96AAB   EDAA          EDA          1
A7DCONNECTOR                    91BAE   EDAB          EDA          5
A7DEMERGENCY OXYGEN                     EDB           EDA    K EDF   AAAAAAAAA
A7DSUPPLY & DIST                        EDC           EDB            AAAAAAAAA
A7DBOTTLE ASSY                  47BAA   EDCA          EDC          A
A7DHOSE & CONN ASSY             47BAB   EDCB          EDC          5
A7DPILOT ACTION                         EDD           EDB            AAAAAAAAA
A7DHANDLE                       9947A   EDDA          EDD          A
A7DOXYGEN STATUS INFO                   EDF           EDD            888888888
A7DINDICATOR LOX QTY            47A6A   EDEA          EDE          2
A7DSWITCH,TEST                  47A6B   EDEB          EDE          0
A7DCARTION LITE                 12DPU   EDEC          EDE          1
A7DNORMAL OXYGEN                        EDF           EDA      EDB   555555555
A7DNORMAL OXYGEN                        EDF           EDE           FAAAAAAAAA
A7DSUPPLY & DIST                        EDG           EDF            AAAAAAAAA
A7DCONVERTER                    47AAA   EDGA          EDG          A
A7DCOIL,BUILDUP                 47AAB   EDGB          EDG          A
A7DVALVE,FILLER                 47AAD   EDGC          EDG          2
A7DQUICK DISCONNECTS            47AAF   EDGD          EDG          5
A7DEXCHANGER,HEAT               47AAJ   EDGE          EDG          A
A7DVENT ASSY                    47AAL   EDGF          EDG          0
A7DHOSE                         47AAH   EDGG          EDG          5
A7DCONTROL                              EDH           EDF            AAAAAAAAA
A7DVALVE,PRESSURE               47AAC   EDHA          EDH          5
A7DVALVE,RELIEF                 47AAF   EDHB          EDH          3
A7DREGULATOR                    47AAG   EDHC          EDH          2
A7EINTERNAL LIGHTING                    EE            EX     D       022222220
A7D PRIMARY LIGHTING                    EEA           EE       EEB   111111111
A7D SECONDARY LIGHTING                  EEB           FE     K EEA   AAAAAAAAA
A7EINSTRUMENT LIGHTING                  EEC           EEA            222222222
A7DUTILITY LIGHTING                     EED           EEB            000000000
A7D   UTILITY LIGHT ASSY        44BDC   EEDA          EED          A
A7DCHARTBOARD LIGHTING                  EEF           EEB            000000000
A7D   CHARTBOARD LIGHTS(2)      44BLA   EEEA          EEE          5
A7D   RHEOSTAT                  44BDB   EEEB          EEF          8
A7D FLIGHT INST.LIGHTING                EEF           EEC            AAAAAAAAA
A7D  FLIGHT INST LIGHT SWITCH   44BCA   EEFA          EEF          A
A7D  CONTROL UNIT, LIGHT DIM    44BCK   EEFB          EEF          8
A7D  FUSE PANEL                 44BCF   EEFC          EEF          5
A7D  TRIM PANEL INST.LIGHT      44BCE   EEFD          EEF          0
A7D  INST.LIGHTS  9 EACH        9944A   EEFE          EEF          1
A7D  INST.LIGHTS  9 EACH        9944A   EEFF          EEF          0
A7D  COMPASS LIGHT              44BBD   EEFG          EEF          1
A7D  TRANSFORMER -REPLACED      44BHB   EEFH          EEF          A
A7D  DIM COMP                   44BCL   EEFJ          EEF          8
A7D  DIM CIRCUIT CARD           44BCM   EEFK          EEF          8
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A7D NONELIGHT INST LIGHTING                EEG        EEC          111111111
A7D  NONELIGHT INST LIGHT SW    44BCA      EEGA       EEC        A
A7D  CONTROL UNIT,LIGHT DIM     44BCK      EEGB       EEC        B
A7D  FUSE PANEL                 44BCF      EEGC       EEC        5
A7D  TRIM PANEL,INST.LIGHT      44BCE      EEGD       EEC        0
A7D  INST.LIGHTS  6EA.          9944A      EEGE       EEC        1
A7D  INST.LIGHTS  7 EA.         9944A      EEGF       EEC        0
A7D  TRANSFORMER -REPLACED      44BBA      EEGG       EEC        A
A7D   DIM COMP ASSY             44BCL      EEGH       EEC        B
A7D   DIM CARD                  44BCM      EEGJ       EEC        B
A7DAUX FLOOD LIGHTING                      EEH        EEB          111111111
A7D  CONSOLE LIGHT SWITCH       44BCA      EEHA       EEH        A
A7D  SWITCH,AUX FLOOD DIM       44BCE      EEHB       EEH        A
A7D  DIM PANEL,INT/EXT          44BCC      EEHC       EEH        1
A7D  AUX FLOOD LIGHTS(2)        44BCE      EEHD       EEH        1
A7DCONSOLE LIGHTING                        EEJ        EEA          111111111
A7D  CONSOLE LIGHT SWITCH       44BCA      EEJA       EEJ        A
A7D  CONTROL UNIT, LIGHT DIM    44BCK      EEJB       EEJ        B
A7D  FUSE PANEL                 44BCF      EEJC       EEJ        5
A7D  CONSOLE LIGHTS(42)         9944B      EEJD       EEJ        0
A7D  TRANSFORMER-REPLACED       44BAA      EEJE       EEJ        A
A7D   DIM COMPONENT             44BCL      EEJF       EEJ        B
A7D   DIM CARD                  44BCM      EEJG       EEJ        B
A7D   EDGE LIGHT PANEL          44BCE      EEJH       EEJ        0
A7DFLOOD LIGHTING                          EEK        EEB          111111111
A7D   FLOODLIGHTS(4)            44BDE      EEKA       EEK        2
A7D   FLOODLIGHT SWITCH         44BCA      EEKB       EEK        A
A7D   CONTROL UNIT,LIGHT DIM    44BCK      EEKC       EEK        B
A7D   FUSE PANEL                44BCF      EEKD       EEK        A
A7D   TRANSFORMER-REPLACED      44BDG      EEKE       EEK        A
A7D   DIM COMPONENT             44BCL      EEKF       EEK        B
A7D   DIM CARD                  44BCM      EEKG       EEK        B
A7DSUIT ENVIRONMENT                        EE         EX           001121100
A7D ANTI-G ENVIRONMENT                     EEA        EE           000010000
A7D   SUIT,ANTI-G               96AAF      EEAA       EEA        2
A7D   LINE,ANTI-G               96AAG      EEAB       EEA        8
A7D EXPOSURE SUIT ENVIRONMENT              CEB        EE           000000000
A7D   SUIT,ANTI-EXPOSURE        96AAD      EEBA       EEB        3
A7D   HOSE,VENT AIR             96AAP      EEBE       EEB        4
A7D  ANTI-G AIR                            EE1        EEA          AAAAAAAAA
A7D   VALVE,CHECK               41BBA      EEDA       EED        A
A7D   VALVE,ANTI G              41EBE      EEDB       EED        A
A7D  AIR SUPPLY/DIST                       EEL        EEB          AAAAAAAAA
A7D   VALVE,SUIT FLOW CONT.     41ALA      EEEA       EEE        A
A7D   VALVE,CHECK               41ADF      EEEB       EEE        1
A7D  TEMP CONTROL                          EEF        EEB          AAAAAAAAA
A7D   SELECTOR,SUIT TEMP        41ADF      EEFA       EEF        5
A7D   CONT.BOX,ELECT.SUIT TEMP  41AEC      EEFB       EEF        3
A7D   SENSOR,SUIT TEMP.         41A9D      EEFC       EEF        4
A7D   VALVE,SUIT TEMP.CONT.     41ADE      EEFD       EEF        A
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A7D    TRANSFORMERS(2)              44ALA    EHEB          EHE          5
A7D    SWITCH,WING POS              44ECA    EHEC          EHF          A
A7D FLOOD LIGHTS                             EHG           EHC            555555555
A7DFLASHER                                   EHJ           EHB            000000C00
A7D    FLASHER ASSY                 44AJC    EHJA          EHJ          A
A7D    RELAY                        44AJB    EHJB          EHJ          5
A7D    SWITCH,FLASH/STDY            44ECA    EHJC          EHJ          A
A7D  FUSELAGE FLOOD LIGHTS                   EHK           EHG            555555555
A7D    LIGHT ASSY(2)                44ALC    EHKA          EHK          5
A7D    TRANSFORMERS(2)              44AEA    EHKB          EHK          5
A7D  TAIL FLOOD LIGHTS                       EHL           EHG            555555555
A7D    LIGHT ASSY(2)                44ACC    EHLA          EHL          5
A7D    TRANSFORMERS(2)              44ACA    EHLB          EHL          5
A7D FORMATION LIGHTS                         EHM           EHC            555555555
A7D    WING FORM LIGHT ASSY(2)      44AAC    EHMA          EHM          5
A7D    TRANSFORMERS(2)              44AAA    EHMB          EHM          5
A7DREFUEL PROBE LIGHTS                       EHN           EH             000A0A000
A7D  AIR REFUEL PROBE LIGHT-SLE46EC-  EHNA          EHN          A
A7D  TRNSFORMER                     46DCC    EHNB          EHN          A
A7D  SLIPWAY LIGHTS  2 EACH-NEW-GCC  EHNC          EHN          5
A7DEXTERNAL LIGHTING ATTENUATE               EHX           EY             111111111
A7DINTERNAL ENVIRONMENT                      EX            E              055666660
A7DEXTERNAL ENVIRONMENT                      EY            E              111111121
A7DFLIGHT CONTROL                            F                            AAAAAAAAA
A7DLIFT AUGMENTATION                         FA            F              010000010
A7LTRAILING EDGE FLAP POSITION               FAA           FA             010000050
A7DTRAILING EDGE FLAP POSITION               FAA           FAEA           FAAAAAAAAA
A7DLEFT TRAILING EDGE FLAP           LFAAA   FAA                          AAAAAAAAA
A7DL.RTAILING EDGE FLAP              LFAAA   FCDJ                         000000CA0
A7DL.RTAILING EDGE FLAP              LFAAA   FLEQ                         000000CA0
A7DL.RTAILING EDGE FLAP              LFAAA   FFKE                         000000CA0
A7DRIGHT TRAILING EDGE FLAP          RFAAA   FAA                          AAAAAAAAA
A7D T.E.FLAP CYLINDR ASSY INDB 14GEF LFAAAA          LFAAA          2
A7D T.E.FLAP CYLINDR ASSY INDB 14GEF RFAAAA          RFAAA          2
A7D T.E FLAP CYLINDR ASSY OUTBD14GEG LFAAAB          LFAAA          2
A7D T.E FLAP CYLINDR ASSY OUTBD14GEG RFAAAB          RFAAA          2
A7D FLAP ACTUATOR SWIVEL 4EA   14GEH LFAAAC          LFAAA          5
A7D FLAP ACTUATOR SWIVEL 4EA   14GEH RFAAAC          RFAAA          5
A7D RESTRICTOR VALVE 2 EA      14GEK LFAAAD          LFAAA          0
A7D RESTRICTOR VALVE 2 EA      14GEK RFAAAD          RFAAA          0
A7D WING FUSE FLAP SWIVEL  2EA 14GEJ LFAAAE          LFAAA          2
A7D WING FUSE FLAP SWIVEL  2EA 14GEJ RFAAAE          RFAAA          2
A7L BLEED VALVE 2EA            99144 LFAAAF          LFAAA          2
A7D BLEED VALVE 2EA            99144 RFAAAF          RFAAA          2
A7D T.E.FLAP INBD HINGE FITTING14GCA LFAAAG          LFAAA          8
A7L T.E.FLAP INBD HINGE FITTING14GCA RFAAAG          RFAAA          8
A7D T.E.FLAP OUTBD HING FITTING14GCB LFAAAH          LFAAA          8
A7D T.E.FLAP OUTBD HING FITTING14GCB RFAAAH          RFAAA          8
A7D T.E.FLAP LOWER ING FITTINGG14GCC LFAAAJ          LFAAA          8
A7D T.E.FLAP LOWER ING FITTINGG14GCC RFAAAJ          RFAAA          8
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A7D FLAP SLOT DOORS                14GCD  LFAAAK          LFAAA          0
A7D FLAP SLOT DOORS                14GCD  RFAAAK          RFAAA          0
A7DTRAILING EDGE FLAP SCTUATION           FAAB            FAA             SAAAAAAAAA
A7DTRAILING EDGE FLAP SCTUATION           FAAB            LFAAA           FAAAAAAAAA
A7DTRAILING EDGE FLAP SCTUATION           FAAB            RFAAA           FAAAAAAAAA
A7D HYD VARIBLE CONTROL VALVE      14GEJ  FAABA           FAAB           A
A7D CHECK VALVES 2EA               14GEK  FAABB           FAAB           1
A7D EMERG SELECTOR BYPASS VALVE    14GFB  FAABC           FACB           A
A7DLEADING EDGE FLAP POSITION             FAB             FA              C10000010
A7EINBOARD LEADING EDGE FLAP              FABA            FAB             222222222
A7DLEFT INBD LEADING EDGE FLAP            LFABB           FABA            555555555
A7DL.INBOARD L.E.FLAP                     LFABB           FADB            FAAAAAAAAA
A7DRIGHT INBD LEADING EDGE FLAP           RFABB           FABA            555555555
A7DR.INBOARD L.E.FLAP                     RFABB           FADB            FAAAAAAAAA
A7D WING INBD L.E.FLAP CYLINDER    14GEB  LFABBA          LFABB          2
A7D WING INBD L.E.FLAP CYLINDER    14GFB  RFABBA          RFABB          2
A7D WING OTBD L.E.FLAP CYLINDER    14GEC  LFABBB          LFABB          2
A7D WING OTBD L.E.FLAP CYLINDER    14GEC  RFABBB          RFABB          2
A7D FLAP ACTUATOR SWIVEL 4EA       14GEH  LFABBC          LFABB          2
A7D FLAP ACTUATOR SWIVEL 4EA       14GFH  RFABBC          RFABB          2
A7D RESTRICTOR CHECK VALVE 2EA     14GFK  LFABBD          LFABB          0
A7D RESTRICTOR CHECK VALVE 2EA     14GEK  RFABBD          RFABB          0
A7D CYLINDER ATTACH LINK INBD      14GAA  LFABBE          LFABB          2
A7D CYLINDER ATTACH LINK INBD      14GAA  RFABBE          RFABB          2
A7D CYLINDER ATTACH LINK OUTBD     14GAB  LFABBF          LFABB          2
A7D CYLINDER ATTACH LINK OUTBD     14GAB  RFABBF          RFABB          2
A7D CENTER SECTION SEAL L.E.       14GAC  LFABBG          LFABB          0
A7D CENTER SECTION SEAL L.E.       14GAC  RFABBG          RFABB          0
A7D CENTER SECTION HINGE           14GAD  LFABBH          LFABB          2
A7D CENTER SECTION HINGE           14GAD  RFABBH          RFABB          2
A7DOUTBOARD LEADING EDGE FLAP             FABC            FAB             333333333
A7DLEFT OUTBOARD L.E. FLAP                LFABD           FABC            555555555
A7DL.OUTBOARD L.E.FLAP                    LFABD           FADB            FAAAAAAAAA
A7DRIGHT OUTBOARD L.E. FLAP               RFABD           FABC            555555555
A7DR.OUTBOARD L.E.FLAP                    RFABD           FADB            FAAAAAAAAA
A7D WING INBD PNL FLAP CYLINDER    14GED  LFABDA          LFABD          2
A7D WING INBD PNL FLAP CYLINDER    14GED  RFABDA          RFABD          2
A7D WING OUTB PNL FLAP CYLINDER    14GEE  LFABDB          LFABD          2
A7D WING OUTB PNL FLAP CYLINDER    14GEE  RFABDB          RFABD          2
A7D FLAP ACTUATOR SWIVEL 10EA      14GEH  LFABDC          LFABD          2
A7D FLAP ACTUATOR SWIVEL 10EA      14GFH  RFABDC          RFABD          2
A7D RESTRICTOR VALVE 2EA           14GEK  LFABDD          LFABD          0
A7D RESTRICTOR VALVE 2EA           14GFK  RFABDD          RFABD          0
A7D OUTER PANEL LINK INBD          14GBA  LFABDE          LFABD          2
A7D OUTER PANEL LINK INBD          14GBA  RFABDE          RFABD          2
A7D OUTER PANEL LINK OUTBD         14GBB  LFABDF          LFABD          2
A7D OUTER PANEL LINK OUTBD         14GBB  RFABDF          RFABD          2
A7D OUTER PANEL SEAL LE FLAP TE    14GBC  LFABDG          LFABD          0
A7D OUTER PANEL SEAL LE FLAP TE    14GBC  RFABDG          RFABD          0
A7D OUTER PANEL HINGES             14GBD  LFABDH          LFABD          1
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A7D OUTER PANEL HINGES          14GBD  REABDH          REABD          1
A7DLEADING EDGE FLAP ACTUATION         FABE            FAB             SAAAAAAAAA
A7DLEADING EDGE FLAP ACTUATION         FABE            LEABB           FAAAAAAAAA
A7DLEADING EDGE FLAP ACTUATION         FABE            REABB           FAAAAAAAAA
A7DLEADING EDGE FLAP ACTUATION         FABE            LEABD           FAAAAAAAAA
A7DLEADING EDGE FLAP ACTUATION         FABE            REABD           FAAAAAAAAA
A7D WING FUSELAGE FLAP SWIVEL  14GFJ   FABEA           FABE           2
A7D RESTRICTOR VALVE           14GEK   FABEB           FABE           0
A7D SHUTTLE VALVE              9914B   FABEC           FABE           2
A7D EMERG SELECTOR BYPASS VALVE14GFB   FABED           FACB           5
A7DNORMAL FLAP CONTROL                 FACA            FACC      FACB  111111111
A7DNORMAL FLAP CONTROL                 FACA            UHBJ            AAAAAAAAA
A7D FLAP SELECTOR VALVE        14GEA   FACAA           FACA           A
A7D CHECK VALVE 2EA            14GEK   FACAB           FACA           1
A7D RESTRICTOR VALVE           14GEK   FACAC           FACA           0
A7D FLAP HANDLE ISO SWITCH     14GJA   FACAD           FACA           A
A7D FLAP HANDLE DOWN SWITCH    14GJB   FACAE           FACA           A
A7D TRAILING EDGE BEEP SWITCHES14GJC   FACAF           FACA           5
A7D RELAY PANEL(FLAP)          71AEB   FACAG           FACA           1
A7D TEST PANEL                 42BAB   FACAH           FACA           0
A7D FLAP CONTROL ASSEMBLY      14GDA   FACAJ           FACA           1
A7D CONTROL ROD                14GDD   FACAK           FACA           A
A7D BELLCRANK                  14GLE   FACAL           FACA           A
A7DEMERGENCY FLAP CONTROL              FACB            FACC    K FACA  AAAAAAAAA
A7D EMERGENCY FLAP SELECTOR SW 14GJD   FACBA           FACB           A
A7D EMERGENCY SEL SOL VALVE    14GFA   FACBB           FACB           A
A7D EMERG FLAP ACCUMULATOR PKG 14GFC   FACBC           FACB           1
A7D EMERG PRESS DUMP VALVE     14GFG   FACBD           FACB           5
A7D THERMAL RELIEF VALVE       14GFD   FACBE           FACB           2
A7DFLAP CONTROL                        FACC            FA              S010000050
A7DFLAP CONTROL                        FACC            FAAB            FAAAAAAAAA
A7DFLAP CONTROL                        FACC            FABE            FAAAAAAAAA
A7DEMERGENCY PRESSURE                  FACD            FACB             AAAAAAAAA
A7D PRECHARGE PRES SHUTOF VALVE14GFE   FACDA           FACD           A
A7D ACCUMULATOR                14GFF   FACDB           FACD           A
A7D EMERG FLAP ACCUMILATOR PKG 14GFC   FACDC           FACD           1
A7D CHECK VALVE                14GFK   FACDD           FACD           1
A7D EXTENSION UNIT             14GFH   FACDE           FACD           C
A7D BLANKET                    14GGA   FACDF           FACD           0
A7DT.E.FLAP POSITION INFORMATION       FADA            FAJ              111111111
A7D FLAP POSITION INDICATOR    14GHA   FADAA           FADA           A
A7E POSITION TRANSMITTER       14GHC   FADAB           FADA           A
A7DL.E.FLAP POSITION INFORMATION       FADB            FAJ              111111111
A7D L.E.POSITION SWITCH        14GHB   FADBA           FADB           A
A7D FLAP POSITION INDICATOR    14GHD   FADBB           FADB           A
A7D L.E.UPLOCK SWITCH BLA      14GHE   FADBC           FADB           A
A7DPILOT ACTION                        FAJ             FACB             AAAAAAAAA
A7DSPEED CONTROL                       FB              F                000010000
A7DSPEED BRAKE POSITION                FBA             FB               111111111
A7DSPEED BRAKE POSITION                FBA             FBD             FAAAAAAAAA
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A7D FUSE SPEED BRAKE FLAP ASSY 14EAA    FBAA            FBA          A
A7DSPEED BRAKE ACTUATION               FBB             FBA            AAAAAAAAA
A7D 4 WAY 3 POS SOLENOID VALVE 14EEA    FBBA            FBB          A
A7D ACTUATING CYLINDER         14EBB    FBBB            FBB          A
A7D 3/8 SPEED BRAKE SWIVEL 2EA 14EBC    FBBC            FBB          2
A7D SPEED BRAKE UNLOADING VALVE14EBF    FBBD            FBB          3
A7DSPEED BRAKE ACT. COMMAND            FBC             FBB            000020000
A7D SPEED BRAKE SELECTOR SWITCH14ECA    FBCA            FBC          A
A7D RELAY K6                   99140    FBCB            FBE          A
A7DSPEED BRAKE INFORMATION             FBD             FBF            111111111
A7D SPEED BRAKE POSITION IND   14ECC    FBDA            FBD          2
A7D POSITION TRANSMITTER       14ECE    FBDB            FBD          2
A7D WARNING LIGHT              14ECF    FBDC            FBD          2
A7DBACKUP RETRACT ACTUATION            FBE             FBB    K FBC   AAAAAAAAA
A7DYAW CONTROL                         FC              F              010000030
A7DRUDDER POSITION                     FCA             FC             AAAAAAAAA
A7D RUDDER UPPER HINGE         14CAA    FCAA            FCA          3
A7D RUDDER MIDDLE HINGE        14CAB    FCAB            FCA          3
A7D RUDDER LOWER HINGE         14CAC    FCAC            FCA          3
A7D RUDDER ASSEMBLY            14CAD    FCAD            FCA          5
A7DRUDDER ACTIVATION                   FCB             FCA            AAAAAAAAA
A7DRUDDER ACTIVATION                   FCB             FCDB          FAAAAAAAAA
A7DRUDDER ACTIVATION                   FCB             FCDE          FAAAAAAAAA
A7D RUDDER POWER CONTROL ASSY  14CBC    FCBA            FCB          5
A7D RUDDER BUNK SPRING STRUT   14CBE    FCBB            FCB          A
A7D YAW AFCS CONTROL ASSY      14CBF    FCBC            FCB          1
A7D CONTROL RODS 6EACH         14CBH    FCBD            FCB          A
A7D BELLCRANK 7EACH            14CBJ    FCBE            FCB          A
A7D RUDDER PC CYLINDER ASSY    14CCA    FCBF            FCB          A
A7D RUDDER PC SERVO VALVE ASSY 14CCE    FCBG            FCB          A
A7DRUDDER RESTRICT CONT INSTL  14EEL    FCBZ            FCB          0
A7DMANUAL MOTION TRANSMISSION          FCCA            FCB            999999999
A7D 6 DEGREE STOP LINKAGE ASSY 14EBB    FCCAA           FCCA         7
A7D CONTROL RODS               14CBH    FCCAB           FCCA         A
A7L BELL CRANKS                14CBJ    FCCAC           FCCA         A
A7DPEDAL MOVEMENT                      FCCB            FCCA           AAAAAAAAA
A7D RUDDER JUMPER CABLE ASSY   14CBA    FCCBA           FCCB         2
A7D RUDDER PEDAL ASSY 2EA      14CBF    FCCBB           FCCB         A
A7D RUDDER CABLES 2EA          14CBG    FCCBC           FCCB         A
A7D PULLEYS12 EA               14CBK    FCCBD           FCCB         1
A7D6/20 DEGREE CONTROL                 FCCC            FCCA           0A0C0C0A0
A7D FLAP STOP DORSAL LINK ASSY 14CDA    FCCCA           FCCC         A
A7D 6 DEGREE RUDDER STOP       14CDB    FCCCB           FCCC         A
A7D CLEAN CONDITION GAIN ASSY  14CDC    FCCCC           FCCC         A
A7D PULLY 2EA                  14CBK    FCCCD           FCCC         A
A7DAUTO YAW STABILIZATION              FCDA            FCB            011111110
A7D YAW SERVO VALVE 2 EA       57BCC    FCDAA           FCDA         1
A7D VOLTAGE REGULATOR 2 EA     57CCA    FCDAB           FCDA         1
A7D THREE STAGE AMPLIFIER 2 EA 57CCD    FCDAC           FCDA         1
A7D SIGNAL DEMODULATOR 2 EA    57CCC    FCDAD           FCDA         1
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A7  TRANSFORMERS 2EA          57CAG   FDEUB          FDEU        A
A7  LIMITER AMPL              57CAJ   FDEUC          FDEU        A
A7  5 DEGREE/SEC SYNCHRO      57CAK   FDEUD          FDEU        A
A7  ALTITUDE HOLD SELECT              FDEV           FDEU          AAAAAAAAA
A7  MODE SELECT PANEL         57AAA   FDEVA          FDEV        1
A7  MODE SELECT SWITCH        57AAC   FDEVB          FDEV        A
A7  ELEVON UP SIGNAL CONTROL          FDEY           FDEC          AAAAAAAAA
A7  ELEVON UP SIGNAL CONTROL          FDEY           FDHB          AAAAAAAAA
A7  TRANSDUCER 2EA            57AAD   FDEYA          FDEY        2
A7  ATTITUDE HOLD SIGNAL              FDEZ           FDER          000000000
A7  SHAFT                     14EAB   LFDF           FD          A
A7  SHAFT                     14EAB   RFDF           FD          A
A7  MANUAL PITCH COMMAND              FDFA           FDD           888888888
A7  CONTROL RODS              14AAB   FDFAB          FDFA        A
A7  BELLCRANK                 14AAC   FDFAC          FDFA        A
A7  SWIVEL                    14AAD   FDFAD          FDFA        A
A7  CONTROL RODS AND LINKS 2EA 14EET  FDFAE          FDFA        A
A7  BELLCRANKS AND IDLERS     14EBU   FDFAF          FDFA        A
A7  STICK ASSY                14AAC   FDFAG          FDFA        5
A7  PITCH MANUAL INITIATE             FDFB           FDFA          AAAAAAAAA
A7  STICK GRIP                14AAA   FDFBA          FDFB        1
A7  PITCH FEEL SENSING                FDFC           FDFA          222222222
A7  LONGITUDINAL FEEL STRUT ASY14EBE  FDFCA          FDFC        2
A7  STAB FEEL TRIM LINK ASSY  14EBF   FDFCB          FDFC        6
A7  HORIZ STAB FEEL TRIM LINK 14EBF   FDFCB          FDGA        A
A7  FWD BOBWEIGHT BALANCE SPRNG14EBK  FDFCC          FDFC        2
A7  HORIZ STABILIZER BOBWEIGHT 14EBA  FDFCD          FDFC        5
A7  AFT BOBWEIGHT BALANCE SPRNG14EBJ  FDFCE          FDFC        2
A7  LONGITUDE CONT BOBWEIGHT  14EBC   FDFCF          FDFC        5
A7  PITCH DAMPER                      FDFD           FDFA          111111111
A7  FWD VISCOUS DAMPER        14EBB   FDFDA          FDFD        2
A7  AFT VISCOUS DAMPER        14EBD   FDFDB          FDFD        2
A7  TIP                       14EAC   LFDG           FD          0
A7  TIP                       14EAC   RFDG           FD          0
A7  PITCH TRIM ACTUATION              FDGA           FDGD          FAAAAAAAAA
A7  PITCH TRIM ACTUATION              FDGA           FDGE            J00101010
A7  PITCH TRIM ACTUATOR       14EDA   FDGAB          FDGA        A
A7  PITCH TRIM SIGNAL CONDITIONER     FDGB           FDGA          AAAAAAAAA
A7  MODULE A1                 14BLA   FDGBA          FDGB        5
A7  MODULE A2                 14PEB   FDGBB          FDGB        5
A7  HOUSING ASSY              14BEC   FDGBC          FDGB        1
A7  COMPONENT ASSY A3         14BED   FDGBD          FDGB        5
A7  COMPONENT ASSY A4         14BLE   FDGBE          FDGB        5
A7  PITCH TRIM AMPLIFIER      14BEC   FDGBF          FDGB        A
A7  PITCH TRIM CONTROL                FDGC           FDGB          AAAAAAAAA
A7  STICK GRIP                14AAA   FDGCA          FDGC        A
A7  TRIM DISCONNECT SWITCH    14EEC   FDGCB          FDGC        A
A7  PITCH TRIM INFORMATION            FDGD           FDJ           111111111
A7  TRIM INDICATOR            14EFA   FDGDA          FDGD        A
A7  SYNCHRO,TRIM              14EDB   FDGDB          FDGD        A
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A7DPITCH TRIM ATTEN                    FDGE          FDEA              111111111
A7D LEADING EDGE          14EAD  LFDH   FD                  1
A7D LEADING EDGE          14EAD  RFDH   FD                  1
A7DAUTO PITCH INFORMATION              FDHA          DZEX   1 FDEB     AAAAAAAAA
A7D MULTIPURPOS INDICATOR 57AAB  FDHAA   FDHA                1
A7D AUTO PITCH INDICATOR  5957A  FDHAAA  FDHA                1
A7D SIGNAL MODULATOR MODULE 57CAE FDHAB  FDHA                1
A7D PITCH ADVISORY LIGHT  44ECD  FDHAC   FDHA                1
A7DTRIM/INFO CONDITIONER               FDHB          FDGB              111111111
A7DTRIM/INFO CONDITIONER               FDHB          FDHA              AAAAAAAAA
A7D THREE STAGE AMPLIFIER 57CAD  FDHBA   FDHB                A
A7DPILOT ACTION                        FDJ           FDGC              AAAAAAAAA
A7D TRAILING EDGE         14EAC  LFDJ   FD                  1
A7D TRAILING EDGE         14EAE  RFDJ   FD                  1
A7D HOUSING ASSEMBLY      14EAG  LFDK   FD                  0
A7D HOUSING ASSEMBLY      14EAG  RFDK   FD                  0
A7DTORQUE CONTROL                      FDQ           FDA         FDS     111111111
A7DTORQUE CONTROL                      FDQ           LFDB                AAAAAAAAA
A7DTORQUE CONTROL                      FDQ           RFDB                AAAAAAAAA
A7D ACTUATOR HORN         14EAF  LFDQA  FDQ                 A
A7D ACTUATOR HORN         14EAE  RFDQA  FDQ                 A
A7D DHT INTERCONNECT LINK 14EEM  FDQB   FDQ                 A
A7D DHT TORQUE TUBE       14EBA  FDQC   FDQ                 A
A7DACTUATION SYNCHRONIZATION           FDS           FDA         FDQ     111111111
A7D LOAD LIMITING LINK    14EEP  LFDSA  FDS                 A
A7D LOAD LIMITING LINK    14EEP  RFDSA  FDS                 A
A7D SERVO CONT INTERCONN LINK 14EER FDSB  FDS                 A
A7D SERVO CONTROL INTERCONNECT 14EES FDSC  FDS                A
A7D BELLCRANK             14EBU  LFDSC  FDS                 A
A7D BELLCRANK             14EBU  RFDSC  FDS                 A
A7DROLL CONTROL                        FF            F                 0AAAAAAA0
A7DLEFT ROLL                           LFF           FF                0855555A0
A7DRIGHT ROLL                          RFF           FF                0855555A0
A7DAILERON POSITION                    FEA           LFF              F041121140
A7DAILERON POSITION                    FEA           RFE              F041121140
A7DAILERON POSITION                    FEA           FEAZ             S041121140
A7DLEFT AILERON POSITION               LFEA          FEA               222222222
A7DRIGHT AIRERON POSITION              RFEA          FEA               222222222
A7D AILERON HINGE INBD FITTING 14BBA  LFEAA  LFEA                2
A7D AILERON HINGE INBD FITTING 14BBA  RFEAA  LFEA                2
A7D AILERON HINGE CTR FITTING  14BBB  LFEAB  LFEA                1
A7D AILERON HINGE CTR FITTING  14EEB  RFEAB  RFEA                1
A7D AILERON HINGE OUTBD FITTING 14BBC LFEAC  LFEA                2
A7D AILERON HINGE OUTBD FITTING 14BBC RFEAC  RFEA                2
A7D AILERON SEAL          14BBD  LFEAD  LFEA                0
A7D AILERON SEAL          14BBL  RFEAD  RFEA                0
A7D AILERON ASSEMBLY      14BBO  LFEAE  LFEA                A
A7D AILERON ASSEMBLY      14BBO  RFEAE  RFEA                A
A7DAILERON ATTEN                       FEAZ          FE               S0855555A0
A7DLEFT AILERON ACTUATION              LFEB          LFEA              AAAAAAAAA
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A7DRIGHT AILERON ACTUATION              RFEB          RFLA          AAAAAAAAA
A7D AILERON LOAD LIMITING LINK 14BAC   LFEBA         LFEB          A
A7D AILERON LOAD LIMITING LINK 14BAC   RFEBA         RFEB          A
A7D CONTROL RODS TEA           14BAF   LFEBB         LFEB          A
A7DCONTROL RODS  7 EA          14BAF   RFEBB         RFEB          A
A7D BELLCRANKS/IDLERS 9EA      14BAG   LFEBC         LFEB          A
A7D BELLCRANKS/IDLERS 9EA      14BAG   RFEBC         RFEB          A
A7D AILERON CYLINDER ASSY      14BCJ   LFEBD         LFEB          A
A7D AILERON CYLINDER ASSY      14BCJ   RFEBD         RFEB          A
A7D AILERON SERVO VALVE ASSY   14BCE   LFEBF         LFEB          A
A7D AILERON SERVO VALVE ASSY   14BCF   RFEBF         RFEB          A
A7D WING FOLD SWIVEL JOINT     14BCK   LFEBF         LFEB          A
A7D WING FOLD SWIVEL JOINT     14BCK   RFEBF         RFEB          A
A7D AILERON ACTUATOR           14BCF   LFEBG         LFEB          A
A7D AILERON ACTUATOR           14BCF   RFEBG         RFEB          A
A7D EXTENSION UNIT,AIL ACT     14BCL   LFEBJ         LFEB          A
A7D EXTENSION UNIT,AIL ACT     14BCL   RFEBJ         RFEB          A
A7D SWIVEL                     14BCM   LFEBK         LFEB          A
A7D SWIVEL                     14BCM   RFEBK         RFEB          A
A7DLEFT DEFLECTOR POSITION             LFEC          LFZ             222222222
A7DRIGHT DEFLECTOR POSITION            RFEC          RFZ             222222222
A7D DEFLECTOR ASSY             14CAB   LFECA         LFEC          A
A7D DEFLECTOR ASSY             14CAB   RFECA         RFEC          A
A7D LINKAGE                    14CAC   LFECB         LFEC          A
A7D LINKAGE                    14CAC   RFECB         RFEC          A
A7DLEFT SPOILER POSITION               LFED          LFEC           FAAAAAAAAA
A7DLEFT SPOILER POSITION               LFED          LFZ              AAAAAAAAA
A7DRIGHT SPOILER POSITION              RFED          RFEC           FAAAAAAAAA
A7DRIGHT SPOILER POSITION              RFED          RFZ              AAAAAAAAA
A7D SPOILER ASSY               14CAA   LFEDA         LFED          A
A7DSPOILER ASSY                14CAA   RFEDA         RFED          A
A7DLEFT SPOILER ACTUATION              LFEE          LFED            AAAAAAAAA
A7DRIGHT SPOILER ACTUATION             RFEE          RFED            AAAAAAAAA
A7D CONTROL RODS               14BAF   LFEEA         LFEE          A
A7D CONTROL RODS               14BAF   RFEEA         RFEE          A
A7D BELLCRANK/IDLERS           14BAG   LFEEB         LFEE          A
A7D BELLCRANK/IDLERS           14BAG   RFEEB         RFEE          A
A7D LOAD-LIMITING LINK         14BAH   LFEEC         LFEE          A
A7D LOAD-LIMITING LINK         14BAH   RFEEC         RFEE          A
A7D SPOIL/DEFL ACTUATOR CYL    14BCP   LFEED         LFEE          A
A7D SPOIL/DEFL ACTUATOR CYL    14BCP   RFEED         RFEE          A
A7D SERVO VALVE ASSY           14BCQ   LFEEE         LFEE          A
A7D SERVO VALVE ASSY           14BCQ   RFEEE         RFEE          A
A7D SPOIL/DEFL  CYL  ASSY      14BCN   LFEEF         LFEE          5
A7D SPOIL/DEFL  CYL  ASSY      14BCN   RFEEF         RFEE          5
A7DEXTENSION UNIT              14BCR   LFEEG         LFEE          2
A7D EXTENSION UNIT             14BCR   RFEEG         RFEE          2
A7DROLL MOTION TRANSMISSION            FEF            FCDH           FAAAAAAAAA
A7DROLL MOTION TRANSMISSION            FEF            FE             SAAAAAAAAA
A7DROLL MOTION TRANSMISSION            FEF           LFEB            FAAAAAAAAA
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A7DROLL MOTION TRANSMISSION                FEF                 RFLR              FAAAAAAAAA
A7DROLL MOTION TRANSMISSION                FEF                 LFLE              FAAAAAAAAA
A7DROLL MOTION TRANSMISSION                FEF                 RFLE              FAAAAAAAAA
A7DROLL MOTION TRANSMISSION                FEF                  FEJC             FAAAAAAAAA
A7DROLL MOTION TRANSMISSION                FEF                  FEJH             FAAAAAAAAA
A7D ROLL AFCS CONTROL ASSY      14BAD      FEFA                 FEF                A
A7D SPOIL/AIL TRIM MIXING LINK  14BAJ      FEFB                 FEF                A
A7D CONTROL ROD                 14BAF      FEFC                 FEF                A
A7D BELLCRANK/IDLER             14BAG      FEFD                 FEF                A
A7D QUICK DISCONNECT            14BCJ      FEFF                 FEF                5
A7DMANUAL COMMAND                          FEG                  FEF          FEKA  88888888
A7D ROLL FEEL ISOLATN ACT.ASSY  14BCA      FEGA                 FEG                A
A7D ROLL FEEL ISOLATN ACTUATOR  14BCB      FEGB                 FEG                A
A7D ROLL FEEL ISO SERVO VALVE   14BCC      FEGC                 FEG                A
A7DROLL TRIM                               FEH                  FEG                 CCCCCCCC
A7DROLL TRIM                               FEH                  FEH                FAAAAAAAAA
A7D ELECT MECH TRIM ACTUATOR    14BDA      FEHA                 FEH                A
A7DPILOT ACTION                            FEJ                  FER                 AAAAAAAAA
A7DAUTOMATIC ROLL STABILIZATION            FEJA                 FEJZ                011111110
A7DAFCS ROLL RATE                          FEJB                 CBAFY               111111111
A7DROLL RATE COMMAND SIGNAL                FEJB                 FEJA                AAAAAAAAA
A7D RATE GYRO                   57LAG      FEJBA                FEJB               A
A7D RELAY AMPLIFIER             57CBB      FEJBB                FEJB               A
A7D ROLL GYRO 2 EA              57BAJ      FEJBC                FEJB               1
A7DAFCS HYD PRESS CONTROL                  FEJC                 FEJG                FAAAAAAAAA
A7DAFCS HYD PRESS CONTROL                  FEJC                 FEJK                AAAAAAAAA
A7D ROLL SERVO SHUT OFF VALVE   57EBA      FEJCA                FEJC               A
A7D ROLL FOLLOW UP TRANSDUCER   57EBD      FEJCB                FEJC               2
A7D RELAY AMPLIFIER             57CBE      FEJCC                FEJC               A
A7D VOLTAGE CALIBRATOR          57CFW      FEJCD                FEJC               A
A7DSTICK FORCE COMMAND SIGNAL              FEJD                 FEJA                111111111
A7DSTICK FORCE COMMAND SIGNAL              FEJD                 FEKA                AAAAAAAAA
A7D STICK ROLL FORCE TRANSDUCER 57AAE      FEJDA                FEJD               2
A7D STICK FORCE XDUCER ADAPTER  57AAH      FEJDB                FEJD               1
A7D THREE STAGE AMPLIFIER       57CBD      FEJDC                FEJD               5
A7D DUAL ELECTRONIC SWITCH 3EA  57CBE      FEJDD                FEJD               1
A7D RELAY AMP2 GREATER 1.5 LBS  57CBB      FEJDE                FEJD               5
A7DCONTROL AUG SELECT                      FEJE                 FDED          FEJF  111111111
A7DCONTROL AUG SELECT                      FEJE                 FDEF          FEJF  111111111
A7DCONTROL AUG SELECT                      FEJE                 FDEV          FEJF  111111111
A7DCONTROLLED AUG SELECT                   FEJE                 FEJA          FEJF  111111111
A7DCONTROLLED AUG SELECT                   FEJE                 FEKC          FEJF  111111111
A7D MODE SELECT PANEL           57AAA      FEJEA                FEJE               1
A7D MODE SELECT SWITCH          57AAC      FEJEB                FEJE               A
A7DATTITUDE HOLD SELECT                    FEJF                 FDED          FEJE  111111111
A7DATTITUDE HOLD SELECT                    FEJF                 FDEF          FEJE  111111111
A7DATTITUDE HOLD SELECT                    FEJF                 FDEV          FEJE  111111111
A7DATTITUDE HOLD SELECT                    FEJF                 FDEZ                AAAAAAAAA
A7DATTITUDE HOLD SELECT                    FEJF                 FEJA          FEJE  111111111
A7DATTITUDE HOLD SELECT                    FEJF                 FEKC          FEJE  111111111
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000000000111111111122222222223333333344444444445555555556666666667777777778
123456789012345678901234567890123456789012345678901234567890123456789012345678
A7DATTITUDE HOLD SELECT                    FEJF        FEKG              AAAAAAAAA
A7D MODE SELECT PANEL          577FA       FEJFA       FEJF         1
A7D MODE SELECT SWITCH         57AAC       FEJFB       FEJF         A
A7DROLL AFCS INFORMATION                   FEJG        DZFX    I FEKA   111111111
A7D SIGNAL MODULATOR           57CCF       FEJGA       FEJG         A
A7D AUTO ROLL INDICATOR        00570       FEJGAA      FEJG         1
A7D MULTIPURPOSE INDICATOR     57AAP       FEJGB       FEJG         1
A7D ROLL ADVISORY LIGHT        44FCD       FEJGC       FEJG         1
A7DFOLLOW UP SIGNAL                        FEJH        FEJG          FAAAAAAAAA
A7DFOLLOW UP SIGNAL                        FEJH        FEJK            AAAAAAAAA
A7D ROLL FOLLOW UP TRANSDUCER  57FFD       FEJHA       FEJH         2
A7DAUTO SIGNAL CONDITIONER                 FEJK        FEJA            AAAAAAAAA
A7DAUTO SIGNAL CONDITIONER                 FEJK        FEKA            AAAAAAAAA
A7D ACTUATOR DRIVER DEMODULATOR 57CFC      FEJKA       FEJK         1
A7D THREE STAGE AMPLIFIER 4EA  57CFD       FEJKB       FEJK         1
A7D DUAL ELECTRONIC SWITCH 4EA 57CFE       FEJKC       FEJK         1
A7D CALIBRATOR NO1 ROLL        57CFL       FEJKF       FEJK         1
A7D CALIBRATOR NO2 ROLL        57CFM       FEJKG       FEJK         1
A7D CALIBRATOR NO3 ROLL        57CFN       FEJKH       FEJK         1
A7D CALIBRATOR NO4 ROLL        57CFP       FEJKJ       FEJK         1
A7D CALIBRATOR NO5 ROLL        57CFQ       FEJKK       FEJK         1
A7D CALIBRATOR NO6 ROLL        57CFT       FEJKL       FEJK         1
A7D CALIBRATOR NO7 ROLL        57CFU       FEJKM       FEJK         1
A7D CALIBRATOR NO8 ROLL        57CFV       FEJKN       FEJK         1
A7D ROLL CONTROL AMPL CHASSIS  57CFR       FEJKP       FEJK         0
A7D HYDRAULIC ROLL ACTUATOR    57CFF       FEJKQ       FEJK         1
A7D ROLL SERVO VALVE           57CFC       FEJKR       FEJK         1
A7D VOLTAGE REGULATOR          57CFA       FEJKS       FEJK         5
A7DSTABILIZATION ATTENUATION               FEJZ        FEF             011111110
A7DAUTOMATIC FLIGHT COMMANDS               FEKA        FDER            F222222222
A7DAUTOMATIC FLIGHT COMMANDS               FEKA        FEF    K FEG    AAAAAAAAA
A7DAUTO FLIGHT SIGNAL SUMMER               FEKB        FEKA            000000000
A7D THREE STAGE AMPLIFIER      57CBD       FEKBA       FEKB         A
A7D TRANSFORMER                57CHG       FEKBB       FEKB         A
A7D MODULE,DUAL SWITCH         57CBX       FEKBC       FEKB         A
A7D 250 DEGREE PER SEC SYNCHRO 57CBK       FEKBD       FEKB         A
A7DHEADING SIGNAL CONDITIONER              FEKC        FEKB            000101000
A7D 5 DEGREE/SEC SYNCHRONIZER  57CHS       FEKCA       FEKC         A
A7D SLOW IN GATE LIMITER 2EA   57CBJ       FEKCB       FEKC         A
A7D THREE STAGE AMPLIFIER      57CBD       FEKCC       FEKC         A
A7D DUAL ELECTRONIC SWITCH     57CBE       FEKCD       FEKC         A
A7D ONE STAGE FINAL AMPLIFIER  57CBH       FEKCE       FEKC         A
A7DHEADING SELECT SIGNAL CONT              FEKD        FEKC     CHKX   111111111
A7D RELAY AMPLIFIER            57CHB       FEKDA       FEKD         A
A7DFLAP GAIN                               FEKF        FEKC            000000030
A7DMODE SELECT                             FEKF        FEKC            AAAAAAAAA
A7D MODE SELECT PANEL          57AAA       FEKFA       FEKF         1
A7D MODE SELECT SWITCH         57AAC       FEKFB       FEKF         A
A7DATTITUDE HOLD SIGNAL                    FEKG        FEKB            000101000
A7DMANUAL INITIATE TRANSMISSION            FEL         FEG             AAAAAAAAA
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A7D FWD LOAD LIMITING LINK          14BAB   FELA            FEL          A
A7D CONTROL RODS                    14BAF   FELB            FEL          A
A7D BELLCRANK/IDLER                 14BAG   FELC            FEL          A
A7D AIL CONNECT LINK SWIVEL ASY     14BAN   FELD            FEL          A
A7D CONTROL ROD                     14AAB   FELE            FEL          A
A7D BELL CRANK                      14AAC   FELF            FEL          A
A7D SWIVEL                          14AAD   FELG            FEL          A
A7LDAMPER AND FEEL                          FEM             FEG            111111111
A7D AILERON FEEL TENSION SPRING     14BAA   FEMA            FEM          1
A7D FORWEIGHT ASSY                  14BAL   FEMB            FEM          1
A7D VISCOUS DAMPER                  14BAM   FEMC            FEM          0
A7D EXTENSION UNIT                  14BCG   FEMD            FEM          1
A7DMANUAL INITIATE                          FEN             FEL            AAAAAAAAA
A7D STICK GRIP                      14AAA   FENA            FEN          1
A7D STICK ASSY                      14AAC   FENB            FEN          5
A7DTRIM SIGNAL CONDITIONER                  FEP             FEH            AAAAAAAAA
A7D MODULE A1                       14BEA   FEPA            FEP          5
A7D MODULE A2                       14BEB   FEPB            FEP          5
A7D HOUSING ASSY                    14BEC   FEPC            FEP          1
A7D COMPONENT ASSY A3               14BED   FEPD            FEP          5
A7D COMPONENT ASSY A4               14BEE   FEPE            FEP          5
A7D ROLL TRIM AMP                   14BEG   FEPF            FEP          A
A7DTRIM INFORMATION                         FEQ             FEJ            111111111
A7D TRIM INDICATOR                  14BEA   FEQA            FEQ          A
A7D TRIM ACTUATOR SYNCHRONIZER      14BDB   FEQB            FEQ          A
A7DTRIM CONTROL                             FER             FEP            AAAAAAAAA
A7D STICK GRIP                      14AAA   FERA            FER          A
A7D TRIM DISENGAGE SWITCH           14BDC   FERB            FER          A
A7DHYDRAULIC ATTENUATION                    FEZ             FE             111111111
A7DSPOILER/DEFLECTOR POSITION               LFZ             LFF     K FEA    AAAAAAAAA
A7DSPOILER/DEFLECTOR POSITION               RFZ             RFL     K FEA    AAAAAAAAA
A7D GROND CONTROL                           G                                A5000001
A7D GROUND SPEED CONTROLLED                 GA              G                A3000004A
A7D EMERGENCY SPEED CONTROL                 GAA             GA      C        0000000C10
A7D EMERGENCY SPEED CONTROL                 GAA             GA      S        0000000C10
A7D HOOK DEPLOY CONTROL                     GAAA            DZFX           FAAAAAAAAA
A7DARRESTING HOOK DEPLOYED                  GAAA            GAA              AAAAAAAAA
A7D HOOK DEPLOYMENT CONTROLLED              GAAB            GAAA             AAAAAAAAA
A7D   HOOK CONTROL SWITCH          13HDA   GAABY           GAAB         A
A7D   HOOK HANDLE                  13HCA   GAABZ           GAAB         A
A7D HOOK MECHANICALLY ENABLED               GAAC            GAAA             AAAAAAAAA
A7D   HOOK UP-LOCK & BUMPER        13HCB   GAACU           GAAC         3
A7D   HOOK DRAG LINK               13HAD   GAACV           GAAC         1
A7D   CENTERING SPRING             13HAC   GAACW           GAAC         2
A7D   HOOK SHANK                   13HAB   GAACX           GAAC         8
A7D   HOOK POINT                   13HAA   GAACY           GAAC         8
A7D   HOOK MECH ACTUATOR           13HBB   GAACZ           GAAC         5
A7D ARREST HOOK MOTIVE FORCE                GAAD            GAAA             AAAAAAAAA
A7D AUX HOOK MOTIVE FORCE                   GAAE            GAAD    K GAAF   AAAAAAAAA
A7D   PRESSURE BYPASS VALVE       13HBD   GAAEZ           GAAE         8
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1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D NORMAL HOOK MOTIVE FORCE                GAAF          GAAD      GAAE  111111111
A7D   HOOK SOLENOID SELECT VALV13HBA        GAAFZ         GAAE          8
A7D ANTI SKID ATTENUATE                     GAB           GAC            S111111111
A7D CONTROLLED BRAKING EMPLOYED             GAC           GA             110000051
A7D   BRAKE SHUTTLE VALVE 2EA  13EPN       GACU          GBA           6
A7D   BRAKE SHUTTLE VALVE 2EA  13EBN       GACV          GAC           8
A7D   BRAKE SWIVELS 4EA.       13EBG       GACW          GBA           3
A7D   BRAKE SWIVELS 4EA.       13EBG       GACX          GAC           3
A7D   AC BRAKE ASSY 2EA        13EAA       GACY          GBA           A
A7D   AC BRAKE ASSY 2EA        13EAA       GACZ          GAC           9
A7D EMERGENCY BRAKES EMPLOYED               GAD           GAC     K GAG    AAAAAAAAA
A7D EMER BRAKE PRESSURE SUPPL'D             GADA          GAD              AAAAAAAAA
A7D   ACCUMULATOR PACKAGE      13ECA       GADAV         GADA          2
A7D   E.BRAKE ACCUMULATOR      13ECC       GADAW         GADA          A
A7D   THERMAL RELIEF VALVE     13ECE       GADAX         GADA          2
A7D   PRESSURE DUMP VALVE      13ECD       GADAY         GADA          0
A7D   PRE-CHARGE SHUTOFF VALVE 13ECB       GADAZ         GADA          0
A7D EMERGENCY BRAKE ACTUATION               GADB          GAD              AAAAAAAAA
A7D   EMER. BRAKE HANDLE       99130       GADBY         GADB          A
A7D   E. BRAKE POWER VALVE     13ECF       GADBZ         GADB          A
A7D UTILITY BRAKE FORCE SUPPL'D             GAF           GAGA             AAAAAAAAA
A7D ACCUMULATED PRESS. SUPPLIED             GAFA          GAF     K GAFB   AAAAAAAAA
A7D   ACCUM. SHUTOFF VALVE     13EBH       GAFAY         GAFA          5
A7D   ACCUMULATOR UTILITY BRAKE13EBJ       GAFAZ         GAFA          A
A7D NORMAL HYDRAULIC PRESS SUPP             GAFB          GAF     GAFA  111111111
A7D   HYD.PRESS REGULATOR      13EBK       GAFBZ         GAFB          3
A7D UTILITY BRAKES EMPLOYED                 GAG           GAC     GAD   111111111
A7D UTILITY BRAKES EMPLOYED                 GAG           GBA           AAAAAAAAA
A7D UTILITY BRAKES ACTUATED                 GAGA          GAG           AAAAAAAAA
A7D   R RUDDER PED. BRAKE LINKG9913E       GAGAW         GAGA          5
A7D   L RUDDER PED. BRAKE LINKG9913D       GAGAX         GAGA          5
A7D   RT POWER BRAKE VALVE     13EBA       GAGAY         GAGA          8
A7D   LEFT POWER BRAKE VALVE   13EBA       GAGAZ         GAGA          8
A7D BRAKE FORCE DISTRIBUTED                 GAGB          GAG              AAAAAAAAA
A7D  BRAKE SERVO VALVE         13EBC       GAGZ          GAG           8
A7D BRAKES PROPORTION'LY APPL'D             GAH           GAGB    K GAHC   500000015
A7D UTILITY BRAKES APPLIED                  GAHA          GAGA             AAAAAAAAA
A7D UTILITY BRAKES APPLIED                  GAHA          GAH             FAAAAAAAAA
A7D KINESTHETIC FEED BACK                   GAHB          GBF              111111111
A7D   INERTIA' REEL CABLE      12BDE       GAHBW         GAHB          1
A7D   SHOULDER HARNESS STRAPS  12BDC       GAHBX         GAHB          1
A7D  INERTIA REEL              12BDB       GAHBY         GAHB          1
A7D   CONT ASSY INERTIA REEL   12BLA       GAHBZ         GAHB          1
A7D AUTO ANTI-SKID ENGAGED                  GAHC          GAB             S100000021
A7D AUTO ANTI-SKID ENGAGED                  GAHC          GAGB    GAH     F100000021
A7D   SKID SOLENOID SHUTOFF VAL13EBH       GAHCY         GAHC          8
A7D   ANTI-SKID CONTROL VALVE  13EBB       GAHCZ         GAHC          A
A7D  DIFFERENTIAL BRAKE VALVE  13EBL       GAHZ          GAH           3
A7D   DIFFERENTIAL BRAKE VALVE 13EBL       GAHZ          GBA           3
A7D SKID CONTROL SELECTED                   GAK           GAFA            FAAAAAAAAA
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0000000001111111111222222222233333333334444444444555555555566666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789O
A7D SKID CONTROL SELECTED                    GAK          GAH              FAAAAAAAAA
A7D SKID CONTROL SELECTED                    GAK          GAHC               AAAAAAAAA
A7D ANTI SKID STATUS                         GAKA         GAK                111111111
A7D  ANTI SKID WARN LIGHT          12DBO     GAKAA        GAKA          5
A7D   ANTI-SKID TEST CARD          13EFW     GAKW         GAK           O
A7D   ANTI-SKID CONT MOD A-2       13EFM     GAKX         GAK           A
A7D   ANTI-SKID CONT MOD A-1       13EFA     GAKY         GAK           1
A7D  ANTI-SKID SWITCH              13ELE     GAKZ         GAK           1
A7D BRAKE ACCUM PRE-CHARGE                   GAL          GADA               AAAAAAAAA
A7D BRAKE ACCUM PRE-CHARGE                   GAL          GAFA               AAAAAAAAA
A7D WHEEL DEACCELERATION SENSED              GALA         GAHC               AAAAAAAAA
A7D   ACCUM PRE-CHARGE PACKAGE    45DAA     GALX         GAL           1
A7D   GAGE                        45DAB     GALY         DG            O
A7D   EXCITER RING   (2EA)        13FEB     GALYA        GALA          A
A7D   SYSTEM  CHARGE VALVE        45DAD     GALZ         GAL           A
A7D   WHEEL SPEED SENSOR 2EA       13FEA     GALZA        GALA          A
A7D RUDDER PEDAL PRESSURE APPLY              GAM          GAHA               AAAAAAAAA
A7D RUDDER PEDAL PRESSURE APPLY              GAM          GBDA               AAAAAAAAA
A7D   RIGHT RUDDER PEDAL ASSY      14DBF     GAMY         GAM           2
A7D   LEFT RUDDER PEDAL ASSY       14DBE     GAMZ         GAM           2
A7D THRUST DECREASE                          GAX          GA                 5000000A5
A7D DIRECTIONAL CONT'L MAINT'D               GB           G                  110000011
A7D DIFFERENTIAL BRAKING APP'ED              GBA          GB       K GBB     A0000000A
A7D DIFFERENTIAL BRAKING APP'ED              GBA          GBE              F222222222
A7D NOSE WHEEL SHIMMY DAMPED                 GBAB         GBA                0A000000A0
A7D NOSE WHEEL SHIMMY DAMPED                 GBAB         GBB              F100000001
A7D   NLG DAMPER ORIFICE          9913H     GBABZ        GBAB          A
A7D NOSE WHEEL POSITION CONTROL              GBB          GD         GBA     110000011
A7D NOSE WHEEL STEERING EMP'YED              GBBA         GBB                A5000005A
A7D   BELL CRANK PIN              13FCD     GBBAX        GBBA          A
A7D   STEERING BELL CRANK        13FCP     GBBAY        GBBA          8
A7D   SERVO CONTROL VALVE        13FAD     GBBAZ        GBBA          8
A7D   STEERING CYLINDER NLG      13FAB     GBBV         GBB           1
A7D   NLG UNIVERSAL JOINT        13FCC     GBBW         GBB           3
A7D   NLG STEERING LINK          13FCA     GBBX         GBB           5
A7D   EXT.UNIT NG STEERING       13FAF     GBBY         GBB           5
A7D   N.G. STEERING SWIVEL 2EA   13FAE     GBBZ         GBB           5
A7D NOSE WHEEL STEERING ENABLED              GBC          GBBA               AAAAAAAAA
A7D  COMPRESSION SWITCH          13ABB     GBCS         GBC           A
A7D   AIR REFUEL HANDLE          46GDA     GBCT         GBC           A
A7D   NLG DAMPER SHUTOFF VALVE   9913J     GBCU         GBC           A
A7D   STEERIN WOG SWITCH         13FBC     GBCV         GBC           5
A7D   STEERING CUTOUT SWITCH     13FBD     GBCW         GBC           5
A7D   NG STEERING SLEECT VALVE   13FAA     GBCX         GBC           A
A7D   STEERING HOLD RELAY        9913G     GBCY         GBC           A
A7D   STEERING ENGAGE SWITCH     14AAA     GBCZ         GBC           A
A7D NOSE WHEEL STEER ACTUATED                GBD          GBBA               AAAAAAAAA
A7D NOSE WHEEL STEER ACTUATED                GBD          GBE              FAAAAAAAAA
A7D STEERING COMMANDS APPLIED                GBDA         GBD                AAAAAAAAA
A7D   FEED BACK TRANSDUCER       13FAC     GBDX         GBD           8
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123456789012345678901234567890123456789012345678901234567890123456789012345678901
A7D    NGS AMPLIFIER                13FFB   GBDY            GBD             7
A7D    INPUT TRANSDUCER             13FEA   GBDZ            GBD             8
A7D DIRECTION EFFECT PERCEIVER              GBE             GBE              FAAAAAAAAA
A7D PILOT ACTION                            GBF             GAH               AAAAAAAAA
A7DPILOT ACTION                             GBF             GAM               AAAAAAAAA
A7D PILOT ACTION                            GBF             GBA               AAAAAAAAA
A7D    NOSE WHEEL TIRE (2EA)        13AFB   GBY             GF              5
A7D    NOSE WHEEL (2EA)             13AFA   GBZ             GF              3
A7D WING FOLD                               GC              DZEBY            FAAAAAAAAA
A7D WING FOLD                               GC              G                 000000000
A7D  CONTROL ASSY  LOCK  COVER      49FAA   GCA             GC              A
A7D  HINGE PIN                      49BAB   GCB             GC              A
A7D  BELL CRANKS                    49BAC   GCC             GC              5
A7D  PUSH PULL CONTROL ASSY         49BAD   GCD             GC              A
A7D  CONTROL RODS                   49BAE   GCE             GC              1
A7D  SELECTOR VALVE                 49BFA   GCF             GC              1
A7D  WING FOLD ACT  CYL             49BFF   GCG             GC              1
A7D  CYLINDER  PIN  PULL FWD        49BFL   GCH             GC              1
A7D  AFT PIN PULL CYL               49FHD   GCJ             GC              1
A7D  MANUAL  GROUND SELECT VLV      49BFE   GCK             GC              0
A7D  THERMAL  RELIEF VLV            49BFJ   GCL             GC              0
A7D  PRESS SPREAD SEQ  VLV          49FHG   GCM             GC              0
A7D  SWIVEL -WING FOLD CYL          49FGH   GCN             GC              5
A7D  CONT. SWITCH                   49FCA   GCP             GC              1
A7D  TIME DELAY RELAY               49FCB   GCQ             GC              1
A7DLANDING GEAR                             L                                AAOOOOOAA
A7DEXTEND LANDING GEAR                      LA              L                OCOOOOOAO
A7DLANDING GEAR DOWN                        LAA             EHD              AAAAAAAAA
A7DEXTEND MAIN LANDING GEAR                 LAA             LA               AAAAAAAAA
A7D                                         LAA             LC               FAAAAAAAAA
A7DLEFT MLG DOWN / LOCKED                   LLAAA           LAA               AAAAAAAAA
A7D  RT MLG DN / LOCK                       RLAAA           EAZ              FAAAAAAAAA
A7DRIGHT MLG DOWN / LOCKED                  RLAAA           LAA               AAAAAAAAA
A7DACTUATOR,MAIN LANDING GEAR       13BAC   LLAAAA          LLAAA            1
A7D                                 13BAC   LLAAAA          LLBAB            A
A7DACTUATOR,MAIN LANDING GEAR       13BAC   RLAAAA          RLAAA            1
A7D                                 13BAC   RLAAAA          RLBAB            A
A7DSWIVEL,MAIN LG ACTUATOR          13BAD   LLAAAB          LLAAA            0
A7D                                 13BAD   LLAAAB          LLBAB            5
A7DSWIVEL,MAIN LG ACTUATOR          13BAD   RLAAAB          RLAAA            0
A7D                                 13BAD   RLAAAB          RLBAB            5
A7DLEFT MLG DOORS OPEN                      LLAAB           LLAAA             AAAAAAAAA
A7DRIGHT,MAIN LG DOORS OPEN                 RLAAB           RLAAA             AAAAAAAAA
A7DDOOR,MLG,UPPER LH / RH           13AAA   LLAABA          LLAAB            9
A7D                                 13AAA   LLAABA          LLBAA            9
A7D                                 13AAA   RLAABA          RLAAB            9
A7D                                 13AAA   RLAABA          RLBAA            9
A7DDOOR,MLG,LOWER LH / RH           13AAB   LLAABB          LLAAB            9
A7D                                 13AAB   LLAABB          LLBAA            9
A7D                                 13AAB   RLAABB          RLAAB            9
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1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D                              13AAB  RLAABB          RLBAA          9
A7DTUBE ASSY,TORQUE              13AAC  LLAABC          LLAAB          A
A7D                              13AAC  LLAABC          LLBAA          A
A7D                              13AAC  RLAABC          RLAAB          A
A7D                              13AAC  RLAABC          RLBAA          A
A7DARM,TORQUE TUBE,OUTBOARD L/R  13AAD  LLAABD          LLAAB          A
A7D                              13AAD  LLAABD          LLBAA          A
A7D                              13AAD  RLAABD          RLAAB          A
A7D                              13AAD  RLAABD          RLBAA          A
A7DARM,TORQUE TUBE,INBOARD L/R   13AAE  LLAABE          LLAAB          A
A7D                              13AAE  LLAABE          LLBAA          A
A7D                              13AAE  RLAABE          RLAAB          A
A7D                              13AAE  RLAABE          RLBAA          A
A7DARMS,LINK OUTBOARD LH / RH    13AAF  LLAABF          LLAAB          A
A7D                              13AAF  LLAABF          LLBAA          A
A7D                              13AAF  RLAABF          RLAAB          A
A7D                              13AAF  RLAABF          RLBAA          A
A7DARMS,LINK INBOARD  LH / RH    13AAG  LLAABG          LLAAB          A
A7D                              13AAG  LLAABG          LLBAA          A
A7D                              13AAG  RLAABG          RLAAB          A
A7D                              13AAG  RLAABG          RLBAA          A
A7DDOOR,MAIN LG DRAG STRUT       13AAH  LLAABH          LLAAB          A
A7D                              13AAH  LLAABH          LLBAA          A
A7D                              13AAH  RLAABH          RLAAB          A
A7D                              13AAH  RLAABH          RLBAA          A
A7DLINK,DRAG STRUT DOOR          13AAJ  LLAABJ          LLAAB          A
A7D                              13AAJ  LLAABJ          LLBAA          A
A7D                              13AAJ  RLAABJ          RLAAB          A
A7D                              13AAJ  RLAABJ          RLBAA          A
A7DDOOR,MAIN LG,AFT LH / RH      13AAK  LLAABK          LLAAB          A
A7D                              13AAK  LLAABK          LLBAA          A
A7D                              13AAK  RLAABK          RLAAB          A
A7D                              13AAK  RLAABK          RLBAA          A
A7DCYLINDER,MLG DOOR ACTUATING   13BAB  LLAABL          LLAAB          A
A7D                              13BAB  LLAABL          LLBAA          A
A7D                              13BAB  RLAABL          RLAAB          A
A7D                              13BAB  RLAABL          RLBAA          A
A7DSWIVEL,MLG DOOR ACTUATOR      13BAF  LLAABM          LLAAB          5
A7D                              13BAF  LLAABM          LLBAA          5
A7D                              13BAE  RLAABM          RLAAB          5
A7D                              13BAE  RLAABM          RLBAA          5
A7DEXTEND NOSE LANDING GEAR             LAB             LA               AAAAAAAAA
A7DEXTEND NOSE LANDING GEAR             LAB             LC               FAAAAAAAAA
A7D  NLG DN / LOCK                      LABA            GBC              FAAAAAAAAA
A7DNOSE LG DOWN / LOCKED                LABA            LAB              AAAAAAAAA
A7DCYLINDER,NOSE LG ACTUATING    13BBA  LABAA           LABA           1
A7D                              13BBA  LABAA           LBBB           A
A7DEXTENSION UNIT,ACT CYL 1-4IN  13BBC  LABAB           LABA           5
A7D                              13BBC  LABAB           LBBB           5
A7DNOSE LG DOORS OPEN                   LABC            LABA             AAAAAAAAA
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123456789012345678901234567890123456789012345678901234567890123456789012345678
A7DDOOR,NOSE LANDING GEAR LH/RH 13ADA   LABCA          LABC          9
A7D                             13ADA   LABCA          LBBA          9
A7DLINKS,DOOR                   13ADB   LABCB          LABC          9
A7D                             13ADB   LABCB          LBBA          9
A7DSHAFT,NOSE LANDING GEAR DOOR 13ADC   LABCC          LABC          A
A7D                             13ADC   LABCC          LBBA          A
A7DBELLCRANKS                   13ADD   LABCD          LABC          A
A7D                             13ADD   LABCD          LBBA          A
A7DCYLINDER,NLG DOOR ACTUATING  13BEB   LABCE          LABC          A
A7D                             13BEB   LABCE          LBBA          A
A7DLAND GEAR ACTUATION<EXTEND@          LAC            LA             SAAAAAAAAA
A7D                                     LAC            LLAAB          FAAAAAAAAA
A7D                                     LAC            RLAAB          FAAAAAAAAA
A7DLAND GEAR ACTUATION<EXTEND@          LAC            LABC           FAAAAAAAAA
A7DEMERGENCY OPERATION<EXTEND@          LACA           LAC    K LACG   AAAAAAAAA
A7DHYDR POWER REG / DISTR               LACB           LACA            AAAAAAAAA
A7DVALVE,BYPASS SELECT<PRES OP@ 13CAC   LACBA          LACB          A
A7DEXTENSION UNIT,ACT CYL 1->IN 13BBC   LACBB          LACB          B
A7DHYDRA PWR ACCUMULATION<EMER@         LACC           LACB            AAAAAAAAA
A7DACCUMULATOR PKG,LG EMERGENCY 13CAA   LACCA          LACC          A
A7DACCUMULATOR                  13CAC   LACCB          LACC          A
A7DEMERGENCY MODE SELECTION             LACD           LACC            AAAAAAAAA
A7DVALVE,MAN HYD EMER LG CTRL   13CAF   LACDA          LACD          A
A7DELECTRICAL CONTROL                   LACE           LBC             AAAAAAAAA
A7DSOLENOID,LG HANDLE DOWNLOCK  13DEA   LACEA          LACE          A
A7DNORMAL SELECT MODE                   LACF           DADE            FAAAAAAAAA
A7DNORMAL SELECT MODE                   LACF           DADK            FAAAAAAAAA
A7D  NORMAL SELECT MODE                 LACF           FBE             F000000CA0
A7DNORMAL SELECT MODE<EXTEND@           LACF           LACK             AAAAAAAAA
A7DNORMAL SELECT MODE                   LACF           MGSC             000000000
A7DNORMAL SELECT MODE                   LACF           MSD              AAAAAAAAA
A7DHANDLE, LG CTRL NORM / EMERG 13DAA   LACFA          LAC           A
A7DPULLEYS,LG CTRL NORM / EMERG 13DAE   LACFB          LAC           A
A7DVALVE,MANUAL SELECTOR<HYDRL@ 13BAA   LACFC          LAC           A
A7D  DUMMY                      9999J   LACFD          LACF          0
A7DNORMAL OPERATION,LG ACTUAT           LACG           LAC              111111111
A7DNORMAL OPERATION,LG ACTUAT           LACG           LBC              AAAAAAAAA
A7DHYDR PWR REG / DISTR                 LACH           LACG             AAAAAAAAA
A7DHYDR POWER SUPPLY                    LACK           LACH             AAAAAAAAA
A7DOVER&RIDE TO RETRACT                 LACX           LACE    K LACY   AAAAAAAAA
A7DSWITCH,DOWNLOCK EMERG RELES  13DBC   LACXA          LACX          A
A7D LANDING GEAR UP SWITCH              LACY           BEE              AAAAAAAAA
A7DNORMAL RETRACT ACTIVATION            LACY           DADE            FAAAAAAAAA
A7DNORMAL ACTIVATION<RETRACT@           LACY           LACE             111111111
A7D  NORMAL RETRACT ACTIVATION          LACY           MASC            FAAAAAAAAA
A7DNORMAL RETRACT ACTIVATION            LACY           MSD              AAAAAAAAA
A7DWEIGHT OFF WHEELS                    LACY           UAW             FAAAAAAAAA
A7DSWITCH,DECK COMPRESSION&RTMG 13DBE   LACYA          LACY          A
A7DACCUMULATOR HEATING                  LACZ           LACC             000555550
A7DBLANKET,HYD ACCUM HEATING    13CPA   LACZA          LACZ          A
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A7DPOSITION INDICATE,LG                    LAD          LACD          AAAAAAAAA
A7DPOSITION INDICATE                       LAD          LACX          AAAAAAAAA
A7DLIGHT,LG HANDLE WARNING      13DCA      LADA         LAD        1
A7DINDICATOR,NOSE GEAR POSITION13DCB       LADB         LAD        1
A7DINDICATOR,MAIN GEAR POSITION13DCC       LADC         LAD        1
A7DRELAYS,LG POS IND SYST       13DCE      LADD         LAD        1
A7DLIGHTS,WHLS-FLAP WARN SYST   13DDB      LADE         LAD        1
A7DRETRACT LANDING GEAR                    LB           LX            111111111
A7DRETRACT MAIN LANDING GEAR               LBA          LB            AAAAAAAAA
A7DLEFT MAIN LG DOORS CLOSED               LLBAA        LBA           AAAAAAAAA
A7DRIGHT MAIN LG DOORS CLOSED              RLBAA        LBA           AAAAAAAAA
A7DLEFT MAIN LG UP / LOCKED                LLBAB        LLBAA         AAAAAAAAA
A7DL MAIN LG UP/LOCKED                     LLBAB        MBRJ          111111111
A7DLANDING GEAR UP                         RLBAB        CCAG          FAAAAAAAA
A7DRIGHT MAIN LG UP / LOCKED               RLBAB        RLBAA         AAAAAAAAA
A7DSTRUT ASSY,MLG UPLOCK SPRING13ABF       LLBABA       LLBAB      A
A7D                             13ABF      RLBABA       RLBAB      A
A7DHOOK,MAIN LG UPLOCK          13ABG      LLBABB       LLBAB      A
A7D                             13ABG      RLBABB       RLBAB      A
A7DRETRACT NOSE LANDING GEAR               LBB          LB            AAAAAAAAA
A7DNOSE LG DOORS CLOSED                    LBBA         LBB           AAAAAAAAA
A7DNOSE LG UP / LOCKED                     LBBB         LBBA          AAAAAAAAA
A7D                             13AFL      LBBBA        LABC       A
A7DMECHANISM,NOSE LG UPLOCK     13AEE      LBBBA        LBBB       A
A7DLANDING GEAR ACTIVATION<RET@            LBC          LB            SAAAAAAAA
A7D                                        LBC          LLBAB         FAAAAAAAA
A7D                                        LBC          RLBAB         FAAAAAAAA
A7D                                        LBC          LBBB          FAAAAAAAA
A7DROLLING SUPPORT                         LC           L             19000000A1
A7DMLG WHEEL                    13ACA      LCA          LC         9
A7DMLG TIRE                     13ACB      LCB          LC         9
A7DMLG SHOCK STRUT              13ABA      LCC          LC         8
A7DMLG TENSION STRUT            13ABB      LCD          LC         8
A7DMLG TRUNNION<SHOCK STRUT@    13ABC      LCE          LC         8
A7DMLG TRUNNION<TENSION STRUT@  13ABD      LCF          LC         8
A7DMLG TRUNNION<DRAG STRUT@     13ABE      LCG          LC         8
A7DNLG WHEEL                    13AFA      LCH          LC         7
A7DNLG TIRE                     13AFB      LCI          LC         7
A7DNLG SHOCK STRUT              13AEA      LCJ          LC         6
A7DNLG LOWER LINK               13AEB      LCK          LC         A
A7DNLG UPPER LINK               13AEC      LCL          LC         A
A7DNLG AXLE BEAM                13AED      LCM          LC         9
A7DRETRACT.SENSITIVE ATTENUATOR            LX           L             010000000
A7DMISSION SUPPORT                         M                          111111111
A7DVISUAL AIM INFO                         MAAB         MBRW          000000000
A7DRELEASE TONE INFO                       MAAT         MBRW          000000000
A7DARM STA CONTROL UNIT                    MASC         MB            111111111
A7DARM STA CONTROL UNIT                    MASC         MG            111111111
A7D ARM STA CONTROL UNIT                   MASC         MR            AAAAAAAAA
A7D CKT CARD BIT LOGIC NO1      74EAA      MASCB        MASC       1
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1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D CKT CARD BIT LOGIC NO2      74EAB   MASCC          MASC        1
A7D CKT CARD BIT LOGIC NO3      74EAC   MASCD          MASC        1
A7D CKT CARD BIT LOGIC NO4      74EAD   MASCE          MASC        1
A7D CKT CARD BIT LOGIC NO5      74EAE   MASCF          MASC        1
A7D CKT CARD BIT LOGIC NO6      74EAF   MASCG          MASC        1
A7D CKT CARD BIT LOGIC NO7 VOLT 74EAG   MASCH          MASC        1
A7D CKT CARD CONT.LOGIC NO1 &2  74EAK   MASCJ          MASC        1
A7D CKT CARD CONT.LOGIC NO1 3&4 74EAL   MASCK          MASC        1
A7D CKT CARD CONT.LOGIC NO5&6   74EAM   MASCL          MASC        1
A7D CKT CARD CONT.LOGIC NO7     74EAN   MASCM          MASC        1
A7D CKT CARD CONT.LOGIC NO8     74EAP   MASCN          MASC        1
A7D CKT CARD CONT.LOGIC NO9     74EAQ   MASCP          MASC        1
A7D CKT CARD CONT.LOGIC NO10    74EAR   MASCQ          MASC        1
A7D CKT CARD CONT.LOGIC NO11    74EAS   MASCR          MASC        1
A7D CKT CARD CONT.LOGIC NO12    74EAT   MASCS          MASC        1
A7D CKT CARD CONT.LOGIC NO13    74EAU   MASCT          MASC        1
A7D CKT CARD CONT.LOGIC NO15    74EAV   MASCU          MASC        1
A7D CKT CARD CONT.LOGIC NO16    74EAW   MASCV          MASC        1
A7D CKT CARD BIT BUFFER NO1&2   74EBA   MASCW          MASC        1
A7D CKT CARD BIT BUFFER NO3     74EBB   MASCX          MASC        1
A7D CKT CARD BIT BUFFER NO4     74EBC   MASCY          MASC        1
A7D CKT CARD LOGIC BUFFER NO1   74EBF   MASCZ          MASC        1
A7D CKT CARD LOGIC BUFFER NO2   74EBG   MASDA          MASC        1
A7D CKT CARD LOGIC BUFFER NO3   74EBH   MASDB          MASC        1
A7D CKT CARD LOGIC BUFFER NO4   74EBJ   MASDC          MASC        1
A7D RELAY & LAMP DRIVER NO1&2   74EBM   MASDD          MBAA        1
A7D MISCELLANOUS DRIVER         74EBN   MASDE          MASC        1
A7D SHIFT REGISTER              74EBR   MASDF          MASC        1
A7D MULTIPLEXER                 74EBS   MASDG          MASC        1
A7D AUDIO/VIDEO                 74EBV   MASDH          MAAT        A
A7D POWER SUPPLY                74EBY   MASDJ          MASC        0
A7D CHASSIS                     74EBZ   MASDK          MASC        0
A7D RESISTOR DIODE ASSY A1      74EB1   MASDL          MASC        0
A7D RESISTOR DIODE ASSY A2      74EB2   MASDM          MASC        0
A7D RESISTOR DIODE ASSY A3      74EB3   MASDN          MASC        0
A7D RESISTOR DIODE ASSY A4      74EB4   MASDP          MASC        0
A7D MOUNTING RACK               74ECJ   MASDQ          MASC        0
A7DBOMBS/ROCKETS/MISSLES                MB             M                 010010010
A7DADVISORY INFORMATION                 MBAA           MBRW              111111111
A7D ARM ADVISORY LAMP  7EA      74DBJ   MBAAA          MBAA        1
A7D ARM ADVISORY IND.PANEL      74DBL   MBAAB          MBAA        1
A7DATORES RELEASE OR FIRE               MBRA           MB        MBRJ    000010000
A7D SIDEWINDER CIRCUIT          74DJO   MBRAR          MBRA        1
A7D WALLEYE CIRCUIT             74DKO   MBRAS          MBRA        1
A7D DISPENSER CIRCUIT           74DMO   MBRAT          MBRA        1
A7D ARW 77 TRANSMITTER          74DPA   MBRAU          MBRA        1
A7D ARW 77 ANTENNA              74DPC   MBRAV          MBRA        1
A7D ARW 77 MOUNT                74DPD   MBRAW          MBRA        0
A7D ARW 77 FILMENT TRANSFORMER  74DPE   MBRBX          MBRA        A
A7D SUU 20A EJECTOR FOOT        75AFA   MBRBY          MBRA        1
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1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D SUU 20A RAM ASSY              75AFB   MBRBZ          MBRA          1
A7D SUU 20A  ESISTOR PANEL        75AFE   MBRCA          MBRA          1
A7D SUU 20A  OCKET FIRE CONTACT   75AFG   MBRCB          MBRA          1
A7D PYLON FUSELAGE HARNESS        75AJA   MBRCC          MBRA          1
A7D AERO 3B POWER SUPPLY          75AKA   MBRCD          MBRA          1
A7D AERO 3B DETENT & SNUBBER      75AKB   MBRCE          MBRA          1
A7D AERO 3B WIRING HARNESS        75AKE   MBRCF          MBRA          1
A7D AERO 3B ADAPTER CONNECTOR     75AKF   MBRCG          MBRA          1
A7D WING STA PYLON WIRE HARNESS   75BFC   MBRCH          MBRA          1
A7D WING STA PYLON WIRE HARNESS   75BGC   MBRCJ          MBRA          1
A7D WING STA PYLON WIRE HARNESS   75BGC   MBRCK          MBRA          1
A7DUNLATCH COMMAND                        MBRD           MBRA            AAAAAAAAA
A7DUNLATCH COMMAND                        MBRD           MR              FAAAAAAAAA
A7DMANUAL COMMAND                         MBRE           MBRD            111111111
A7DMANUAL COMMAND                         MBRE           MBRE            FAAAAAAAAA
A7D ASM RELEASE SWITCH            14AAA   MBREA          MBRE          A
A7DAUTO COMMAND                           MBRE           MBRD    MBRE    000000000
A7D ARM.RELEASE PANEL ASSY        74DBK   MBREA          MBRE          A
A7D ARM 77 SELECTOR CONTROL       74DPF   MBREB          MBRD          A
A7D ARM SYS CONT UNIT             74EAC   MBREC          MBRD          A
A7D TACTICAL COMPUTER             73BAQ   MBRED          MBRE          A
A7DQUANTITY &INTERVAL CONTROL             MBRG           MBRE            111111111
A7D ARMAMENT RELEASE CONTROL      74DBE   MBRGA          MBRG          A
A7DMODE SELECT                            MBRH           MBRE            AAAAAAAAA
A7D ATTACK MODE CONTROL 4EACH     74DBC   MBRHA          MBRH          2
A7DJETTISON COMMAND CONTROL               MBRJ           MB      K MBRA  000000040
A7DJETTISON COMMAND CONTROL               MBRJ           MB      T       020000000
A7D ARM STA CONT UNIT             74EAQ   MBRJA          MBRJ          A
A7D JETTISON OSCILLATOR           74EET   MBRJB          MBRJ          A
A7D JETTISON OSCILLATOR           74EEU   MBRJC          MBRJ          A
A7D MER MKII CARTRIDGE  6EA       97ACC   MBRJD          MBRJ          2
A7DSALVO JETTISON                         MBRK           MBRJ            111111111
A7D SALVO JETTISON SWITCH         74DCA   MBRKA          MBRK          A
A7DSELECT JETTISON                        MBRL           MBRJ            111111111
A7D SELECT JETTISON SWITCH        74LCE   MBRLA          MBRL          A
A7DAUX JETTISON                           MBRM           MBRD    K MBRE  AAAAAAAAA
A7D AUXILIARY JETTISON SWITCH     74DDA   MBRMA          MBRM          A
A7DDEFUSING                               MBRN           MBRA            AAAAAAAAA
A7D NOSE & TAIL ARMING CIRCUIT    74CFO   MBRNA          MBRN          A
A7D ARM STA CONT UNIT             74EAO   MBRNB          MBRN          A
A7D FUSING SWITCH                 74DBA   MBRNC          MBRN          A
A7DSTATION READY SELECT                   MBRQ           MBAA            FAAAAAAAAA
A7DSTATION READY SELECT                   MBRQ           MBRA            AAAAAAAAA
A7D ARMAMENT SELECT PANEL         74DBA   MBRQA          MBRQ          1
A7D STA SELECT SWITCHES 7EA       74DBF   MBRQB          MBRQ          1
A7DRELEASE SEQUENCE CONTROL               MBRS           MB              111111111
A7D SINGLE/PAIR/SIMULT SWITCH     74DBK   MBRSA          MBRS          2
A7D ARM STA CONT UNIT             74EAD   MBRSB          MBRS          1
A7D SUU 20 BOMB INTERVALOMETER    75AFD   MBRSC          MBRS          1
A7D SUU 20 ROCKET INTRVALOMETR    75AFH   MBRSD          MBRS          1
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123456789012345678901234567890123456789012345678901234567890123456789012345678901
A7DTARGET DESIGNATE                    MBRT          MBRF          111111111
A7D TARGET DESIGNATE SWITCH    14AAA   MBRTA         MBRT        A
A7DPILOT ACTION                        MBRW          MBRF          AAAAAAAAA
A7DSTORES SUSPENSION                   MBS           MB            AA55155AA
A7DSTORES SUSPENSION                   MBS           MBAA        FAAAAAAAAA
A7DWING STATION STORES                 MBSA          MBS           AAAAAAAAA
A7DWING STATION STORES                 MBSA          MEA         FAAAAAAAAA
A7D RACK MAU 128/A OR 12C/A 6EA75ACO   MBSAA         MBSA        A
A7D BOMB RACK SUPPORT ASSY 2EA 75BBA   MBSAB         MBSA        2
A7D BOMB RACK SUPPORT ASSY 2EA 75BCA   MBSAC         MBSA        2
A7D BOMB RACK SUPPORT ASSY 2EA 75BDA   MBSAD         MBSA        1
A7DSINGLE SUSPENSION                   MBSB          MBSA          222222222
A7D SUU 20 BOMB/ROCKET DISPENSR75AFO   MBSBA         MBSB        A
A7D SUU 20 AFT SWAY BRACE ASSY 75AIC   MBSBB         MBSB        2
A7D SUU 42/A BOMB/RKT DISPENSER75AGO   MBSBD         MBSB        A
A7D SUU 20 ROCKET TUBES & DETN+75AFF   MBSBE         MBSB        1
A7DTRIPLE SUSPENSION 3EA               MBSC          MBSA          333333333
A7D TRIPLE EJECTOR RACK        75ADO   MBSCA         MBSC        3
A7DMULTI SUSPENSION 6EA                MBSD          MBSA          222222222
A7D MULTI EJECTOR RACK         75AEO   MBSDA         MBSD        2
A7DFUSELAGE SUSPENSION                 MBSF          MBS           AAAAAAAAA
A7D AERO 3B RAIL ASSY 2EACH    75AKC   MBSFA         MBSF        5
A7D AERO 3B NOSE ASSY          75AKD   MBSFB         MBSF        1
A7D FUSE STA 465 PYLON ASSY    75BAO   MBSFC         MBSF        5
A7DWEAPON DEFENSE                      ME            M             000000000
A7DACTIVE ECM                          MEA           ME            000000000
A7D ALQ 71 POD                 76HAO   MEAA          MEA         A
A7D ECM SYS ALQ&72             76QCO   MEAAA         MEA         A
A7D ALQ 87 POD                 76HEO   MEAB          MEA         A
A7D ALQ 101 POD                76HFO   MEAC          MEA         A
A7D ECM SYS ALQ&119            76XCO   MEACA         MEA         A
A7D UNIVERSAL CONTROL          76HGA   MEAD          MEA         A
A7D CONTROL                    76FEO   MEAE          MEA         A
A7DR.F.BLANKING                        MEB           MF            000000000
A7D CHASSIS                    76CAA   MEBA          MEB         1
A7D CKT BOARD NEGATIVE CHANNEL 76CAB   MEBB          MEB         A
A7D CKT BOARD POWER SUPPLY     76CAC   MEBC          MEB         A
A7D CKT BOARD STANDARD CHANNEL 76CAD   MEBD          MEB         A
A7D CKT BOARD STANDARD CHANNEL 76CAE   MEBE          MEB         A
A7D CKT BOARD STANDARD CHANNEL 76CAF   MEBF          MEB         A
A7D  EQUIPMENT RACK            76CBO   MEBG          MEB         1
A7D  DESTRUCT INITIATOR        76DAO   MEBH          MEB         1
A7DPASSIVE ECM                         MEP           ME            000000000
A7D RADAR WARNING INDICATOR PNL76FFA   MEPA          MEP         1
A7D AZIMUTH INDICATOR          76FGO   MEPB          MEP         1
A7D INDICATOR PANEL ASSY       76FKA   MEPC          MEP         1
A7D FWD ANTENNA                76FHO   MEPHT         MEP         5
A7D PULSE DELAY OSCILLATOR     76FJA   MEPHU         MEP         5
A7D VIDEO AMPLIFIER            76FJC   MEPHV         MEP         5
A7D QUADRUPLEXER DETECTOR      76FJF   MEPHW         MEP         5
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123456789012345678901234567890123456789012345678901234567890123456789012345678
A70 VIDEO SWITCHING BOARD          76FJG  MEPHX          MEP          5
A70 AMPLIFIER DETICTOR             76GAA  MEPWA          MEP          5
A70 VIDEO AMPL                     76GAB  MEPWB          MEP          5
A70 DEMODULATOR                    76GAC  MEPWC          MEP          5
A70 SIGNAL LOGIC                   76GAD  MEPWD          MEP          5
A70 REGUALTOR AMPL.                76GAE  MEPWE          MEP          5
A70 COUNTER                        76GAF  MEPWF          MEP          0
A70 SIGNAL COMPARATOR              76GAG  MEPWG          MEP          5
A70 SIGNAL COMPARATOR              76GAH  MEPWH          MEP          5
A70 PULSE GEN                      76GAJ  MEPWJ          MEP          5
A70 ANTENNA                        76GHC  MEPWK          MEP          5
A70 CIRCUIT CARD ASSY 37A2         76FEA  MEPXA          MEP          5
A70 CIRCUIT CARD ASSY 36A4         76FEB  MEPXB          MEP          5
A70 CIRCUIT CARD ASSY 1RA3         76FEC  MEPXC          MEP          5
A70 CIRCUIT CARD ASSY 37A1         76FED  MEPXD          MEP          5
A70 RADAR SET CONTROL APR 36/3776FEE  MEPXE          MEP          A
A70FUSING SELECT                       MFS            MFKA           000000000
A70 NOSE AND TAIL ARMING CKT       74DEC  MFSA           MFS          A
A70 FUSING SWITCH                  74EEA  MFSB           MFS          A
A70GUNS                                MG             M              100010001
A70GUNS                                MG             MGM            FAAAAAAAAA
A70 RECOIL ADAPTER                 74AAA  MGA            MG           1
A70 DRUM DRIVE ASSY                74ACC  MGAA           MG           0
A70 WEB STRAP CHUTE RETAINER       74ACH  MGAB           MG           0
A70 EXIT COVER                     74ADA  MGAC           MG           0
A70 ENTRANCE COVER                 74ADB  MGAD           MG           0
A70 EXIT SCOOP DISC ASSY           74ADC  MGAE           MG           0
A70 ENTRANCE SCOOP DISC ASSY       74ADD  MGAF           MG           0
A70 INNER DRUM                     74ADE  MGAG           MG           0
A70 OUTER DRUM                     74ADF  MGAH           MG           0
A70 TRANSFER UNIT ASSY             74AEA  MGAJ           MG           0
A70 LOADER ASSY                    74AEB  MGAK           MG           0
A70 FILTER                         74AFA  MGAL           MG           0
A70 DUEL RATE FLOW REG VALVE       74AFB  MGAM           MG           0
A70 HYD GUN DRIVE MOTOR            74AFC  MGAN           MG           0
A70 LAST ROUND BYPSSS SWITCH       74AJG  MGAO           MG           0
A70 DRIVE UNIT ASSY                74AHA  MGAP           MG           0
A70 FLEXIBLE SHAFT                 74AHB  MGAQ           MG           0
A70 GUN DRIVE ASSY                 74AHC  MGAR           MG           0
A70 LAST ROUND SWITCH              74AJA  MGAS           MG           C
A70 GUN SPEED SENSOR               74AJB  MGAT           MG           1
A70 ASCU                           74FAC  MGAV           MG           A
A70 GUN HOUSING                    74AAB  MGB            MG           1
A70 ROTOR ASSY                     74AAC  MGC            MG           1
A70 BREECH BOLT ASSY               74AAD  MGD            MG           1
A70 RETAINER ASSY                  74AAE  MGE            MG           0
A70GUN FIRE CONTROL                    MGF            ECD            FAAAAAAAAA
A70GUN FIRE CONTROL                    MGF            MG             000000000
A70 FIRING CONTACT ASSY            74AAH  MGFA           MGF          A
A70 GUN CONTROL BOX ASSY           74AJJ  MGFB           MGF          A
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123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
A7DFIRE COMMAND                          MGFC        MGF          AAAAAAAAA
A7DFIRE COMMAND                          MGFC        MR           FAAAAAAAAA
A7D CIRCUIT CARD ASSY A-1      74AKA     MGFCA       MGF          A
A7D  DUMMY                     99999     MGFCB       MGFC         0
A7D CIRCUIT CARD ASSY A-1      74AKB     MGFD        MGF          A
A7D TRANSFORMER RECTIFIER      74AKC     MGFE        MGF          A
A7D HOUSING                    74AKE     MGFF        MGF          1
A7D CHASSIS COVER              74AKG     MGFG        MGF          0
A7DREADY SELECT                          MGFS        MGF            AAAAAAAAA
A7D GUN SELECT SWITCH          74LBA     MGFSA       MGFS         A
A7D END PLATE                  74AAF     MGG         MG           0
A7D CLEARING SOLENOID          74AAG     MGH         MG           0
A7D GUIDE BAR                  74AAJ     MGJ         MG           1
A7D LUBRICATOR                 74AAK     MGK         MG           0
A7D BARRELS                    74AEA     MGL         MG           1
A7DMAINTENCE SKED INFO                   MGM         DR             AAAAAAAAA
A7D MUZZLE CLAMP               74ABB     MGMA        MG           1
A7D CENTER BARREL CLAMP        74AEC     MGN         MG           0
A7D STABILIZER RING            74AED     MGW         MG           1
A7D FRONT MOUNT YOKE ASSY      74AFF     MGP         MG           2
A7DGUNS SAFETY CONTROL                   MGS         MG             110000011
A7D ARM STA CONT UNIT          74FAC     MGSA        MG           A
A7DINTERLOCK CONTROL                     MGSC        MGS            111111111
A7DDEARMING CONTROL                      MGSM        MGS            111111111
A7D MASTER ARM SWITCH          74LBA     MGSMA       MGSM         A
A7DSAFE SELECT                           MGSS        MGS            111111111
A7D GUN SWITCH (SAFE)          74LBA     MGSSA       MGSS         A
A7D REAR MOUNT                 74AHF     MGT         MG           2
A7D EXIT UNIT                  74ACA     MGU         MG           0
A7D ENTRANCE UNIT              74ACB     MGV         MG           0
A7D FEED FLEXIBLE CHUTE        74ACC     MGW         MG           0
A7D RETURN CHUTE               74ACD     MGX         MG           0
A7D BYPASS CHUTE               74ACE     MGY         MG           0
A7D CONVEYER ASSY              74ACF     MGZ         MG           0
A7D REGULATOR AMPL             76FAA     MPPHA       MEP          A
A7D DEFLECTOR                  76FAB     MPPHB       MEP          2
A7D TRIGGER GEN                76FAC     MPPHC       MEP          A
A7D GATE LOGIC                 76FAD     MPPHD       MEP          5
A7D E LOGIC                    76FAE     MPPHE       MEP          5
A7D MID LOGIC                  76FAF     MPPHF       MEP          5
A7D I LOGIC                    76FAG     MPPHG       MEP          5
A7D TEST PULSE GEN             76FAH     MPPHH       MEP          1
A7D A/S IMPROVED CORR          76FAJ     MPPHJ       MEP          1
A7D GCI LOGIC                  76FAK     MPPHK       MEP          1
A7D AFT ANTENNA                76FBC     MPPHL       MEP          5
A7D PULSE DELAY OSCILATOR      76FCA     MPPHM       MEP          5
A7D VIDEO AMPLIFIER            76FCB     MPPHN       MEP          5
A7D QUADRUPLIXER DETECTOR      76FCF     MPPHP       MEP          2
A7D VIDEO SWITCHING BOARD      76FCG     MPPHQ       MEP          1
A7D CIRCUIT CARD ASSY          76FDA     MPPHR       MEP          5
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00000000011111111112222222223333333333444444444455555555566666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D CIRCUIT CARD ASSY          76FBB   MPPHS                MFP                5
A7DRECON INFORMATION                   MR                   M                    000000000
A7D STRIKE CAMERA KB 18A       77AAC   MRA                  MR                 A
A7D STRIKE CAMERA MOUNT        77ABO   MRB                  MR                 2
A7D STRIKE CAMERA BOX          77ACO   MRC                  MR                 1
A7D STRIKE CAMERA WINDOW       77ADO   MRD                  MR                 1
A7D STRIKE CAMERA CONTROL      77AEO   MRE                  MR                 A
A7D HUD CAMERA SYSTEM          77AFO   MRF                  MR                 A
A7DARM MASTER CONTROL                  MS                   MBRA                 AAAAAAAAA
A7DARM MASTER CONTROL                  MS                   MGF                  AAAAAAAAA
A7D ARM STA CONT UNIT          74EAC   MSA                  MS                 A
A7DINTERLOCK BYPASS                    MSB                  MS                   AAAAAAAAA
A7D ARM SAFETY DISABLE SWITCH  74DFO   MSBA                 MSB                A
A7LGEAR INTERLOCK CONTROL              MSD                  MBRJ                 111111111
A7DGEAR INTERLOCK CONTROL              MSD                  MS                   AAAAAAAAA
A7DARM SELECT MASTER                   MSM                  MS                   AAAAAAAAA
A7DMASTER ARM SWITCH           74DRA   MSMA                 MSM                A
A7D ROUND COUNTER              74AHD   MSMAA                MSM                A
A7DSECONDARY AC BUS                    UAA                  CBAA                 SAAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  CBABZX               S0000121100
A7DSECONDARY AC BUS                    UAA                  CBAD                 SAAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  CBAEX                S111111111
A7DSECONDARY AC BUS                    UAA                  CBAF                 S0000A0010
A7DSECONDARY AC BUS                    UAA                  CBAX                 S111111111
A7DSECONDARY AC BUS                    UAA                  CBBE                 FAAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  CBBF                 FAAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  CBL                  FAAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  CBJ                  FAAAAAAAAA
A7D SECONDARY AC BUS                   UAA                  DACJ                 AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  EBN                  AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  EEG                  AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  EEJ                  AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  EHA                  AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  EHC                  AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  FDEC                 AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  FFJK                 AAAAAAAAA
A7D ELECTRIC POWER                     UAA                  GBD                  AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  MASC                 AAAAAAAAA
A7D ELECTRIC POWER                     UAA                  MEP                  AAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  UDN                  FAAAAAAAAA
A7DSECONDARY AC BUS                    UAA                  UDP                  FAAAAAAAAA
A7D   ELECTRIC POWER                   UAB                  BACGA                AAAAAAAAA
A7D   ELECTRIC POWER                   UAB                  BBAC                 AAAAAAAAA
A7D ELECTRIC POWER PRIMARY AC          UAB                  BFBG                 AAAAAAAAA
A7D ELECTRIC POWER PRIMARY AC          UAB                  BFBK                 AAAAAAAAA
A7D ELECTRIC POWER PRIMARY AC          UAB                  BFEB                 AAAAAAAAA
A7DPRIMARY AC BUS                      UAB                  CBABZX               S222222222
A7DPRIMARY AC BUS                      UAB                  CBAEX                S111111111
A7DPRIMARY AC BUS                      UAB                  CBAF                 S0C00A0000
A7DPRIMARY AC BUS                      UAB                  CBBD                 FAAAAAAAAA
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0000000000111111111122222222223333333333444444444455555555556666666667777777773
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7DPRIMARY AC BUS                          UAB          CBM          FAAAAAAAAA
A7DPRIMARY AC BUS                          UAB          CBN          FAAAAAAAAA
A7DPRIMARY AC BUS                          UAB          CCA           AAAAAAAAA
A7D PRIMARY AC BUS                         UAB          DABG          AAAAAAAAA
A7D PRIMARY AC BUS                         UAB          DAEF          AAAAAAAAA
A7DAC POWER   PRIMARY                       UAB          FDE          222222222
A7DPRIMARY AC BUS                          UAB          FEK           AAAAAAAAA
A7DPRIMARY AC POWER                        UAB          EHN           AAAAAAAAA
A7D                                        UAB          LACZ          AAAAAAAAA
A7DPRIMARY AC BUS                          UAB          MASC          AAAAAAAAA
A7D PRIMARY AC BUS                         UAB          UCD           AAAAAAAAA
A7D   RELAY,PRIMARY AC          42BAH      UABA         UAB          A
A7D   ELECTRIC POWER                       UAC          BBAA          AAAAAAAAA
A7D   ELECTRIC POWER                       UAC          BCCA          AAAAAAAAA
A7D ELECTRIC POWER                         UAC          DZEB          AAAAAAAAA
A7DEMERGENCY INSTRUMENT BUS                UAC          FADA          AAAAAAAAA
A7DEMERG INSTRUMENT BUS                    UAC          FBD          222222222
A7DEMERG INST BUS                          UAC          FEQ           AAAAAAAAA
A7DEMERGENCY INST BUS                      UAC          UHAH          AAAAAAAAA
A7DEMERGENCY INST BUS                      UAC          UHBH          FAAAAAAAAA
A7DEMERGENCY INST BUS                      UAC          UHCH          AAAAAAAAA
A7D   TRANSFORMER,INSTRUMENT    42BAK      UACA         UAC          A
A7D   RELAY,BATTERY BUS         42BCG      UACB         UAC          A
A7D   ELECTRIC POWER                       UAD          BACJA         AAAAAAAAA
A7DPRIMARY INSTRUMENT BUS                  UAD          CBAA          SAAAAAAAAA
A7DPRIMARY INSTRUMENT BUS                  UAD          CBABZX        S888888888
A7DPRIMARY INSTRUMENT BUS                  UAD          CBAEX         S888888888
A7DPRIMARY INSTRUMENT BUS                  UAD          CBAF          S0001111A0
A7DPRIMARY INSTRUMENT BUS                  UAD          CBAX          S222222222
A7DPRIMARY INST BUS                        UAD          CBBC          FAAAAAAAAA
A7DPRIMARY INST BUS                        UAD          CBBG          FAAAAAAAAA
A7DPRIMARY INSTRUMENT BUS                  UAD          CBM           FAAAAAAAAA
A7DPRIMARY INSTRUMENT BUS                  UAD          CBN           FAAAAAAAAA
A7D INSTRUMENT BUS                         UAD          DABB          AAAAAAAAA
A7D ELECTRIC POWER                         UAD          GBD           AAAAAAAAA
A7D   TRANSFORMER,INSTRUMENT    42BAK      UADA         UAD          A
A7D   RELAY (K5)                9942A      UADB         UAD          A
A7DEMERGENCY AC BUS                        UAE          CBAA          S222222222
A7DEMERGENCY AC BUS                        UAE          CBABZX        S222343322
A7DEMERGENCY AC BUS                        UAE          CBAD          S333333333
A7DEMERGENCY AC BUS                        UAE          CBAEX         S222222222
A7DEMERGENCY AC BUS                        UAE          CBAF          S0001111A0
A7DEMERGENCY AC BUS                        UAE          CBAX          SAAAAAAAAA
A7DEMERGENCY AC BUS                        UAE          CBBC          FAAAAAAAAA
A7DEMERGENCY AC BUS                        UAE          CBKB          FAAAAAAAAA
A7DEMERGENCY AC BUS                        UAE          EHB           AAAAAAAAA
A7DEMERG AC BUS                            UAE          FCDA          AAAAAAAAA
A7DEMERG AC BUS                            UAE          FDGB          AAAAAAAAA
A7DEMERG AC BUS                            UAE          FEH           AAAAAAAAA
A7DINVERTER BUS                            UAF          CBABZX        S000121100
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0000000001111111111222222222233333333334444444444555555555566666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A70INVERTER BUS                          UAF                 CBAD            S333333333
A70INVERTER BUS                          UAF                 CBAE            S555555555
A70INVERTER BUS                          UAF                 CBAX            S999999999
A70INVERTER BUS                          UAF                 CBBA            FAAAAAAAAA
A70INVERTER BUS                          UAF                 CBKB            FAAAAAAAAA
A70 INVERTER BUS                         UAF                 DAEB             AAAAAAAAA
A70INVERTER BUS                          UAF                 EDGD             AAAAAAAAA
A70   RELAY,BATTERY BUS          42BCG   UAFA                UAF           A
A70 21V A C BUSS                         UAG                 CBBG             AAAAAAAAA
A70   TRANSFORMER                42BAM   UAGA                UAG           A
A70ESSENTIAL POWER DIST                  UAH                 UAC              AAAAAAAAA
A70ESSENTIAL POWER DIST                  UAH                 UAE              AAAAAAAAA
A70ESSENTIAL POWER DIST                  UAH                 UAF              AAAAAAAAA
A70   RELAY,EMERG AC             42BAJ   UAHA                UAH           1
A70PRIMARY POWER DIST                    UAJ                 UAH              AAAAAAAAA
A70PRIMARY POWER DIST                    UAJ                 UAD              AAAAAAAAA
A70   RELAY,EMERG AC             42BAJ   UAJA                UAJ           1
A70SECONDARY POWER DIST                  UAK                 CBAA            S111111111
A70SECONDARY POWER DIST                  UAK                 CBABZX          S111111111
A70SECONDARY POWER DIST                  UAK                 CBAD            S111111111
A70SECONDARY POWER DIST                  UAK                 CBAEX           S111111111
A70SECONDARY POWER DIST                  UAK                 CBAX            S111111111
A70SECONDARY POWER DIST                  UAK                 UAA              AAAAAAAAA
A70SECONDARY POWER DIST                  UAK                 UAG              FAAAAAAAAA
A70PRIMARY AC POWER ISOLATION            UAL                 UAH     K UAM    111111111
A70EMERGENCY MODE SELECT                 UALA                UAL              FAAAAAAAAA
A70EMERGENCY MODE SELECT                 UALA                UALB             F555555555
A70EMERGENCY MODE SELECT                 UALA                UAX              AAAAAAAAA
A70EMERGENCY MODE SELECT                 UALA                UDK              AAAAAAAAA
A70   SWITCH,EMER GEN            91ABC   UALAA               UALA          5
A70   RELAY,PRIMARY AC          42BAH   UALAB               UAL           A
A70MODE ADVISORY                         UALB                UALC             000000010
A70   LIGHT,WARNING              91ABE   UALBA               UALB          5
A70   RELAY,(K5)                 9942A   UALBB               UAL           A
A70PILOT ACTION                          UALC                UALA             AAAAAAAAA
A70NORMAL AC POWER                       UAM                 UAH      UAX     111111111
A70NORMAL AC POWER                       UAM                 UAJ      UAX     111111111
A70NORMAL AC POWER                       UAM                 UAK              AAAAAAAAA
A70POWER STATUS INFO                     UAMA                UALC             111111111
A70   INDICATOR                  42BAE   UAMAA               UAMA          A
A70   DIODES,ISOLATION    2EA    42BAL   UAMB                UAM           5
A70   CONTACTOR,MAIN AC          42BAG   UAMC                UAM           A
A70   RELAY ASSY                 42CAA   UAMD                UAM           0
A70   JUNCTION BOXES             42CAC   UAME                UAM           0
A70   CKT BKR  PANEL (LEFT)      42CAD   UAMF                UAM           0
A70   CKT BKR PANEL (RIGHT)      42CAE   UAMG                UAM           0
A70   BOARDS,TERMINAL            42CAF   UAMH                UAM           0
A70   HARNESS,CONSOLE            42CAL   UAMJ                UAM           0
A70VOLT/FREQ CONTROL                     UAN                 UAX              AAAAAAAAA
A70   REGULATOR                  91ABB   UANA                UAN           A
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0000000001111111111222222222333333334444444445555555556666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7DAC POWER GENERATION                          UAP             UAX             AAAAAAAAA
A7D   GENERATOR                    91AEA      UAPA            UAP               A
A7D   ELAPSED TIME INDICATOR       91ABF      UAPB            DB                0
A7D   TEST RECPTLE                 91APC      UAPD            UAP               0
A7DVOLT/FREQ/LOAD CONTROL                      UAQ             UAY               AAAAAAAAA
A7D   TRANSFORMER,CURRENT SEA     42BAD      UAQA            UAQ               A
A7D   PANEL,GENERATOR CONTROL     42BAF      UAQB            UAQ               5
A7DSOURCE SELECTION                            UAR             UAY               AAAAAAAAA
A7DSOURCE SELECTION                            UAR             UAZ              FAAAAAAAAA
A7D   PANEL,PILOT GEN CONTROL     42EAN      UARA            UAR               0
A7D   SWITCH,GEN                  42EAC      UARB            UAR               A
A7DAC POWER GENERATION                         UAT             UAY               AAAAAAAAA
A7DGENERATOR DRIVE                             UATA            UAT               AAAAAAAAA
A7D   TRANSMISSION,CSD           42AAA      UATAA           UATA              A
A7D   COUPLING                    42AAD      UATAB           UATA              5
A7D   STARTR & CSD DRIVE SHAFT    231SX N    UATAC           UATA              A
A7D   STARTR PAD ADAPTER          231SG N    UATAD           UATA              3
A7DCSD OIL COOLING                             UATB            UATA              888888888
A7D   FILTER                      42AAB      UATBA           UATB              1
A7D   COOLER                     42AAC      UATBB           UATB              A
A7D   MASTER GENERATOR            42BAA      UATC            UAT               A
A7D   HARNESS,ELECTRICAL          42CAB      UATK            UAT               0
A7DPOWER MONITOR                               UAV             UAZ               AAAAAAAAA
A7DEXTERNAL AC POWER DIST                      UAVA            UAZ               AAAAAAAAA
A7D   RECEPTIACLE,AC POWER       42DAA      UAVAA           UAVA              1
A7D   MONITOR,EXT PWR            42DAB      UAVB            UAV               A
A7D   SWITCH,REMOTE RESET        42DAC      UAVC            UAV               0
A7D   RELAX, EXT PWR ARM         42DAD      UAVD            UAV               A
A7DINVERTER POWER                              UAW             UAF     K UAM     AAAAAAAAA
A7D   INVERTER                    42ECJ      UAWA            UAW               A
A7D   RELSY (K305)                99428      UAWB            UAW               A
A7DEMERGENCY AC POWER                          UAX             UAH     K UAM     AAAAAAAAA
A7DEMERGENCY AC POWER                          UAX             UAJ     K UAM     AAAAAAAAA
A7DINTERNAL AC POWER                           UAY             UAM               AAAAAAAAA
A7DINTERNAL AC POWER                           UAY             UAMA             FAAAAAAAAA
A7D   PANEL,TEST AC               42BAB      UAYA            UAY               0
A7DEXTERNAL AC POWER                           UAZ             UAM               000000000
A7D ALTITUDE COMPUTATION                       UCA             UCN               AAAAAAAAA
A7D ALTITUDE COMPUTATION                       UCA             UCP               AAAAAAAAA
A7D ALTITUDE COMPUTATION                       UCA             UCQ               AAAAAAAAA
A7D ALTITUDE COMPUTATION                       UCA             UCR               AAAAAAAAA
A7D ALTITUDE COMPUTATION                       UCA             UCS               AAAAAAAAA
A7D ALTITUDE COMPUTATION                       UCA             UCT               AAAAAAAAA
A7D ALTITUDE COMPUTATION                       UCA             UCX              SAAAAAAAAA
A7D  MACH/ALT MOTOR               73CAQ      UCAA            UCA               A
A7D ALT. SIGNAL GENERATION                     UCB             UCA               AAAAAAAAA
A7D  MACH/ALT SERVO AMPLIFIER     73CAG      UCBA            UCB               A
A7D STATIC PRESSURE SENSING                    UCC             UCB               AAAAAAAAA
A7D  STATIC PRESSURE SENSOR       73CAA      UCCA            UCC               A
A7D CADC ELECTRICAL POWER                      UCD             UCN               AAAAAAAAA
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0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 8
1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
A70 CADC ELECTRICAL POWER                    UCD          UCP          AAAAAAAAA
A70 CADC ELECTRICAL POWER                    UCD          UCQ          AAAAAAAAA
A70 CADC ELECTRICAL POWER                    UCD          UCR          AAAAAAAAA
A70 CADC ELECTRICAL POWER                    UCD          UCS          AAAAAAAAA
A70 CADC ELECTRICAL POWER                    UCD          UCT          AAAAAAAAA
A70 CADC ELECTRICAL POWER                    UCD          UCU          AAAAAAAAA
A70 CADC ELECTRICAL POWER                    UCD          UCW          AAAAAAAAA
A70 PS 1  POWER SUPPLY          73CAD        UCDA         UCD          A
A70 TRANSFORMER                 73CAX        UCDB         UCD          A
A70 MOUNTING RACK               73CDD        UCDC         UCD          0
A70   ELAPSED TIME INDICATOR    73CAY        UCDX         DB           1
A70 SELF TEST                                UCE          DZFC          FAAAAAAAAA
A70 SELF TEST                                UCE          UCB           AAAAAAAAA
A70 SELF TEST                                UCE          UCG           FAAAAAAAAA
A70 SELF TEST                                UCE          UCU           SAAAAAAAAA
A70 SELF TEST                                UCF          UCW           SAAAAAAAAA
A70  MACH/ALT TRIGGER AMPLIF.   73CAE        UCEA         UCE          A
A70 TRUE AIRSPEED COMPUTATION                UCF          UCU           AAAAAAAAA
A70 TRUE AIRSPEED COMPUTATION                UCF          UCW           AAAAAAAAA
A70 TRUE AIR SPEED COMPUTATION               UCF          UCX           SAAAAAAAAA
A70  TAS SERVO AMPL.            73CAC        UCFA         UCF          A
A70  TAS MOTOR                  73CAM        UCFB         UCF          A
A70  TAS MODULE                 73CAH        UCFC         UCF          A
A70 MACH COMPUTATION                         UCG          UCF           AAAAAAAAA
A70 MACH COMPUTATION                         UCG          UCS           AAAAAAAAA
A70 MACH COMPUTATION                         UCG          UCT           AAAAAAAAA
A70  GEAR ASSY. HOUSING         73CAN        UCGA         UCG          A
A70 TEMPERATURE COMPENSATION                 UCH          UCF           AAAAAAAAA
A70  NETWORK ASSEMBLY           73CAW        UCHA         UCH          A
A70 SELF TEST                                UCJ          DZFC          FAAAAAAAAA
A70 SELF TEST                                UCJ          UCF           AAAAAAAAA
A70 TAS TRIGGER AMPLIFIER       73CAF        UCJA         UCJ          A
A70 SIGNAL GENERATION                        UCK          UCG           AAAAAAAAA
A70  MACH/ALT  SERVO AMPL       73CAG        UCKA         UCK          A
A70 PRESSURE RATIO SENSING                   UCL          UCK           AAAAAAAAA
A70  PRESSURE RATIO SENSOR      73CAB        UCLA         UCL          A
A70  PLENUM CHAMBER             51AFF        UCLB         UCL          1
A70 TOTAL TEMPERATURE SENSING                UCM          UCH           AAAAAAAAA
A70  TOTAL TEMP. PROBE          73CHO        UCMA         UCM          A
A70 ALT. TO ALT.IND.AND AIMS                 UCN          DACB          AAAAAAAAA
A70  SYNCHRO ALTITUDE  INDICTR  73CAU        UCNA         UCN          A
A70ALTITUDE ENCODE                           UCP          CCAF          AAAAAAAAA
A70  ENCODER ALTITUDE REPORTER  73CAT        UCPA         CCAF         A
A70ADC SLTITUDE                              UCQ          CBQ           111111111
A70  ALT. POTENTIOMETER STACK   73CAS        UCQA         UCQ          A
A70ADC ALTITUDE                              UCR          CBADB         AAAAAAAAA
A70ADC ALTITUDE                              UCR          CBADE         AAAAAAAAA
A70ADC ALTITUDE                              UCR          CBAFDC        AAAAAAAAA
A70  ALT. POTENTIOMETER STACK   73CAS        UCRA         UCR          A
A70ALTITUDE SIGNAL (CADC)                    UCS          FDFU          AAAAAAAAA
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ACCDC0000111111111122222222233333333344444444455555555566666666677777777788
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D  MACH POTENTIOMETER STACK  73CAK   UCSA          UCS          A
A7D  ALT.HOLD SYNCHRO          73CAV   UCSB          UCS          A
A7DAIR DATA COMPUTER IND AIRSPD        UCT           DDZB           AAAAAAAAA
A7D  MACH/ALT. XDUCER          73CAP   UCTA          UCT          A
A7DADC TRUE AIRSPEED                   UCU           CBADE          AAAAAAAAA
A7DADC TRUE AIRSPEED                   UCU           CBAEDE         AAAAAAAAA
A7D  TAS POTENTIOMETER STACK   73CAJ   UCUA          UCU          A
A7D TRUE AIRSPEED OUTPUT               UCW           DABB           AAAAAAAAA
A7D  TAS SYNCHRO NO. 1         73CAK   UCWA          UCW          0
A7D  TAS SYNCHRO NO. 2         73CAL   UCWB          UCW          A
A7D FAILURE OF AIR DATA COMP           UCX           UCX           FAAAAAAAAA
A7D ELECTRIC POWER SECONDARY DC        UDA           BED            AAAAAAAAA
A7D ELECTRIC POWER SECONDARY DC        UDA           BEXA           555555555
A7DSECONDARY DC BUS                    UDA           CAA           FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CAC            AAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBAA          SAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBABZX        S111111111
A7DSECONDARY DC BUS                    UDA           CBAD          SAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBAEX         S111111111
A7DSECONDARY DC BUS                    UDA           CBAF          S0000A2140
A7DSECONDARY DC BUS                    UDA           CBBE          FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBBF          FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBL           FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBM           FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBP           FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CBQ           FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CCAC           AAAAAAAAA
A7DSECONDARY DC BUS                    UDA           CCB            AAAAAAAAA
A7D SECONDARY DC BUS                   UDA           DACG           AAAAAAAAA
A7D SECONDARY DC BUS                   UDA           DADB           AAAAAAAAA
A7D SECONDARY DC BUS                   UDA           DB             111111111
A7D ELECTRIC POWER                     UDA           DZ-C           AAAAAAAAA
A7D ELECTRIC POWER                     UDA           DZFDX          AAAAAAAAA
A7D ELECTRIC POWER                     UDA           DZFH           AAAAAAAAA
A7DSECONDARY AC BUS                    UDA           EBN            AAAAAAAAA
A7DSECONDARY DC BUS                    UDA           EED            AAAAAAAAA
A7DSECONDARY DC BUS                    UDA           EHD            AAAAAAAAA
A7D ELECTRIC POWER  SEC DC BUS         UDA           GAAB           AAAAAAAAA
A7D ELECTRIC POWER  SEC DC BUS         UDA           GAHC           AAAAAAAAA
A7D ELECTRIC POWER  SEC DC BUS         UDA           GAK           FAAAAAAAAA
A7D ELECTRIC POWER  SEC DC BUS         UDA           GBC            AAAAAAAAA
A7D DC PWR   SECONDARY                 UDA           GC             AAAAAAAAA
A7DSECONDARY DC BUS                    UDA           MASC           AAAAAAAAA
A7D ELECTRIC POWER                     UDA           MEP            AAAAAAAAA
A7DSECONDARY DC BUS                    UDA           UDP           FAAAAAAAAA
A7DSECONDARY DC BUS                    UDA           UHCM           AAAAAAAAA
A7DSECONDARY DC BUS                    UDA           UHCT           AAAAAAAAA
A7D   ELECTRIC POWER                   UDB           BACJB          AAAAAAAAA
A7D ELECTRIC POWER  BATTERY BUS        UDB           BECBW          AAAAAAAAA
A7D ELECTRIC POWER  BATTERY BUS        UDB           BEEA           AAAAAAAAA
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0000000011111111112222222223333333333444444444455555555556666666667777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
A7D ELECTRIC POWER BATTERY BUS          UDB          BFXA          AAAAAAAAA
A7DBATTERY BUS                         UDB          CAB           FAAAAAAAAA
A7DBATTERY BUS                         UDB          CAD           AAAAAAAAA
A7D ELECTRIC POWER                     UDB          DYZ           AAAAAAAAA
A7D ELECTRIC POWER                     UDB          DZCCC         AAAAAAAAA
A7DBATTERY BUS                         UDB          EFH           AAAAAAAAA
A7DBATTERY BUS                         UDB          MASC          AAAAAAAAA
A7DBATTERY BUS                         UDB          UAW           AAAAAAAAA
A7D   ELECTRIC POWER                   UDC          BACE          AAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC          UDC          BFBF          AAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC          UDC          BFBH          AAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC          UDC          BFBK          AAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC          UDC          BFBM          AAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC          UDC          BFD           AAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC          UDC          BFE           AAAAAAAAA
A7D ELECTRIC POWER PRIMARY DC          UDC          BFXB          AAAAAAAAA
A7DPRIMARY DC BUS                      UDC          CBABZX        S111111111
A7DPRIMARY DC BUS                      UDC          CBAFX         S111111111
A7DPRIMARY DC BUS                      UDC          CBAF          S000142140
A7DPRIMARY DC BUS                      UDC          CBAX          S111111111
A7DPRIMARY DC BUS                      UDC          CBBD          FAAAAAAAAA
A7DPRIMARY DC BUS                      UDC          CBBF          FAAAAAAAAA
A7DPRIMARY DC BUS                      UDC          CBM           FAAAAAAAAA
A7DPRIMARY DC BUS                      UDC          CBN           FAAAAAAAAA
A7DPRIMARY DC BUS                      UDC          CCA           AAAAAAAAA
A7D ELECTRIC POWER                     UDC          DZEA          AAAAAAAAA
A7DPRIMARY DC BUS                      UDC          ECB           AAAAAAAAA
A7DDC POWER   PRIMARY                  UDC          EDE           111111111
A7DPRIMARY DC BUS                      UDC          EEE           AAAAAAAAA
A7DPRIMARY DC BUS                      UDC          EFE           AAAAAAAAA
A7DPRIMARY DC BUS                      UDC          FACA          AAAAAAAAA
A7DPRIMARY DC BUS                      UDC          FBC           AAAAAAAAA
A7DPRIMARY DC                          UDC          FBD           222222222
A7D                                    UDC          LACE          AAAAAAAAA
A7DPRIMARY DC BUS                      UDC          MASC          AAAAAAAAA
A7D ELECTRIC POWER                     UDC          MEP           AAAAAAAAA
A7DDC ENGINE START DIST                UDD          BAFY          AAAAAAAAA
A7D   ELECTRIC POWER                   UDE          BACD          AAAAAAAAA
A7DEMERG DC BUS                        UDE          BACGB         AAAAAAAAA
A7D   ELECTRIC POWER                   UDE          BACJB         222222222
A7D ELECTRIC POWER EMER DC             UDE          BFA           AAAAAAAAA
A7D ELECTRIC POWER EMER DC             UDF          BFXA          555555555
A7DEMERGENCY DC BUS                    UDE          CBABZX        S000121100
A7DEMERGENCY DC BUS                    UDE          CBAD          S333333333
A7DEMERGENCY DC BUS                    UDE          CBAX          S999999999
A7DEMERGENCY DC BUS                    UDE          CBKB          FAAAAAAAAA
A7D EMERGENCY DC BUS                   UDF          DACA          AAAAAAAAA
A7DEMERGENCY DC BUS                    UDE          DADA          AAAAAAAAA
A7D ELECTRIC POWER                     UDE          DZEA          AAAAAAAAA
A7DEMERGENCY DC BUS                    UDE          EGA           AAAAAAAAA
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0000000001111111111222222222333333334444444444555555555666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7DEMERGENCY DC BUS                          UDL          EGD              AAAAAAAAA
A7DEMERGENCY DC BUS                          UDE          EH               AAAAAAAAA
A7DEMERGENCY DC BUS                          UDE          EACH             AAAAAAAAA
A7DEMERG DC BUS                              UDE          ECDA             AAAAAAAAA
A7DEMERG DC BUS                              UDF          ECE              111111111
A7DEMERG DC BUS                              UDE          EDGB             AAAAAAAAA
A7DEMERG DC BUS                              UDE          EDHA             AAAAAAAAA
A7DEMERG DC BUS                              UDE          EEKC             000000000
A7DEMERG DC BUS                              UDE          EEP              AAAAAAAAA
A7D ELECTRIC POWER                           UDE          GAAB             AAAAAAAAA
A7D ELECTRIC POWER                           UDE          GAHC             AAAAAAAAA
A7D                                          UDE          LACY             AAAAAAAAA
A7D                                          UDE          LAD              AAAAAAAAA
A7DEMERG DC BUS                              UDE          MBRA             AAAAAAAAA
A7DINVERTER BUS                              UDF          LEF              AAAAAAAAA
A7DEXTERNAL DC POWER                         UDF          UDJ              000000000
A7D   RECEPTACLE,EXT START      42BCK        UDFA         UDF         1
A7DESSENTIAL DC DIST                         UDG          UDB      UDL    111111111
A7DESSENTIAL DC DIST                         UDG          UDE              AAAAAAAAA
A7DPRIMARY DC DIST                           UDH          UDC              AAAAAAAAA
A7D   RELAY, DC PR1               42BLC      UDHA         UDH         A
A7DSECONDARY DC DIST                         UDJ          UDA              AAAAAAAAA
A7DPRIMARY DC POWER ISOLATION                UDK          UDG              111111111
A7DBATTERY POWER DIST                        UDL          UDB    K UDG     AAAAAAAAA
A7DBATTERY POWER DIST                        UDL          UDJ              AAAAAAAAA
A7D   RELAY, BATTERY BUS K2     42BCG        UDLA         UDL         A
A7D   CONTACTOR                 42BCH        UDLB         UDL         A
A7D   RELAY,EMERG AC            42BAJ        UDLD         UDL         5
A7DTRANSFORM/RECTIFY                         UDN          UDX              AAAAAAAAA
A7D   TRANSFORMER/RECTIFIER     42BBA        UDNA         UDN         A
A7DBATTERY CHARGING                          UDP          UDZ              555555555
A7D   CHARGER                  42BCC        UDPA         UDP         A
A7D   SENSOR,TEMP              42BCD        UDPB         UDP         1
A7DBATTERY SELECT                            UDQ          UDL              AAAAAAAAA
A7D   SWITCH,BATTERY           42BCF        UDQA         UDQ         A
A7DDC POWER GENERATION                       UDR          UDY              AAAAAAAAA
A7D   GENERATOR                 91AFA        UDRA         UDR         A
A7DNORMAL DC POWER                           UDX          UDG      UDY    111111111
A7DNORMAL DC POWER                           UDX          UDH      UDY    111111111
A7DNORMAL DC POWER                           UDX          UDJ              AAAAAAAAA
A7D   RELAY ASSY               42CAA        UDXA         UDX         0
A7D   JUNCTION BOXES           42CAC        UDXB         UDX         0
A7D   CKT BKR PANEL (LEFT)     42CAD        UDXC         UDX         0
A7D   CKT BKR PANEL (RIGHT)    42CAE        UDXD         UDX         0
A7D   TERMINAL BOARDS          42CAF        UDXE         UDX         0
A7D   HARNESS,CONSOLE          42CAL        UDXF         UDX         0
A7DEMERGENCY DC POWER                        UDY          UALB             FAAAAAAAAA
A7DEMERGENCY DC POWER                        UDY          UDG    K UDX     AAAAAAAAA
A7DEMERGENCY DC POWER                        UDY          UDH    K UDX     AAAAAAAAA
A7D   RELAY,EMER DC             42B6D        UDYA         UDY         A
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000000000011111111112222222222333333333344444444445555555555666666666677777777778
123456789012345678901234567890123456789012345678901234567890123456789012345678901
A7DBATTERY DC SUPPLY                          UDZ          UDL          AAAAAAAAA
A7D    BATTERY                  42BCA   UDZA  UDZ          A
A7D    COVER                    42BCB   UDZB  UDZ          0
A7D    MOUNT                    42BCE   UDZC  UDZ          1
A7DPC1 HYD                              UHA   FDC          111111111
A7DPC 1 HYD                             UHA   FEJC         AAAAAAAAA
A7DPC 1 HYD                             UHA   FEZ          111111111
A7DAYATEM PRESSURE                      UHAA  UHA          AAAAAAAAA
A7DAYATEM PRESSURE                      UHAA  UHAC         FAAAAAAAAA
A7DAYATEM PRESSURE                      UHAA  UHAD         FAAAAAAAAA
A7DAYATEM PRESSURE                      UHAA  UHAH         FAAAAAAAAA
A7D    FILTER,MAIN PRESSURE     45AAE   UHAAA UHAA         0
A7D    VALVE,SYS PRESS RELIEF   45AAF   UHAAB UHAA         5
A7DINTERNAL PRESSURE                    UHAB  UHAA         AAAAAAAAA
A7D    PUMP,PC1                 45AAD   UHABA UHAB         A
A7D    DISCONNECT,PRESSURE      45AAC   UHABB UHAB         2
A7D    DISCONNECT,RETURN        45AAC   UHABC UHAB         5
A7D    EXTENSION UNIT,PRESSURE  45AAM   UHABD UHAB         5
A7D    EXTENSION UNIT,RETURN    45AAN   UHABE UHAB         5
A7D    HOSE,PRESSURE            9945A   UHABF UHAB         5
A7D    HOSE,RETURN              9945B   UHABG UHAB         5
A7D    HYD.PUMP DR.GEAR & BRNG  231SW N UHAPJ UHAB         A
A7DFLUID SUPPLY                         UHAC  UHAB         AAAAAAAAA
A7D    VALVE,RESERVOIR RELIEF   45AAA   UHACA UHAC         2
A7D    RESERVOIR                45AAB   UHACB UHAC         5
A7D    VALVE,SOLENOID SHUTOFF   45AAX   UHACC UHAC         0
A7DSURGE DAMPING                        UHAD  UHAZ         111111111
A7D    ACCUMULATOR              45AAG   UHADA UHAD         A
A7D PNEUMATIC PRECHARGE                 UHAE  UHAD         AAAAAAAAA
A7D    VALVE PACKAGE            45DAA   UHAEA UHAE         1
A7D    PNEUMATIC PRECHARGE GAUGE45DAB   UHAEB DB           1
A7D    VALVE,SYSTEM CHARGE      45DAD   UHAEC UHAE         A
A7DEXTERNAL PRESSURE                    UHAF  UHAA         000000000
A7D    DISCONNECT,PRESSURE      45AAH   UHAFA UHAF         5
A7D    DISCONNECT,RETURN        45AAJ   UHAFB UHAF         5
A7DPUMP COOLING                         UHAG  UHAB         888888888
A7D    FILTER,BYPASS            45AAK   UHAGA UHAG         0
A7D    DISCONNECT,BYPASS        45AAL   UHAGB UHAC         2
A7D    EXTENSION UNIT,BYPASS    45AAP   UHAGC UHAC         2
A7D    HOSE,BYPASS              9945C   UHAGD UHAC         2
A7DPRESSURE SENSING DC-1                UHAH  UZFFZ        AAAAAAAAA
A7D    TRANSMITTER,PPESSURE     45ABA   UHAHA UHAH         A
A7D  SURGE DAMPING  ATTENUATION         UHAZ  UHA          111111111
A7D HYDRAULIC POWER                     UHB   BFED         AAAAAAAAA
A7DHYD PRESS.(PC2)                      UHB   FCD          AAAAAAAAA
A7DHYDRAULIC PC2                        UHB   FBB          AAAAAAAAA
A7DPC 2 HYD                             UHB   FC3    UHC   111111111
A7DPC2 HYD                              UHB   FDC          111111111
A7DPC2 HYD                              UHB   FDED         AAAAAAAAA
A7DPC 2 HYD                             UHB   FFZ          111111111
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000000000011111111112222222223333333334444444444555555555566666666677777777778
123456789012345678901234567890123456789012345678901234567890123456789012345678
A7D PC 2 DIST                                  UHB              GAAF              AAAAAAAAA
A7D PC 2 DIST                                  UHB              GADA              AAAAAAAAA
A7DPC 2 HYD                                    UHB              MG                000000000
A7DPC2 HYDRAULIC DISTRIBUTION                  UHB              UHCM      UHCP    111111111
A7DPC2 HYDRAULIC DISTRIBUTION                  UHB              UHD               AAAAAAAAA
A7DSYSTEM PRESSURE                             UHBA             UHB               AAAAAAAAA
A7DSYSTEM PRESSURE                             UHBA             UHBC              FAAAAAAAAA
A7DSYSTEM PRESSURE                             UHBA             UHBD              FAAAAAAAAA
A7DSYSTEM PRESSURE                             UHBA             UHBH              FAAAAAAAAA
A7D   FILTER,MAIN PRESSURE      45BAF         UHBAA            UHBA              0
A7D   VALVE,SYS PRESS RELIEF    45BAG         UHBAB            UHBA              5
A7D   SWIVEL,PRESSURE           45BAU         UHBAC            UHB               5
A7DINTERNAL PRESSURE                           UHBB             UHBA              AAAAAAAAA
A7D   DISCONNECT,PRESSURE       45BAC         UHBBA            UHBB              2
A7D   DISCONNECT,RETURN         45BAC         UHBBB            UHBB              2
A7D   PUMP,PC2                  45BAD         UHBBC            UHBB              A
A7D   EXTENSION UNIT,PRESSURE   45BAR         UHBBD            UHBB              2
A7D   EXTENSION UNIT,RETURN     45BAN         UHBBE            UHBB              2
A7D   HOSE,PRESSURE             9945A         UHBBF            UHBB              2
A7D   HOSE,RETURN               9945B         UHBBG            UHBB              2
A7D   SWIVEL,RETURN             45BAV         UHBBH            UHB               2
A7D   HYD.PUMP DR.GEAR & BRNG   231SW N       UHBBJ            UHBB              A
A7DFLUID SUPPLY                                UHBC             UHBB              AAAAAAAAA
A7D   VALVE,RESERVOIR RELIEF    45BAA         UHBCA            UHBC              2
A7D   RESERVOIR                 45BAB         UHBCB            UHBC              2
A7DSURGE DAMPING                               UHBD             UHBDZ             111111111
A7D   ACCUMULATOR               45BAH         UHBDA            UHBD              A
A7D SURGE DAMPING  ATTENUATION                 UHBDZ            UHB               111111111
A7DPNEUMATIC PRECHARGE                         UHBE             UHBD              AAAAAAAAA
A7D   VALVE PACKAGE             45EAA         UHBEA            UHBE              1
A7D   PNEUMATIC PRECHARGE GAUGE 45EAB         UHBEB            DR                1
A7D   VALVE,SYSTEM CHARGE       45EAD         UHBEC            UHBE              A
A7DEXTERNAL PRESSURE                           UHBF             UHBA              000000000
A7D   DISCONNECT,PRESSURE       45BAJ         UHBFA            UHBF              5
A7D   DISCONNECT,RETURN         45BAK         UHBFB            UHBF              5
A7DPUMP/FLUID COOLING                          UHBG             UHBB              888888888
A7D   DISCONNECT,BYPASS         45BAE         UHBGA            UHBC              2
A7D   FILTER,BYPASS             45BAM         UHBGB            UHBG              3
A7D   EXTENSION UNIT,BYPASS     45BAS         UHBGC            UHBG              2
A7D   HOSE,BYPASS               9945C         UHBGD            UHBG              2
A7DPRESSURE SENSING DC-2                       UHBH             DZFEZ             AAAAAAAAA
A7D   PRESSURE XMITTER          45BBA         UHBHB            UHBH              A
A7DSYSTEM ISOLATION CONTROL                    UHBJ             UHD               AAAAAAAAA
A7D   VALVE,ISOLATION           45BAL         UHBJA            UHBJ              A
A7DMANUAL PRESSURIZATION                       UHBK             UHD               000000000
A7D   HAND PUMP                 45BAQ         UHBKA            UHBK              A
A7DEMERGENCY ACCUMULATOR CHARGE                UHBL             DZFEX             AAAAAAAAA
A7D HYD PRESS                                  UHBL             FACD              A00C00000
A7D EMERG. ACCUM  CHARGING                     UHBL             GAL               AAAAAAAAA
A7DEMERG ACCUM CHARGING                        UHBL             LACC              AAAAAAAAA
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000000001111111111122222222233333333334444444444555555555566666666677777777773
123456789012345678901234567890123456789012345678901234567890123456789012345678
A7DEMERGENCY ACCUMULATOR CHARGE          UHBL          UHCP          AAAAAAAAA
A7D   VALVE,MANUAL SHUTOFF      45DAG   UHBLA         UHBL        A
A7DVALVE,THERMAL RELIEF         13CAB   UHBLN         UHBL        9
A7DVALVE,EMERGENCY PRESSUREDUMP 13CAC   UHBLP         UHBL        6
A7DVALVE,PRECHARGE SHUTOFF      13CAD   UHBLR         UHBL        9
A7DPC 3 HYD PRESS DIST                  UHC           BACL          AAAAAAAAA
A7DPC 3 HYD                             UHC           FCS     UHB   111111111
A7DPC3 HYDRAULICS DIST                  UHC           FCDR          FAAAAAAAAA
A7DPC3 HYD                              UHC           FDC           111111111
A7DPC 3 HYD                             UHC           FFZ           111111111
A7DSYSTEM PRESSURE                      UHCA          UHC           AAAAAAAAA
A7DSYSTEM PRESSURE                      UHCA          UHCC          FAAAAAAAAA
A7DSYSTEM PRESSURE                      UHCA          UHCD          FAAAAAAAAA
A7DSYSTEM PRESSURE                      UHCA          UHCH          FAAAAAAAAA
A7D   FILTER MAIN PRESSURE  45CAF   UHCAA         UHCA        0
A7D   VALVE,SYSTEM PRESS RELIEF45CAG  UHCAB         UHCA        5
A7D  SWIVEL  PRESSURE        45CAS   UHCAC         UHC         5
A7D  SWIVEL RETURN           45CAT   UHCAD         UHC         5
A7DINTERNAL PRESSURE                    UHCB          UHCA    UHCJ  111111111
A7D   DISCONNECT,PRESSURE    45CAD   UHCBA         UHCB        2
A7D   PUMP,PC3               45CAE   UHCBB         UHCB        A
A7D   EXTENSION UNIT,PRESSURE 45CAN  UHCBC         UHCB        2
A7D   EXTENSION UNIT,RETURN  45CAP   UHCBD         UHCB        2
A7D   DISCONNECT,RETURN      45CAU   UHCBE         UHCB        2
A7D   HOSE,PRESSURE          9945A   UHCBF         UHCB        2
A7D   HOSE,RETURN            9945B   UHCBG         UHCB        2
A7D   HYD.PUMP DR.GEAR & BRNG 231SW N UHCBJ         UHCB        A
A7DFLUID SUPPLY                         UHCC          UHCA          SAAAAAAAAA
A7DFLUID SUPPLY                         UHCC          UHCB          FAAAAAAAAA
A7DFLUID SUPPLY                         UHCC          UHCJ          FAAAAAAAAA
A7D   RESERVOIR              45CAB   UHCCA         UHCC        5
A7D   RESV. CONTROL INDICATOR 45CAC   UHCCB         DB          1
A7DSURGE DAMPING                        UHCD          UHCDZ         111111111
A7D   ACCUMULATOR            45CAH   UHCDA         UHCD        A
A7DSURGE DAMPING ATTENUATION            UHCDZ         UHC           111111111
A7DPNEUMATIC PRECHARGE                  UHCE          UHCD          AAAAAAAAA
A7D   VALVE PACKAGE          45DAA   UHCEA         UHCE        1
A7D   PNEUMATIC PRECHARGE GAUGE45DAB   UHCEB         DB          1
A7D   VALVE SYSTEM CHARGE    45DAD   UHCEC         UHCE        A
A7DEXTERNAL PRESSURE                    UHCF          UHCA          000000000
A7D   DISCONNECT,PRESSURE    45CAJ   UHCFA         UHCF        5
A7D   DISCONNECT,RETURN      45CAK   UHCFB         UHCF        5
A7DPUMP COOLING                         UHCG          UHCB          888888888
A7D   FILTER,BYPASS          45CAL   UHCGA         UHCG        0
A7D   DISCONNECT,BYPASS      45CAM   UHCGB         UHCC        5
A7D   EXTENSION UNIT,BYPASS  45CAQ   UHCGC         UHCC        5
A7D   HOSE,BYPASS            9945C   UHCGD         UHCC        5
A7DPRESSURE SENSING PC-3                UHCH          DZFEZ         AAAAAAAAA
A7D   TRANSMITTER PRESSURE   45CEA   UHCHB         UHCH        A
A7DEMERGENCY PRESSURE                   UHCJ          UHCA  K UHCB  AAAAAAAAA
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0000000001111111111222222222233333333344444444455555555566666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
A7D   PUMP,HYDRAULIC              91ACA   UHCJA          UHCJ          A
A7D   SWIVEL                      91ACB   UHCJB          UHCJ          5
A7D   REGULATOR,FLOW              91ACC   UHCJC          UHCJ          8
A7D   FILTER                      91ACD   UHCJD          UHCJ          0
A7DEMERGENCY PUMP COOLING                 UHCK           UHCJ            888888888
A7D   DUMMY                       9999K   UHCKA          UHCK          0
A7DEPP DRIVE                              UHCL           UAP             AAAAAAAAA
A7DEPP DRIVE                              UHCL           UDR             AAAAAAAAA
A7DEPP DRIVE                              UHCL           UHCJ            AAAAAAAAA
A7D   TURBINE                     91AAA   UHCLA          UHCL          A
A7D   SUPPORT ARM ASSY            91AEB   UHCLB          UHCL          A
A7DEPP EXTENSION/RETRACTION               UHCM           UHCI            AAAAAAAAA
A7D   VALVE SELECTOR              91AFA   UHCMA          UHCM          5
A7D   CYLINDER ASSY               91AFB   UHCMB          UHCM          5
A7D   VALVE,RETRACT               91AFH   UHCMC          UHCM          0
A7D   RELAY,EXTENSION  K 13       91AGA   UHCMD          UHCM          1
A7D   SWITCH,DOOR                 91AGB   UHCME          UHCM          1
A7D   SWITCH,RETRACT              91ACC   UHCMF          UHCM          0
A7DEPP SELECT                             UHCN           UHCM            AAAAAAAAA
A7D   HANDLE                      91ADA   UHCNA          UHCN          5
A7D   PULLEY                      91AEB   UHCNB          UHCN          5
A7DACCUMULATOR PRESSURE                   UHCP           UHCM    K UHB   AAAAAAAAA
A7D   ACCUMULATOR PACKAGE         91AFC   UHCPA          UHCP          1
A7D   ACCUMULATOR                 91AFF   UHCPB          UHCP          A
A7D   VALVE,RELIEF                91AFG   UHCPC          UHCP          5
A7DPRESSURE BACKUP                        UHCQ           UHCJ            222222222
A7D   VALVE,RESERVOIR RELIEF      45CAA   UHCQA          UHCC          5
A7D   VALVE,SOLENOID SHUTOFF      45CAP   UHCQB          UHCQ          1
A7DPNEUMATIC PRECHARGE                    UHCR           UHCQ            AAAAAAAAA
A7D   PNEUMATIC PRECHARG GAUGE    45DAB   UHCRB          DB            1
A7D   VALVE,SYSTEM CHARGE         45DAD   UHCRC          UHCR          A
A7D   VALVE PACKAGE               45DAA   UHCRH          UHCR          1
A7DPNEUMATIC  PRECHARGE                   UHCS           UHCP            AAAAAAAAA
A7D   VALVE,DUMP                  91AFF   UHCSA          UHCS          5
A7D   VALVE,PRECHARGE             91AFD   UHCSB          UHCS          5
A7D   PNEUMATIC PRECHARG GAUGE    45DAB   UHCSC          DB            1
A7DACCUMULATOR WARM                       UHCT           UHCP            111111111
A7D   BLANKET                     91AFA   UHCTA          UHCT          A
A7DISOLATED HYD PRESS                     UHD            FACA            AAAAAAAAA
A7D HYDRAULIC PC-Z  POWER                 UHD            GAAD            AAAAAAAAA
A7D HYDRAULIC PC-Z  POWER                 UHD            GAFB            AAAAAAAAA
A7D ISOLATED  PC 2                        UHD            GC              AAAAAAAAA
A7D                                       UHD            LACK            AAAAAAAAA
A7DISOLATED  PC2  DISTRIBUTION            UHD            UHBL            A0C000000
A7D   RELAY, DC SEC               42BBK   UKJA           UDJ           A
A7D   TRLSY,DC SEC                42FBK   UKLC           UDL           5

CARD COUNT IS 00003895. CARDS WITH ERRORS 00000000
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